June 2023 Semi-Annual Groundwater Monitoring Report Patchogue Former MGP Site NYSDEC Site No. 1-52-182 Village of Patchogue, Suffolk County, New York

Prepared for

National Grid USA, Hicksville, New York

July 13, 2023

June 2023 Semi-Annual Groundwater Monitoring Report Patchogue Former MGP Site NYSDEC Site No. 1-52-182 Village of Patchogue, Suffolk County, New York

Prepared for
National Grid USA
175 East Old Country Road
Hicksville, New York 11801

July 13, 2023

Project Number: 153021.805.018

Brown and Caldwell Associates
500 North Franklin Turnpike, Suite 306
Ramsey, New Jersey 07446

Table of Contents

List of Tables i
List of Figures ii
List of Abbreviations iii
1. Introduction 1-1
    1.1 Background 1-1
2. Scope of Work 2-1
3. Results and Findings 3-1
    3.1 Water Level Data 3-1
    3.2 NAPL Gauging 3-1
    3.3 Groundwater Quality Data 3-1
4. Summary and Conclusions 4-1
5. References 5-1
Tables ..... Tables
Figures ..... Figures
Appendix A: Field Sampling Data Sheets A-1
Appendix B: Laboratory Data Reports B-1
Appendix C: Data Validator Qualifications C-1
Appendix D: Data Usability Summary Report D-1
Appendix E: Evaluation of Potential Impact to River from Site Constituents in Groundwater – 2020 Data E-1
Appendix F: Evaluation of Potential Impact to River from Increased pH Levels in Groundwater – December 2020 Data F-1

List of Tables

Table 1. Water Elevations and NAPL Monitoring Data
Table 2. Groundwater Analytical Results
Table 3. Summary of Historical BTEX Concentrations
Table 4. Summary of Historical PAH Concentrations

List of Figures

Figure 1. Water Table Elevation Contour Map – June 7, 2023
Figure 2. Groundwater Quality Trend Plot – Acenaphthene
Figure 3. Groundwater Quality Trend Plot – Benzene
Figure 4. Groundwater Quality Trend Plot – Naphthalene
Figure 5. Groundwater Quality Trend Plot – Fluorene
Figure 6. Groundwater Quality Trend Plot – Pyrene
Figure 7. Groundwater Quality Trend Plot – pH

List of Abbreviations

BC	Brown and Caldwell Associates
BTEX	Benzene, Toluene, Ethylbenzene and Isomers of Xylene
DUSR	Data Usability Summary Report
ELAP	Environmental Laboratory Approval Program
FER	Final Engineering Report
ISS	In Situ Solidification
Lancaster	Eurofins Lancaster Laboratories Environmental
MGP	Manufactured Gas Plant
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NAPL	Non-Aqueous Phase Liquid
NYCRR	New York State Code of Rules and Regulations
NYSDEC	New York Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAH	Polycyclic Aromatic Hydrocarbon
QA/QC	Quality Assurance/Quality Control
SIM	Selective Ion Monitoring
Site	Patchogue Former MGP Site
TOGS	Technical and Operational Guidance Series
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency

Section 1

Introduction

This Groundwater Monitoring Report documents the implementation and summarizes the results of the groundwater monitoring activities conducted during the June 2023 semi-annual sampling event at the Patchogue Former Manufactured Gas Plant (MGP) Site (hereinafter referred to as the "Site"). This monitoring event is the eleventh to be conducted after substantial completion of remedy implementation in the December 2019. The major component of the remedy included in situ solidification (ISS) of MGP-related source materials and associated soils. The groundwater monitoring activities included the performance of water level measurements, non-aqueous phase liquid (NAPL) gauging and groundwater sampling activities.

The groundwater monitoring event and the preparation of this report are part of the long-term groundwater monitoring program being conducted at the Site in accordance with the Site Management Plan prepared by Brown and Caldwell Associates (BC), February 2023). Remedial construction activities, including restoration, were completed in July 2020. This report has been prepared for submittal to the NYSDEC and includes the following:

- Description of the scope of the field activities, methods, and procedures
- Table summarizing the results of the water level measurements and the gauging for the presence of NAPL in the monitoring wells (Table 1)
- Table summarizing the analytical results for the groundwater samples obtained during the June 2023 semi-annual groundwater monitoring event including a comparison to the applicable groundwater quality criteria (Table 2)
- Comparison of data from this monitoring period to data from historical monitoring events (Tables 3 and 4)
- Discussion of the results and findings from the groundwater monitoring data
- A water table elevation contour map depicting the generalized direction of groundwater flow based on groundwater elevation data obtained from monitoring wells (Figure 1)
- Water quality trend plots for select constituents (Figures 2 through 6)
- Field Sampling Data Sheets (Appendix A)
- Laboratory Data Report (Appendix B)
- Data Validator Qualifications (Appendix C)
- Data Usability Summary Report (DUSR) (Appendix D)
- Evaluation of Potential Impact to River from Site Constituents in Groundwater – March, June, September, and December 2020 Data (Appendix E)
- Evaluation of Potential Impact to River from Increased pH Levels in Groundwater – December 2020 Data (Appendix F)

1.1 Background

This report presents the results and findings associated with the June 2023 semi-annual groundwater monitoring event, which is the eleventh such event conducted following completion of the implementation of the Site remedy (aside from site restoration) in December 2019. Groundwater

conditions prior to remedy implementation are documented and discussed in previous groundwater monitoring reports dating back to 2009 and in the "Final Remedial Investigation Report for the Patchogue Former MGP Site" (Tetra Tech EC, Inc., December 2009). Remedial construction activities, which included ISS of MGP-related source materials and associated soils, were performed during the period from June through December 2019. Final Site restoration efforts were completed in the July of 2020. At the end of 2018, groundwater monitoring was suspended to allow for remedial construction activities. Several monitoring wells and piezometers were decommissioned prior to remedial construction activities to facilitate remedy implementation. These wells included MW-5, MW-6, MW-9S, MW-9D, and PZ-1A through PZ-4A. Each well/piezometer was decommissioned in accordance with NYSDEC's guidance document "CP-43: Groundwater Monitoring Well Decommissioning Policy". A description of the decommissioning activities, as well as field inspection logs and well decommissioning records were provided under separate cover in the "Final Engineering Report" (FER, BC, February 2022).

Prior to resumption of groundwater monitoring following remedial construction activities, five monitoring well couplets (MW-10S/D through MW-14S/D) were installed in January 2020 to facilitate performance of a long-term groundwater monitoring program at the Site. These additions to the well network were installed in accordance with the "100% Remedial Design Report" (BC, May 2019) as modified by subsequent email correspondence (during the period from January 7 to 16, 2020) between National Grid and the NYSDEC. These wells are supplemental to previously installed wells (MW-1 and MW-3) and well couplets (MW-4S/D, MW-7S/D, and MW-8S/D), which serve as Site perimeter monitoring locations. The well couplets installed in January 2020 were selected to provide additional well coverage for post-remediation groundwater quality monitoring at locations positioned around the ISS mass, and at locations between the ISS mass and the adjacent Patchogue River. The screens of the monitoring wells provide coverage across the vertical extent of the ISS mass. Monitoring well construction logs for the well couplets installed in January 2020 were provided in Appendix C of the "Site Management Plan" (BC, February 2023).

Groundwater monitoring prior to remedy implementation was conducted on a semi-annual basis; however, the sampling frequency was temporarily increased to quarterly directly after remedy implementation to evaluate the effectiveness of the remedy for Calendar Years 2020 and 2021. Following completion of eight quarters of post-remediation monitoring and evaluation of the data, National Grid proposed several modifications to the long-term post-remedial groundwater monitoring program for the Site for review and approval by the NYSDEC. Specifically, based on the results of the 2020 and 2021 quarterly monitoring activities, the following modifications were proposed in the Fourth Quarter 2021 Groundwater Monitoring Report (BC, March 2022):

- **Elimination of deeper monitoring wells from groundwater monitoring program:** Monitoring of the deep groundwater (8 well locations) is no longer warranted. Eight quarters of groundwater sampling have been conducted since completion of remedy implementation. MGP-related constituents were not detected or detected at very low levels (below New York State Class GA groundwater quality criteria) in the deep groundwater wells during these eight sampling events.
- **Removal of methyl tertiary-butyl ether from analyte list:** This non MGP-related constituent has only been detected several times dating back to 2011 at very low concentrations below its Class GA Criterion at a single location (MW-8S) and thus, removal of this constituent from the analyte list was recommended.
- **Changing the frequency of groundwater monitoring from quarterly to semi-annually:** Tables 3 and 4 of the above-referenced report provide historical total benzene, toluene, ethylbenzene, and isomers of xylene (BTEX) compounds and total polycyclic aromatic hydrocarbon (PAH) concentration data, respectively, and based on a review of the 2020 and 2021 data in these tables, it is evident that the concentrations of more mobile constituents (i.e., BTEX compounds) increased shortly after completion of the remedy followed by increases in concentrations of less mobile PAH compounds in

wells downgradient of the ISS mass. The BTEX concentrations have decreased throughout Calendar Years 2020 and 2021, while the PAH concentrations appear to have plateaued and are anticipated to decrease following this plateau. Sampling on a semi-annual basis is adequate for assessing groundwater quality conditions at the Site.

The NYSDEC approved the above-recommended modifications in an email dated April 13, 2022, with the exception of allowing the removal of deep monitoring well locations MW-12D and MW-13D from the monitoring program. Monitoring of both shallow and deep groundwater downgradient of the ISS mass at these two monitoring well locations will continue as part of the semi-annual groundwater monitoring events.

Section 2

Scope of Work

Field activities for the June 2023 semi-annual groundwater monitoring were conducted by BC on June 7 and 8, 2023. The activities conducted during this monitoring event are described below. Locations of the monitoring wells and staff gauges referenced below are depicted on Figure 1.

Prior to groundwater sampling, water level measurements and NAPL gauging was performed in the monitoring wells associated with the Site. The level of the Patchogue River was measured from surface water elevation control points at staff gauges SG-1 and SG-2. Water level measurements and NAPL gauging were conducted using an electronic oil/water interface probe; these measurements were made to the nearest 0.01 foot.

Groundwater sampling was conducted at 12 monitoring wells (MW-1, MW-3, MW-4S, MW-7S, MW-8S, MW-10S, MW-11S, MW-14S; and well couplets MW-12S/D and MW-13S/D) following the water level and NAPL gauging activities using low-flow purging and sampling techniques in accordance with the United States Environmental Protection Agency (USEPA) protocol (USEPA, July 1996, Revised September 2017). Samples were submitted to Eurofins Lancaster Laboratories Environmental (Lancaster) located in Lancaster, Pennsylvania. Lancaster is certified (Certification No. 10670) through the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

The groundwater samples were analyzed for BTEX compounds using USEPA SW-846 Method 8260C, and PAHs using USEPA SW-846 Method 8270D. The selective ion monitoring (SIM) component of the 8270 analysis was also performed on the samples to obtain lower detection limits for certain PAH compounds. The groundwater samples were also analyzed in the field for pH, specific conductivity, temperature, turbidity, oxidation-reduction potential, and dissolved oxygen (see Appendix A for field sampling data sheets).

The laboratory report from Lancaster is provided in Appendix B. Laboratory analytical data were provided to BC in electronic form by Lancaster and have been incorporated into the environmental database maintained by BC for the Site.

In addition to the samples described above, quality assurance/quality control (QA/QC) samples were also collected. The QA/QC samples included: trip blanks (one per cooler containing samples for BTEX analysis), a field duplicate, and an equipment blank. Also, extra sample volume was collected from one location to provide for matrix spike/matrix spike duplicate (MS/MSD) analysis. The trip blank sample was analyzed for BTEX only. The other QA/QC samples were analyzed for BTEX and PAHs.

The groundwater analytical data packages were validated by Kelly Donahue of BC. Ms. Donahue's qualifications and experience as a data validator are included in Appendix C. A DUSR was prepared for the groundwater data packages (see Appendix D). Overall, the data is acceptable for the intended purposes. No analytical issues were found. Associated sample results were appropriately qualified and are usable for intended purposes.

Section 3

Results and Findings

3.1 Water Level Data

Table 1 provides the water level data and calculated water elevations from the June 7, 2023 measurements. Figure 1 illustrates the elevation contours of the water table based on these data. The contours were developed using water level elevation data from the shallow monitoring wells (i.e., those with screens that straddle, or are just below, the water table) considered representative of the water table, and the staff gauges in the Patchogue River. The groundwater elevation (hydraulic head) values for the wells screened in deeper intervals are also posted for reference on Figure 1. The water table is relatively shallow and is typically positioned in the fill that overlies the native alluvial deposits and outwash deposits and that overlies the ISS mass. The water table contours indicate that lateral groundwater flow is from the northwest to the south and southeast across the Site toward the Patchogue River.

3.2 NAPL Gauging

Table 1 presents the results of the NAPL gauging conducted in the monitoring wells associated with the Site during the June 2023 groundwater monitoring event. NAPL was not identified in any of the Site monitoring wells during the June 7, 2023 gauging activities.

3.3 Groundwater Quality Data

Table 2 provides the results of the laboratory analyses of the groundwater samples collected during the June 2023 semi-annual monitoring event and a comparison of the data to the New York State Class GA groundwater quality criteria (i.e., New York State Codes, Rules and Regulations (NYCRR) Part 703 groundwater standards for Class GA water (groundwater) or, for constituents with no standard, the corresponding guidance value from Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1). Comparisons of total BTEX and total PAH concentrations from this sampling event to previous sampling events are provided as Tables 3 and 4, respectively.

Groundwater samples were collected from the 12 monitoring wells listed in Table 2 from June 7 and 8, 2023 and submitted to the laboratory for analysis of BTEX and PAHs. At wells MW-3, MW-11S, and MW-13S, concentrations of acenaphthene (MW-3 and MW-11S), benzene (MW-13S), and naphthalene (MW-3) were detected at concentrations above the Class GA groundwater quality criteria. These constituents are considered Site related and potentially mobile in groundwater. The presence of these constituents in groundwater at these locations is an expected result of the disturbance of the subsurface during implementation of the ISS; the elevated concentrations are expected to decrease with time. As shown in Figures 2, 3 and 4 the constituents that exceed class GA criteria at the noted wells show an overall decrease in concentration from the highest concentrations detected following remediation. In these wells, one or more the following PAH compounds were also detected at concentrations above Class GA groundwater quality criteria: benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. As discussed further below in this section, these PAHs have very low aqueous solubilities, and their detection may not represent constituents that are mobile in groundwater.

Prior to remediation in the area downgradient of the MGP-related source materials, acenaphthene, benzene and naphthalene were either not detected or detected at concentrations below Class GA groundwater quality criteria in the wells that were in place prior to remedy implementation. Overall, the concentrations have decreased somewhat from the higher concentrations measured earlier in the post-remediation monitoring period, which was initiated in March 2020 (see constituent concentration trend plots presented as Figures 2 through 4). These concentrations are anticipated to further decrease with time and will be evaluated during subsequent monitoring events. For instance, benzene concentrations have been below Class GA criteria apart from occasional slight exceedances at MW-11S (see Figure 3). Additionally, acenaphthene concentrations have decreased since post-remedy peak concentrations aside from MW-11S (see Figure 2). As shown on Figure 4, naphthalene concentrations have also decreased since post-remedy peak concentrations at locations where it has exceeded Class GA criteria (i.e., MW-3 and MW-13S).

In addition to the above-described detections at wells MW-3, MW-11S, and MW-13S, PAH compounds were also detected in samples collected from monitoring wells MW-8S and MW-12S at low concentrations (i.e., at or slightly above the laboratory method detection limit), but above the Class GA groundwater quality criteria, during the June 2023 semi-annual monitoring event. The PAH compounds that were identified in the groundwater samples from these sampling locations at concentrations above the Class GA groundwater quality criteria include one or more of the following five compounds: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene. These PAH compounds have very low aqueous solubilities, are not readily mobile in groundwater, and are unlikely to have migrated from the on-Site source area. The criteria that were exceeded for four of these five PAHs are unpromulgated guidance values rather than 6 NYCRR Part 703 standards. The criteria for the fifth PAH, benzo(a)pyrene, is a Part 703 standard. The standard for benzo(a)pyrene is “non-detect” and the guidance value for the other four PAHs, 0.002 micrograms per liter (µg/L), is approximately an order of magnitude below the method detection limit. Therefore, any detection of these compounds in groundwater will result in an exceedance. The detection of these constituents in the monitoring locations is likely related to the disturbance of fine or colloid sized particles during purging or sampling activities. These particles are derived from within the well or the soil adjacent to the well that become suspended into the water column of the well as a result of disturbance during purging and sampling activities.

As described above in Section 3.1, groundwater flow is from the northwest to the south and southeast across the Site toward the Patchogue River. The concentrations of some of the constituents that were detected and potentially mobile in the dissolved phase (benzene and ethylbenzene) continue to be below applicable surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact surface water quality in the Patchogue River. However, the concentration of one or more of the following seven constituents were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S): acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene, and pyrene. Although it was not anticipated that these constituent concentrations would impact surface water quality if they discharged to the river, and that some of these compounds have very low aqueous solubilities and thus low potential for migration (i.e., benzo(a)anthracene and benzo(a)pyrene – see discussion at end of this section), a mass flux analysis was previously conducted (provided in Appendix E) to assess the potential for discharge of Site-related constituents in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of Site-related constituents dissolved in groundwater may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). Based on the analysis, it was determined that the estimated concentrations of acenaphthene, benzo(a)anthracene, benzo(a)pyrene,

fluorene, naphthalene, phenanthrene, and pyrene in the river water resulting from the discharge of groundwater from the Site were below applicable surface water quality criteria. The details of these constituent mass flux analyses are presented in Appendix E; the results are summarized below.

The concentrations of acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene, and pyrene in the June 2023 samples were similar (within the same order of magnitude) to those in the 2020 samples, yet the concentrations appear to be either stabilizing or trending downwards (see groundwater quality trend plots for fluorene and pyrene presented as Figures 5 and 6, respectively). Since the estimated concentrations of these seven constituents in surface water, as derived from the previous mass flux analyses using data from 2020, were below applicable surface water criteria (see Appendix E), an additional estimation of concentrations of these constituents in the river is not necessary. Based on the evaluation conducted, Site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

As discussed in previous monitoring reports, following implementation of the remedy, pH levels in two wells downgradient of and proximal to the ISS mass were found to have pH levels above the Class GA criteria range of 6.5 to 8.5. Specifically, after remedy implementation, monitoring data showed that the pH level in MW-3 began to increase above levels from prior to remedy implementation (typically ±6.9), up to levels as high as 11.27. Also, samples from well MW-13S, installed at the end of remedy implementation, showed an increase in pH levels, up to levels as high as 9.88. The increased pH levels are considered an effect from implementation of ISS in the area and are anticipated to decrease to pre-remedy levels with time. Due to the low permeability of the ISS mass, the flux of groundwater in the area immediately downgradient of the ISS mass (proximal to well locations MW-3 and MW-13S) is greatly reduced. This is consistent with the findings from the groundwater flow model developed during the remedial design. Thus, the rate at which the groundwater with an elevated pH (i.e., elevated hydroxide ion concentration) is flushed from this area is expected to be very low. The presence of new asphalt pavement over this area likely further contributes to the reduction in flushing due to decreased infiltration of precipitation. This, coupled with the uncertainty regarding the timeframe over which the Portland-cement-based ISS material can generate elevated pH levels in close proximity to the ISS mass. As shown on Figure 7, the pH levels at MW-3 and MW-13S were generally declining; however, the pH levels at MW-3 and MW-13S following completion of purging were 11.27 and 9.41, respectively; these levels are higher than measured at these locations in December 2022. Although the increased pH levels in groundwater are not anticipated to impact surface water quality in the Patchogue River, similar to the above-described evaluations conducted for certain PAHs dissolved in groundwater to potentially effect surface water quality, an analysis was previously conducted to evaluate the potential for the increased pH levels to effect surface water quality in the river. The details of this pH mass flux analysis are presented in Appendix F. Since the pH levels measured in MW-3 and MW-13S in June 2023 are within an order of magnitude or less to the levels measured in December 2020 and the estimated pH level in surface water (based on the December 2020 field measurements) was below applicable surface water criteria, an additional estimation of the pH level in the river is not necessary. Based on the evaluation conducted, the increased pH levels in shallow groundwater do not impact surface water quality in the Patchogue River.

Section 4

Summary and Conclusions

The following is a summary of the findings and conclusions associated with the June 2023 groundwater monitoring event.

- NAPL was not identified in any of the Site monitoring wells during the June 2023 gauging activities.
- Consistent with previous monitoring events conducted after remedy implementation, concentrations of one or more of the following constituents were detected at concentrations above the Class GA groundwater quality criteria in wells MW-3 and MW-13S: acenaphthene, benzene and naphthalene. The presence of these Site-related constituents is an expected result of the disturbance of the subsurface during implementation of the ISS. Overall, these concentrations have decreased somewhat since their post-remediation peak and are anticipated to further decrease with time and will be evaluated during subsequent monitoring events. For instance, benzene concentrations have been below Class GA criteria apart from occasional slight exceedances at MW-11S and MW-13S.
- The concentrations of Site-related constituents detected in groundwater at the Site are not impacting surface water quality in the Patchogue River based on an evaluation of the mass flux of constituents in groundwater to the river.
- Increased pH levels in groundwater at two locations immediately downgradient of the ISS mass are considered an effect from implementation of ISS in the area. The pH levels are anticipated to decrease to pre-remedy levels with time. The increased pH levels measured in groundwater at the Site are not impacting surface water quality in the Patchogue River based on a mass flux analysis.

Section 5

References

Brown and Caldwell Associates, February 2023, Site Management Plan, Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

Brown and Caldwell Associates, February 2023, Final Engineering Report, Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

Brown and Caldwell Associates, May 2019, Remedial Design Report (100% Submission), Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

Brown and Caldwell Associates, December 2012, Construction Completion Report Utility Corridor Work Plan Implementation, Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

NYSDEC, CP-43: Groundwater Monitoring Well Decommissioning Policy, November 2009).

Tetra Tech EC, Inc, December 2009. Final Remedial Investigation Report for the Patchogue Former MGP Site, Patchogue, Suffolk County, New York.

USEPA, July 1996; Revised September 2017. Low-Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells.

Tables

TABLE 1
WATER ELEVATIONS AND NAPL MONITORING DATA
JUNE 2023 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

		6/7/2023			
Location ID	Top of Casing Elevation (ft., NAVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NAVD)	Depth to NAPL (ft., BTOC)	Total Depth of Well (ft., BTOC)
MW-1	11.47	5.81	5.66	NI	15.17
MW-3	5.56	1.70	3.86	NI	10.10
MW-4S	7.97	4.72	3.25	NI	12.22
MW-4D	7.79	4.48	3.31	NI	26.63
MW-7S	8.45	4.32	4.13	NI	12.40
MW-7D	8.31	4.19	4.12	NI	28.10
MW-8S	5.01	0.70	4.31	NI	9.83
MW-8D	4.99	0.68	4.31	NI	25.06
MW-10S	5.77	1.01	4.76	NI	15.49
MW-10D	5.73	1.00	4.73	NI	25.37
MW-11S	5.02	0.80	4.22	NI	13.71
MW-11D	5.14	0.96	4.18	NI	23.54
MW-12S	4.99	1.47	3.52	NI	13.90
MW-12D	4.92	1.36	3.56	NI	23.85
MW-13S	4.98	1.37	3.61	NI	14.26
MW-13D	4.96	1.36	3.60	NI	23.92
MW-14S	4.86	0.90	3.96	NI	12.59
MW-14D	4.82	0.95	3.87	NI	22.02
SG-1	5.38	4.00	1.38	NA	NA
SG-2	5.25	3.78	1.47	NA	NA

Notes:
NAVD - North American Vertical Datum 1988
ft. - Feet
BTOC - Below Top of Casing
NA - Not Applicable
NI - NAPL not Indicated by Oil/Water Interface Probe
-- - Not measured
MW - monitoring well
SG - staff gauge

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
JUNE 2023 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

	Class GA Groundwater Criteria			Loc ID	MW-1		MW-3		MW-4S		MW-7S		MW-8S		MW-10S		MW-11S		MW-12S		MW-12D	
Constituent	TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Date	6/8/2023		6/7/2023		6/8/2023		6/8/2023		6/7/2023		6/8/2023		6/7/2023		6/7/2023		6/7/2023	
Volatile Organic Compounds (VOCs)																						
BTEX Compounds																						
Benzene	NE	1	µg/L		< 0.30	U	0.45	J	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	0.71	J	< 0.30	U	< 0.30	U
Toluene	NE	5	µg/L		< 0.30	U	0.50	J	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U	< 0.30	U
Ethylbenzene	NE	5	µg/L		< 0.40	U	1.2		< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U
Xylenes, total	NE	5	µg/L		< 0.40	U	1.1		< 0.40	U	< 0.40	U	< 0.40	U	< 0.40	U	0.65	J	< 0.40	U	< 0.40	U
Total BTEX[(a)]	NE	NE	µg/L		ND		3.3		ND		ND		ND		ND		1.4		ND		ND	
Semi-Volatile Organic Compounds (SVOCs)																						
Polycyclic Aromatic Hydrocarbons (PAHs)																						
Acenaphthene	20	NE	µg/L		< 0.010	U	**30**		< 0.011	U	0.11		0.19		< 0.010	U	**21**		0.029	J	< 0.010	U
Acenaphthylene	NE	NE	µg/L		< 0.010	U	3.9		0.051	J	< 0.010	U	< 0.010	U	< 0.010	U	0.63		< 0.010	U	< 0.010	U
Anthracene	50	NE	µg/L		< 0.010	U	1.8		0.084		0.021	J	< 0.010	U	< 0.010	U	0.21		0.010	J	< 0.010	U
Benzo(a)anthracene	0.002	NE	µg/L		< 0.010	U	**0.42**		< 0.011	U	< 0.010	U	< 0.010	U	< 0.010	U	**0.60**		**0.037**	J	< 0.010	U
Benzo(a)pyrene	NE	0	µg/L		< 0.010	U	0.012	J	< 0.011	U	< 0.010	U	< 0.010	U	< 0.010	U	0.30		0.039	J	< 0.010	U
Benzo(b)fluoranthene	0.002	NE	µg/L		< 0.010	U	< 0.010	U	< 0.011	U	< 0.010	U	**0.013**	J	< 0.010	U	**0.52**		**0.038**	J	< 0.010	U
Benzo(g,h,i)perylene	NE	NE	µg/L		< 0.010	U	< 0.010	U	< 0.011	U	< 0.010	U	< 0.010	U	< 0.010	U	0.26		0.023	J	< 0.010	U
Benzo(k)fluoranthene	0.002	NE	µg/L		< 0.010	U	< 0.010	U	< 0.011	U	< 0.010	U	< 0.010	U	< 0.010	U	**0.14**		**0.014**	J	< 0.010	U
Chrysene	0.002	NE	µg/L		< 0.010	U	**0.21**		< 0.011	U	< 0.010	U	< 0.010	U	< 0.010	U	**0.60**		**0.035**	J	< 0.010	U
Dibenz(a,h)anthracene	NE	NE	µg/L		< 0.020	U	< 0.020	U	< 0.022	U	< 0.021	U	< 0.021	U	< 0.020	U	0.042	J	< 0.020	U	< 0.020	U
Fluoranthene	50	NE	µg/L		< 0.010	U	8.3		1.2		< 0.010	U	0.014	J	< 0.010	U	3.4		0.031	J	< 0.010	U
Fluorene	50	NE	µg/L		0.013	J	8.4		1.4		0.036	J	< 0.010	U	< 0.010	U	0.17		< 0.010	U	< 0.010	U
Indeno(1,2,3-c,d)pyrene	0.002	NE	µg/L		< 0.020	U	< 0.020	U	< 0.022	U	< 0.021	U	< 0.021	U	< 0.020	U	**0.24**		**0.026**	J	< 0.020	U

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
JUNE 2023 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

	Class GA Groundwater Criteria																					
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-1		MW-3		MW-4S		MW-7S		MW-8S		MW-10S		MW-11S		MW-12S		MW-12D	
Constituent	Guidance	Standard	Units	Date	6/8/2023		6/7/2023		6/8/2023		6/8/2023		6/7/2023		6/8/2023		6/7/2023		6/7/2023		6/7/2023	
Naphthalene	10	NE	µg/L		0.091		**65**		0.051	J	0.12		< 0.031	U	0.078		0.10		0.050	J	0.072	
Phenanthrene	50	NE	µg/L		< 0.031	U	16		< 0.032	U	< 0.031	U	< 0.031	U	< 0.030	U	0.72		0.036	J	< 0.030	U
Pyrene	50	NE	µg/L		< 0.010	U	9.2		0.95		< 0.010	U	0.014	J	0.014	J	5.0		0.044	J	< 0.010	U
Total PAHs[b]	NE	NE	µg/L		0.104		143		3.7		0.29		0.23		0.092		34		0.42		0.072	

Notes:
BTEX - benzene, toluene, ethylbenzene and isomers of xylene.
TOGS - Technical and Operational Guidance Series
U - The analyte was analyzed for, but was not detected above the sample reporting limit. Value shown is representative of method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the reporting limit but above the method detection limit.
µg/L - micrograms per liter
ND - Not detected.
NE - Not established.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - To calculate total PAH concentration, a value of zero is used for non-detect values.

Boxed concentrations in bold font are above New York State Class GA Groundwater Quality Criteria (Standards or Guidance values).

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
JUNE 2023 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

	Class GA Groundwater Criteria			Loc ID	MW-12D (Dup)		MW-13S		MW-13D		MW-14S	
Constituent	TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Date	6/7/2023		6/8/2023		6/8/2023		6/8/2023	
Volatile Organic Compounds (VOCs)												
BTEX Compounds												
Benzene	NE	1	µg/L		< 0.30	U	**1.2**		< 0.30	U	< 0.30	U
Toluene	NE	5	µg/L		< 0.30	U	0.37	J	< 0.30	U	< 0.30	U
Ethylbenzene	NE	5	µg/L		< 0.40	U	0.41	J	< 0.40	U	< 0.40	U
Xylenes, total	NE	5	µg/L		< 0.40	U	0.76	J	< 0.40	U	< 0.40	U
Total BTEX[(a)]	NE	NE	µg/L		ND		2.7		ND		ND	
Semi-Volatile Organic Compounds (SVOCs)												
Polycyclic Aromatic Hydrocarbons (PAHs)												
Acenaphthene	20	NE	µg/L		< 0.010	U	0.025	J	< 0.010	U	0.28	
Acenaphthylene	NE	NE	µg/L		< 0.010	U	0.064		< 0.010	U	0.011	J
Anthracene	50	NE	µg/L		< 0.010	U	0.028	J	< 0.010	U	< 0.010	U
Benzo(a)anthracene	0.002	NE	µg/L		< 0.010	U	**0.022**	J	< 0.010	U	< 0.010	U
Benzo(a)pyrene	NE	0	µg/L		< 0.010	U	< 0.010	U	< 0.010	U	< 0.010	U
Benzo(b)fluoranthene	0.002	NE	µg/L		< 0.010	U	< 0.010	U	< 0.010	U	< 0.010	U
Benzo(g,h,i)perylene	NE	NE	µg/L		< 0.010	U	< 0.010	U	< 0.010	U	< 0.010	U
Benzo(k)fluoranthene	0.002	NE	µg/L		< 0.010	U	< 0.010	U	< 0.010	U	< 0.010	U
Chrysene	0.002	NE	µg/L		< 0.010	U	**0.047**	J	< 0.010	U	< 0.010	U
Dibenz(a,h)anthracene	NE	NE	µg/L		< 0.020	U	< 0.020	U	< 0.020	U	< 0.020	U
Fluoranthene	50	NE	µg/L		< 0.010	U	0.014	J	0.013	J	< 0.010	U
Fluorene	50	NE	µg/L		< 0.010	U	< 0.010	U	< 0.010	U	0.044	J
Indeno(1,2,3-c,d)pyrene	0.002	NE	µg/L		< 0.020	U	< 0.020	U	< 0.020	U	< 0.020	U

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
JUNE 2023 SEMI-ANNUAL GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

	Class GA Groundwater Criteria											
	TOGS 1.1.1	NYS Part 703		Loc ID	MW-12D (Dup)		MW-13S		MW-13D		MW-14S	
Constituent	Guidance	Standard	Units	Date	6/7/2023		6/8/2023		6/8/2023		6/8/2023	
Naphthalene	10	NE	µg/L		0.067	J	0.062	J	0.045	J	0.42	
Phenanthrene	50	NE	µg/L		< 0.030	U	< 0.031	U	< 0.031	U	< 0.030	U
Pyrene	50	NE	µg/L		< 0.010	U	1.6		0.013	J	0.013	J
Total PAHs[b]	NE	NE	µg/L		0.067		1.9		0.071		0.77	

Notes:
BTEX - benzene, toluene, ethylbenzene and isomers of xylene.
TOGS - Technical and Operational Guidance Series
U - The analyte was analyzed for, but was not detected above the sample reporting limit. Value shown is representative of method detection limit for the analyzed constituent.
J - Estimated concentration. The result is below the reporting limit but above the method detection limit.
µg/L - micrograms per liter
ND - Not detected.
NE - Not established.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - To calculate total PAH concentration, a value of zero is used for non-detect values.

Boxed concentrations in bold font are above New York State Class GA Groundwater Quality Criteria (Standards or Guidance values).

TABLE 3
SUMMARY OF HISTORICAL BTEX CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total BTEX Concentrations (µg/L) [a]													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-08	0	0	0	0	3.4	0	1016	57	NS	NS	NS	NS	NS	NS
Jul-08	NS	0	0	0	0	0	678	0	0	0	0	0	0	0
Mar-09	0	0	0	0	0	0	975	0	0	1	0	0	0	0
Sep-09	0	0	0	0	0	0	1257	1	0	0	0	0	0	0
Mar-10	0	0	0	0	0	0	637	2	0	9	0	0	0	0
Sep-10	0	0	0	0	0	0	NS	0	0	0	0	0	27	0
Jan-11	1.7	0	0	0	0	0	NS	NS	0	0	0	0	1	0
Apr-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Aug-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Nov-11	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Feb-12	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
May-12	0	0	0	0	0	0	NS	NS	0	0	0	0	0	0
Nov-12	0	-- [b]	-- [a]	0	12	0	NS	NS	1	0	0	0	NS	NS
Jun-13	0	-- [b]	-- [b]	0	0.8	0	NS	NS	0.7	0	0	0	0	NS
Dec-13	0	-- [b]	-- [b]	NS	0	0	NS	NS	0.8	0	0	0	NS	NS
Jun-14	0	-- [b]	-- [b]	0	0	0	NS	NS	0.8	0	0	0	NS	NS
Dec-14	0	-- [b]	-- [b]	0	0	0	NS	NS	1.3	0	0	0	0	0
Jun-15	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Dec-15	0	-- [b]	-- [b]	0	0	0	NS	NS	0.5	0	0	0	0	0
Jun-16	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Dec-16	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Jun-17	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Dec-17	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Jun-18	0	-- [b]	-- [b]	0	0	0	NS	0	0	0	0	0	0	0
Dec-18	0	-- [b]	-- [b]	0	0	0	NS	NS	0	0	0	0	0	0
Mar-20	0	-- [b]	-- [b]	35	4.3	0	-- [c]	-- [c]	0.4	0	0	0	-- [c]	-- [c]
Jun-20	0	-- [b]	-- [b]	18	2	0	-- [c]	-- [c]	0	0	0	0	-- [c]	-- [c]
Sep-20	0	-- [b]	-- [b]	20	2	0	-- [c]	-- [c]	0.4	0	0	0	-- [c]	-- [c]
Dec-20	0	-- [b]	-- [b]	19	1	0	-- [c]	-- [c]	0	0	0	0	-- [c]	-- [c]

TABLE 3
SUMMARY OF HISTORICAL BTEX CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total BTEX Concentrations (µg/L) [a]													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-21	0	-- [b]	-- [b]	10.2	0.6	0	-- [c]	-- [c]	0.3	0	0	0	-- [c]	-- [c]
Jun-21	0	-- [b]	-- [b]	8.4	0.7	0	-- [c]	-- [c]	0.34	0	0	0	-- [c]	-- [c]
Sep-21	0	-- [b]	-- [b]	8.7	1.0	0	-- [c]	-- [c]	0	0	0	0	-- [c]	-- [c]
Dec-21	0	-- [b]	-- [b]	12	0.3	0	-- [c]	-- [c]	0.31	0	0	0	-- [c]	-- [c]
Jun-22	0	-- [b]	-- [b]	3.9	0	NS [d]	-- [c]	-- [c]	0.31	NS [d]	0	NS [d]	-- [c]	-- [c]
Dec-22	0	-- [b]	-- [b]	4.7	0	NS [d]	-- [c]	-- [c]	0	NS [d]	0	NS [d]	-- [c]	-- [c]
Jun-23	0	-- [b]	-- [b]	3.3	0	NS [d]	-- [c]	-- [c]	0	NS [d]	0	NS [d]	-- [c]	-- [c]
Minimum	0	0	0	0	0	0	637	0	0	0	0	0	0	0
Maximum	1.7	0	0	35	12	0	1257	57	1.3	9.0	0	0	27	0
Mean	0.0	0	0	4.1	0.8	0	913	8.6	0.21	0.3	0	0	1.3	0

Notes:
BTEX - Benzene, toluene, ethylbenzene and isomers of xylene
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring well or piezometer not installed at time of sampling.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (BC, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design Report (100% Submittal)" (BC, May 2019) and "CP-43: Groundwater Monitoring Well Decommissioning Policy" (NYSDEC, November 2009).
(d) - As approved by NYSDEC in an e-mail dated April 13, 2022, sampling of monitoring well is no longer required.

TABLE 3
SUMMARY OF HISTORICAL BTEX CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total BTEX Concentrations (µg/L) [a]										
	Monitoring Well/Piezometer										
	MW-10S	MW-10D	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	PZ-4A
Mar-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jan-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Aug-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
May-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Dec-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0
Dec-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Mar-20	0	0	4	0	0	0	37	0	0	0	-- [c]
Jun-20	0	0	2.7	0	0	0	25	0	0.73	0	-- [c]
Sep-20	0	0	1.9	0	0	0	26	0	0	0	-- [c]
Dec-20	0	0	0	0	0	0	6.9	0	0	0	-- [c]

TABLE 3
SUMMARY OF HISTORICAL BTEX CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total BTEX Concentrations (µg/L) [a]										
	Monitoring Well/Piezometer										
	MW-10S	MW-10D	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	PZ-4A
Mar-21	0	0	1.3	0	0	0	4	0	0	0	-- [c]
Jun-21	0.22	0	1.6	0	0	0	5.3	0	0	0	-- [c]
Sep-21	0	0	0	0	0	0	3.9	0	0	0	-- [c]
Dec-21	0	0	1.9	0	0	0	0	0	0	0	-- [c]
Jun-22	0	NS[d]	1.8	NS[d]	0	0	3.7	0	0	NS[d]	-- [c]
Dec-22	0	NS[d]	2.1	NS[d]	0	0	0.96	0	0	NS[d]	-- [c]
Jun-23	0	NS[d]	1.4	NS[d]	0	0	2.7	0	0	NS[d]	-- [c]
Minimum	0	0	0	0	0	0	0	0	0	0	0
Maximum	0.22	0	4.0	0	0	0	37	0	0.73	0	0
Mean	0.02	0	1.7	0	0	0	11	0	0.1	0	0

Notes:
BTEX - Benzene, toluene, ethylbenzene and isomers of xylene
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring well or piezometer not installed at time of sampling.
(a) - To calculate total BTEX concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (BC, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design Report (100% Submittal)" (BC, May 2019) and "CP-43: Groundwater Monitoring Well Decommissioning Policy" (NYSDEC, November 2009).
(d) - As approved by NYSDEC in an e-mail dated April 13, 2022, sampling of monitoring well is no longer required.

TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total PAH Concentrations (µg/L) [a]													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-08	0	0	0	0.76	0.6	4.3	1774	214	NS	NS	NS	NS	NS	NS
Jul-08	NS	0.7	0	0	8	0	1799	154	0	0.47	0	0	12	0
Mar-09	0	0	0	0	0	0	2730	0	0	0	0	0	0	0
Sep-09	0	0	0	0	0	0	3373	1	0	0	0	0	0	0
Mar-10	0	0	0	0	0	39	2390	17	0	0	22	0	2	0
Sep-10	0	0	0	128	0	6	NS	14	0	0	11	0	396	0
Jan-11	22	0	0	17	0	12	NS	NS	0	0	6	0	42	5
Apr-11	0	0	0	6	0	20	NS	NS	0	0	0	0	9	0
Aug-11	0	0	0.1	14	0.1	0	NS	NS	0	0	0.4	0	16	1.2
Nov-11	0	0	0.2	10	0.4	0	NS	NS	0	0	0.8	0.2	8	3.4
Feb-12	0.2	0	0	6	0.6	4	NS	NS	0.1	0	0.6	0	5	2.9
May-12	0.4	0.1	0.6	5	0	5.8	NS	NS	0.1	0.3	1	0	6	2.8
Nov-12	0.1	-- [b]	-- [b]	5.6	0.4	11.7	NS	NS	2.5	2.6	0.8	1.2	NS	NS
Jun-13	0.8	-- [b]	-- [b]	NS	0.3	3.7	NS	NS	1.3	0.4	0.4	0.6	2	NS
Dec-13	0	-- [b]	-- [b]	NS	0	2.5	NS	NS	0.8	0.4	0.3	0	NS	NS
Jun-14	0	-- [b]	-- [b]	2.2	0.9	0	NS	NS	0.8	0.3	0.2	0	NS	NS
Dec-14	0.1	-- [b]	-- [b]	1.2	0.4	0	NS	NS	3	0	0.1	0	21	0.3
Jun-15	0	-- [b]	-- [b]	1.1	0.9	0	NS	NS	0.9	0	0.3	0	10	0.3
Dec-15	0	-- [b]	-- [b]	0	0	0	NS	NS	0.9	0	0	0	3.9	0
Jun-16	0	-- [b]	-- [b]	1.9	0.8	0	NS	NS	2.5	0	0	0	5.9	0
Dec-16	0	-- [b]	-- [b]	0.02	0	0.1	NS	NS	0	0	0	0	5.5	0.07
Jun-17	0	-- [b]	-- [b]	2.0	0.5	0	NS	NS	1	0	0	0	3.2	0
Dec-17	0	-- [b]	-- [b]	0.53	0	0.031	NS	NS	0	0.11	0	0.017	6.0	0.14
Jun-18	0	-- [b]	-- [b]	3.1	1.1	0.010	NS	53	0.02	0.01	0.08	0.09	7.4	0.55
Dec-18	0.31	-- [b]	-- [b]	1.5	1.2	0.080	NS	NS	0.08	0.05	0.10	0.13	7.9	1.0
Mar-20	0	-- [b]	-- [b]	20	17	0.21	-- [c]	-- [c]	0.32	0	0.09	0	-- [c]	-- [c]
Jun-20	0	-- [b]	-- [b]	179	37	0	-- [c]	-- [c]	0.14	0	0.11	0	-- [c]	-- [c]
Sep-20	0	-- [b]	-- [b]	336	41	0	-- [c]	-- [c]	0	0	0.21	0	-- [c]	-- [c]
Dec-20	0	-- [b]	-- [b]	333	33	0	-- [c]	-- [c]	0	0	0.14	0	-- [c]	-- [c]

TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total PAH Concentrations (µg/L) [a]													
	Monitoring Well													
	MW-1	MW-2S	MW-2D	MW-3	MW-4S	MW-4D	MW-5	MW-6	MW-7S	MW-7D	MW-8S	MW-8D	MW-9S	MW-9D
Mar-21	0	-- [b]	-- [b]	172	24	0	-- [c]	-- [c]	0.26	0	0.11	0.043	-- [c]	-- [c]
Jun-21	0	-- [b]	-- [b]	177	68	0	-- [c]	-- [c]	0.18	0	0.20	0	-- [c]	-- [c]
Sep-21	0.1	-- [b]	-- [b]	223	16	0	-- [c]	-- [c]	0.07	0	0.18	0.111	-- [c]	-- [c]
Dec-21	0.011	-- [b]	-- [b]	234	40	0.011	-- [c]	-- [c]	0.140	0.039	0.512	0.219	-- [c]	-- [c]
Jun-22	0.011	-- [b]	-- [b]	177	49	NS[d]	-- [c]	-- [c]	1.3	NS[d]	0.61	NS[d]	-- [c]	-- [c]
Dec-22	0	-- [b]	-- [b]	148	39	NS[d]	-- [c]	-- [c]	0.15	NS[d]	0.36	NS[d]	-- [c]	-- [c]
Jun-23	0.104	-- [b]	-- [b]	143	4	NS[d]	-- [c]	-- [c]	0.23	NS[d]	0.23	NS[d]	-- [c]	-- [c]
Min	0	0	0	0	0	0	1774	0	0	0	0	0	0	0
Max	22	0.7	0.6	336	68	39	3373	214	3.0	2.6	22	1.2	396	5
Mean	0.7	0.067	0.1	69	11	3.3	2413	65	0.48	0.15	1.3	0.082	27	0.88

Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring Well or piezometer not installed at time of sampling.
(a) - To calculate total PAH concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (Brown and Caldwell, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design Report (100% Submittal)" (BC, May 2019) and "CP-43: Groundwater Monitoring Well Decommissioning Policy" (NYSDEC, November 2009).
(d) - As approved by NYSDEC in an e-mail dated April 13, 2022, sampling of monitoring well is no longer required.

TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total PAH Concentrations (µg/L) [a]										
	Monitoring Well/Piezometer										
	MW-10S	MW-10D	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	PZ-4A
Mar-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-10	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jan-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Apr-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Aug-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-11	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Feb-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
May-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Nov-12	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Dec-13	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jun-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.3
Dec-14	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-15	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-16	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-17	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Jun-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Dec-18	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NS
Mar-20	0.3	0.3	96	1.5	14	0	188	0.1	0.5	0.04	-- [c]
Jun-20	0	0	63	0	0	0	394	0.11	1.8	0	-- [c]
Sep-20	0	0	127	0	0	0	467	0	0.12	0	-- [c]
Dec-20	0	0	6.8	0	0.17	0	182	0	1.7	0	-- [c]

TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Sampling Date	Total PAH Concentrations (µg/L) [a]										
	Monitoring Well/Piezometer										
	MW-10S	MW-10D	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	PZ-4A
Mar-21	0	0	78	0	0.012	0	187	0.037	1.0	0	-- [c]
Jun-21	0.016	0.036	79	0.15	0	0	284	0.042	0.055	0.047	-- [c]
Sep-21	0.122	0.052	2	0	0	0	140	0.046	0.277	0	-- [c]
Dec-21	0.127	0	63	0.033	0.010	0.011	37	0.046	0.244	0.297	-- [c]
Jun-22	0.010	NS[d]	87	NS[d]	0.185	0.281	68	0.024	1.29	NS[d]	-- [c]
Dec-22	0	NS[d]	108	NS[d]	0.014	0	10	0.304	0.15	NS[d]	-- [c]
Jun-23	0	NS[d]	34	NS[d]	0.42	0.072	1.9	0.071	0.77	NS[d]	-- [c]
Min	0	0	2.0	0	0	0	1.9	0	0.055	0	0.3
Max	0.3	0.3	127	1.5	14	0.281	467	0.30	1.8	0.297	0.3
Mean	0.061	0.049	68	0.21	1.3	0.0331	178	0.071	0.74	0.048	0.3

Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring well or piezometer not installed at time of sampling.
(a) - To calculate total PAH concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 as part of the Utility Corridor Construction activities. See "Construction Completion Report, Utility Corridor Work Plan Implementation" (Brown and Caldwell, December 2012).
(c) - Monitoring well/piezometer was decommissioned on 6/13/19 as part of pre-remedial construction activities in accordance with the "Remedial Design Report (100% Submittal)" (BC, May 2019) and "CP-43: Groundwater Monitoring Well Decommissioning Policy" (NYSDEC, November 2009).
(d) - As approved by NYSDEC in an e-mail dated April 13, 2022, sampling of monitoring well is no longer required.

Figures

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAUGE LOCATION
- WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (5.66) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.73) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

NORTHERN AREA

IN-SITU SOLIDIFICATION MASS (SEE NOTE 2)

NOTES:

1. BASE MAP DEVELOPED BASED ON DRAWING PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C. DATED NOVEMBER 30, 2017.
2. TOP OF ISS MASS IS POSITIONED APPROXIMATELY 4 FEET BELOW GRADE.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: June 20, 2023

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
JUNE 7, 2023

FIGURE

1

Path: C:\bcpw\d2439856 File Name: 153021 Water Table June 2023 Plot Date: June 20, 2023 1:40 PM Cadd User: Alan Santiago

Appendix A: Field Sampling Data Sheets

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-85
Sample I.D.: MW-85-20230607

Project: PATCHWORK
Personnel: MCM / RWSL

Date: 06/07/23 Time: 1026
Weather: SUNNY Air Temp.: 62

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 Elapsed Time: 30 MIN Volume Pumped: 25 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☑ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☑ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☐ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/07/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: PAtchogue
Client: BC
Personnel: MH M/RS~~WL~~ RWSL
Purge/Sample Depth: ~7'

Project Number: 153021
Date: ~~06~~/07/23
Well ID: MW-8S
Sample ID: MW-8S-20230607~~2S~~

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1026	6.31	16.38	0.469	1.99	906	-65	0.80	150	
1029	6.33	16.25	0.460	1.94	686	-82	0.80		
1032	6.45	16.05	0.447	1.37	371	-84	0.80		
1035	6.47	16.04	0.439	1.22	209	-87	0.80		
1038	6.48	16.03	0.436	1.10	148	-90	0.80		
1041	6.37	16.00	0.433	1.01	65.6	-83	0.80		
1044	6.46	16.05	0.431	0.98	42.9	-85	0.80		
1047	6.54	16.07	0.430	0.84	24.0	-88	0.80		
1050	6.55	16.04	0.430	0.81	21.6	-90	0.80		
1053	6.55	16.07	0.430	0.81	16.1	-88	0.80		
1056	6.55	16.12	0.430	0.82	15.6	-90	0.80		
1059		Collect MW-8S-20230607							

Certified Sample Information:
Time of Sample: 1059
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-452
Serial No. Unit:
Calibration Date/Time: 06/07/23 1008
Serial No. Handheld: MH/M ~~2EB~~ 7EP043M3

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12S
Sample I.D.: MW-12S - 20230607

Project: PALchique
Personnel: MMM / RVSL

Date: 06/07/23 Time: 1114
Weather: sunny Air Temp.: 62

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☑ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☐ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☐ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☐ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☐ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☑ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☑ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/07/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: PATChogue
Client: BC
Personnel: MLM / RWSL
Purge/Sample Depth: 7-12

Project Number: 153021
Date: 06/07/23
Well ID: MW-12S
Sample ID: MW-12S-20230607

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1114	6.73	18.09	0.415	2.01	133	2	1.51	250	
1117	6.80	17.58	0.428	0.96	198	14	1.51		
1120	6.86	17.43	0.431	0.72	129	9	1.51		
1123	6.90	17.32	0.442	0.58	64.9	-2	1.51		
1126	6.90	17.26	0.447	0.54	41.4	-11	1.51		
1129	6.92	17.27	0.452	0.55	29.2	-26	1.51		
1132	6.84	17.28	0.467	0.57	16.1	-30	1.51		
1135	6.86	17.27	0.471	0.57	12.1	-35	1.51		
1138	6.88	17.26	0.475	0.58	7.8	-39	1.51		
1141	6.88	17.25	0.476	0.58	6.2	-42	1.51		
1144	6.88	17.25	0.477	0.58	5.8	-46	1.51		
1147		collect	MW-12S-20230607						

Certified Sample Information:
Time of Sample: 1147
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba - U52
Serial No. Unit: 30M484WD
Calibration Date/Time: 06/07/23 1008
Serial No. Handheld: 7EP043M3

Are low-flow parameters subject to field lab certification? ☐ **Yes** ☐ **No (not required for CERCLA sites or sites outside of NJ)**

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-12D
Sample I.D.: MW-12D-20230607

Project: Allcoque
Personnel: MLim IRuSL

Date: 06/01/23 Time: 1250
Weather: cloudy Air Temp.: 75

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☐ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 mL/min Elapsed Time: 30 min Volume Pumped: 2.0 gal
Was well Evacuated? ☐ Yes ☐ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☐ Stainless Steel
Tubing/Rope: ☐ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☑ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☐ No ☑ Yes Name: Dup-20230607
MS/MSD : ☑ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/07/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: PAtchogue
Client: BC
Personnel: MM / RSWSL
Purge/Sample Depth: ~21

Project Number: 153021
Date: 06/07/23
Well ID: MW-12D-20230607 D
Sample ID: MW-12D

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1250	7.19	19.19	0.396	3.78	26.8	98	1.30	200	
1253	5.68	17.28	0.426	1.82	29.9	130	1.30		
1256	5.50	16.76	0.430	0.77	17.4	118	1.30		
1259	5.39	16.62	0.429	0.65	12.2	124	1.30		
1302	5.29	16.50	0.429	0.61	3.4	143	1.30		
1305	5.24	16.44	0.428	0.52	1.0	159	1.30		
1308	5.24	16.41	0.427	0.48	0.4	165	1.30		
1311	5.20	16.39	0.424	0.39	0.0	177	1.30		
1314	5.19	16.32	0.425	0.37	0.0	184	1.30		
1317	5.34	16.35	0.421	0.37	0.0	184	1.30		
1320	5.27	16.37	0.420	0.37	0.0	184	1.30		
1323	Collect MW-12D-20230607 1 DUP								

Certified Sample Information:
Time of Sample: 1323
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba - U52
Serial No. Unit: 50M484WD
Serial No. Handheld: 7EP043M3
Calibration Date/Time: 06/07/23 1308

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11S
Sample I.D.: MW-11S-20230607

Project: PDischge
Personnel: MM/RW

Date: 06/07/23 Time: 1352
Weather: Cloudy Air Temp.: 62°

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☐ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☐ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 ml/m Elapsed Time: 60 min Volume Pumped: 5.0 gal
Was well Evacuated? ☐ Yes ☐ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☐ Stainless Steel
Tubing/Rope: ☐ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/07/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name:	PATCHOGUE	Project Number:	153021
Client:	BC	Date:	06/07/23
Personnel:	BC MHM / RWSL	Well ID:	MW-11S
Purge/Sample Depth:	~11'	Sample ID:	MW-11S-20230607

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1352	6.90	20.04	0.626	8.74	516	-79	0.80	250	
1355	6.89	19.62	0.636	8.70	629	-84	0.80		
1358	6.88	19.12	0.646	8.65	714	-89	0.80		
1401	6.92	19.61	0.645	8.35	562	-94	.80		
1404	6.95	18.89	0.645	8.02	1141	-99	.80		
1407	6.97	18.69	0.644	7.86	390	-103	.80		
1410	6.99	18.64	0.644	7.76	374	-103	.80		
1413	6.99	18.56	0.643	7.43	322	-105	.80		
1416	6.84	18.54	0.644	1.89	317	-95	.80		
1419	6.95	18.55	0.644	1.96	264	-105	.80		
1422	6.98	18.47	0.644	1.94	238	-107	.80		
1425	6.99	18.37	0.644	1.69	216	-101	.80		
1428	6.99	18.24	0.644	1.72	192	-109	.80		
1431	7.02	18.16	0.645	1.78	167	-110	.80		
1434	7.00	18.14	0.644	1.61	142	-110	.80		
1437	7.03	18.14	0.642	1.80	131	-112	.80		
1440	7.02	18.12	0.639	1.76	112	-113	.80		
1443	7.02	18.09	0.636	1.70	98.2	-114	.80		
1446	7.01	18.06	0.632	1.63	89.2	-115	.80		
1449	7.01	18.06	0.625	1.73	78.1	-116	.80		
1452	7.01	18.02	0.624	1.69	80.5	-117	.80		
1455		collect	MW-11S-20230607						

Certified Sample Information:

Time of Sample: 1455 Analyst Signature:

Instrument Data:

Manufacturer/Model: Horiba - U52

Serial No. Unit: J0M4B4ND Serial No. Handheld: 7EP043M3

Calibration Date/Time: 06/07/23 1608

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-3
Sample I.D.: MW-3-20130607

Project: Ashland
Personnel: MH/MI RB/SC

Date: 06/07/13 Time: 1506
Weather: Cloudy Air Temp.: 62

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☐ Yes ☑ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☐ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☐ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 225 mL/min Elapsed Time: 30 min Volume Pumped: 2.25 gc
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☐ Stainless Steel
Tubing/Rope: ☐ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/07/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: PALchoque
Client: BC
Personnel: MFM | RWSL
Purge/Sample Depth: ~8'

Project Number: 153021
Date: 06/07/23
Well ID: MW-3
Sample ID: MW-3-20230607

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1506	9.11	16.52	0.663	1.69	5.9	-190	1.63	225	
1509	10.02	15.88	0.652	0.53	1.5	-233	1.65		
1512	10.30	15.72	0.647	0.44	2.0	-248	1.67		
1515	10.52	15.65	0.645	0.29	4.9	-258	1.69		
1518	10.70	15.55	0.639	0.24	5.6	-272	1.71		
1521	10.73	15.50	0.637	0.26	5.9	-274	1.72		
1524	10.92	15.53	0.633	0.19	4.4	-286	1.71		
1527	10.91	15.48	0.633	0.20	4.2	-286	1.70		
1530	11.07	15.42	0.639	0.17	2.8	-296	1.70		
1533	11.09	15.43	0.642	0.18	2.3	-293	1.70		
1536	11.27	15.43	0.645	0.18	2.0	-301	1.70		
1539			Collect MW-3-20230607						

06/07/23

Certified Sample Information:
Time of Sample: 1539
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: 5GM484WD
Serial No. Handheld: 7EP0437M3
Calibration Date/Time: 06/01/23 1008

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-135
Sample I.D.: MW-135-20230608

Project: PATchogue
Personnel: MH/MJ/RWSL

Date: 06/08/23 Time: 0807
Weather: cloudy Air Temp: 59

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☑ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☑ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☑ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☑ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☑ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☑ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 mL/min Elapsed Time: 30 min Volume Pumped: 2.5 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☑ Stainless Steel
Tubing/Rope: ☑ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: _____
APPEARANCE: ☑ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☑ No ☐ Yes Name: _____
MS/MSD : ☑ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/08/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: PAtchogue
Client: BL
Personnel: MHM / RWSL
Purge/Sample Depth: ~11'

Project Number: 153021
Date: 06/08/23
Well ID: MW-135
Sample ID: MW-135-20230608

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0807	9.06	15.41	0.653	10.43	99.1	-272	1.43	250	
0810	9.06	15.59	0.629	6.01	35.1	-331	1.43		
0813	9.16	15.69	0.619	6.51	24.5	-342	1.43		
0816	9.21	15.75	0.611	6.39	19.6	-347	1.44		
0819	9.23	15.79	0.604	5.91	16.9	-358	1.44		
0822	9.25	15.83	0.592			-370	1.45		
0825	9.20	15.90	0.589	5.74	9.8	-374	1.45		
0828	9.36	15.91	0.586	5.70	10.6	-380	1.45		
0831	9.43	15.92	0.584	5.69	10.8	-385	1.45		
0834	9.45	15.97	0.580	5.64	9.3	-393	1.46		
0837	9.41	15.96	0.579	5.64	10.4	-393	1.46		
0840		Collect	MW-135-20230608						

Certified Sample Information:
Time of Sample: 0840
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: 10M484LD
Serial No. Handheld: 7EP043M3
Calibration Date/Time: 06/08/23 0805

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13D
Sample I.D.: MW-13D-20230606 (if different from well no.)

Project: Patchogue NY
Personnel: MHMRWSL

Date: 06/08/23 Time: 0843
Weather: Smokey Air Temp.: 70

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☒ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☒ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☒ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 mL/min Elapsed Time: 39 min Volume Pumped: 3.2 gal
Was well Evacuated? ☐ Yes ☐ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel
Tubing/Rope: ☒ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☐ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/08/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue NG
Client: BC
Personnel: RWSL, MKM
Purge/Sample Depth: ~20'

Project Number: 153021
Date: 06/08/2023
Well ID: MW-13D
Sample ID: MW-13D-20230608

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0843	8.61	15.98	0.327	2.80	901	-83	1.35	250	
0848	8.16	15.73	0.336	1.72	751	-25	1.35	↓	
0851	7.51	15.63	0.339	0.83	607	-14	1.36		
0854	7.21	15.54	0.343	0.53	405	64	1.36		
0857	6.91	15.54	0.344	0.44	304	79	1.37		
0900	6.60	15.53	0.345	0.43	241	84	1.37		
0903	6.38	15.52	0.344	0.40	171	95	1.37		
0906	6.24	15.50	0.343	0.34	125	96	1.38		
0909	6.25	15.53	0.344	0.34	91.8	99	1.38		
0912	6.16	15.52	0.344	0.33	73.5	103	1.38		
0915	6.15	15.54	0.344	0.28	58.1	105	1.38		
0918	6.10	15.55	0.345	0.29	45.4	108	1.39		
0921	6.07	15.52	0.344	0.27	39.3	109	1.39		
0924	6.06	15.54	0.345	0.26	36.2	110	1.39		
0927		collect	MW-13D-20230608						

Certified Sample Information:
Time of Sample: 0927
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: J0M484WD
Serial No. Handheld: 7EP043M3
Calibration Date/Time: 06/08/23 0805

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-1
Sample I.D.: MW-1-20230608 (If different from well no.)

Project: NG Patterson
Personnel: MHM, RWSL

Date: 06/08/23 Time: 0935
Weather: Sunny Smokey Air Temp.: 65

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☒ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☒ Yes ☐ No ☐ NA Is Inner Casing Intact? ☒ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump)/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
(Tubing)/Rope: ☒ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 250 Elapsed Time: 30 min Volume Pumped: _____
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump)/Bailer: ☐ Teflon® ☒ Stainless Steel
(Tubing)/Rope: ☒ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☐ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/08/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: NG Patchogue
Client: BC
Personnel: MHM / RWSL
Purge/Sample Depth: ~13'

Project Number: 153021
Date: 06/08/2023
Well ID: MW-1
Sample ID: MW-1-20230608

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1002	6.69	15.69	2.49	1.15	69.3	-74	5.97	250	
1005	6.78	15.44	2.68	0.69	99.5	-80	5.97		
1008	6.84	15.37	2.75	0.61	105	-85	5.97		
1011	6.89	15.35	2.78	0.52	81.5	-89	5.97		
1014	6.87	15.29	2.80	0.40	55.7	-89	5.98		
1017	6.89	15.34	2.79	0.38	49.0	-91	5.98		
1020	6.91	15.31	2.75	0.37	35.0	-94	5.98		
1023	6.92	15.30	2.70	0.36	24.5	-95	5.98		
1026	6.93	15.31	2.68	0.36	20.2	-96	5.99		
1029	6.94	15.32	2.65	0.36	14.5	-97	5.99		
1032	6.93	15.30	2.62	0.31	11.1	-97	5.99	↓	
1035		Collect MW-1-20230608							

06/08

Certified Sample Information:
Time of Sample: 1035
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: IOM4B4WD
Serial No. Handheld: 7EP043M3
Calibration Date/Time: 06/08/23 0805

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-45
Sample I.D.: MW-45-20230608 (if different from well no.)

Project: Patchogue
Personnel: RWSC, MHM

Date: 06/08/23 Time: 1100
Weather: Sunny Smoky Air Temp.: 65

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☒ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☒ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☒ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 300 mL/min Elapsed Time: 30 min Volume Pumped: _____
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☒ Teflon® ☒ Stainless Steel
Tubing/Rope: ☒ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/08/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Ratchogue
Client: BC
Personnel: RWSL, MHM
Purge/Sample Depth: ~10

Project Number: 153021
Date: 06/08/23
Well ID: MW-45
Sample ID: MW-45-20230608

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1101	7.31	15.26	0.542	3.20	571	-67	4.97	360	
1104	7.40	14.87	0.536	2.01	850	-131	4.97		
1107	7.33	14.26	0.501	1.11	609	-100	4.97		
1110	7.29	14.10	0.493	0.93	342	-109	4.98		
1113	7.26	14.00	0.493	0.93	227	-117	4.98		
1116	7.30	13.95	0.492	0.89	140	-126	4.98		
1119	7.33	13.88	0.491	0.87	88.1	-131	4.98		
1122	7.33	13.90	0.491	0.96	59.2	-133	4.99		
1125	7.41	13.87	0.492	0.90	44.7	-141	4.99		
1128	7.40	13.85	0.492	0.94	37.7	-143	5.00		
1131	7.46	13.82	0.493	0.94	36.3	-146	5.00		
1134			Collect	MW-45-20230608					

06/08/23

Certified Sample Information:
Time of Sample: 1134
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: FOM484WD
Calibration Date/Time: 06/08/23 0805
Serial No. Handheld: 7EP0431M3

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7S
Sample I.D.: MW-7S-20230608 (if different from well no.)

Project: NG Patchogue
Personnel: RVSL, MHM

Date: 06/08/23 Time: 1220
Weather: Sunny Smokey Air Temp.: 65

WELL DATA:

Casing Diameter: 4" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☒ Yes ☐ No Is well clean to bottom? ☒ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☒ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☐ Stainless Steel ☐ PVC ☐ Other: _____
(Tubing/Rope): ☐ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 300 Elapsed Time: 30 min Volume Pumped: _____
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☐ Stainless Steel
(Tubing/Rope): ☐ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☐ No ☒ Yes Name: MW-7S-20230608 (MS/MSD)

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/08/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: MHM / RWSL
Purge/Sample Depth: ~10'

Project Number: 153021
Date: 06/08/2023
Well ID: MW-75
Sample ID: MW-75-20230608

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1220	7.25	15.88	0.638	2.07	102	-119	4.47	300	
1223	7.25	15.29	0.655	2.00	82.9	-132	4.48		
1226	7.30	14.98	0.671	1.68	93.1	-140	4.49		
1229	7.39	14.82	0.678	1.66	97.7	-144	4.50		
1232	7.40	14.78	0.683	1.66	97.5	-147	4.51		
1235	7.42	14.74	0.687	1.68	65.4	-152	4.51		
1238	7.40	14.73	0.688	1.70	55.1	-151	4.52		
1241	7.44	14.69	0.690	1.73	42.3	-154	4.52		
1244	7.43	14.67	0.690	1.75	31.9	-156	4.52		
1247	7.49	14.66	0.690	1.75	32.0	-156	4.52		
1250	7.48	14.67	0.690	1.80	29.2	-159	4.53		
1253		collect MW-75-20230608							

06/08

Certified Sample Information:
Time of Sample: 1253
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U52
Serial No. Unit: 10M4B4W9
Serial No. Handheld: TEP043M3
Calibration Date/Time: 06/08/2023 0805

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-105
Sample I.D.: MW-105-20230608 (if different from well no.)

Project: Patchogue
Personnel: MNM, RWSL

Date: 06/08/23 Time: 1309
Weather: Sunny Air Temp.: 70

WELL DATA:

Casing Diameter: 6 ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 1 ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☒ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☒ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel ☐ PVC ☐ Other: _____
Tubing/Rope: ☒ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: 200 ml/min Elapsed Time: 75 min Volume Pumped: 5.0 gal
Was well Evacuated? ☐ Yes ☐ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: Pump/Bailer: ☐ Teflon® ☐ Stainless Steel
Tubing/Rope: ☐ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☒ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/08/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: NG Patchogue
Client: BC
Personnel: RWSL, MHM
Purge/Sample Depth: ~13'

Project Number: 153021
Date: 06/08/2023
Well ID: MW-105
Sample ID: MW-105-20230608

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1310	7.43	16.28	0.542	3.29	307	-93	1.04	200	
1313	7.37	15.28	0.563	1.53	638	-96	1.04		
1316	7.34	15.01	0.580	1.32	708	-101	1.04		
1319	7.31	14.65	0.591	1.14	765	-109	1.05		
1322	7.30	14.64	0.593	1.16	713	-110	1.05		
1325	7.31	14.59	0.601	1.14	666	-114	1.06		
1328	7.32	14.58	0.600	1.26	675	-115	1.07		
1331	7.32	14.60	0.601	1.24	633	-113	1.07		
1334	7.31	14.58	0.598	1.23	627	-117	1.08		
1337	7.31	14.53	0.596	1.21	603	-118	1.08		
1340	7.32	14.45	0.592	1.14	547	-119	1.08		
1343	7.32	14.44	0.588	1.23	532	-120	1.09		
1346	7.32	14.08	0.579	1.21	532	-120	1.09		
1349	7.34	14.08	0.571	1.24	481	-121	1.09		
1352	7.33	13.98	0.560	1.24	369	-122	1.09		
1355	7.33	13.94	0.554	1.24	308	-121	1.09		
1358	7.35	13.92	0.541	1.23	182	-121	1.09		
1401	7.34	13.90	0.537	1.19	133	-121	1.10		
1404	7.34	13.90	0.534	1.24	108	-122	1.10		
1407	7.35	13.95	0.533	1.23	78.6	-122	1.10		
1410	7.36	13.93	0.532	1.19	61.7	-121	1.10		
1413	7.39	13.98	0.528	1.20	45.0	-122	1.10		
1416	7.36	13.97	0.530	1.16	34.4	-121	1.10		
1419	7.36	14.00	0.530	1.15	24.0	-122	1.10		
1422	7.37	14.00	0.532	1.17	20.9	-122	1.10		
1425	7.36	14.00	0.532	1.17	16.9	-124	1.10		
1428		collect MW-105-20230608							

Certified Sample Information:
Time of Sample: 1420
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: JOM4B4WJ9
Serial No. Handheld: 7EP043M3
Calibration Date/Time: 06/08/2023 0805

Are low-flow parameters subject to field lab certification? ☐ Yes ☒ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-145
Sample I.D.: MW-145-20230608 (if different from well no.)

Project: Patchogue
Personnel: RWSL / M&M

Date: 06/08/23 Time: 1435
Weather: Sunny Air Temp.: 70

WELL DATA:

Casing Diameter: 6" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: _____ ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☐ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☑ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☑ Yes ☐ No
Does Weep Hole adequately drain well head? ☐ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☑ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☑ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

METHOD: ☐ Bailer, Size: ____ ☑ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Centrifugal Pump ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☑ Stainless Steel ☐ PVC ☐ Other: _____
(Tubing/Rope): ☒ Teflon® ☐ Polyethylene ☐ Polypropylene ☐ Other: _____

Pumping Rate: _____ Elapsed Time: _____ Volume Pumped: _____
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned

SAMPLING DATA:

METHOD: ☐ Bailer, Size: ____ ☒ Bladder Pump ☐ 2" Submersible Pump ☐ 4" Submersible Pump
☐ Syringe Sampler ☐ Peristaltic Pump ☐ Inertial Lift Pump ☐ Other: _____

MATERIALS: (Pump/Bailer): ☐ Teflon® ☒ Stainless Steel
(Tubing/Rope): ☒ Teflon® ☐ Polyethylene

SAMPLING EQUIPMENT: ☒ Dedicated ☐ Prepared Off-Site ☐ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☒ Clear ☐ Turbid ☐ Color: _____ ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP : ☒ No ☐ Yes Name: _____
MS/MSD : ☐ No ☐ Yes Name: _____

I certify that this sample was collected and handled in accordance with applicable regulatory and project protocols.

Signature: _____ Date: 06/08/23

Brown AND Caldwell

2 Park Way, Upper Saddle River, NJ 07458
Phone: (201) 574-4700 Fax: (201) 236-1607

NJ FIELD LAB ID# 02023
LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Paducah
Client: BC
Personnel: EWSL, MHM
Purge/Sample Depth: ~10'

Project Number: 153021
Date: 06/08/23
Well ID: MW-145
Sample ID: MW-145-20230608

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1438	7.47	18.03	0.472	2.32	51.5	-56	0.96		
1441	7.38	17.69	0.474	0.93	149	-46	0.96		
1444	7.34	17.67	0.477	0.80	147	-47	0.96		
1447	7.36	17.70	0.476	0.53	114	-46	0.96		
1450	7.32	17.67	0.477	0.50	114	-50	0.96		
1453	7.31	17.61	0.478	0.51	96.7	-48	0.96		
1456	7.33	17.58	0.479	0.56	81.8	-46	0.97		
1459	7.30	17.57	0.479	0.51	64.7	-46	0.97		
1502	7.31	17.56	0.480	0.60	44.4	-40	0.97		
1505	7.32	17.55	0.480	0.59	40.2	-37	0.97		
1508	7.32	17.55	0.481	0.57	35.6	-34	0.97		
1511		collect MW-145-20230608							

Certified Sample Information:
Time of Sample: 1511

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: JOM4B4419
Serial No. Handheld: 7EP043M3
Calibration Date/Time: 06/08/23 0805

Are low-flow parameters subject to field lab certification? ☐ Yes ☑ No (not required for CERCLA sites or sites outside of NJ)

If yes, low-flow data must be accompanied by a completed "Field Calibration Record, Horiba U-52" form or equivalent.

Appendix B: Laboratory Data Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: James Marolda
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey NJ 07446

Generated 6/20/2023 12:51 PM

JOB DESCRIPTION

Patchogue, NY

JOB NUMBER

410-130132-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

my EOL

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Barb Weyandt

Generated
6/20/2023 12:51 PM

Authorized for release by
Barbara Weyandt, Project Manager
Barbara.Weyandt@et.eurofinsus.com
Designee for
Barbara A Weyandt, Project Manager
Barbara.Weyandt@et.eurofinsus.com
717 556-7264

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Table of Contents

Cover Page 1
Data Summaries 6
Report Narrative 6
Sample Summary 7
Detection Summary 8
Method Summary 11
Client Sample Results 12
Surrogate Summary 24
QC Sample Results 26
Definitions 31
QC Association 32
Chronicle 34
Certification Summary 37
Organic Sample Data 39
GC/MS VOA 39
Method 8260D 39
Method 8260D QC Summary 40
Method 8260D Sample Data 51
Standards Data 128
Method 8260D ICAL Data 128
Method 8260D CCAL Data 383
Raw QC Data 404
Method 8260D Tune Data 404
Method 8260D Blank Data 413
Method 8260D LCS/LCSD Data 420
Method 8260D MS/MSD Data 426
Method 8260D Run Logs 438
Method 8260D Prep Data 440
GC/MS Semi VOA 447
Method 8270E SIM 447
Method 8270E SIM QC Summary 448
Method 8270E SIM Sample Data 472
Standards Data 726
Method 8270E SIM ICAL Data 726
Method 8270E SIM Resolution Data 879
Method 8270E SIM CCAL Data 889
Raw QC Data 951
Method 8270E SIM Tune Data 951
Method 8270E SIM Blank Data 1005
Method 8270E SIM LCS/LCSD Data 1016
Method 8270E SIM MS/MSD Data 1036

Table of Contents

Method 8270E SIM Run Logs 1052
Method 8270E SIM Prep Data 1058
Shipping and Receiving Documents 1065
Client Chain of Custody 1066
Sample Receipt Checklist 1068

Job Narrative
410-130132-1

Receipt
The samples were received on 6/9/2023 8:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-14S-20230608 (410-130132-13). The container labels list the collection time of 15:11, while the COC lists 15:20. Entered per COC.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-130132-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-130132-1	MW-8S-20230607	Water	06/07/23 10:59	06/09/23 20:30
410-130132-2	MW-12S-20230607	Water	06/07/23 11:47	06/09/23 20:30
410-130132-3	MW-12D-20230607	Water	06/07/23 13:23	06/09/23 20:30
410-130132-4	MW-11S-20230607	Water	06/07/23 14:55	06/09/23 20:30
410-130132-5	MW-3-20230607	Water	06/07/23 15:39	06/09/23 20:30
410-130132-6	DUP-20230607	Water	06/07/23 00:00	06/09/23 20:30
410-130132-7	MW-13S-20230608	Water	06/08/23 08:40	06/09/23 20:30
410-130132-8	MW-13D-20230608	Water	06/08/23 09:27	06/09/23 20:30
410-130132-9	MW-1-20230608	Water	06/08/23 10:35	06/09/23 20:30
410-130132-10	MW-4S-20230608	Water	06/08/23 11:34	06/09/23 20:30
410-130132-11	MW-7S-20230608	Water	06/08/23 12:53	06/09/23 20:30
410-130132-12	MW-10S-20230608	Water	06/08/23 14:28	06/09/23 20:30
410-130132-13	MW-14S-20230608	Water	06/08/23 15:20	06/09/23 20:30
410-130132-14	FB-20230608	Water	06/08/23 12:40	06/09/23 20:30
410-130132-15	TB-20230608	Water	06/08/23 00:00	06/09/23 20:30

Detection Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-130132-1

Client Sample ID: MW-8S-20230607 — Lab Sample ID: 410-130132-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.19		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[b]fluoranthene	0.013	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Fluoranthene	0.014	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Pyrene	0.014	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-12S-20230607 — Lab Sample ID: 410-130132-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.029	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Anthracene	0.010	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[a]anthracene	0.037	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[a]pyrene	0.039	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[b]fluoranthene	0.038	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[g,h,i]perylene	0.023	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[k]fluoranthene	0.014	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Chrysene	0.035	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Fluoranthene	0.031	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.026	J	0.051	0.020	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.050	J	0.072	0.031	ug/L	1		8270E SIM	Total/NA
Phenanthrene	0.036	J	0.072	0.031	ug/L	1		8270E SIM	Total/NA
Pyrene	0.044	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-12D-20230607 — Lab Sample ID: 410-130132-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.072		0.071	0.030	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-11S-20230607 — Lab Sample ID: 410-130132-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.71	J	1.0	0.30	ug/L	1		8260D	Total/NA
Xylenes, Total	0.65	J	1.0	0.40	ug/L	1		8260D	Total/NA
Acenaphthylene	0.63		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Anthracene	0.21		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[a]anthracene	0.60		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[a]pyrene	0.30		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[b]fluoranthene	0.52		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[g,h,i]perylene	0.26		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[k]fluoranthene	0.14		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Chrysene	0.60		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.042	J	0.052	0.021	ug/L	1		8270E SIM	Total/NA
Fluoranthene	3.4		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Fluorene	0.17		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.24		0.052	0.021	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.10		0.073	0.031	ug/L	1		8270E SIM	Total/NA
Phenanthrene	0.72		0.073	0.031	ug/L	1		8270E SIM	Total/NA
Pyrene	5.0		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Acenaphthene - DL	21		0.26	0.052	ug/L	5		8270E SIM	Total/NA

Client Sample ID: MW-3-20230607 — Lab Sample ID: 410-130132-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	1.0	0.30	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-3-20230607 (Continued) — Lab Sample ID: 410-130132-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.2		1.0	0.40	ug/L	1		8260D	Total/NA
Toluene	0.50	J	1.0	0.30	ug/L	1		8260D	Total/NA
Xylenes, Total	1.1		1.0	0.40	ug/L	1		8260D	Total/NA
Acenaphthylene	3.9		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Anthracene	1.8		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[a]anthracene	0.42		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[a]pyrene	0.012	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Chrysene	0.21		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Fluoranthene	8.3		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Fluorene	8.4		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Pyrene	9.2		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Acenaphthene - DL	30		0.26	0.051	ug/L	5		8270E SIM	Total/NA
Phenanthrene - DL	16		0.36	0.15	ug/L	5		8270E SIM	Total/NA
Naphthalene - DL2	65		1.8	0.77	ug/L	25		8270E SIM	Total/NA

Client Sample ID: DUP-20230607 — Lab Sample ID: 410-130132-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.067	J	0.071	0.030	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-13S-20230608 — Lab Sample ID: 410-130132-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		1.0	0.30	ug/L	1		8260D	Total/NA
Ethylbenzene	0.41	J	1.0	0.40	ug/L	1		8260D	Total/NA
Toluene	0.37	J	1.0	0.30	ug/L	1		8260D	Total/NA
Xylenes, Total	0.76	J	1.0	0.40	ug/L	1		8260D	Total/NA
Acenaphthene	0.025	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Acenaphthylene	0.064		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Anthracene	0.028	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Benzo[a]anthracene	0.022	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Chrysene	0.047	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Fluoranthene	0.014	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.062	J	0.072	0.031	ug/L	1		8270E SIM	Total/NA
Pyrene	1.6		0.051	0.010	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-13D-20230608 — Lab Sample ID: 410-130132-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.013	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.045	J	0.072	0.031	ug/L	1		8270E SIM	Total/NA
Pyrene	0.013	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-1-20230608 — Lab Sample ID: 410-130132-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.013	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.091		0.072	0.031	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-4S-20230608 — Lab Sample ID: 410-130132-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.051	J	0.054	0.011	ug/L	1		8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-4S-20230608 (Continued) — Lab Sample ID: 410-130132-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.084		0.054	0.011	ug/L	1		8270E SIM	Total/NA
Fluoranthene	1.2		0.054	0.011	ug/L	1		8270E SIM	Total/NA
Fluorene	1.4		0.054	0.011	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.051	J	0.076	0.032	ug/L	1		8270E SIM	Total/NA
Pyrene	0.95		0.054	0.011	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-7S-20230608 — Lab Sample ID: 410-130132-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.11		0.052	0.010	ug/L	1		8270E SIM	Total/NA
Anthracene	0.021	J	0.052	0.010	ug/L	1		8270E SIM	Total/NA
Fluorene	0.036	J	0.052	0.010	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.12		0.073	0.031	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-10S-20230608 — Lab Sample ID: 410-130132-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.078		0.070	0.030	ug/L	1		8270E SIM	Total/NA
Pyrene	0.014	J	0.050	0.010	ug/L	1		8270E SIM	Total/NA

Client Sample ID: MW-14S-20230608 — Lab Sample ID: 410-130132-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.28		0.051	0.010	ug/L	1		8270E SIM	Total/NA
Acenaphthylene	0.011	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Fluorene	0.044	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA
Naphthalene	0.42		0.071	0.030	ug/L	1		8270E SIM	Total/NA
Pyrene	0.013	J	0.051	0.010	ug/L	1		8270E SIM	Total/NA

Client Sample ID: FB-20230608 — Lab Sample ID: 410-130132-14

No Detections.

Client Sample ID: TB-20230608 — Lab Sample ID: 410-130132-15

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-130132-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: MW-8S-20230607

Lab Sample ID: 410-130132-1

Date Collected: 06/07/23 10:59

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 12:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 12:55	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 12:55	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*06/16/23 12:55*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/16/23 12:55*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/16/23 12:55*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/16/23 12:55*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.19**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Acenaphthylene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Anthracene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Benzo[b]fluoranthene	**0.013**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Chrysene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Dibenz(a,h)anthracene	ND		0.051	0.021	ug/L		06/14/23 08:02	06/15/23 13:52	1
Fluoranthene	**0.014**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Fluorene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.021	ug/L		06/14/23 08:02	06/15/23 13:52	1
Naphthalene	ND		0.072	0.031	ug/L		06/14/23 08:02	06/15/23 13:52	1
Phenanthrene	ND		0.072	0.031	ug/L		06/14/23 08:02	06/15/23 13:52	1
Pyrene	**0.014**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*82*		*17 - 120*	*06/14/23 08:02*	*06/15/23 13:52*	*1*
1-Methylnaphthalene-d10 (Surr)	*82*		*33 - 120*	*06/14/23 08:02*	*06/15/23 13:52*	*1*
Fluoranthene-d10 (Surr)	*90*		*43 - 124*	*06/14/23 08:02*	*06/15/23 13:52*	*1*

Client Sample ID: MW-12S-20230607

Lab Sample ID: 410-130132-2

Date Collected: 06/07/23 11:47

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 13:15	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 13:15	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 13:15	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*06/16/23 13:15*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*06/16/23 13:15*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/16/23 13:15*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/16/23 13:15*	*1*

Client Sample ID: MW-12S-20230607

Lab Sample ID: 410-130132-2

Date Collected: 06/07/23 11:47

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.029**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Acenaphthylene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Anthracene	**0.010**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Benzo[a]anthracene	**0.037**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Benzo[a]pyrene	**0.039**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Benzo[b]fluoranthene	**0.038**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Benzo[g,h,i]perylene	**0.023**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Benzo[k]fluoranthene	**0.014**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Chrysene	**0.035**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/14/23 08:02	06/15/23 14:13	1
Fluoranthene	**0.031**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Fluorene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1
Indeno[1,2,3-cd]pyrene	**0.026**	**J**	0.051	0.020	ug/L		06/14/23 08:02	06/15/23 14:13	1
Naphthalene	**0.050**	**J**	0.072	0.031	ug/L		06/14/23 08:02	06/15/23 14:13	1
Phenanthrene	**0.036**	**J**	0.072	0.031	ug/L		06/14/23 08:02	06/15/23 14:13	1
Pyrene	**0.044**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*45*		*17 - 120*	*06/14/23 08:02*	*06/15/23 14:13*	*1*
1-Methylnaphthalene-d10 (Surr)	*72*		*33 - 120*	*06/14/23 08:02*	*06/15/23 14:13*	*1*
Fluoranthene-d10 (Surr)	*79*		*43 - 124*	*06/14/23 08:02*	*06/15/23 14:13*	*1*

Client Sample ID: MW-12D-20230607

Lab Sample ID: 410-130132-3

Date Collected: 06/07/23 13:23

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 13:34	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 13:34	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 13:34	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*06/16/23 13:34*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/16/23 13:34*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*06/16/23 13:34*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/16/23 13:34*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Anthracene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Chrysene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/14/23 08:02	06/15/23 14:34	1

Client Sample ID: MW-12D-20230607

Lab Sample ID: 410-130132-3

Date Collected: 06/07/23 13:23

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Fluorene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/14/23 08:02	06/15/23 14:34	1
Naphthalene	**0.072**		0.071	0.030	ug/L		06/14/23 08:02	06/15/23 14:34	1
Phenanthrene	ND		0.071	0.030	ug/L		06/14/23 08:02	06/15/23 14:34	1
Pyrene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*44*		*17 - 120*	*06/14/23 08:02*	*06/15/23 14:34*	*1*
1-Methylnaphthalene-d10 (Surr)	*75*		*33 - 120*	*06/14/23 08:02*	*06/15/23 14:34*	*1*
Fluoranthene-d10 (Surr)	*78*		*43 - 124*	*06/14/23 08:02*	*06/15/23 14:34*	*1*

Client Sample ID: MW-11S-20230607

Lab Sample ID: 410-130132-4

Date Collected: 06/07/23 14:55

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.71**	**J**	1.0	0.30	ug/L			06/16/23 13:54	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 13:54	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 13:54	1
Xylenes, Total	**0.65**	**J**	1.0	0.40	ug/L			06/16/23 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/16/23 13:54*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/16/23 13:54*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*06/16/23 13:54*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/16/23 13:54*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.63**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Anthracene	**0.21**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Benzo[a]anthracene	**0.60**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Benzo[a]pyrene	**0.30**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Benzo[b]fluoranthene	**0.52**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Benzo[g,h,i]perylene	**0.26**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Benzo[k]fluoranthene	**0.14**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Chrysene	**0.60**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Dibenz(a,h)anthracene	**0.042**	**J**	0.052	0.021	ug/L		06/14/23 08:02	06/15/23 14:56	1
Fluoranthene	**3.4**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Fluorene	**0.17**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1
Indeno[1,2,3-cd]pyrene	**0.24**		0.052	0.021	ug/L		06/14/23 08:02	06/15/23 14:56	1
Naphthalene	**0.10**		0.073	0.031	ug/L		06/14/23 08:02	06/15/23 14:56	1
Phenanthrene	**0.72**		0.073	0.031	ug/L		06/14/23 08:02	06/15/23 14:56	1
Pyrene	**5.0**		0.052	0.010	ug/L		06/14/23 08:02	06/15/23 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*82*		*17 - 120*	*06/14/23 08:02*	*06/15/23 14:56*	*1*
1-Methylnaphthalene-d10 (Surr)	*81*		*33 - 120*	*06/14/23 08:02*	*06/15/23 14:56*	*1*
Fluoranthene-d10 (Surr)	*73*		*43 - 124*	*06/14/23 08:02*	*06/15/23 14:56*	*1*

Client Sample ID: MW-11S-20230607

Lab Sample ID: 410-130132-4

Date Collected: 06/07/23 14:55

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**21**		0.26	0.052	ug/L		06/14/23 08:02	06/16/23 11:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*84*		*17 - 120*	*06/14/23 08:02*	*06/16/23 11:07*	*5*
1-Methylnaphthalene-d10 (Surr)	*82*		*33 - 120*	*06/14/23 08:02*	*06/16/23 11:07*	*5*
Fluoranthene-d10 (Surr)	*88*		*43 - 124*	*06/14/23 08:02*	*06/16/23 11:07*	*5*

Client Sample ID: MW-3-20230607

Lab Sample ID: 410-130132-5

Date Collected: 06/07/23 15:39

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.45**	**J**	1.0	0.30	ug/L			06/16/23 14:14	1
Ethylbenzene	**1.2**		1.0	0.40	ug/L			06/16/23 14:14	1
Toluene	**0.50**	**J**	1.0	0.30	ug/L			06/16/23 14:14	1
Xylenes, Total	**1.1**		1.0	0.40	ug/L			06/16/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*06/16/23 14:14*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/16/23 14:14*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/16/23 14:14*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*06/16/23 14:14*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**3.9**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Anthracene	**1.8**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Benzo[a]anthracene	**0.42**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Benzo[a]pyrene	**0.012**	**J**	0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Chrysene	**0.21**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/14/23 08:02	06/15/23 15:17	1
Fluoranthene	**8.3**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Fluorene	**8.4**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		06/14/23 08:02	06/15/23 15:17	1
Pyrene	**9.2**		0.051	0.010	ug/L		06/14/23 08:02	06/15/23 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*91*		*17 - 120*	*06/14/23 08:02*	*06/15/23 15:17*	*1*
1-Methylnaphthalene-d10 (Surr)	*74*		*33 - 120*	*06/14/23 08:02*	*06/15/23 15:17*	*1*
Fluoranthene-d10 (Surr)	*76*		*43 - 124*	*06/14/23 08:02*	*06/15/23 15:17*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**30**		0.26	0.051	ug/L		06/14/23 08:02	06/16/23 11:28	5
Phenanthrene	**16**		0.36	0.15	ug/L		06/14/23 08:02	06/16/23 11:28	5

Client Sample ID: MW-3-20230607

Lab Sample ID: 410-130132-5

Date Collected: 06/07/23 15:39

Matrix: Water

Date Received: 06/09/23 20:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*82*		*17 - 120*	*06/14/23 08:02*	*06/16/23 11:28*	*5*
1-Methylnaphthalene-d10 (Surr)	*75*		*33 - 120*	*06/14/23 08:02*	*06/16/23 11:28*	*5*
Fluoranthene-d10 (Surr)	*88*		*43 - 124*	*06/14/23 08:02*	*06/16/23 11:28*	*5*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**65**		1.8	0.77	ug/L		06/14/23 08:02	06/19/23 16:30	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*85*		*17 - 120*	*06/14/23 08:02*	*06/19/23 16:30*	*25*
1-Methylnaphthalene-d10 (Surr)	*91*		*33 - 120*	*06/14/23 08:02*	*06/19/23 16:30*	*25*
Fluoranthene-d10 (Surr)	*108*		*43 - 124*	*06/14/23 08:02*	*06/19/23 16:30*	*25*

Client Sample ID: DUP-20230607

Lab Sample ID: 410-130132-6

Date Collected: 06/07/23 00:00

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 14:34	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 14:34	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 14:34	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*06/16/23 14:34*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*06/16/23 14:34*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/16/23 14:34*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/16/23 14:34*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Anthracene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Chrysene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/14/23 08:02	06/15/23 15:39	1
Fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Fluorene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/14/23 08:02	06/15/23 15:39	1
Naphthalene	**0.067**	**J**	0.071	0.030	ug/L		06/14/23 08:02	06/15/23 15:39	1
Phenanthrene	ND		0.071	0.030	ug/L		06/14/23 08:02	06/15/23 15:39	1
Pyrene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*43*		*17 - 120*	*06/14/23 08:02*	*06/15/23 15:39*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*33 - 120*	*06/14/23 08:02*	*06/15/23 15:39*	*1*

Client Sample ID: DUP-20230607

Lab Sample ID: 410-130132-6

Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10 (Surr)	*83*		*43 - 124*	*06/14/23 08:02*	*06/15/23 15:39*	*1*

Client Sample ID: MW-13S-20230608

Lab Sample ID: 410-130132-7

Date Collected: 06/08/23 08:40
Matrix: Water
Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.2**		1.0	0.30	ug/L			06/16/23 14:53	1
Ethylbenzene	**0.41**	**J**	1.0	0.40	ug/L			06/16/23 14:53	1
Toluene	**0.37**	**J**	1.0	0.30	ug/L			06/16/23 14:53	1
Xylenes, Total	**0.76**	**J**	1.0	0.40	ug/L			06/16/23 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*06/16/23 14:53*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/16/23 14:53*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/16/23 14:53*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/16/23 14:53*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.025**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Acenaphthylene	**0.064**		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Anthracene	**0.028**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Benzo[a]anthracene	**0.022**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Chrysene	**0.047**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 12:54	1
Fluoranthene	**0.014**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Fluorene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 12:54	1
Naphthalene	**0.062**	**J**	0.072	0.031	ug/L		06/15/23 08:12	06/16/23 12:54	1
Phenanthrene	ND		0.072	0.031	ug/L		06/15/23 08:12	06/16/23 12:54	1
Pyrene	**1.6**		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*51*		*17 - 120*	*06/15/23 08:12*	*06/16/23 12:54*	*1*
1-Methylnaphthalene-d10 (Surr)	*68*		*33 - 120*	*06/15/23 08:12*	*06/16/23 12:54*	*1*
Fluoranthene-d10 (Surr)	*73*		*43 - 124*	*06/15/23 08:12*	*06/16/23 12:54*	*1*

Client Sample ID: MW-13D-20230608

Lab Sample ID: 410-130132-8

Date Collected: 06/08/23 09:27
Matrix: Water
Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 15:13	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 15:13	1

Client Sample ID: MW-13D-20230608

Lab Sample ID: 410-130132-8

Date Collected: 06/08/23 09:27

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			06/16/23 15:13	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/16/23 15:13*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/16/23 15:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*06/16/23 15:13*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/16/23 15:13*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Acenaphthylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Chrysene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 13:15	1
Fluoranthene	**0.013**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Fluorene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 13:15	1
Naphthalene	**0.045**	**J**	0.072	0.031	ug/L		06/15/23 08:12	06/16/23 13:15	1
Phenanthrene	ND		0.072	0.031	ug/L		06/15/23 08:12	06/16/23 13:15	1
Pyrene	**0.013**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*44*		*17 - 120*	*06/15/23 08:12*	*06/16/23 13:15*	*1*
1-Methylnaphthalene-d10 (Surr)	*54*		*33 - 120*	*06/15/23 08:12*	*06/16/23 13:15*	*1*
Fluoranthene-d10 (Surr)	*56*		*43 - 124*	*06/15/23 08:12*	*06/16/23 13:15*	*1*

Client Sample ID: MW-1-20230608

Lab Sample ID: 410-130132-9

Date Collected: 06/08/23 10:35

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 15:32	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 15:32	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 15:32	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*06/16/23 15:32*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/16/23 15:32*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/16/23 15:32*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/16/23 15:32*	*1*

Client Sample ID: MW-1-20230608

Lab Sample ID: 410-130132-9

Date Collected: 06/08/23 10:35

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Acenaphthylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Chrysene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 13:37	1
Fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Fluorene	**0.013**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 13:37	1
Naphthalene	**0.091**		0.072	0.031	ug/L		06/15/23 08:12	06/16/23 13:37	1
Phenanthrene	ND		0.072	0.031	ug/L		06/15/23 08:12	06/16/23 13:37	1
Pyrene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*68*		*17 - 120*	*06/15/23 08:12*	*06/16/23 13:37*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*33 - 120*	*06/15/23 08:12*	*06/16/23 13:37*	*1*
Fluoranthene-d10 (Surr)	*82*		*43 - 124*	*06/15/23 08:12*	*06/16/23 13:37*	*1*

Client Sample ID: MW-4S-20230608

Lab Sample ID: 410-130132-10

Date Collected: 06/08/23 11:34

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 15:52	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 15:52	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 15:52	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/16/23 15:52*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/16/23 15:52*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/16/23 15:52*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/16/23 15:52*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Acenaphthylene	**0.051**	**J**	0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Anthracene	**0.084**		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Benzo[a]anthracene	ND		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Benzo[a]pyrene	ND		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Benzo[b]fluoranthene	ND		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Benzo[g,h,i]perylene	ND		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Benzo[k]fluoranthene	ND		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Chrysene	ND		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Dibenz(a,h)anthracene	ND		0.054	0.022	ug/L		06/15/23 08:12	06/16/23 13:58	1

Client Sample ID: MW-4S-20230608

Lab Sample ID: 410-130132-10

Date Collected: 06/08/23 11:34

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**1.2**		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Fluorene	**1.4**		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1
Indeno[1,2,3-cd]pyrene	ND		0.054	0.022	ug/L		06/15/23 08:12	06/16/23 13:58	1
Naphthalene	**0.051**	**J**	0.076	0.032	ug/L		06/15/23 08:12	06/16/23 13:58	1
Phenanthrene	ND		0.076	0.032	ug/L		06/15/23 08:12	06/16/23 13:58	1
Pyrene	**0.95**		0.054	0.011	ug/L		06/15/23 08:12	06/16/23 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*17 - 120*	*06/15/23 08:12*	*06/16/23 13:58*	*1*
1-Methylnaphthalene-d10 (Surr)	*78*		*33 - 120*	*06/15/23 08:12*	*06/16/23 13:58*	*1*
Fluoranthene-d10 (Surr)	*85*		*43 - 124*	*06/15/23 08:12*	*06/16/23 13:58*	*1*

Client Sample ID: MW-7S-20230608

Lab Sample ID: 410-130132-11

Date Collected: 06/08/23 12:53

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 11:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 11:55	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 11:55	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*06/16/23 11:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*06/16/23 11:55*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/16/23 11:55*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/16/23 11:55*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.11**		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Acenaphthylene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Anthracene	**0.021**	**J**	0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Chrysene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		06/15/23 08:12	06/16/23 11:50	1
Fluoranthene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Fluorene	**0.036**	**J**	0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		06/15/23 08:12	06/16/23 11:50	1
Naphthalene	**0.12**		0.073	0.031	ug/L		06/15/23 08:12	06/16/23 11:50	1
Phenanthrene	ND		0.073	0.031	ug/L		06/15/23 08:12	06/16/23 11:50	1
Pyrene	ND		0.052	0.010	ug/L		06/15/23 08:12	06/16/23 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*63*		*17 - 120*	*06/15/23 08:12*	*06/16/23 11:50*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*33 - 120*	*06/15/23 08:12*	*06/16/23 11:50*	*1*

Client Sample ID: MW-7S-20230608

Lab Sample ID: 410-130132-11

Date Collected: 06/08/23 12:53

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10 (Surr)	*80*		*43 - 124*	*06/15/23 08:12*	*06/16/23 11:50*	*1*

Client Sample ID: MW-10S-20230608

Lab Sample ID: 410-130132-12

Date Collected: 06/08/23 14:28

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 16:12	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 16:12	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 16:12	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*06/16/23 16:12*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*06/16/23 16:12*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*06/16/23 16:12*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*06/16/23 16:12*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Anthracene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Chrysene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/15/23 08:12	06/16/23 14:20	1
Fluoranthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Fluorene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/15/23 08:12	06/16/23 14:20	1
Naphthalene	**0.078**		0.070	0.030	ug/L		06/15/23 08:12	06/16/23 14:20	1
Phenanthrene	ND		0.070	0.030	ug/L		06/15/23 08:12	06/16/23 14:20	1
Pyrene	**0.014**	**J**	0.050	0.010	ug/L		06/15/23 08:12	06/16/23 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*78*		*17 - 120*	*06/15/23 08:12*	*06/16/23 14:20*	*1*
1-Methylnaphthalene-d10 (Surr)	*80*		*33 - 120*	*06/15/23 08:12*	*06/16/23 14:20*	*1*
Fluoranthene-d10 (Surr)	*85*		*43 - 124*	*06/15/23 08:12*	*06/16/23 14:20*	*1*

Client Sample ID: MW-14S-20230608

Lab Sample ID: 410-130132-13

Date Collected: 06/08/23 15:20

Matrix: Water

Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 16:32	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 16:32	1

Client Sample ID: MW-14S-20230608

Lab Sample ID: 410-130132-13

Date Collected: 06/08/23 15:20
Matrix: Water
Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.30	ug/L			06/16/23 16:32	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*06/16/23 16:32*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/16/23 16:32*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/16/23 16:32*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*06/16/23 16:32*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.28**		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Acenaphthylene	**0.011**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Chrysene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 14:41	1
Fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Fluorene	**0.044**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 14:41	1
Naphthalene	**0.42**		0.071	0.030	ug/L		06/15/23 08:12	06/16/23 14:41	1
Phenanthrene	ND		0.071	0.030	ug/L		06/15/23 08:12	06/16/23 14:41	1
Pyrene	**0.013**	**J**	0.051	0.010	ug/L		06/15/23 08:12	06/16/23 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*63*		*17 - 120*	*06/15/23 08:12*	*06/16/23 14:41*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*33 - 120*	*06/15/23 08:12*	*06/16/23 14:41*	*1*
Fluoranthene-d10 (Surr)	*84*		*43 - 124*	*06/15/23 08:12*	*06/16/23 14:41*	*1*

Client Sample ID: FB-20230608

Lab Sample ID: 410-130132-14

Date Collected: 06/08/23 12:40
Matrix: Water
Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 16:51	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 16:51	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 16:51	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*06/16/23 16:51*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/16/23 16:51*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*06/16/23 16:51*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/16/23 16:51*	*1*

Client Sample ID: FB-20230608
Lab Sample ID: 410-130132-14

Date Collected: 06/08/23 12:40
Matrix: Water
Date Received: 06/09/23 20:30

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Acenaphthylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Chrysene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 15:03	1
Fluoranthene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Fluorene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		06/15/23 08:12	06/16/23 15:03	1
Naphthalene	ND		0.072	0.031	ug/L		06/15/23 08:12	06/16/23 15:03	1
Phenanthrene	ND		0.072	0.031	ug/L		06/15/23 08:12	06/16/23 15:03	1
Pyrene	ND		0.051	0.010	ug/L		06/15/23 08:12	06/16/23 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*79*		*17 - 120*	*06/15/23 08:12*	*06/16/23 15:03*	*1*
1-Methylnaphthalene-d10 (Surr)	*69*		*33 - 120*	*06/15/23 08:12*	*06/16/23 15:03*	*1*
Fluoranthene-d10 (Surr)	*79*		*43 - 124*	*06/15/23 08:12*	*06/16/23 15:03*	*1*

Client Sample ID: TB-20230608
Lab Sample ID: 410-130132-15

Date Collected: 06/08/23 00:00
Matrix: Water
Date Received: 06/09/23 20:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 11:35	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 11:35	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 11:35	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*06/16/23 11:35*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/16/23 11:35*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*06/16/23 11:35*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/16/23 11:35*	*1*

Surrogate Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-130132-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-130132-1	MW-8S-20230607	102	92	103	105
410-130132-2	MW-12S-20230607	106	95	102	103
410-130132-3	MW-12D-20230607	106	93	108	104
410-130132-4	MW-11S-20230607	104	93	99	105
410-130132-5	MW-3-20230607	109	93	103	102
410-130132-6	DUP-20230607	109	89	103	105
410-130132-7	MW-13S-20230608	101	91	101	105
410-130132-8	MW-13D-20230608	104	91	100	105
410-130132-9	MW-1-20230608	110	91	103	104
410-130132-10	MW-4S-20230608	104	91	102	104
410-130132-11	MW-7S-20230608	110	95	103	103
410-130132-11 MS	MW-7S-20230608	107	95	101	105
410-130132-11 MSD	MW-7S-20230608	103	94	101	106
410-130132-12	MW-10S-20230608	103	95	101	107
410-130132-13	MW-14S-20230608	105	92	102	104
410-130132-14	FB-20230608	104	92	103	106
410-130132-15	TB-20230608	107	94	102	101
LCS 410-387447/4	Lab Control Sample	101	97	99	104
MB 410-387447/6	Method Blank	111	93	106	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	MNPd10	FLN10
Lab Sample ID	Client Sample ID	(17-120)	(33-120)	(43-124)
410-130132-1	MW-8S-20230607	82	82	90
410-130132-2	MW-12S-20230607	45	72	79
410-130132-3	MW-12D-20230607	44	75	78
410-130132-4	MW-11S-20230607	82	81	73
410-130132-4 - DL	MW-11S-20230607	84	82	88
410-130132-5	MW-3-20230607	91	74	76
410-130132-5 - DL	MW-3-20230607	82	75	88
410-130132-5 - DL2	MW-3-20230607	85	91	108
410-130132-6	DUP-20230607	43	77	83
410-130132-7	MW-13S-20230608	51	68	73
410-130132-8	MW-13D-20230608	44	54	56
410-130132-9	MW-1-20230608	68	76	82
410-130132-10	MW-4S-20230608	76	78	85
410-130132-11	MW-7S-20230608	63	77	80
410-130132-11 MS	MW-7S-20230608	62	76	78
410-130132-11 MSD	MW-7S-20230608	63	65	68
410-130132-12	MW-10S-20230608	78	80	85
410-130132-13	MW-14S-20230608	63	76	84

Surrogate Summary

Client: Brown and Caldwell
Job ID: 410-130132-1
Project/Site: Patchogue, NY

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12	MNPd10	FLN10
Lab Sample ID	Client Sample ID	(17-120)	(33-120)	(43-124)
410-130132-14	FB-20230608	79	69	79
LCS 410-386349/2-A	Lab Control Sample	85	78	81
LCS 410-386902/2-A	Lab Control Sample	84	77	82
LCSD 410-386349/3-A	Lab Control Sample Dup	94	82	91
MB 410-386349/1-A	Method Blank	81	76	81
MB 410-386902/1-A	Method Blank	83	72	85

Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)
MNPd10 = 1-Methylnaphthalene-d10 (Surr)
FLN10 = Fluoranthene-d10 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-387447/6
Matrix: Water
Analysis Batch: 387447

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.30	ug/L			06/16/23 10:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			06/16/23 10:36	1
Toluene	ND		1.0	0.30	ug/L			06/16/23 10:36	1
Xylenes, Total	ND		1.0	0.40	ug/L			06/16/23 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*06/16/23 10:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/16/23 10:36*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*06/16/23 10:36*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*06/16/23 10:36*	*1*

Lab Sample ID: LCS 410-387447/4
Matrix: Water
Analysis Batch: 387447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			20.0	18.9		ug/L		95	80 - 120		
Ethylbenzene			20.0	17.8		ug/L		89	80 - 120		
Toluene			20.0	19.1		ug/L		95	80 - 120		
Xylenes, Total			60.0	53.8		ug/L		90	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 410-130132-11 MS
Matrix: Water
Analysis Batch: 387447

Client Sample ID: MW-7S-20230608
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		20.0	20.4		ug/L		102	80 - 120		
Ethylbenzene	ND		20.0	19.2		ug/L		96	80 - 120		
Toluene	ND		20.0	19.8		ug/L		99	80 - 120		
Xylenes, Total	ND		60.0	57.8		ug/L		96	80 - 120		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-130132-11 MSD
Matrix: Water
Analysis Batch: 387447

Client Sample ID: MW-7S-20230608
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		20.0	20.2		ug/L		101	80 - 120	1	30
Ethylbenzene	ND		20.0	19.7		ug/L		98	80 - 120	2	30
Toluene	ND		20.0	19.9		ug/L		100	80 - 120	0	30
Xylenes, Total	ND		60.0	58.6		ug/L		98	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 410-386349/1-A
Matrix: Water
Analysis Batch: 386832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386349

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Anthracene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Chrysene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/14/23 08:02	06/15/23 06:21	1
Fluoranthene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Fluorene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/14/23 08:02	06/15/23 06:21	1
Naphthalene	ND		0.070	0.030	ug/L		06/14/23 08:02	06/15/23 06:21	1
Phenanthrene	ND		0.070	0.030	ug/L		06/14/23 08:02	06/15/23 06:21	1
Pyrene	ND		0.050	0.010	ug/L		06/14/23 08:02	06/15/23 06:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*81*		*17 - 120*	*06/14/23 08:02*	*06/15/23 06:21*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*33 - 120*	*06/14/23 08:02*	*06/15/23 06:21*	*1*
Fluoranthene-d10 (Surr)	*81*		*43 - 124*	*06/14/23 08:02*	*06/15/23 06:21*	*1*

Lab Sample ID: LCS 410-386349/2-A
Matrix: Water
Analysis Batch: 386832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.00	0.756		ug/L		76	42 - 120
Acenaphthylene	1.00	0.825		ug/L		82	41 - 120
Anthracene	1.00	0.857		ug/L		86	48 - 124

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 410-386349/2-A
Matrix: Water
Analysis Batch: 386832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]anthracene	1.00	0.840		ug/L		84	50 - 129
Benzo[a]pyrene	1.00	0.873		ug/L		87	49 - 120
Benzo[b]fluoranthene	1.00	0.888		ug/L		89	47 - 131
Benzo[g,h,i]perylene	1.00	0.821		ug/L		82	40 - 132
Benzo[k]fluoranthene	1.00	0.883		ug/L		88	50 - 128
Chrysene	1.00	0.768		ug/L		77	47 - 121
Dibenz(a,h)anthracene	1.00	0.791		ug/L		79	38 - 136
Fluoranthene	1.00	0.832		ug/L		83	47 - 129
Fluorene	1.00	0.783		ug/L		78	46 - 120
Indeno[1,2,3-cd]pyrene	1.00	0.849		ug/L		85	35 - 144
Naphthalene	1.00	0.792		ug/L		79	28 - 120
Phenanthrene	1.00	0.795		ug/L		79	48 - 121
Pyrene	1.00	0.742		ug/L		74	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*85*		*17 - 120*
1-Methylnaphthalene-d10 (Surr)	*78*		*33 - 120*
Fluoranthene-d10 (Surr)	*81*		*43 - 124*

Lab Sample ID: LCSD 410-386349/3-A
Matrix: Water
Analysis Batch: 386832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 386349

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	1.00	0.811		ug/L		81	42 - 120	7	30
Acenaphthylene	1.00	0.896		ug/L		90	41 - 120	8	30
Anthracene	1.00	0.972		ug/L		97	48 - 124	13	30
Benzo[a]anthracene	1.00	0.944		ug/L		94	50 - 129	12	30
Benzo[a]pyrene	1.00	0.981		ug/L		98	49 - 120	12	30
Benzo[b]fluoranthene	1.00	0.995		ug/L		99	47 - 131	11	30
Benzo[g,h,i]perylene	1.00	0.877		ug/L		88	40 - 132	7	30
Benzo[k]fluoranthene	1.00	0.976		ug/L		98	50 - 128	10	30
Chrysene	1.00	0.844		ug/L		84	47 - 121	9	30
Dibenz(a,h)anthracene	1.00	0.864		ug/L		86	38 - 136	9	30
Fluoranthene	1.00	0.949		ug/L		95	47 - 129	13	30
Fluorene	1.00	0.869		ug/L		87	46 - 120	10	30
Indeno[1,2,3-cd]pyrene	1.00	0.881		ug/L		88	35 - 144	4	30
Naphthalene	1.00	0.870		ug/L		87	28 - 120	9	30
Phenanthrene	1.00	0.898		ug/L		90	48 - 121	12	30
Pyrene	1.00	0.819		ug/L		82	46 - 122	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*94*		*17 - 120*
1-Methylnaphthalene-d10 (Surr)	*82*		*33 - 120*
Fluoranthene-d10 (Surr)	*91*		*43 - 124*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 410-386902/1-A
Matrix: Water
Analysis Batch: 387377

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 386902

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Acenaphthylene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Anthracene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Chrysene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		06/15/23 08:12	06/16/23 05:45	1
Fluoranthene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Fluorene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		06/15/23 08:12	06/16/23 05:45	1
Naphthalene	ND		0.070	0.030	ug/L		06/15/23 08:12	06/16/23 05:45	1
Phenanthrene	ND		0.070	0.030	ug/L		06/15/23 08:12	06/16/23 05:45	1
Pyrene	ND		0.050	0.010	ug/L		06/15/23 08:12	06/16/23 05:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*83*		*17 - 120*	*06/15/23 08:12*	*06/16/23 05:45*	*1*
1-Methylnaphthalene-d10 (Surr)	*72*		*33 - 120*	*06/15/23 08:12*	*06/16/23 05:45*	*1*
Fluoranthene-d10 (Surr)	*85*		*43 - 124*	*06/15/23 08:12*	*06/16/23 05:45*	*1*

Lab Sample ID: LCS 410-386902/2-A
Matrix: Water
Analysis Batch: 387377

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386902

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.00	0.818		ug/L		82	42 - 120
Acenaphthylene	1.00	0.873		ug/L		87	41 - 120
Anthracene	1.00	0.901		ug/L		90	48 - 124
Benzo[a]anthracene	1.00	0.865		ug/L		86	50 - 129
Benzo[a]pyrene	1.00	0.914		ug/L		91	49 - 120
Benzo[b]fluoranthene	1.00	0.895		ug/L		89	47 - 131
Benzo[g,h,i]perylene	1.00	0.799		ug/L		80	40 - 132
Benzo[k]fluoranthene	1.00	0.912		ug/L		91	50 - 128
Chrysene	1.00	0.805		ug/L		80	47 - 121
Dibenz(a,h)anthracene	1.00	0.836		ug/L		84	38 - 136
Fluoranthene	1.00	0.877		ug/L		88	47 - 129
Fluorene	1.00	0.866		ug/L		87	46 - 120
Indeno[1,2,3-cd]pyrene	1.00	0.849		ug/L		85	35 - 144
Naphthalene	1.00	0.862		ug/L		86	28 - 120
Phenanthrene	1.00	0.840		ug/L		84	48 - 121
Pyrene	1.00	0.810		ug/L		81	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*84*		*17 - 120*
1-Methylnaphthalene-d10 (Surr)	*77*		*33 - 120*
Fluoranthene-d10 (Surr)	*82*		*43 - 124*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: 410-130132-11 MS
Matrix: Water
Analysis Batch: 387377

Client Sample ID: MW-7S-20230608
Prep Type: Total/NA
Prep Batch: 386902

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.11		1.04	0.902		ug/L		76	42 - 120
Acenaphthylene	ND		1.04	0.914		ug/L		88	41 - 120
Anthracene	0.021	J	1.04	0.963		ug/L		90	48 - 124
Benzo[a]anthracene	ND		1.04	0.843		ug/L		81	50 - 129
Benzo[a]pyrene	ND		1.04	0.691		ug/L		66	49 - 120
Benzo[b]fluoranthene	ND		1.04	0.733		ug/L		70	47 - 131
Benzo[g,h,i]perylene	ND		1.04	0.541		ug/L		52	40 - 132
Benzo[k]fluoranthene	ND		1.04	0.742		ug/L		71	50 - 128
Chrysene	ND		1.04	0.691		ug/L		66	47 - 121
Dibenz(a,h)anthracene	ND		1.04	0.624		ug/L		60	38 - 136
Fluoranthene	ND		1.04	0.893		ug/L		86	47 - 129
Fluorene	0.036	J	1.04	0.838		ug/L		77	46 - 120
Indeno[1,2,3-cd]pyrene	ND		1.04	0.603		ug/L		58	35 - 144
Naphthalene	0.12		1.04	0.962		ug/L		81	28 - 120
Phenanthrene	ND		1.04	0.837		ug/L		80	48 - 121
Pyrene	ND		1.04	0.828		ug/L		79	46 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*62*		*17 - 120*
1-Methylnaphthalene-d10 (Surr)	*76*		*33 - 120*
Fluoranthene-d10 (Surr)	*78*		*43 - 124*

Lab Sample ID: 410-130132-11 MSD
Matrix: Water
Analysis Batch: 387377

Client Sample ID: MW-7S-20230608
Prep Type: Total/NA
Prep Batch: 386902

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.11		1.04	0.771		ug/L		63	42 - 120	16	30
Acenaphthylene	ND		1.04	0.760		ug/L		73	41 - 120	18	30
Anthracene	0.021	J	1.04	0.832		ug/L		78	48 - 124	15	30
Benzo[a]anthracene	ND		1.04	0.770		ug/L		74	50 - 129	9	30
Benzo[a]pyrene	ND		1.04	0.710		ug/L		68	49 - 120	3	30
Benzo[b]fluoranthene	ND		1.04	0.781		ug/L		75	47 - 131	6	30
Benzo[g,h,i]perylene	ND		1.04	0.578		ug/L		56	40 - 132	7	30
Benzo[k]fluoranthene	ND		1.04	0.785		ug/L		75	50 - 128	6	30
Chrysene	ND		1.04	0.655		ug/L		63	47 - 121	5	30
Dibenz(a,h)anthracene	ND		1.04	0.676		ug/L		65	38 - 136	8	30
Fluoranthene	ND		1.04	0.770		ug/L		74	47 - 129	15	30
Fluorene	0.036	J	1.04	0.724		ug/L		66	46 - 120	15	30
Indeno[1,2,3-cd]pyrene	ND		1.04	0.709		ug/L		68	35 - 144	16	30
Naphthalene	0.12		1.04	0.821		ug/L		67	28 - 120	16	30
Phenanthrene	ND		1.04	0.714		ug/L		69	48 - 121	16	30
Pyrene	ND		1.04	0.709		ug/L		68	46 - 122	16	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*63*		*17 - 120*
1-Methylnaphthalene-d10 (Surr)	*65*		*33 - 120*
Fluoranthene-d10 (Surr)	*68*		*43 - 124*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

GC/MS VOA

Analysis Batch: 387447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130132-1	MW-8S-20230607	Total/NA	Water	8260D	
410-130132-2	MW-12S-20230607	Total/NA	Water	8260D	
410-130132-3	MW-12D-20230607	Total/NA	Water	8260D	
410-130132-4	MW-11S-20230607	Total/NA	Water	8260D	
410-130132-5	MW-3-20230607	Total/NA	Water	8260D	
410-130132-6	DUP-20230607	Total/NA	Water	8260D	
410-130132-7	MW-13S-20230608	Total/NA	Water	8260D	
410-130132-8	MW-13D-20230608	Total/NA	Water	8260D	
410-130132-9	MW-1-20230608	Total/NA	Water	8260D	
410-130132-10	MW-4S-20230608	Total/NA	Water	8260D	
410-130132-11	MW-7S-20230608	Total/NA	Water	8260D	
410-130132-12	MW-10S-20230608	Total/NA	Water	8260D	
410-130132-13	MW-14S-20230608	Total/NA	Water	8260D	
410-130132-14	FB-20230608	Total/NA	Water	8260D	
410-130132-15	TB-20230608	Total/NA	Water	8260D	
MB 410-387447/6	Method Blank	Total/NA	Water	8260D	
LCS 410-387447/4	Lab Control Sample	Total/NA	Water	8260D	
410-130132-11 MS	MW-7S-20230608	Total/NA	Water	8260D	
410-130132-11 MSD	MW-7S-20230608	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 386349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130132-1	MW-8S-20230607	Total/NA	Water	3510C	
410-130132-2	MW-12S-20230607	Total/NA	Water	3510C	
410-130132-3	MW-12D-20230607	Total/NA	Water	3510C	
410-130132-4	MW-11S-20230607	Total/NA	Water	3510C	
410-130132-4 - DL	MW-11S-20230607	Total/NA	Water	3510C	
410-130132-5 - DL	MW-3-20230607	Total/NA	Water	3510C	
410-130132-5	MW-3-20230607	Total/NA	Water	3510C	
410-130132-5 - DL2	MW-3-20230607	Total/NA	Water	3510C	
410-130132-6	DUP-20230607	Total/NA	Water	3510C	
MB 410-386349/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-386349/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-386349/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 386832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130132-1	MW-8S-20230607	Total/NA	Water	8270E SIM	386349
410-130132-2	MW-12S-20230607	Total/NA	Water	8270E SIM	386349
410-130132-3	MW-12D-20230607	Total/NA	Water	8270E SIM	386349
410-130132-4	MW-11S-20230607	Total/NA	Water	8270E SIM	386349
410-130132-5	MW-3-20230607	Total/NA	Water	8270E SIM	386349
410-130132-6	DUP-20230607	Total/NA	Water	8270E SIM	386349
MB 410-386349/1-A	Method Blank	Total/NA	Water	8270E SIM	386349
LCS 410-386349/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	386349
LCSD 410-386349/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	386349

GC/MS Semi VOA

Prep Batch: 386902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130132-7	MW-13S-20230608	Total/NA	Water	3510C	
410-130132-8	MW-13D-20230608	Total/NA	Water	3510C	
410-130132-9	MW-1-20230608	Total/NA	Water	3510C	
410-130132-10	MW-4S-20230608	Total/NA	Water	3510C	
410-130132-11	MW-7S-20230608	Total/NA	Water	3510C	
410-130132-12	MW-10S-20230608	Total/NA	Water	3510C	
410-130132-13	MW-14S-20230608	Total/NA	Water	3510C	
410-130132-14	FB-20230608	Total/NA	Water	3510C	
MB 410-386902/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-386902/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-130132-11 MS	MW-7S-20230608	Total/NA	Water	3510C	
410-130132-11 MSD	MW-7S-20230608	Total/NA	Water	3510C	

Analysis Batch: 387377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130132-4 - DL	MW-11S-20230607	Total/NA	Water	8270E SIM	386349
410-130132-5 - DL	MW-3-20230607	Total/NA	Water	8270E SIM	386349
410-130132-7	MW-13S-20230608	Total/NA	Water	8270E SIM	386902
410-130132-8	MW-13D-20230608	Total/NA	Water	8270E SIM	386902
410-130132-9	MW-1-20230608	Total/NA	Water	8270E SIM	386902
410-130132-10	MW-4S-20230608	Total/NA	Water	8270E SIM	386902
410-130132-11	MW-7S-20230608	Total/NA	Water	8270E SIM	386902
410-130132-12	MW-10S-20230608	Total/NA	Water	8270E SIM	386902
410-130132-13	MW-14S-20230608	Total/NA	Water	8270E SIM	386902
410-130132-14	FB-20230608	Total/NA	Water	8270E SIM	386902
MB 410-386902/1-A	Method Blank	Total/NA	Water	8270E SIM	386902
LCS 410-386902/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	386902
410-130132-11 MS	MW-7S-20230608	Total/NA	Water	8270E SIM	386902
410-130132-11 MSD	MW-7S-20230608	Total/NA	Water	8270E SIM	386902

Analysis Batch: 388200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-130132-5 - DL2	MW-3-20230607	Total/NA	Water	8270E SIM	386349

Client Sample ID: MW-8S-20230607

Lab Sample ID: 410-130132-1

Date Collected: 06/07/23 10:59

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 12:55
Total/NA	Prep	3510C			386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM		1	386832	UJM0	ELLE	06/15/23 13:52

Client Sample ID: MW-12S-20230607

Lab Sample ID: 410-130132-2

Date Collected: 06/07/23 11:47

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 13:15
Total/NA	Prep	3510C			386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM		1	386832	UJM0	ELLE	06/15/23 14:13

Client Sample ID: MW-12D-20230607

Lab Sample ID: 410-130132-3

Date Collected: 06/07/23 13:23

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 13:34
Total/NA	Prep	3510C			386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM		1	386832	UJM0	ELLE	06/15/23 14:34

Client Sample ID: MW-11S-20230607

Lab Sample ID: 410-130132-4

Date Collected: 06/07/23 14:55

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 13:54
Total/NA	Prep	3510C			386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM		1	386832	UJM0	ELLE	06/15/23 14:56
Total/NA	Prep	3510C	DL		386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM	DL	5	387377	SJ89	ELLE	06/16/23 11:07

Client Sample ID: MW-3-20230607

Lab Sample ID: 410-130132-5

Date Collected: 06/07/23 15:39

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 14:14
Total/NA	Prep	3510C			386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM		1	386832	UJM0	ELLE	06/15/23 15:17
Total/NA	Prep	3510C	DL		386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM	DL	5	387377	SJ89	ELLE	06/16/23 11:28
Total/NA	Prep	3510C	DL2		386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM	DL2	25	388200	UJM0	ELLE	06/19/23 16:30

Client Sample ID: DUP-20230607
Lab Sample ID: 410-130132-6

Date Collected: 06/07/23 00:00
Matrix: Water
Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 14:34
Total/NA	Prep	3510C			386349	QKX3	ELLE	06/14/23 08:02
Total/NA	Analysis	8270E SIM		1	386832	UJM0	ELLE	06/15/23 15:39

Client Sample ID: MW-13S-20230608
Lab Sample ID: 410-130132-7

Date Collected: 06/08/23 08:40
Matrix: Water
Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 14:53
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 12:54

Client Sample ID: MW-13D-20230608
Lab Sample ID: 410-130132-8

Date Collected: 06/08/23 09:27
Matrix: Water
Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 15:13
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 13:15

Client Sample ID: MW-1-20230608
Lab Sample ID: 410-130132-9

Date Collected: 06/08/23 10:35
Matrix: Water
Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 15:32
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 13:37

Client Sample ID: MW-4S-20230608
Lab Sample ID: 410-130132-10

Date Collected: 06/08/23 11:34
Matrix: Water
Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 15:52
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 13:58

Client Sample ID: MW-7S-20230608
Lab Sample ID: 410-130132-11

Date Collected: 06/08/23 12:53
Matrix: Water
Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 11:55

Client Sample ID: MW-7S-20230608

Lab Sample ID: 410-130132-11

Date Collected: 06/08/23 12:53

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 11:50

Client Sample ID: MW-10S-20230608

Lab Sample ID: 410-130132-12

Date Collected: 06/08/23 14:28

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 16:12
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 14:20

Client Sample ID: MW-14S-20230608

Lab Sample ID: 410-130132-13

Date Collected: 06/08/23 15:20

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 16:32
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 14:41

Client Sample ID: FB-20230608

Lab Sample ID: 410-130132-14

Date Collected: 06/08/23 12:40

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 16:51
Total/NA	Prep	3510C			386902	QKX3	ELLE	06/15/23 08:12
Total/NA	Analysis	8270E SIM		1	387377	SJ89	ELLE	06/16/23 15:03

Client Sample ID: TB-20230608

Lab Sample ID: 410-130132-15

Date Collected: 06/08/23 00:00

Matrix: Water

Date Received: 06/09/23 20:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387447	ULCP	ELLE	06/16/23 11:35

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: Brown and Caldwell
Project/Site: Patchogue, NY

Job ID: 410-130132-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	<cert No.>	01-31-24
Alaska	State	PA00009	06-30-23
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-12-24
Arkansas DEQ	State	88-00660	08-09-23
California	State	2792	11-30-23
Colorado	State	PA00009	06-30-23
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-24
Delaware (DW)	State	N/A	01-31-24
Florida	NELAP	E87997	06-30-23
Georgia (DW)	State	C048	01-31-24
Hawaii	State	N/A	01-31-24
Illinois	NELAP	200027	01-31-24
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-23
Kentucky (DW)	State	KY90088	12-31-23
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23
Louisiana (All)	NELAP	02055	06-30-23
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24
Michigan	State	9930	01-31-24
Minnesota	NELAP	042-999-487	12-31-23
Mississippi	State	023	01-31-24
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-24
Nebraska	State	NE-OS-32-17	01-31-24
New Hampshire	NELAP	2730	01-10-24
New Jersey	NELAP	PA011	06-30-23
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-23
North Carolina (WW/SW)	State	521	12-31-23
North Dakota	State	R-205	01-31-24
Oklahoma	NELAP	R-205	08-31-23
Oregon	NELAP	PA200001	09-11-23
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-24
Rhode Island	State	LAO00338	12-31-23
South Carolina	State	89002	01-31-24
Tennessee	State	02838	01-31-24
Texas	NELAP	T104704194-23-46	08-31-23
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-23
Virginia	NELAP	460182	06-14-24
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	12-31-23

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	055	07-31-23
Wyoming	State	8TMS-L	01-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Method 8260D

Volatile Organic Compounds (GC/MS) by Method 8260D

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): R-624SilMS 3 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-8S-20230607	410-130132-1	103	102	105	92
MW-12S-20230607	410-130132-2	102	106	103	95
MW-12D-20230607	410-130132-3	108	106	104	93
MW-11S-20230607	410-130132-4	99	104	105	93
MW-3-20230607	410-130132-5	103	109	102	93
DUP-20230607	410-130132-6	103	109	105	89
MW-13S-20230608	410-130132-7	101	101	105	91
MW-13D-20230608	410-130132-8	100	104	105	91
MW-1-20230608	410-130132-9	103	110	104	91
MW-4S-20230608	410-130132-10	102	104	104	91
MW-7S-20230608	410-130132-11	103	110	103	95
MW-10S-20230608	410-130132-12	101	103	107	95
MW-14S-20230608	410-130132-13	102	105	104	92
FB-20230608	410-130132-14	103	104	106	92
TB-20230608	410-130132-15	102	107	101	94
	MB 410-387447/6	106	111	103	93
	LCS 410-387447/4	99	101	104	97
MW-7S-20230608 MS	410-130132-11 MS	101	107	105	95
MW-7S-20230608 MSD	410-130132-11 MSD	101	103	106	94

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WU16X03.D

Lab ID: LCS 410-387447/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	18.9	95	80-120	
Ethylbenzene	20.0	17.8	89	80-120	
Toluene	20.0	19.1	95	80-120	
Xylenes, Total	60.0	53.8	90	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WU16X10.D

Lab ID: 410-130132-11 MS Client ID: MW-7S-20230608 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	20.0	ND	20.4	102	80-120	
Ethylbenzene	20.0	ND	19.2	96	80-120	
Toluene	20.0	ND	19.8	99	80-120	
Xylenes, Total	60.0	ND	57.8	96	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: WU16X11.D

Lab ID: 410-130132-11 MSD Client ID: MW-7S-20230608 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	20.2	101	1	30	80-120	
Ethylbenzene	20.0	19.7	98	2	30	80-120	
Toluene	20.0	19.9	100	0	30	80-120	
Xylenes, Total	60.0	58.6	98	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: WU16X05.D Lab Sample ID: MB 410-387447/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 9137 Date Analyzed: 06/16/2023 10:36

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-387447/4	WU16X03.D	06/16/2023 09:56
TB-20230608	410-130132-15	WU16X08.D	06/16/2023 11:35
MW-7S-20230608	410-130132-11	WU16X09.D	06/16/2023 11:55
MW-7S-20230608 MS	410-130132-11 MS	WU16X10.D	06/16/2023 12:15
MW-7S-20230608 MSD	410-130132-11 MSD	WU16X11.D	06/16/2023 12:35
MW-8S-20230607	410-130132-1	WU16X12.D	06/16/2023 12:55
MW-12S-20230607	410-130132-2	WU16X13.D	06/16/2023 13:15
MW-12D-20230607	410-130132-3	WU16X14.D	06/16/2023 13:34
MW-11S-20230607	410-130132-4	WU16X15.D	06/16/2023 13:54
MW-3-20230607	410-130132-5	WU16X16.D	06/16/2023 14:14
DUP-20230607	410-130132-6	WU16X17.D	06/16/2023 14:34
MW-13S-20230608	410-130132-7	WU16X18.D	06/16/2023 14:53
MW-13D-20230608	410-130132-8	WU16X19.D	06/16/2023 15:13
MW-1-20230608	410-130132-9	WU16X20.D	06/16/2023 15:32
MW-4S-20230608	410-130132-10	WU16X21.D	06/16/2023 15:52
MW-10S-20230608	410-130132-12	WU16X22.D	06/16/2023 16:12
MW-14S-20230608	410-130132-13	WU16X23.D	06/16/2023 16:32
FB-20230608	410-130132-14	WU16X24.D	06/16/2023 16:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: WM08T01.D BFB Injection Date: 03/08/2023

Instrument ID: 9137 BFB Injection Time: 16:08

Analysis Batch No.: 351482

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	47.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	82.0	
175	5.0 - 9.0 % of mass 174	6.2	(7.6) 1
176	95.0 - 101.0 % of mass 174	80.2	(97.9) 1
177	5.0 - 9.0 % of mass 176	5.3	(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
	IC 410-351482/3	Copy_WM08X03.D	03/08/2023	16:50
	IC 410-351482/4	WM08X04.D	03/08/2023	17:10
	IC 410-351482/5	WM08X05.D	03/08/2023	17:30
	IC 410-351482/6	WM08X06.D	03/08/2023	17:49
	IC 410-351482/7	WM08X07.D	03/08/2023	18:09
	IC 410-351482/8	WM08X08.D	03/08/2023	18:29
	IC 410-351482/11	WM08X11.D	03/08/2023	19:28
	IC 410-351482/12	WM08X12.D	03/08/2023	19:48
	ICIS 410-351482/13	WM08X13.D	03/08/2023	20:08
	IC 410-351482/14	WM08X14.D	03/08/2023	20:27
	IC 410-351482/15	WM08X15.D	03/08/2023	20:47
	IC 410-351482/16	WM08X16.D	03/08/2023	21:07
	IC 410-351482/17	WM08X17.D	03/08/2023	21:27
	ICV 410-351482/19	WM08X19.D	03/08/2023	22:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: WU16T01.D BFB Injection Date: 06/16/2023

Instrument ID: 9137 BFB Injection Time: 07:38

Analysis Batch No.: 387447

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	50.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.3	(0.3) 1
174	Greater than 50% of mass 95	85.9	
175	5.0 - 9.0 % of mass 174	6.7	(7.8) 1
176	95.0 - 101.0 % of mass 174	81.9	(95.4) 1
177	5.0 - 9.0 % of mass 176	5.3	(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
	CCVIS 410-387447/3	WU16X02.D	06/16/2023	9:36
	LCS 410-387447/4	WU16X03.D	06/16/2023	9:56
	MB 410-387447/6	WU16X05.D	06/16/2023	10:36
TB-20230608	410-130132-15	WU16X08.D	06/16/2023	11:35
MW-7S-20230608	410-130132-11	WU16X09.D	06/16/2023	11:55
MW-7S-20230608 MS	410-130132-11 MS	WU16X10.D	06/16/2023	12:15
MW-7S-20230608 MSD	410-130132-11 MSD	WU16X11.D	06/16/2023	12:35
MW-8S-20230607	410-130132-1	WU16X12.D	06/16/2023	12:55
MW-12S-20230607	410-130132-2	WU16X13.D	06/16/2023	13:15
MW-12D-20230607	410-130132-3	WU16X14.D	06/16/2023	13:34
MW-11S-20230607	410-130132-4	WU16X15.D	06/16/2023	13:54
MW-3-20230607	410-130132-5	WU16X16.D	06/16/2023	14:14
DUP-20230607	410-130132-6	WU16X17.D	06/16/2023	14:34
MW-13S-20230608	410-130132-7	WU16X18.D	06/16/2023	14:53
MW-13D-20230608	410-130132-8	WU16X19.D	06/16/2023	15:13
MW-1-20230608	410-130132-9	WU16X20.D	06/16/2023	15:32
MW-4S-20230608	410-130132-10	WU16X21.D	06/16/2023	15:52
MW-10S-20230608	410-130132-12	WU16X22.D	06/16/2023	16:12
MW-14S-20230608	410-130132-13	WU16X23.D	06/16/2023	16:32
FB-20230608	410-130132-14	WU16X24.D	06/16/2023	16:51

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: ICIS 410-351482/13 Date Analyzed: 03/08/2023 20:08

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WM08X13.D Heated Purge: (Y/N) N

Calibration ID: 48113

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		463533	2.77	1114062	5.07	813166	8.19
UPPER LIMIT		927066	3.27	2228124	5.57	1626332	8.69
LOWER LIMIT		231767	2.27	557031	4.57	406583	7.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-351482/19		428190	2.86	1098558	5.07	795979	8.19
CCVIS 410-387447/3		372682	2.79	1102138	5.08	755865	8.19

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: ICIS 410-351482/13 Date Analyzed: 03/08/2023 20:08

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WM08X13.D Heated Purge: (Y/N) N

Calibration ID: 48113

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		437621	10.06				
UPPER LIMIT		875242	10.56				
LOWER LIMIT		218811	9.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-351482/19		441930	10.06				
CCVIS 410-387447/3		402244	10.06				

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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-387447/3 Date Analyzed: 06/16/2023 09:36

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WU16X02.D Heated Purge: (Y/N) N

Calibration ID: 48113

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		372682	2.79	1102138	5.08	755865	8.19
UPPER LIMIT		745364	3.29	2204276	5.58	1511730	8.69
LOWER LIMIT		186341	2.29	551069	4.58	377933	7.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-387447/4		374132	2.81	1137305	5.07	764635	8.19
MB 410-387447/6		385987	2.81	1076060	5.07	706679	8.19
410-130132-15	TB-20230608	376524	2.82	1056750	5.08	691537	8.19
410-130132-11	MW-7S-20230608	303397	2.82	1063318	5.07	685504	8.19
410-130132-11 MS	MW-7S-20230608 MS	368322	2.82	1092618	5.06	726173	8.19
410-130132-11 MSD	MW-7S-20230608 MSD	367088	2.84	1120207	5.07	735944	8.19
410-130132-1	MW-8S-20230607	358433	2.82	1078173	5.07	676008	8.19
410-130132-2	MW-12S-20230607	359524	2.80	1049454	5.07	672860	8.19
410-130132-3	MW-12D-20230607	348452	2.83	1039131	5.07	637484	8.19
410-130132-4	MW-11S-20230607	369262	2.84	1038006	5.07	654636	8.19
410-130132-5	MW-3-20230607	348723	2.81	1052337	5.07	690356	8.19
410-130132-6	DUP-20230607	362614	2.82	1095548	5.08	668031	8.19
410-130132-7	MW-13S-20230608	347500	2.83	1034433	5.07	651629	8.19
410-130132-8	MW-13D-20230608	371034	2.83	1109114	5.07	696118	8.19
410-130132-9	MW-1-20230608	351339	2.83	1047744	5.07	647957	8.19
410-130132-10	MW-4S-20230608	353770	2.85	1039776	5.07	662864	8.19
410-130132-12	MW-10S-20230608	359376	2.82	1045535	5.07	643445	8.19
410-130132-13	MW-14S-20230608	362328	2.81	1036762	5.07	657057	8.19
410-130132-14	FB-20230608	360052	2.81	1049448	5.07	643658	8.19

TBAd10 = t-Butyl alcohol-d10 (IS)
TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
FB = Fluorobenzene (IS)
Area Limit = 50%-200% of internal standard area
CBZd5 = Chlorobenzene-d5 (IS)
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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-387447/3 Date Analyzed: 06/16/2023 09:36

Instrument ID: 9137 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): WU16X02.D Heated Purge: (Y/N) N

Calibration ID: 48113

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		402244	10.06				
UPPER LIMIT		804488	10.56				
LOWER LIMIT		201122	9.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-387447/4		432017	10.06				
MB 410-387447/6		397353	10.06				
410-130132-15	TB-20230608	393169	10.06				
410-130132-11	MW-7S-20230608	393805	10.06				
410-130132-11 MS	MW-7S-20230608 MS	396759	10.06				
410-130132-11 MSD	MW-7S-20230608 MSD	414885	10.06				
410-130132-1	MW-8S-20230607	391633	10.06				
410-130132-2	MW-12S-20230607	390466	10.06				
410-130132-3	MW-12D-20230607	368379	10.06				
410-130132-4	MW-11S-20230607	375238	10.06				
410-130132-5	MW-3-20230607	384743	10.06				
410-130132-6	DUP-20230607	373198	10.06				
410-130132-7	MW-13S-20230608	374541	10.06				
410-130132-8	MW-13D-20230608	394880	10.06				
410-130132-9	MW-1-20230608	368615	10.06				
410-130132-10	MW-4S-20230608	374238	10.06				
410-130132-12	MW-10S-20230608	370493	10.06				
410-130132-13	MW-14S-20230608	364455	10.06				
410-130132-14	FB-20230608	365026	10.06				

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 Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-8S-20230607
Lab Sample ID: 410-130132-1

Matrix: Water
Lab File ID: WU16X12.D

Analysis Method: 8260D
Date Collected: 06/07/2023 10:59

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 12:55

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X12.D
Lims ID: 410-130132-A-1
Client ID: MW-8S-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 12:55:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-013
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.824	2.791	0.033	45	358433	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	92	272561	51.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.720	4.730	-0.010	70	67460	50.9	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.067	5.076	-0.009	98	1078173	50.0	
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	94	956073	52.3	
83 Toluene	92		6.806				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	88	676008	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	
104 o-Xylene	106		8.763				ND	7
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	89	309725	45.9	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	95	391633	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

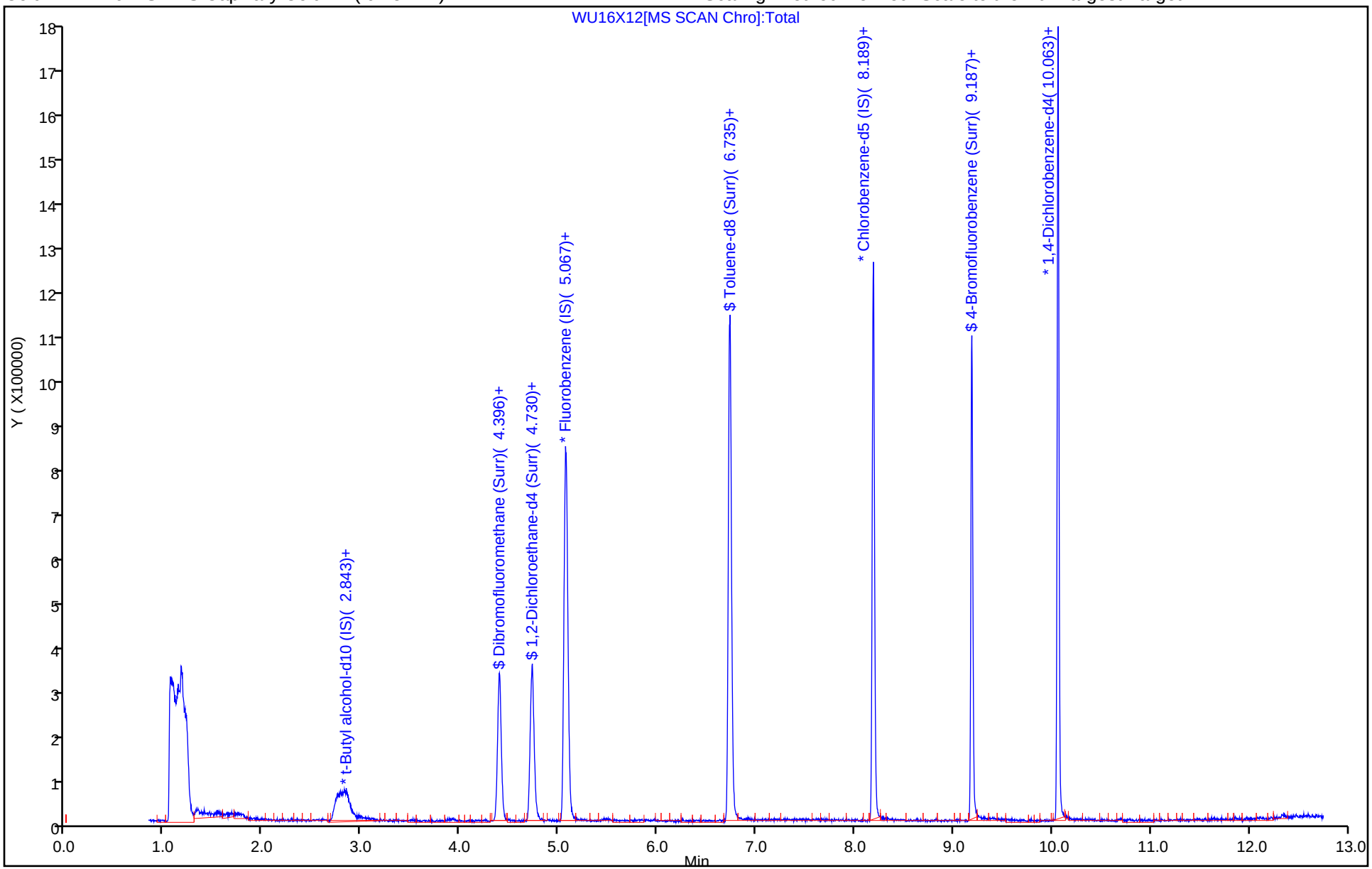
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 09:52:36 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X12.D				
Injection Date:	16-Jun-2023 12:55:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-1	Lab Sample ID:	410-130132-1	Worklist Smp#:	13
Client ID:	MW-8S-20230607				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X12.D				
Lims ID:	410-130132-A-1				
Client ID:	MW-8S-20230607				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 12:55:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0086790-013				
Operator ID:	lcp00895	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	19-Jun-2023 09:52:20	Calib Date:	08-Mar-2023 21:27:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.5	103.04
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.9	101.81
$ 82 Toluene-d8 (Surr)	50.0	52.3	104.60
$ 110 4-Bromofluorobenzene (Surr)	50.0	45.9	91.81

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-12S-20230607
Lab Sample ID: 410-130132-2

Matrix: Water
Lab File ID: WU16X13.D

Analysis Method: 8260D
Date Collected: 06/07/2023 11:47

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 13:15

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X13.D
Lims ID: 410-130132-A-2
Client ID: MW-12S-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 13:15:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-014
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.804	2.791	0.013	28	359524	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	93	262753	51.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	70	68211	52.9	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.067	5.076	-0.009	98	1049454	50.0	
$ 82 Toluene-d8 (Surr)	98	6.729	6.735	-0.006	95	939392	51.6	
83 Toluene	92		6.806				ND	7
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	88	672860	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	88	319553	47.6	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	95	390466	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

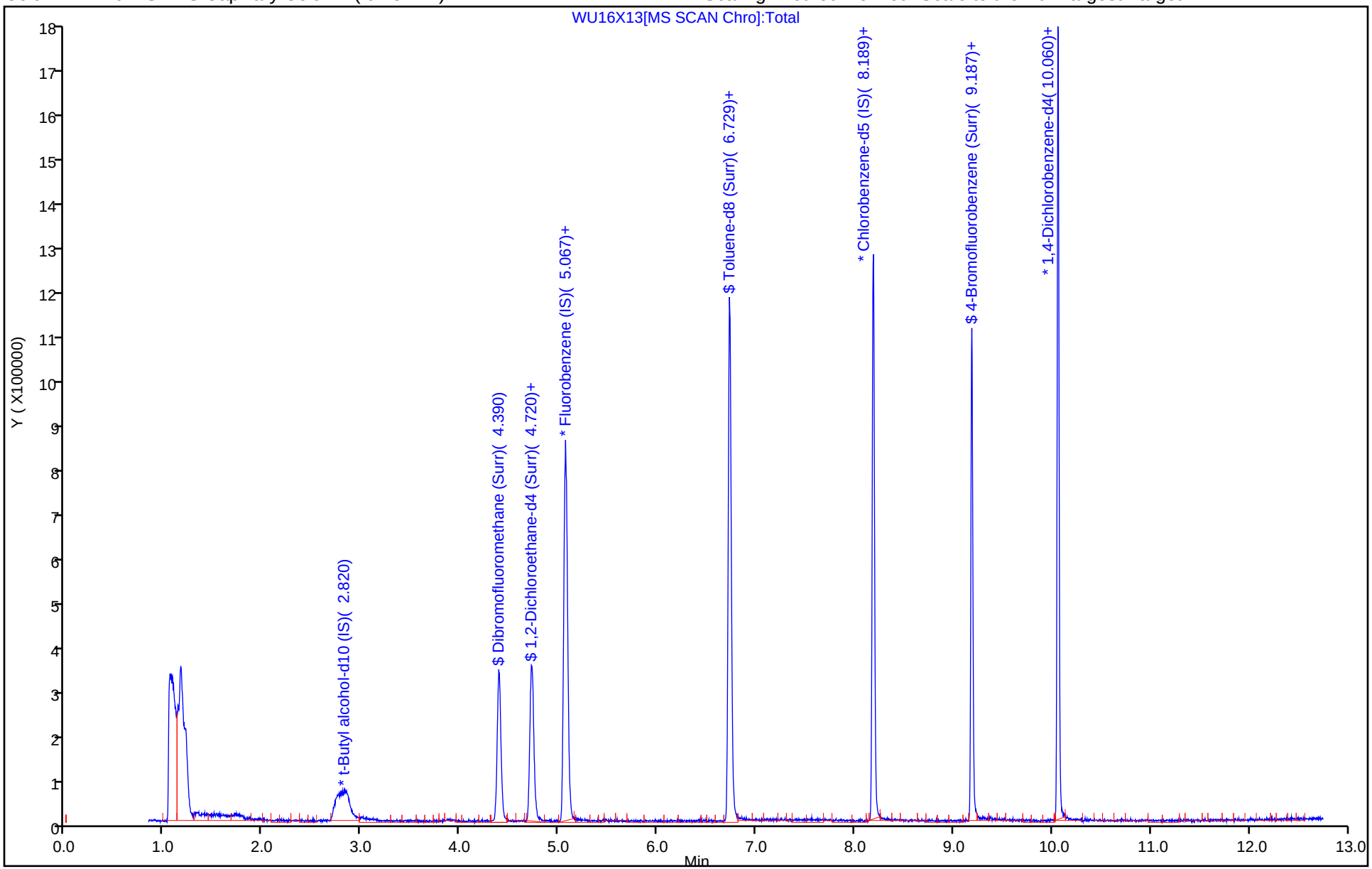
Report Date: 19-Jun-2023 09:52:47 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X13.D

Injection Date:	16-Jun-2023 13:15:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-2	Lab Sample ID:	410-130132-2	Worklist Smp#:	14
Client ID:	MW-12S-20230607				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X13.D
Lims ID: 410-130132-A-2
Client ID: MW-12S-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 13:15:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-014
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.0	102.05
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.9	105.76
$ 82 Toluene-d8 (Surr)	50.0	51.6	103.26
$ 110 4-Bromofluorobenzene (Surr)	50.0	47.6	95.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-12D-20230607
Lab Sample ID: 410-130132-3

Matrix: Water
Lab File ID: WU16X14.D

Analysis Method: 8260D
Date Collected: 06/07/2023 13:23

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 13:34

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X14.D
Lims ID: 410-130132-A-3
Client ID: MW-12D-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 13:34:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-015
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.830	2.791	0.039	59	348452	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.402	4.399	0.003	92	276104	54.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	70	67530	52.9	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	99	1039131	50.0	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	95	898404	52.1	
83 Toluene	92		6.806				ND	7
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	637484	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.190	9.184	0.006	89	294464	46.3	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	368379	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

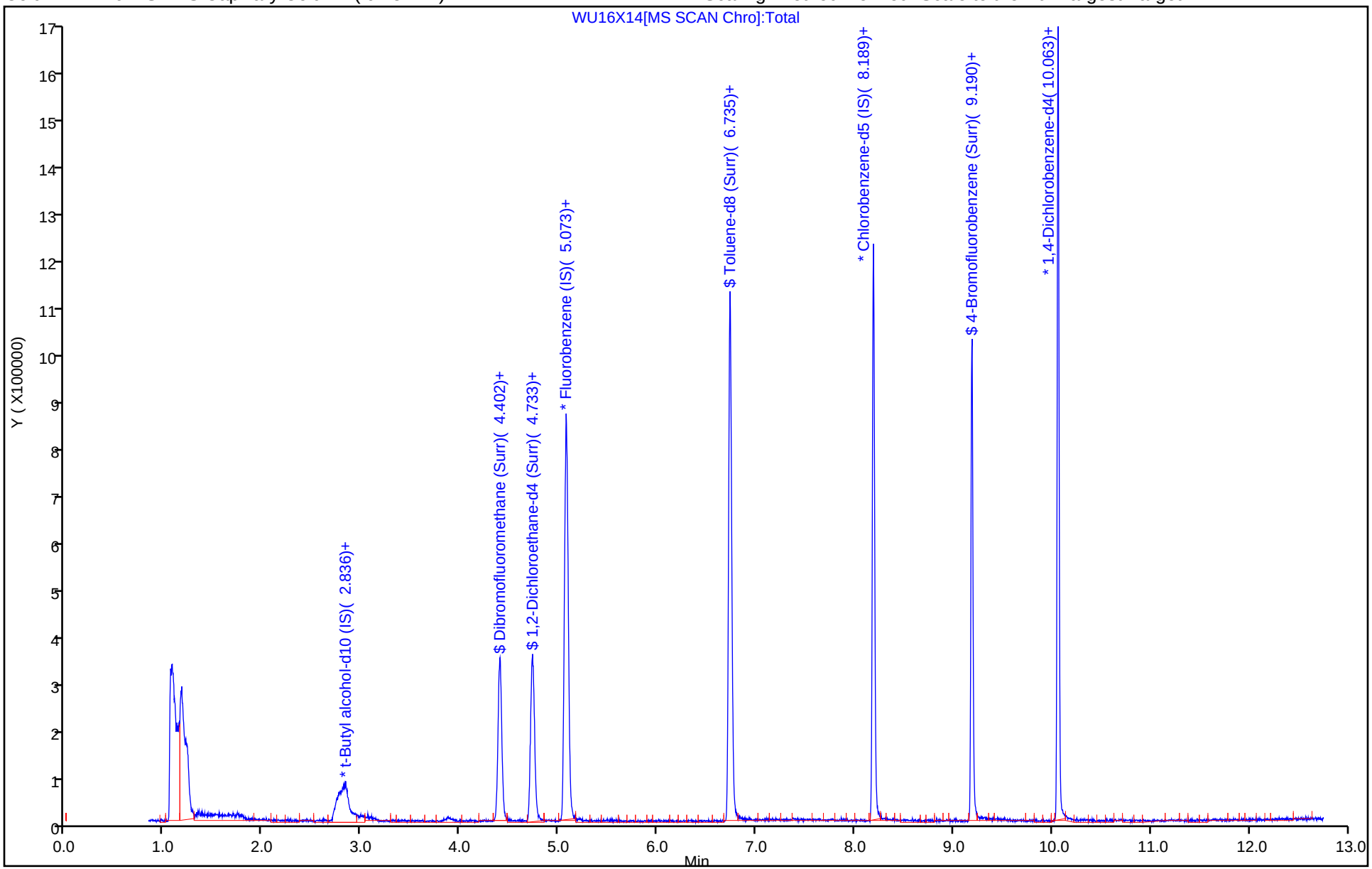
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 09:52:59 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X14.D				
Injection Date:	16-Jun-2023 13:34:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-3	Lab Sample ID:	410-130132-3	Worklist Smp#:	15
Client ID:	MW-12D-20230607				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X14.D
Lims ID: 410-130132-A-3
Client ID: MW-12D-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 13:34:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-015
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	54.2	108.30
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.9	105.75
$ 82 Toluene-d8 (Surr)	50.0	52.1	104.23
$ 110 4-Bromofluorobenzene (Surr)	50.0	46.3	92.56

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-11S-20230607
Lab Sample ID: 410-130132-4

Matrix: Water
Lab File ID: WU16X15.D

Analysis Method: 8260D
Date Collected: 06/07/2023 14:55

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 13:54

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.71	J	1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	0.65	J	1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X15.D
Lims ID: 410-130132-A-4
Client ID: MW-11S-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 13:54:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-016
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.843	2.791	0.052	34	369262	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.393	4.399	-0.006	93	252879	49.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	70	66632	52.2	
59 Benzene	78	4.797	4.794	0.003	91	20219	0.7088	
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	99	1038006	50.0	
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	94	930910	52.6	
83 Toluene	92		6.806				ND	7
* 97 Chlorobenzene-d5 (IS)	117	8.186	8.189	-0.003	88	654636	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106	8.433	8.426	0.007	96	10981	1.00	
104 o-Xylene	106	8.776	8.763	0.013	95	7534	0.6483	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	89	303582	46.5	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	95	375238	50.0	
S 175 Xylenes, Total	106				0		1.65	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

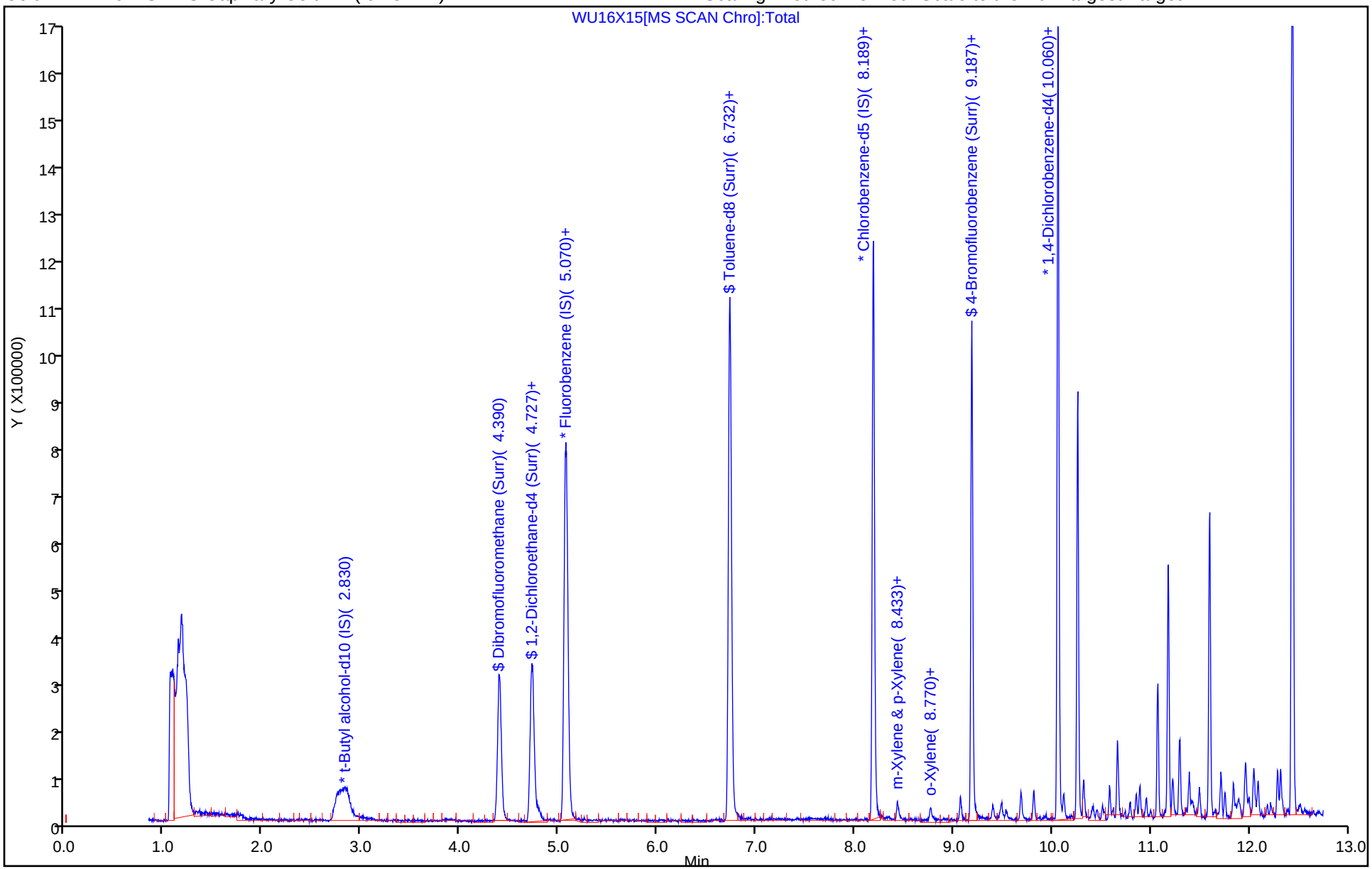
Report Date: 19-Jun-2023 09:53:13 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X15.D

Injection Date:	16-Jun-2023 13:54:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-4	Lab Sample ID:	410-130132-4	Worklist Smp#:	16
Client ID:	MW-11S-20230607				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X15.D
Lims ID: 410-130132-A-4
Client ID: MW-11S-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 13:54:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-016
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:12

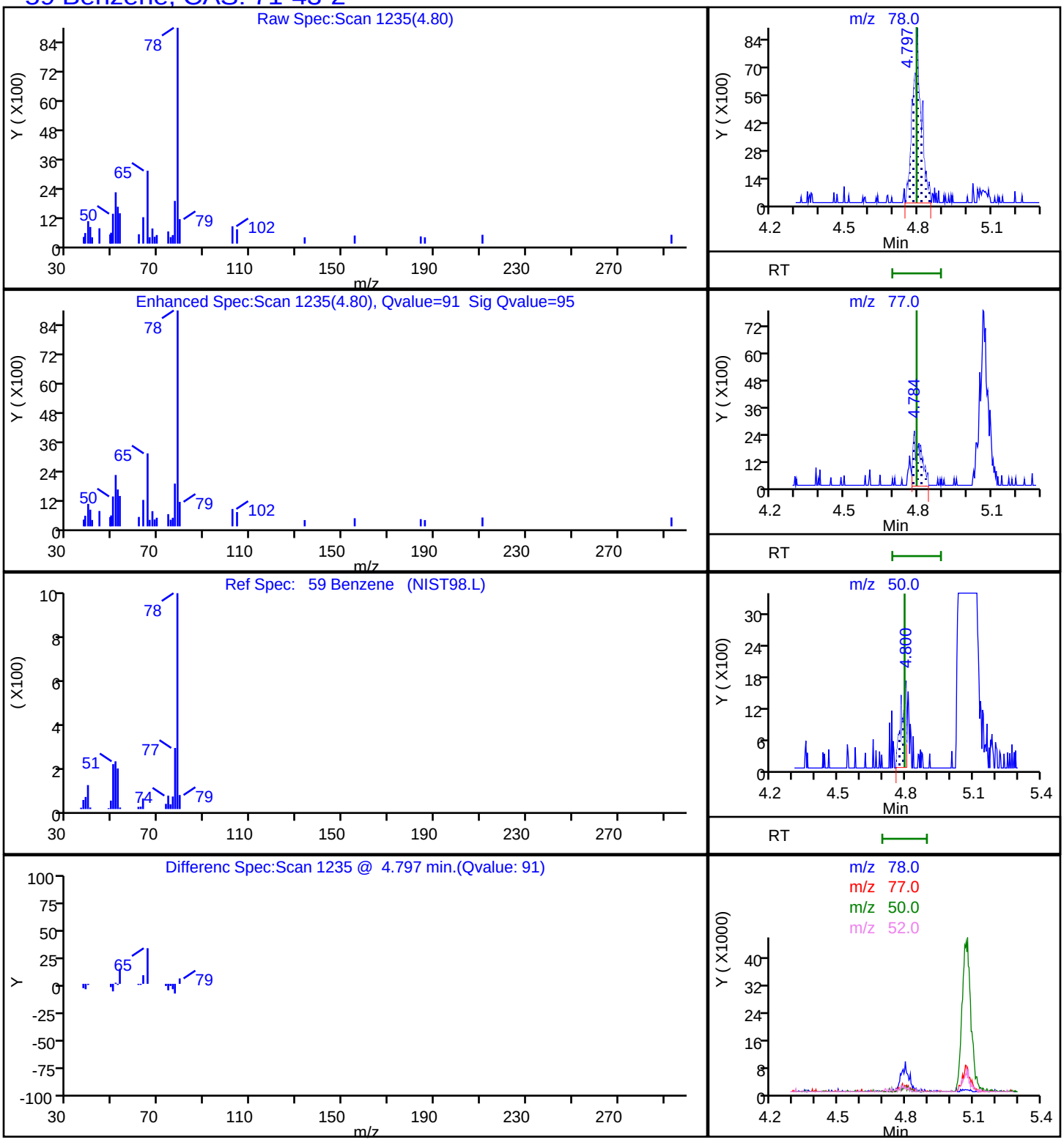
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	49.6	99.30
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.2	104.45
$ 82 Toluene-d8 (Surr)	50.0	52.6	105.17
$ 110 4-Bromofluorobenzene (Surr)	50.0	46.5	92.92

Report Date: 19-Jun-2023 09:53:13 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X15.D				
Injection Date:	16-Jun-2023 13:54:30	Instrument ID:	9137		
Lims ID:	410-130132-A-4	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	lcp00895	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

59 Benzene, CAS: 71-43-2

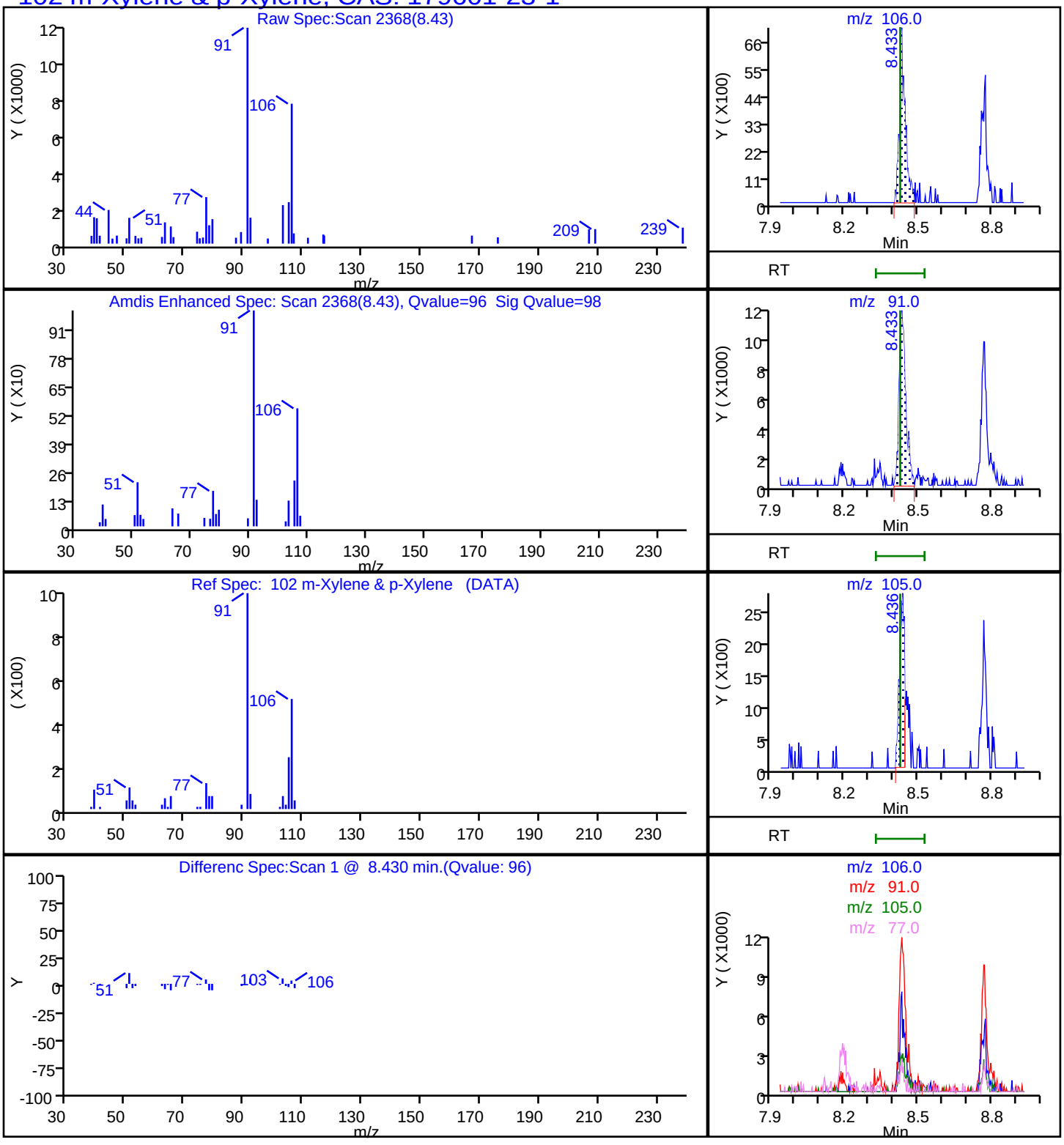


Report Date: 19-Jun-2023 09:53:13 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X15.D				
Injection Date:	16-Jun-2023 13:54:30	Instrument ID:	9137		
Lims ID:	410-130132-A-4	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	lcp00895	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

102 m-Xylene & p-Xylene, CAS: 179601-23-1



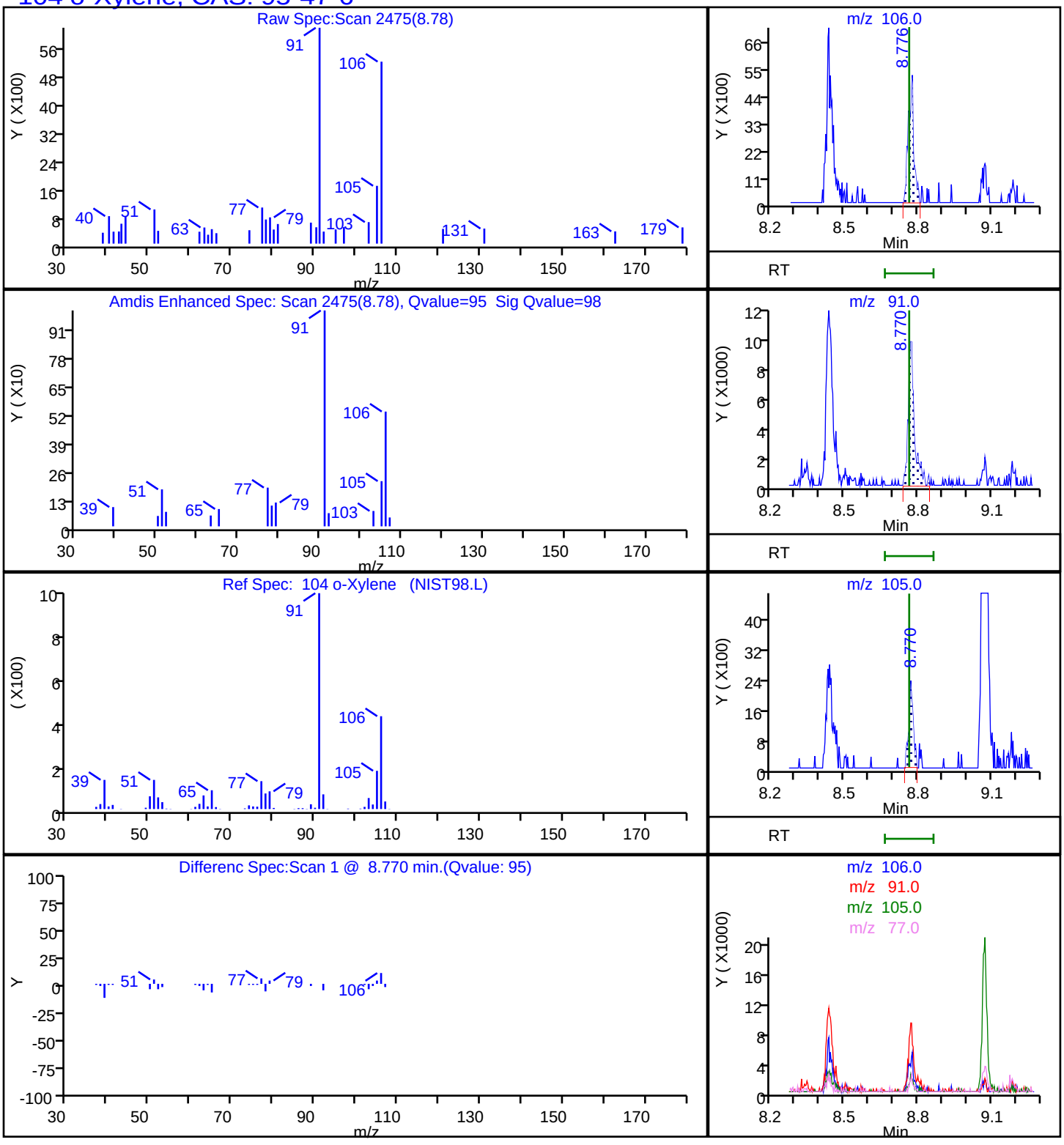
Report Date: 19-Jun-2023 09:53:13 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X15.D

Injection Date:	16-Jun-2023 13:54:30	Instrument ID:	9137		
Lims ID:	410-130132-A-4	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	lcp00895	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

104 o-Xylene, CAS: 95-47-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-3-20230607
Lab Sample ID: 410-130132-5

Matrix: Water
Lab File ID: WU16X16.D

Analysis Method: 8260D
Date Collected: 06/07/2023 15:39

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 14:14

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.45	J	1.0	0.30
100-41-4	Ethylbenzene	1.2		1.0	0.40
108-88-3	Toluene	0.50	J	1.0	0.30
1330-20-7	Xylenes, Total	1.1		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D
Lims ID: 410-130132-A-5
Client ID: MW-3-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 14:14:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-017
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.814	2.791	0.023	28	348723	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.390	4.399	-0.009	92	265132	51.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.717	4.730	-0.013	70	70682	54.6	
59 Benzene	78	4.784	4.794	-0.010	57	13050	0.4513	
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	98	1052337	50.0	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	95	949929	50.9	
83 Toluene	92	6.806	6.806	0.000	67	7936	0.5007	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	690356	50.0	
101 Ethylbenzene	91	8.324	8.320	0.004	97	36996	1.21	
102 m-Xylene & p-Xylene	106	8.430	8.426	0.004	98	13040	1.13	
104 o-Xylene	106	8.773	8.763	0.010	96	13628	1.11	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	88	319123	46.3	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	96	384743	50.0	
S 175 Xylenes, Total	106				0		2.24	

QC Flag Legend

Processing Flags

Reagents:

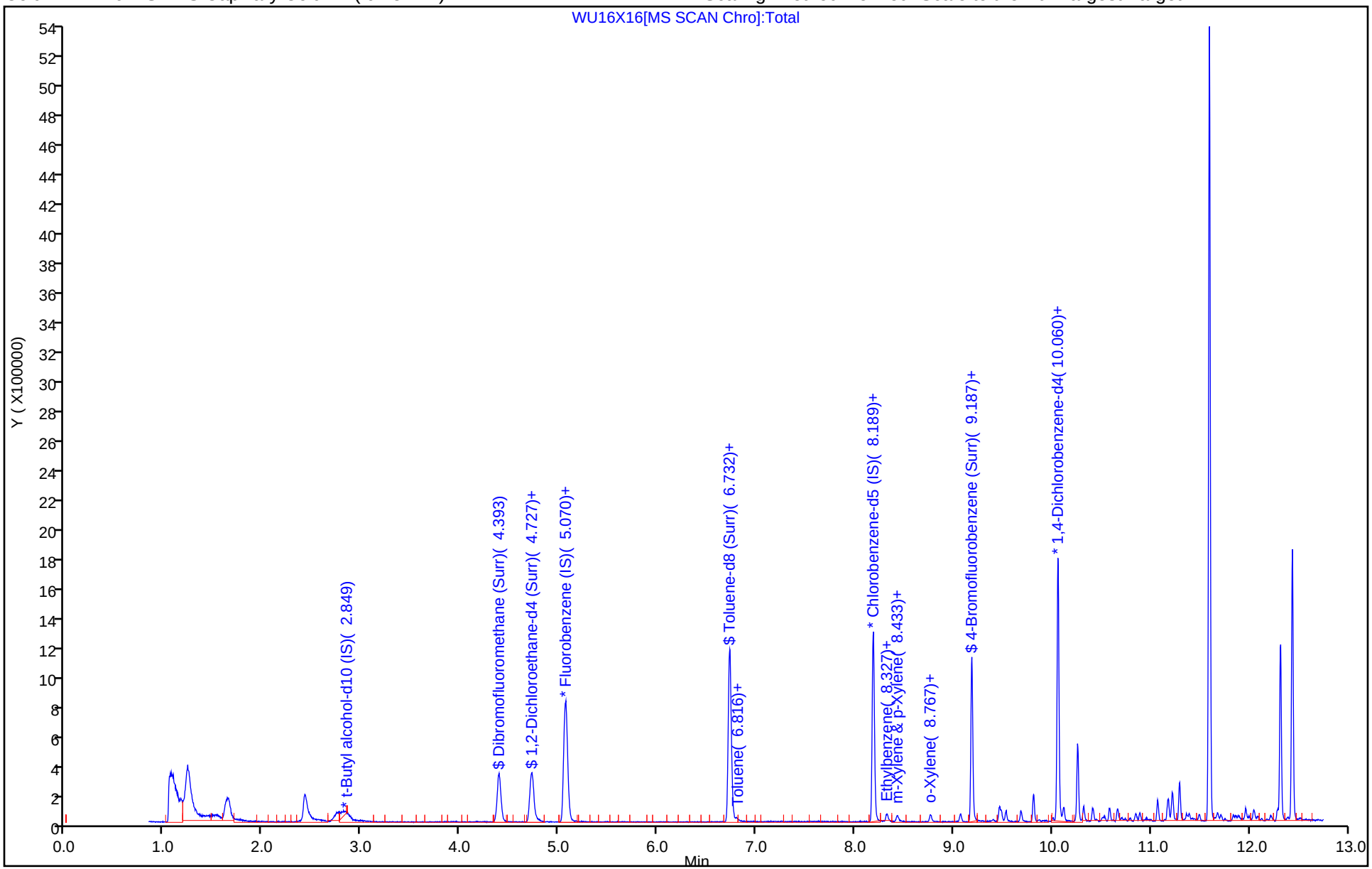
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 09:53:28 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D				
Injection Date:	16-Jun-2023 14:14:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-5	Lab Sample ID:	410-130132-5	Worklist Smp#:	17
Client ID:	MW-3-20230607				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D				
Lims ID:	410-130132-A-5				
Client ID:	MW-3-20230607				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 14:14:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0086790-017				
Operator ID:	lcp00895	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	19-Jun-2023 09:52:20	Calib Date:	08-Mar-2023 21:27:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:27

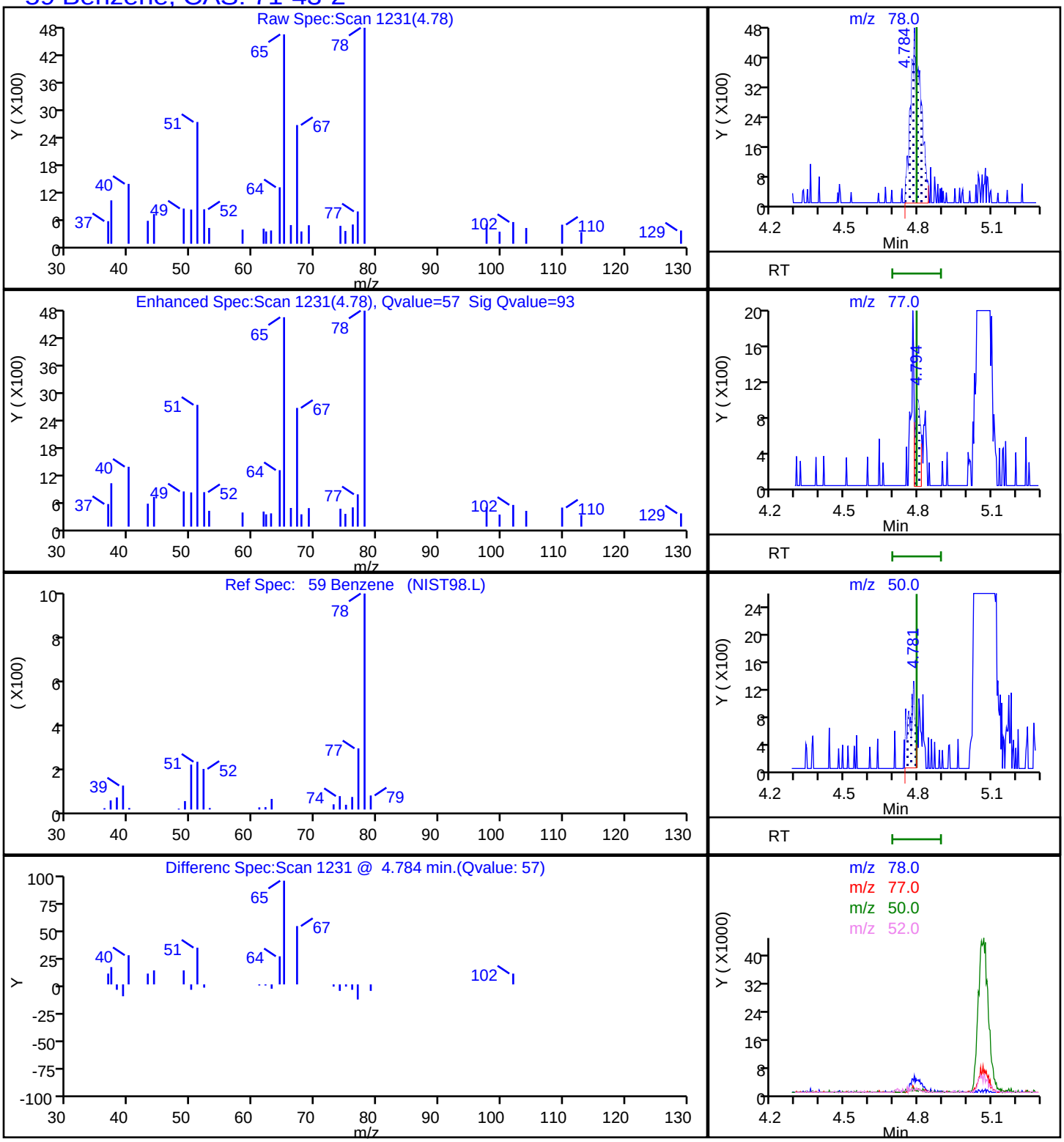
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.3	102.69
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	54.6	109.29
$ 82 Toluene-d8 (Surr)	50.0	50.9	101.77
$ 110 4-Bromofluorobenzene (Surr)	50.0	46.3	92.63

Report Date: 19-Jun-2023 09:53:28 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D				
Injection Date:	16-Jun-2023 14:14:30	Instrument ID:	9137		
Lims ID:	410-130132-A-5	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	lcp00895	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

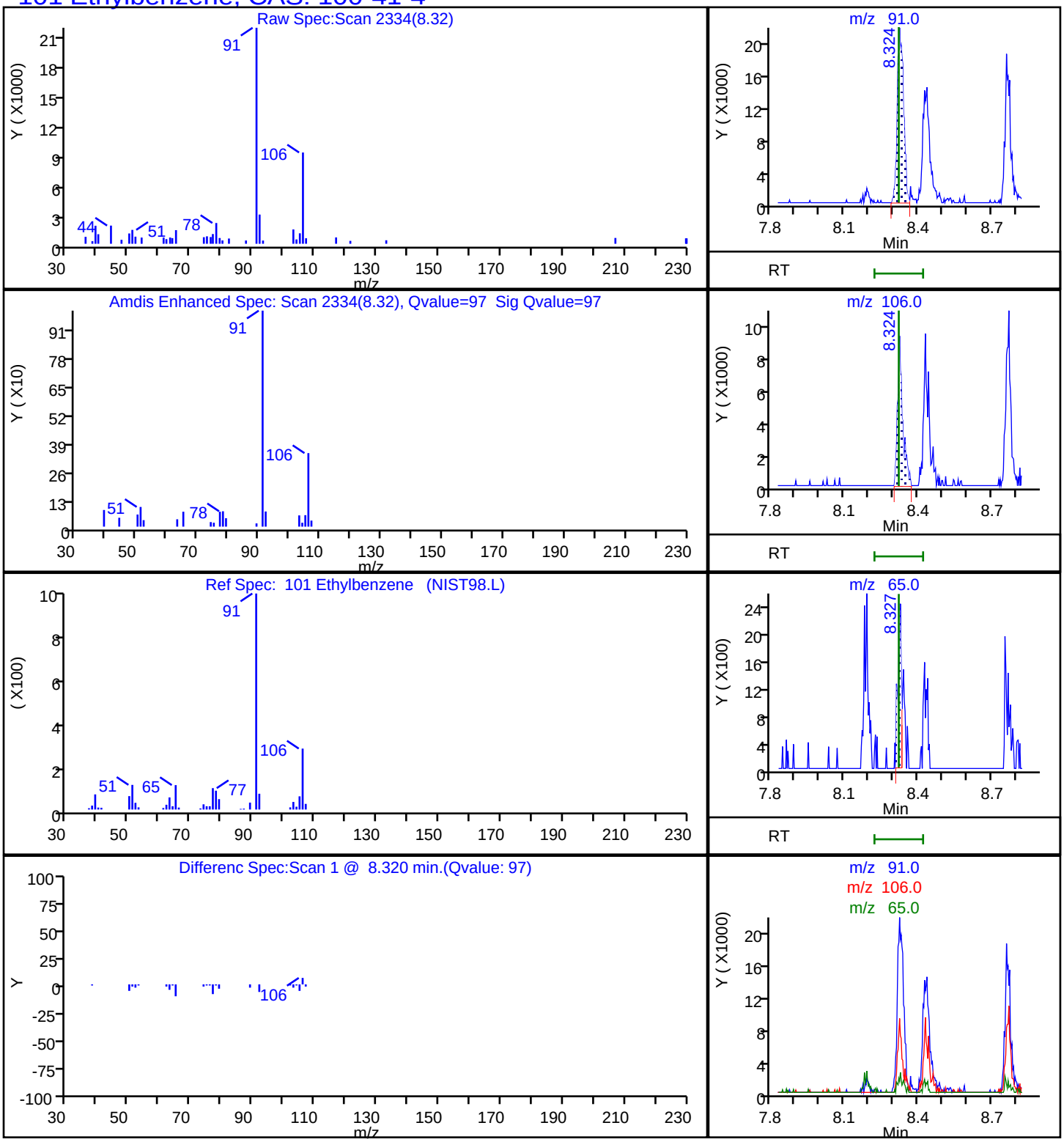
59 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D				
Injection Date:	16-Jun-2023 14:14:30	Instrument ID:	9137		
Lims ID:	410-130132-A-5	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	lcp00895	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

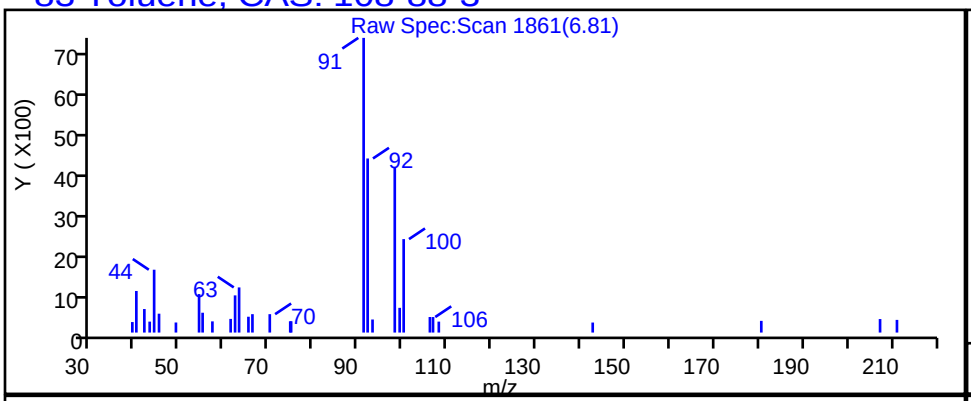
101 Ethylbenzene, CAS: 100-41-4

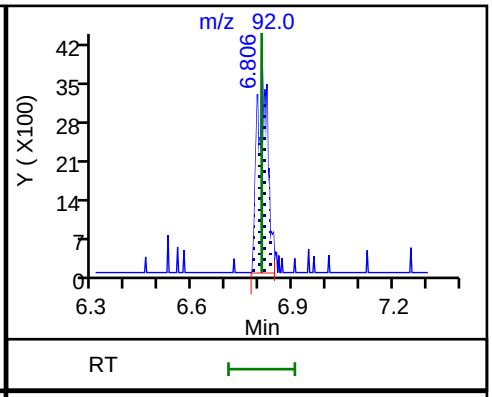


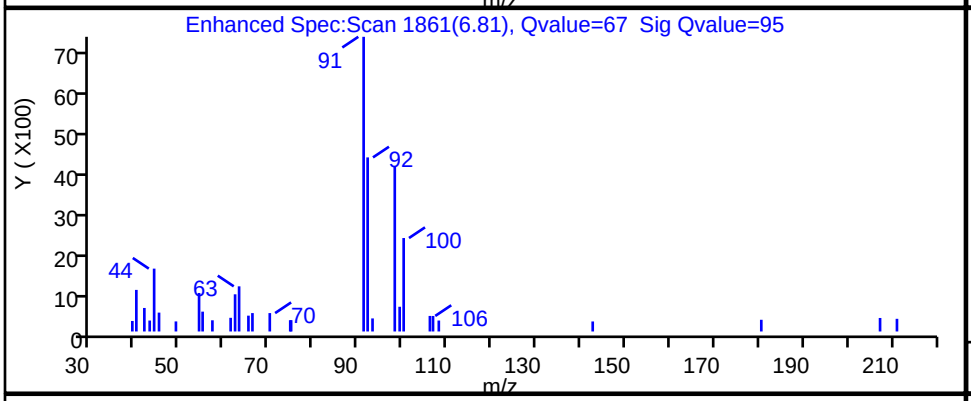
Eurofins Lancaster Laboratories Environment Testing, LLC

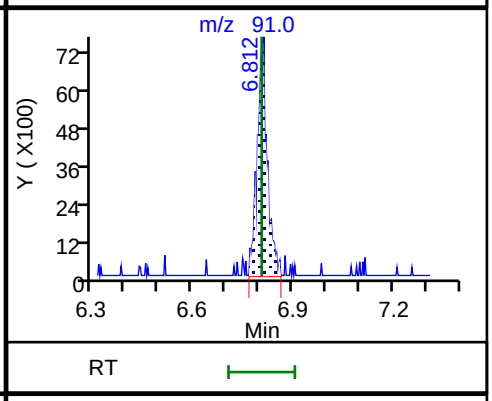
Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D				
Injection Date:	16-Jun-2023 14:14:30	Instrument ID:	9137		
Lims ID:	410-130132-A-5	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	lcp00895	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

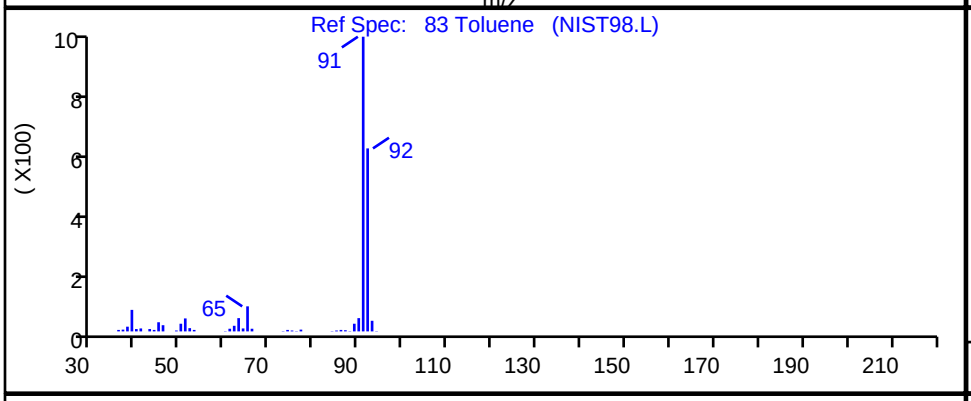
83 Toluene, CAS: 108-88-3

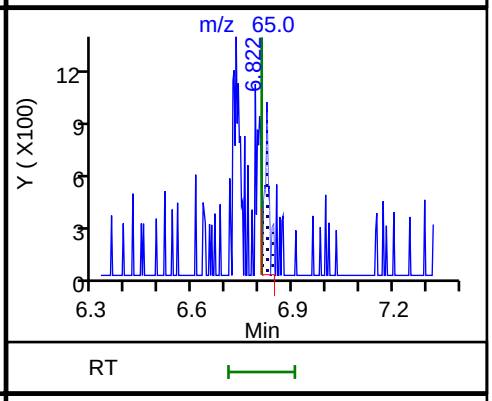


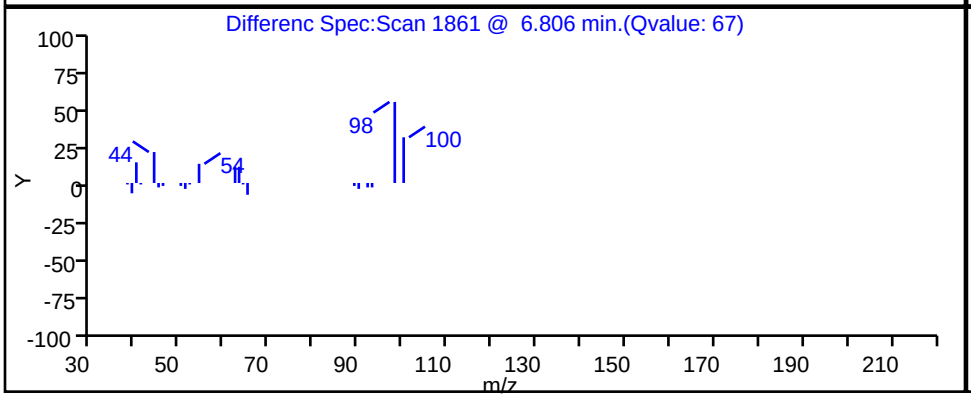


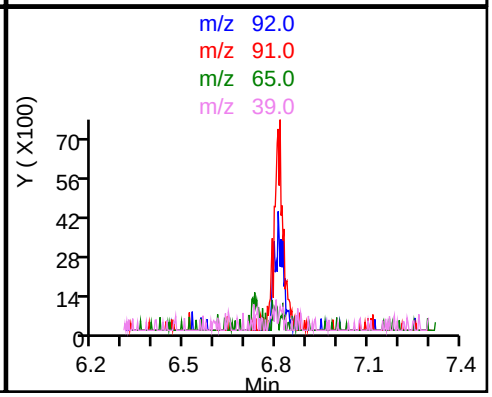








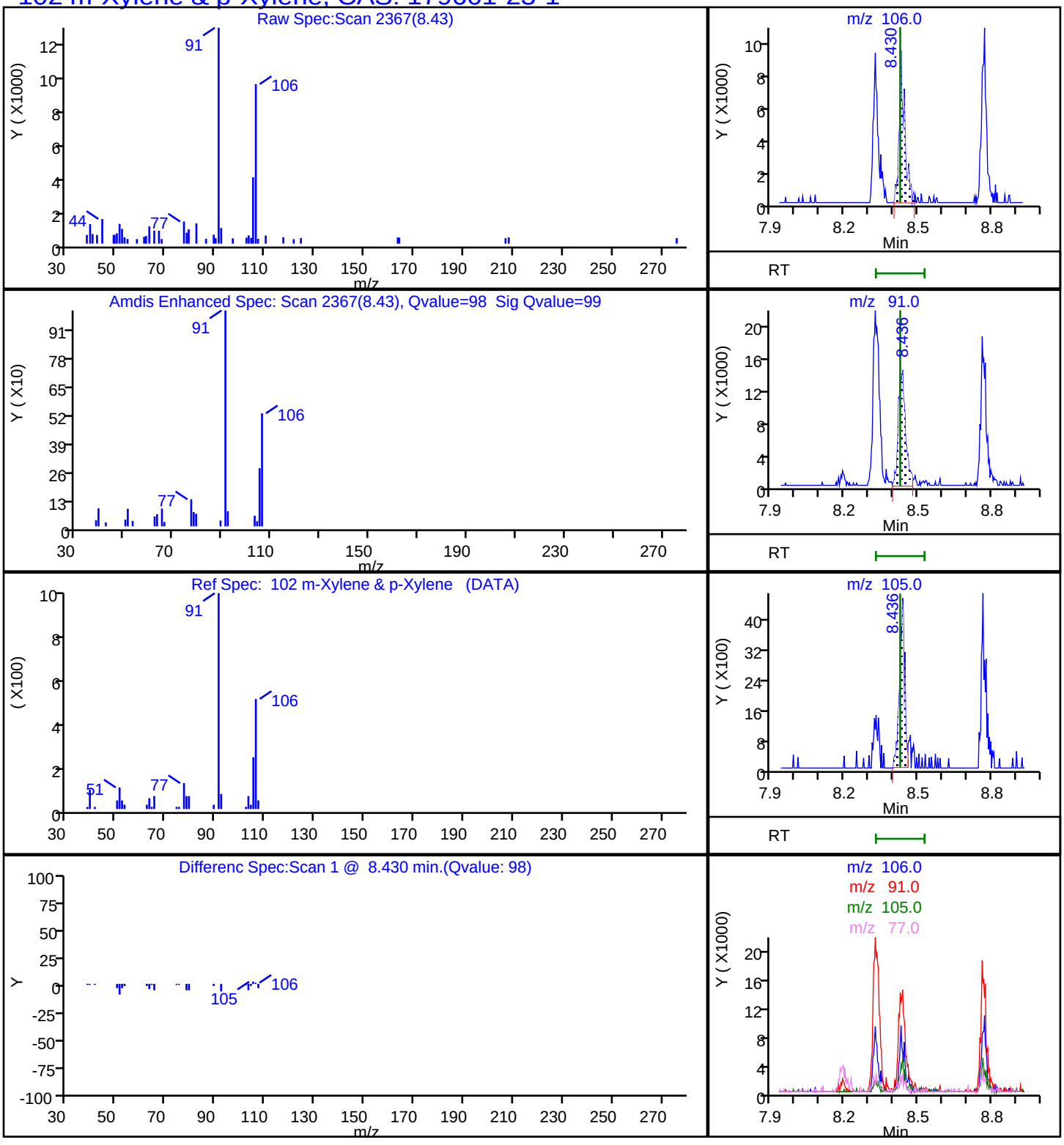




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D				
Injection Date:	16-Jun-2023 14:14:30	Instrument ID:	9137		
Lims ID:	410-130132-A-5	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	lcp00895	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

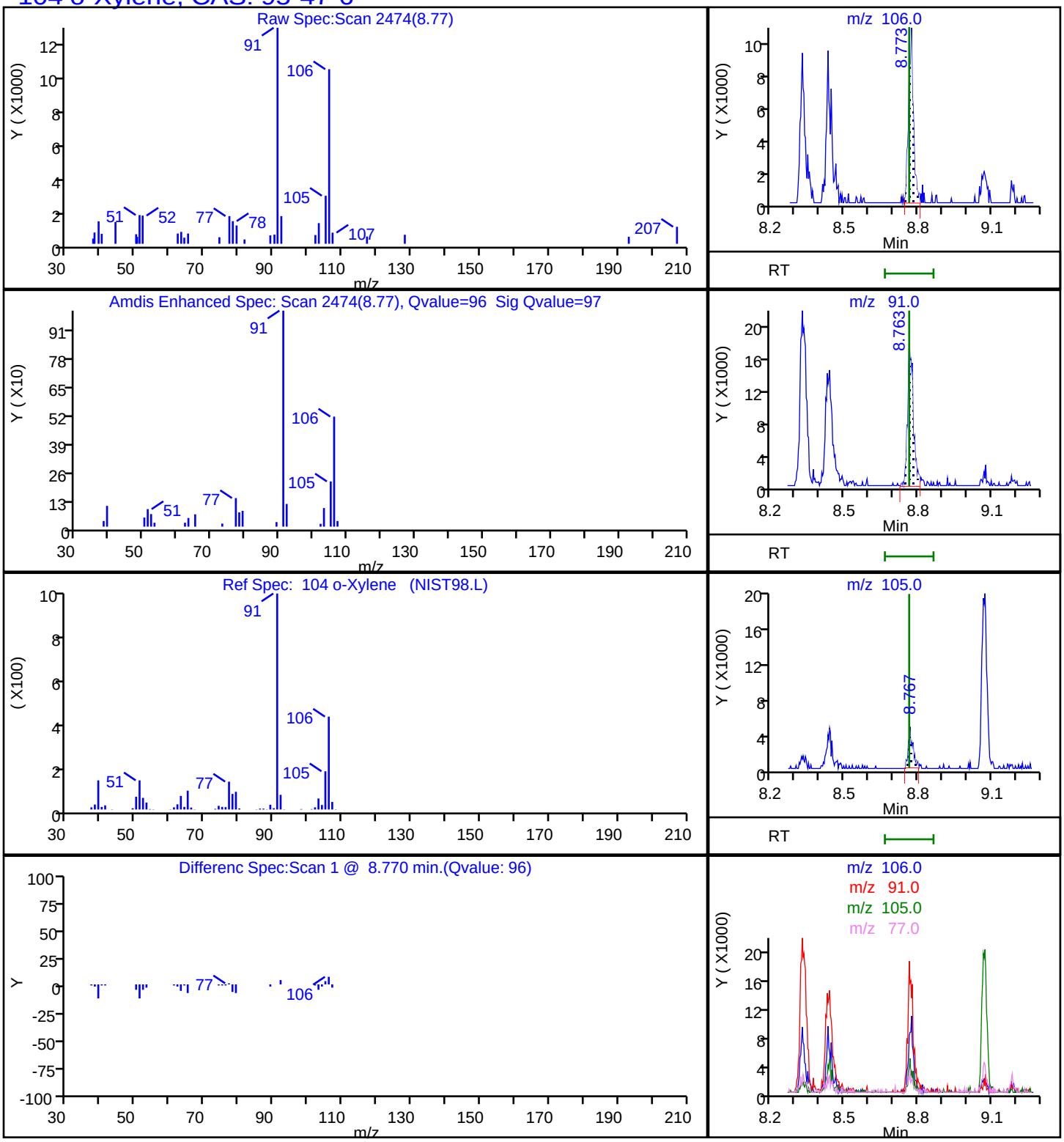
102 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X16.D				
Injection Date:	16-Jun-2023 14:14:30	Instrument ID:	9137		
Lims ID:	410-130132-A-5	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	lcp00895	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

104 o-Xylene, CAS: 95-47-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: DUP-20230607
Lab Sample ID: 410-130132-6

Matrix: Water
Lab File ID: WU16X17.D

Analysis Method: 8260D
Date Collected: 06/07/2023 00:00

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 14:34

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X17.D
Lims ID: 410-130132-A-6
Client ID: DUP-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 14:34:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-018
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.820	2.791	0.029	40	362614	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.399	4.399	0.000	93	276772	51.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	70	73424	54.5	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.076	5.076	0.000	99	1095548	50.0	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	94	949486	52.6	
83 Toluene	92		6.806				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	88	668031	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	7
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	89	298040	44.7	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	373198	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

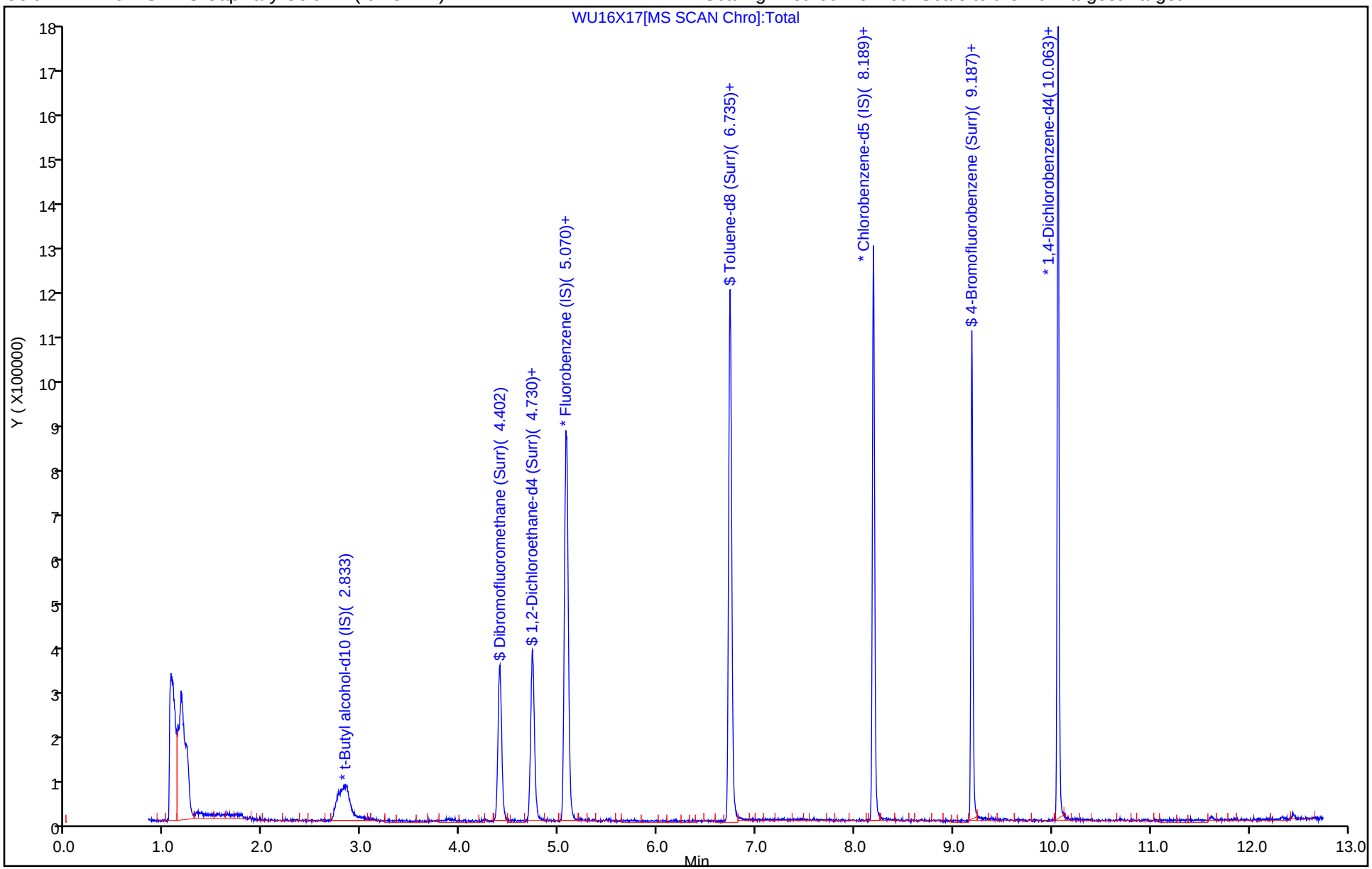
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 09:53:41 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X17.D				
Injection Date:	16-Jun-2023 14:34:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-6	Lab Sample ID:	410-130132-6	Worklist Smp#:	18
Client ID:	DUP-20230607				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X17.D
Lims ID: 410-130132-A-6
Client ID: DUP-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 14:34:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-018
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.5	102.97
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	54.5	109.05
$ 82 Toluene-d8 (Surr)	50.0	52.6	105.12
$ 110 4-Bromofluorobenzene (Surr)	50.0	44.7	89.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-13S-20230608
Lab Sample ID: 410-130132-7

Matrix: Water
Lab File ID: WU16X18.D

Analysis Method: 8260D
Date Collected: 06/08/2023 08:40

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 14:53

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.2		1.0	0.30
100-41-4	Ethylbenzene	0.41	J	1.0	0.40
108-88-3	Toluene	0.37	J	1.0	0.30
1330-20-7	Xylenes, Total	0.76	J	1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D
Lims ID: 410-130132-A-7
Client ID: MW-13S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 14:53:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-019
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.827	2.791	0.036	28	347500	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.393	4.399	-0.006	94	255167	50.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	69	64240	50.5	
59 Benzene	78	4.794	4.794	0.000	92	34153	1.20	
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	98	1034433	50.0	
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	94	926821	52.6	
83 Toluene	92	6.803	6.806	-0.003	47	5601	0.3744	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	651629	50.0	
101 Ethylbenzene	91	8.330	8.320	0.010	96	11911	0.4111	
102 m-Xylene & p-Xylene	106	8.439	8.426	0.013	97	7174	0.6575	
104 o-Xylene	106	8.770	8.763	0.007	95	8739	0.7554	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	90	297552	45.7	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	374541	50.0	
S 175 Xylenes, Total	106				0		1.41	

QC Flag Legend
Processing Flags

Reagents:
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

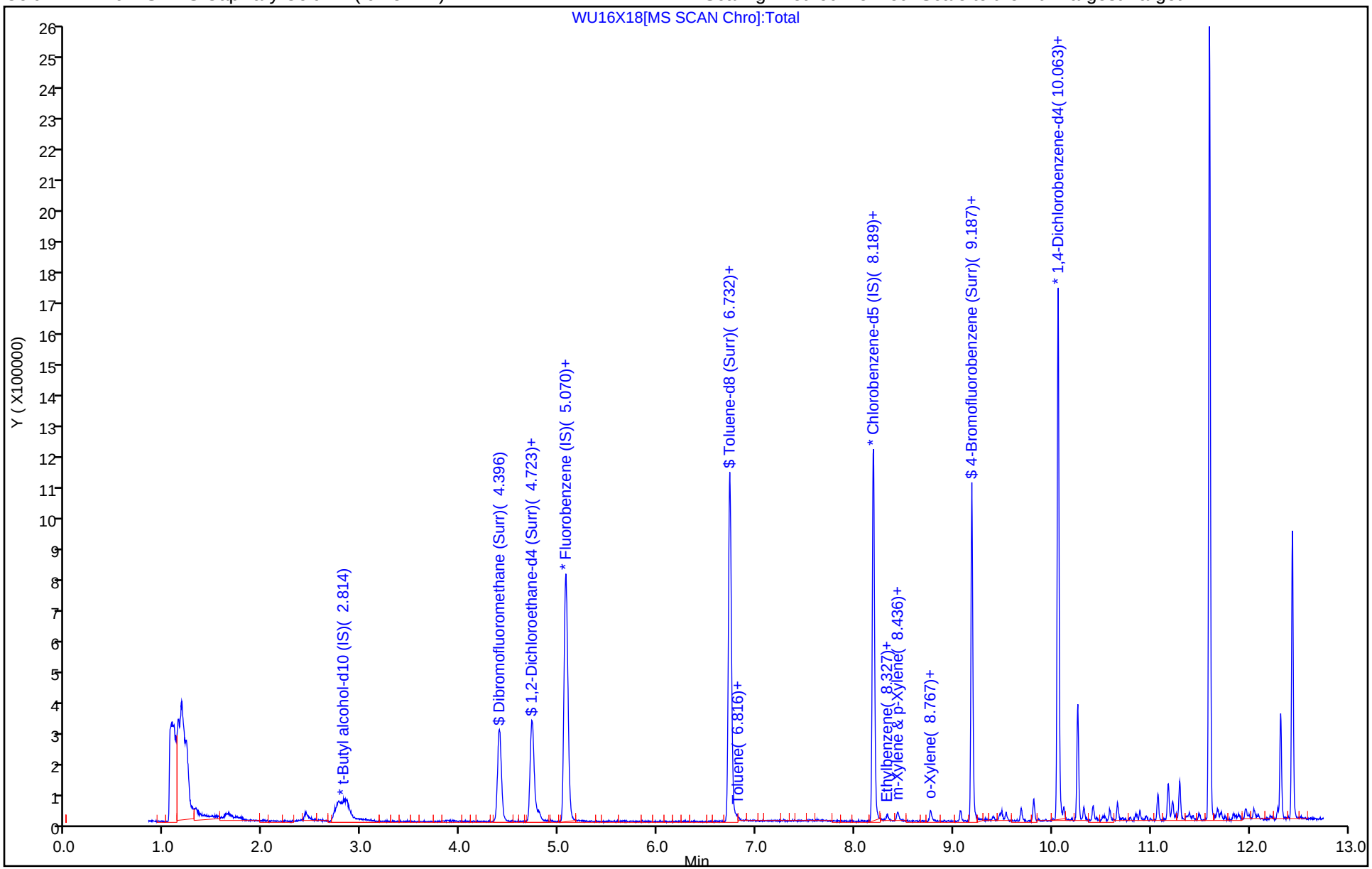
Report Date: 19-Jun-2023 09:53:52 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D

Injection Date:	16-Jun-2023 14:53:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-7	Lab Sample ID:	410-130132-7	Worklist Smp#:	19
Client ID:	MW-13S-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D				
Lims ID:	410-130132-A-7				
Client ID:	MW-13S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 14:53:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0086790-019				
Operator ID:	lcp00895	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	19-Jun-2023 09:52:20	Calib Date:	08-Mar-2023 21:27:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

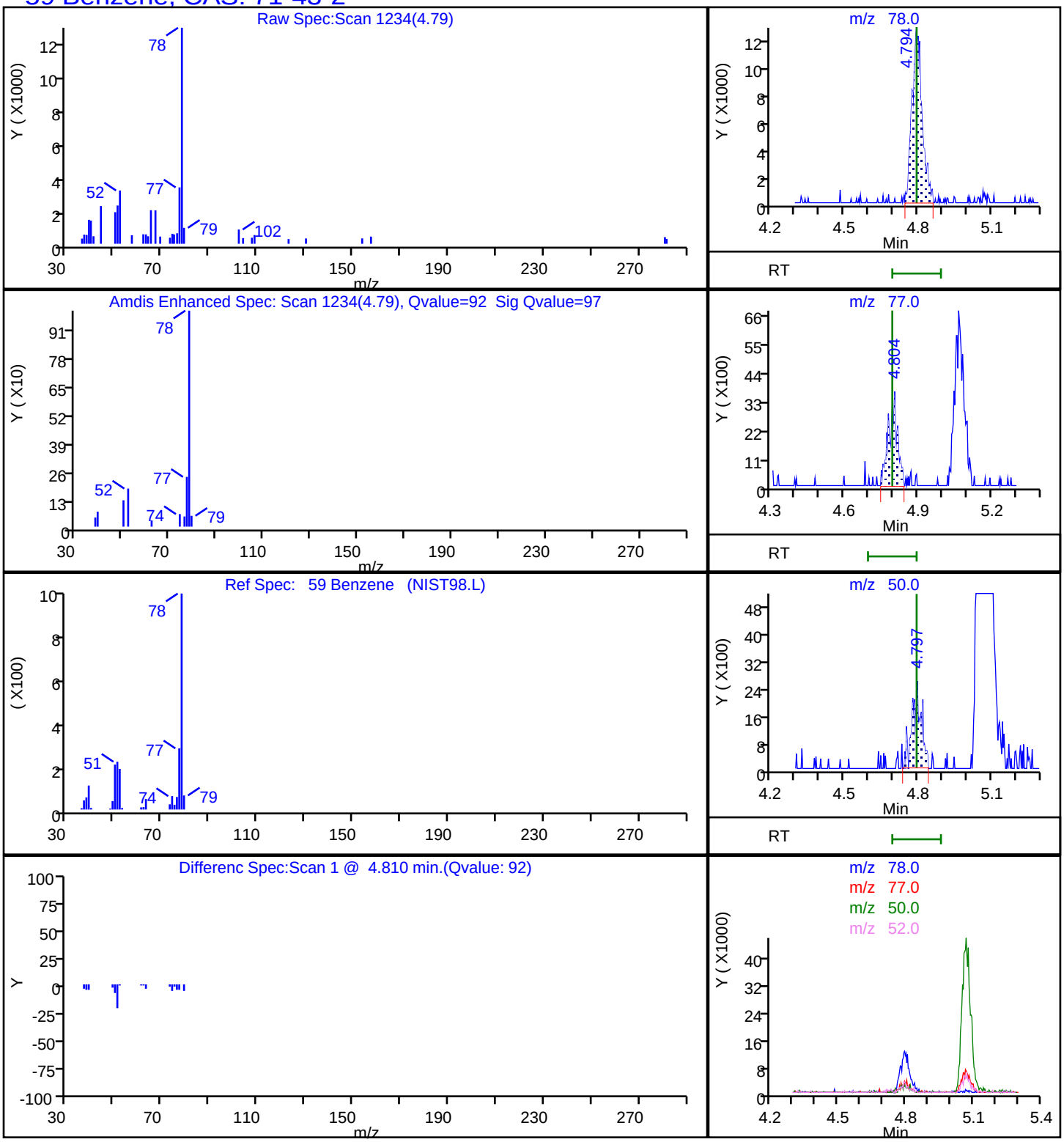
First Level Reviewer: innoonk Date: 19-Jun-2023 09:53:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	50.3	100.54
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.5	101.05
$ 82 Toluene-d8 (Surr)	50.0	52.6	105.19
$ 110 4-Bromofluorobenzene (Surr)	50.0	45.7	91.50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D				
Injection Date:	16-Jun-2023 14:53:30	Instrument ID:	9137		
Lims ID:	410-130132-A-7	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	lcp00895	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

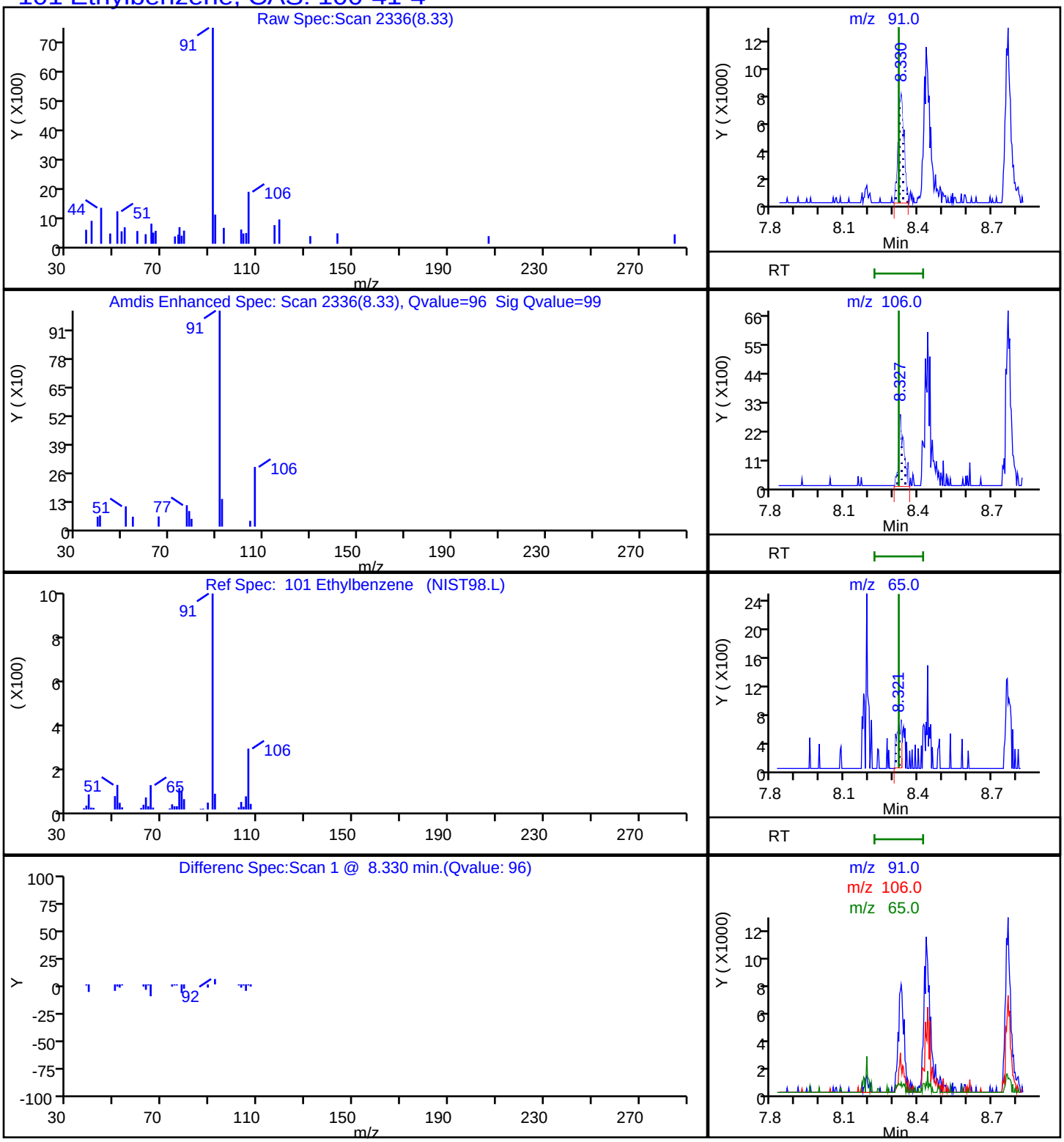
59 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D				
Injection Date:	16-Jun-2023 14:53:30	Instrument ID:	9137		
Lims ID:	410-130132-A-7	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	lcp00895	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

101 Ethylbenzene, CAS: 100-41-4



Report Date: 19-Jun-2023 09:53:52 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D

Injection Date: 16-Jun-2023 14:53:30 Instrument ID: 9137

Lims ID: 410-130132-A-7 Lab Sample ID: 410-130132-7

Client ID: MW-13S-20230608

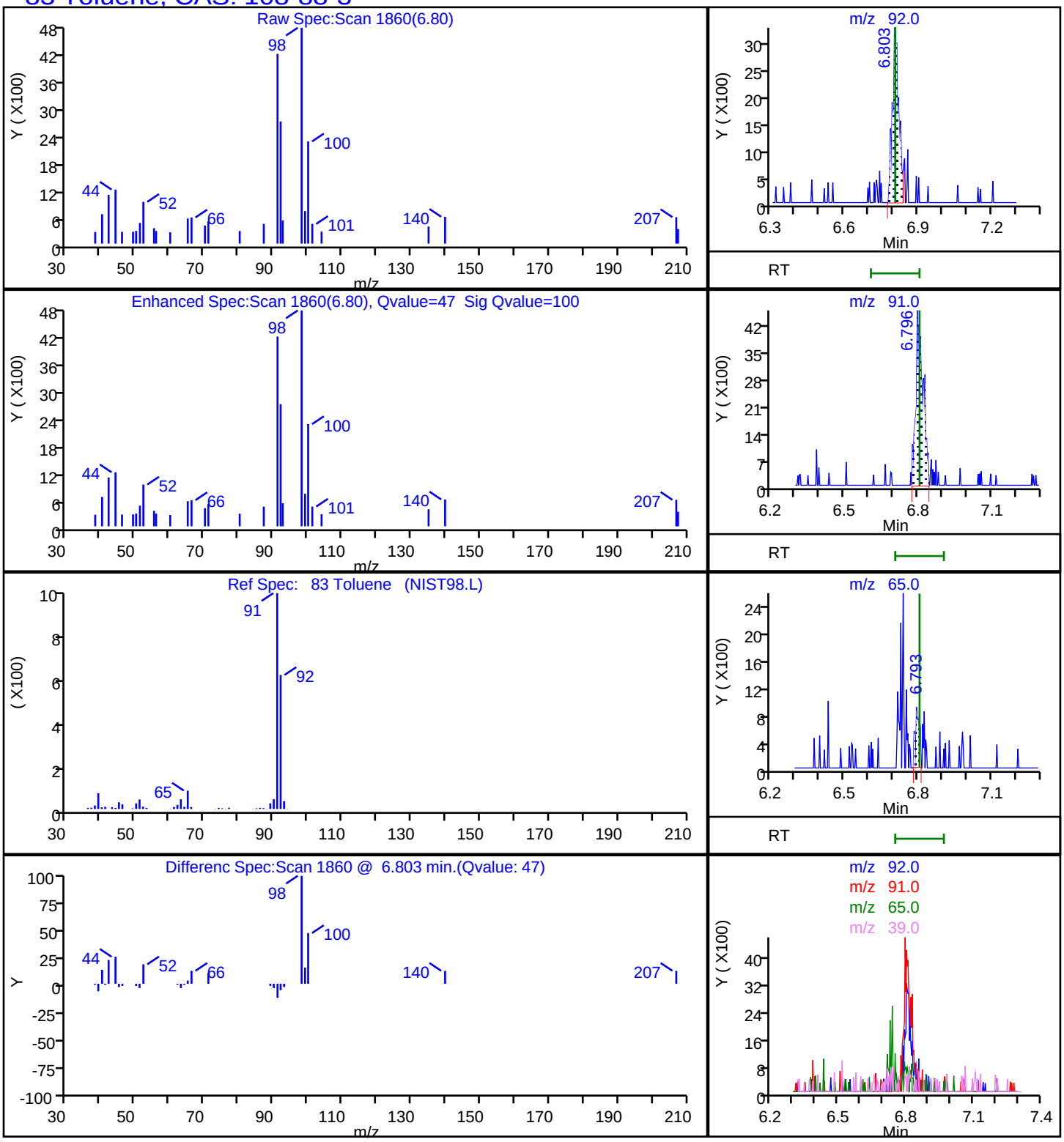
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

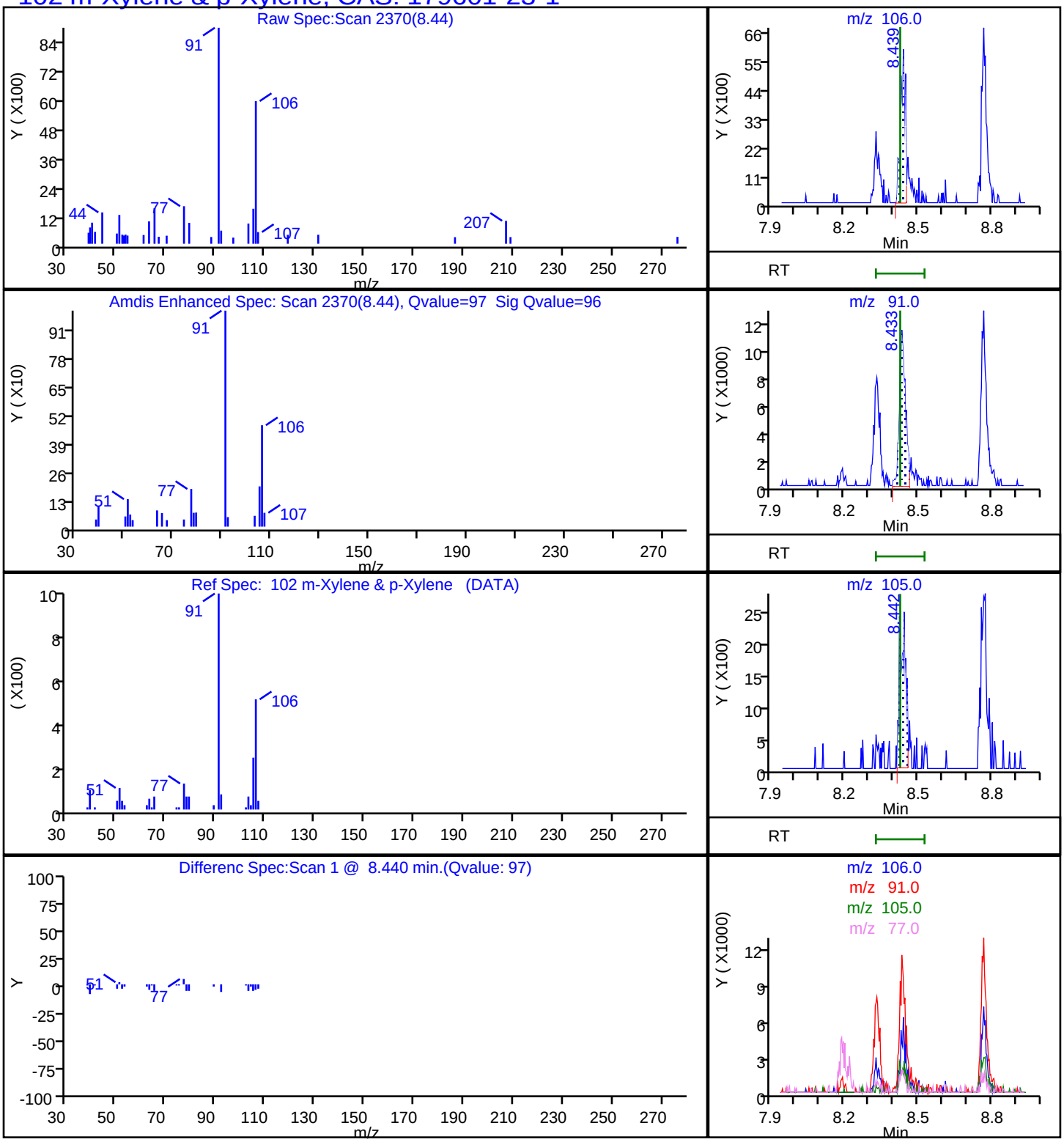
83 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D				
Injection Date:	16-Jun-2023 14:53:30	Instrument ID:	9137		
Lims ID:	410-130132-A-7	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	lcp00895	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

102 m-Xylene & p-Xylene, CAS: 179601-23-1



Report Date: 19-Jun-2023 09:53:52 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X18.D

Injection Date: 16-Jun-2023 14:53:30 Instrument ID: 9137

Lims ID: 410-130132-A-7 Lab Sample ID: 410-130132-7

Client ID: MW-13S-20230608

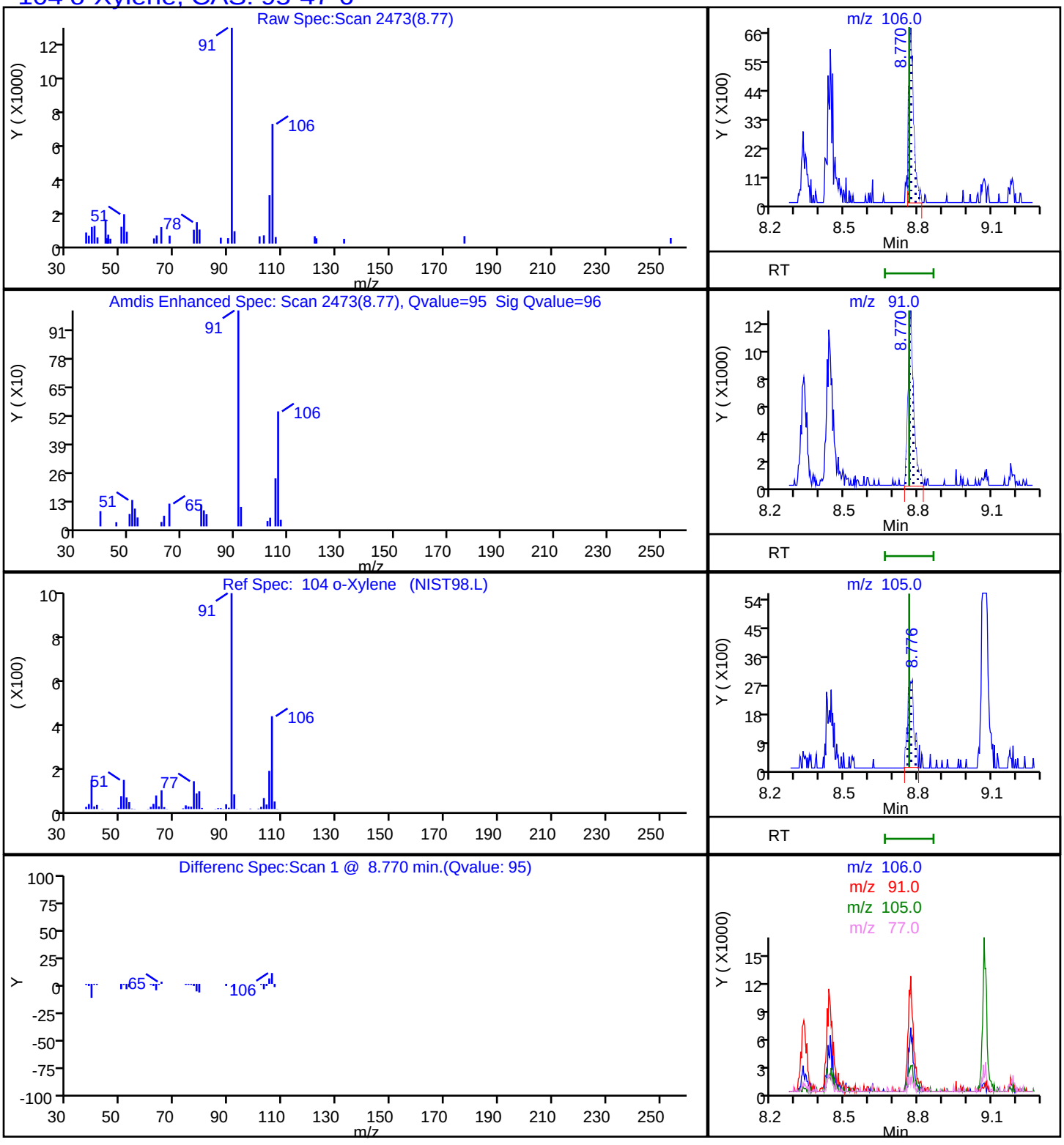
Operator ID: lcp00895 ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

104 o-Xylene, CAS: 95-47-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-13D-20230608
Lab Sample ID: 410-130132-8

Matrix: Water
Lab File ID: WU16X19.D

Analysis Method: 8260D
Date Collected: 06/08/2023 09:27

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 15:13

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X19.D
Lims ID: 410-130132-A-8
Client ID: MW-13D-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:13:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-020
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.833	2.791	0.042	31	371034	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.393	4.399	-0.006	94	272258	50.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	69	70764	51.9	
59 Benzene	78		4.794				ND	
* 63 Fluorobenzene (IS)	96	5.073	5.076	-0.003	99	1109114	50.0	
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	95	988890	52.5	
83 Toluene	92		6.806				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.186	8.189	-0.003	88	696118	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	7
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	90	317604	45.7	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	96	394880	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

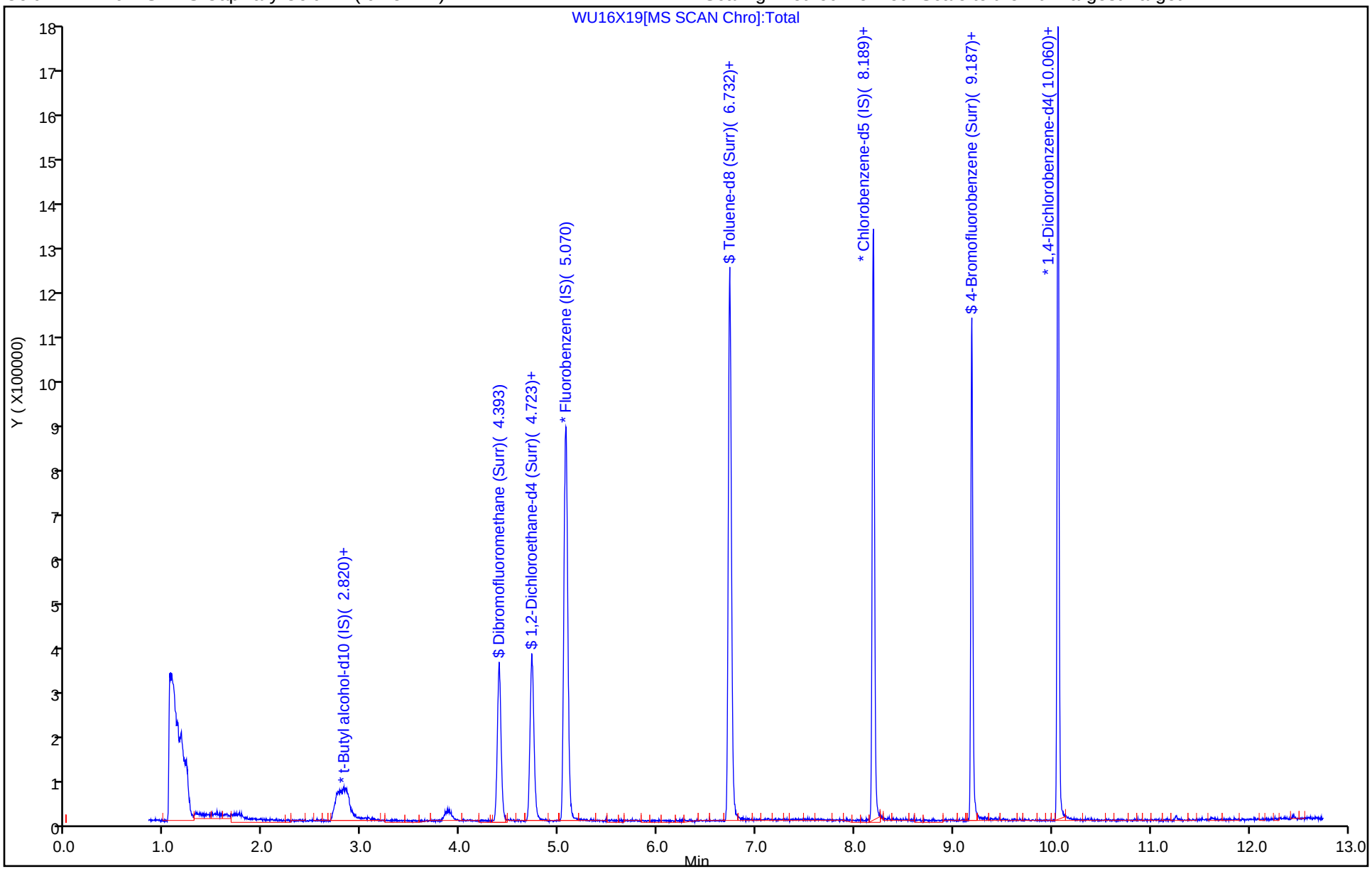
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 09:54:03 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X19.D				
Injection Date:	16-Jun-2023 15:13:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-8	Lab Sample ID:	410-130132-8	Worklist Smp#:	20
Client ID:	MW-13D-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X19.D
Lims ID: 410-130132-A-8
Client ID: MW-13D-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:13:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-020
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	50.0	100.05
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.9	103.82
$ 82 Toluene-d8 (Surr)	50.0	52.5	105.06
$ 110 4-Bromofluorobenzene (Surr)	50.0	45.7	91.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-1-20230608
Lab Sample ID: 410-130132-9

Matrix: Water
Lab File ID: WU16X20.D

Analysis Method: 8260D
Date Collected: 06/08/2023 10:35

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 15:32

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X20.D
Lims ID: 410-130132-A-9
Client ID: MW-1-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:32:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-021
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.827	2.791	0.036	50	351339	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.390	4.399	-0.009	92	264270	51.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.723	4.730	-0.007	70	70713	54.9	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.067	5.076	-0.009	99	1047744	50.0	
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	94	914200	52.2	
83 Toluene	92		6.806				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.186	8.189	-0.003	87	647957	50.0	
101 Ethylbenzene	91		8.320				ND	
102 m-Xylene & p-Xylene	106		8.426				ND	
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	91	293462	45.4	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	96	368615	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

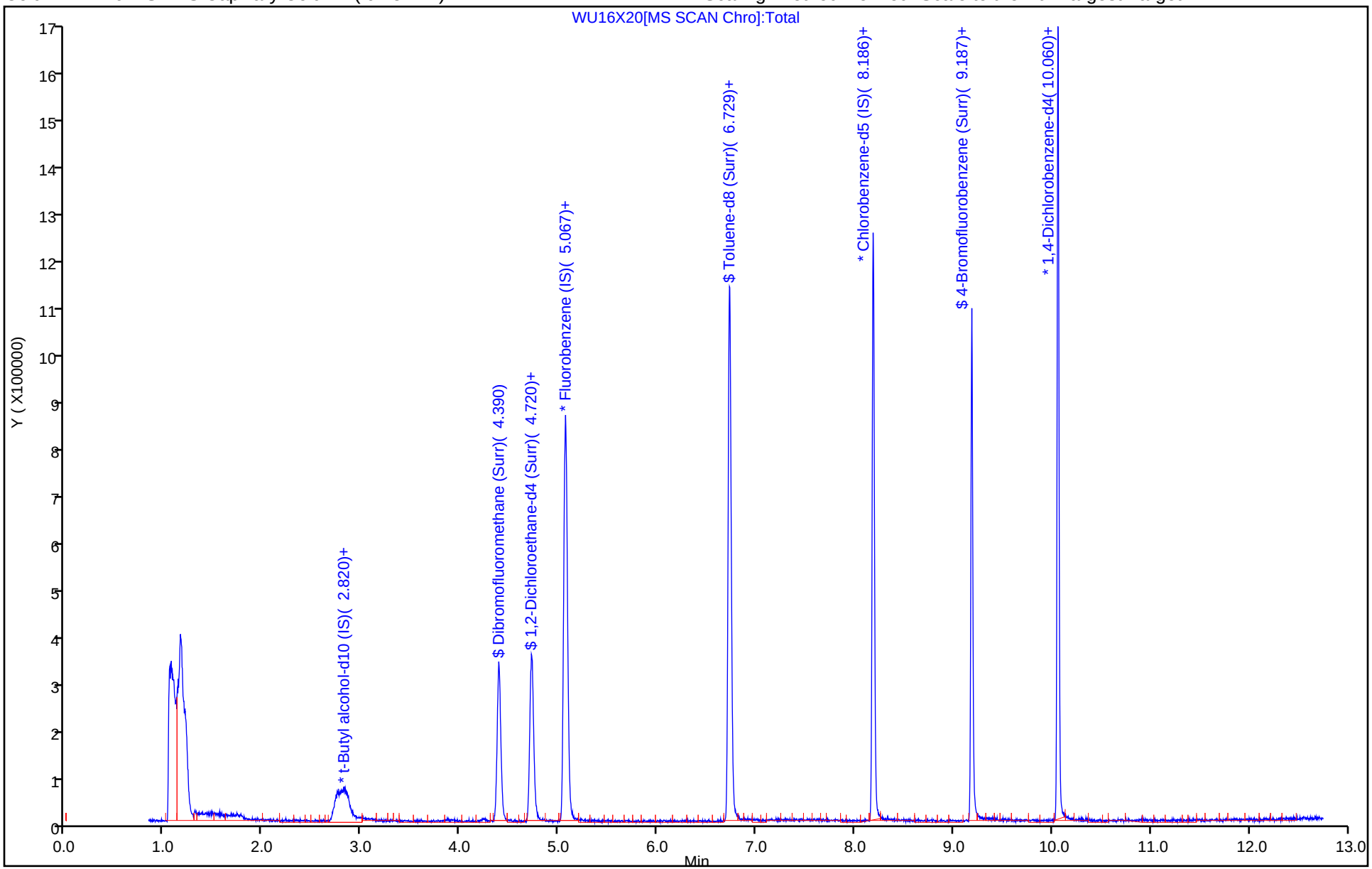
Report Date: 19-Jun-2023 09:54:18 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X20.D

Injection Date:	16-Jun-2023 15:32:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-9	Lab Sample ID:	410-130132-9	Worklist Smp#:	21
Client ID:	MW-1-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X20.D
Lims ID: 410-130132-A-9
Client ID: MW-1-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:32:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-021
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.4	102.81
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	54.9	109.82
$ 82 Toluene-d8 (Surr)	50.0	52.2	104.35
$ 110 4-Bromofluorobenzene (Surr)	50.0	45.4	90.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-4S-20230608
Lab Sample ID: 410-130132-10

Matrix: Water
Lab File ID: WU16X21.D

Analysis Method: 8260D
Date Collected: 06/08/2023 11:34

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 15:52

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X21.D
Lims ID: 410-130132-A-10
Client ID: MW-4S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:52:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-022
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.846	2.791	0.055	30	353770	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.406	4.399	0.007	94	260280	51.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.730	0.003	70	66442	52.0	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	98	1039776	50.0	
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	95	932181	52.0	
83 Toluene	92		6.806				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	662864	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	90	300883	45.5	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	96	374238	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

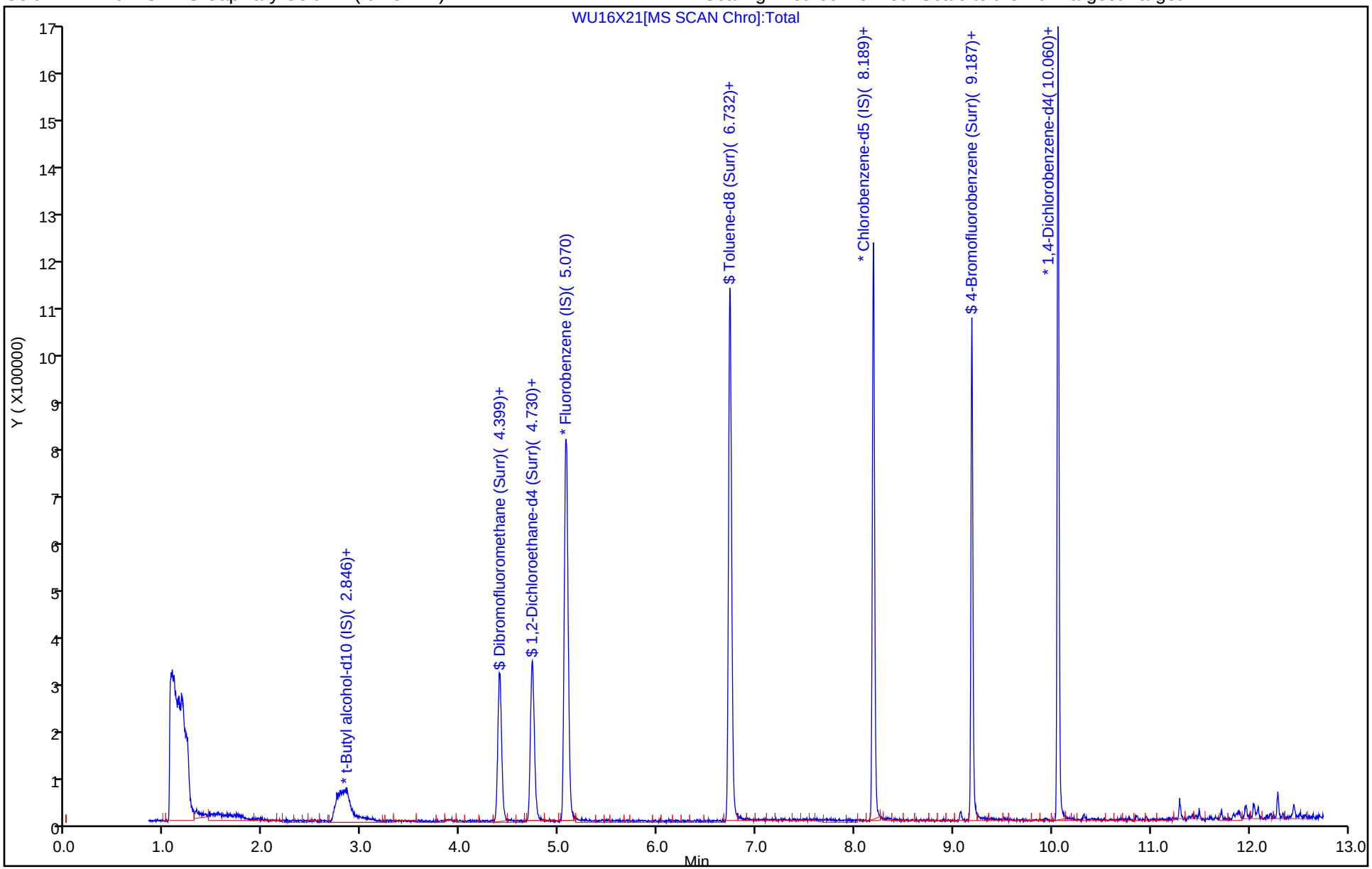
Report Date: 19-Jun-2023 09:54:29 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X21.D

Injection Date:	16-Jun-2023 15:52:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-10	Lab Sample ID:	410-130132-10	Worklist Smp#:	22
Client ID:	MW-4S-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X21.D
Lims ID: 410-130132-A-10
Client ID: MW-4S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:52:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-022
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.0	102.03
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.0	103.98
$ 82 Toluene-d8 (Surr)	50.0	52.0	104.01
$ 110 4-Bromofluorobenzene (Surr)	50.0	45.5	90.95

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-7S-20230608
Lab Sample ID: 410-130132-11

Matrix: Water
Lab File ID: WU16X09.D

Analysis Method: 8260D
Date Collected: 06/08/2023 12:53

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 11:55

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X09.D
Lims ID: 410-130132-A-11
Client ID: MW-7S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 11:55:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-010
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:49:39 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:49:39

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
A	1 C4-C10	1		(0.000-0.100)				ND	
A	2 C4-C12	1		(0.000-0.250)				ND	
	3 Chlorotrifluoroethene	116		1.280				ND	
	4 Chlorodifluoromethane	51	1.309	1.303	0.006	20	12697	1.34	M
	5 Dichlorodifluoromethane	85		1.319				ND	7
	6 Chloromethane	50		1.453				ND	7
	8 Vinyl chloride	62		1.530				ND	U
	7 Butadiene	39		1.534				ND	7
	9 2-Chloro-1,1,1-Trifluoroethane	118		1.550				ND	
	10 Bromomethane	94		1.758				ND	7
	11 Chloroethane	64		1.797				ND	7
	12 Dichlorofluoromethane	67	1.941	1.948	-0.007	57	13478	0.7892	
	14 Pentane	43		1.999				ND	U
	13 Trichlorofluoromethane	101		2.021				ND	
	16 Ethanol	45		2.095				ND	7
	15 Ethyl ether	59		2.131				ND	
	17 1,2-Dichloro-1,1,2-trifluoroetha	67		2.185				ND	
	18 Acrolein	56		2.249				ND	
	19 1,1-Dichloroethene	96		2.352				ND	
	21 Acetone	58		2.374				ND	U
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.390				ND	
	22 Isopropyl alcohol	45		2.490				ND	
	23 Iodomethane	142		2.490				ND	
	24 Carbon disulfide	76		2.573				ND	7
	25 Acetonitrile	41		2.628				ND	7
	26 3-Chloro-1-propene	41		2.641				ND	7
	27 Methyl acetate	43		2.660				ND	7
T	28 Acetonitrile TIC	41	2.654	2.666	-0.012	49	260	0.0122	
	29 Methylene Chloride	84		2.756				ND	
*	30 t-Butyl alcohol-d10 (IS)	65	2.820	2.791	0.029	58	303397	250.0	
	31 2-Methyl-2-propanol	59		2.888				ND	
	32 Acrylonitrile	53		2.965				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		3.000				ND	7
34 Methyl tert-butyl ether	73		3.006				ND	
35 Hexane	57		3.257				ND	
36 1,1-Dichloroethane	63		3.382				ND	7
37 Vinyl acetate	43		3.440				ND	7
38 Isopropyl ether	45		3.459				ND	
39 2-Chloro-1,3-butadiene	53		3.469				ND	7
40 Tert-butyl ethyl ether	59		3.799				ND	
43 2-Butanone (MEK)	43		3.921				ND	7
41 cis-1,2-Dichloroethene	96		3.934				ND	7
42 2,2-Dichloropropane	77		3.953				ND	
44 Ethyl acetate	43		3.988				ND	7
45 Propionitrile	54		4.001				ND	
46 Methyl acrylate	55		4.024				ND	U
47 Methacrylonitrile	67		4.142				ND	
48 Chlorobromomethane	128		4.162				ND	
49 Tetrahydrofuran	71		4.213				ND	
50 Chloroform	83		4.239				ND	
$ 52 Dibromofluoromethane (Surr)	113	4.393	4.399	-0.006	93	268104	51.4	
53 1,1,1-Trichloroethane	97		4.438				ND	
54 Cyclohexane	56		4.502				ND	7
55 1,1-Dichloropropene	75		4.588				ND	
56 Carbon tetrachloride	117		4.595				ND	
57 Isobutyl alcohol	41		4.717				ND	7
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.723	4.730	-0.007	70	71895	55.0	
59 Benzene	78	4.804	4.794	0.010	70	8536	0.2921	
60 1,2-Dichloroethane	62		4.807				ND	7
61 Isopropyl acetate	43		4.868				ND	7
62 Tert-amyl methyl ether	73		4.919				ND	
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	98	1063318	50.0	
64 n-Heptane	43		5.083				ND	7
65 n-Butanol	56		5.375				ND	
66 Trichloroethene	95		5.448				ND	
67 Ethyl acrylate	55		5.564				ND	
68 Methylcyclohexane	83		5.660				ND	
69 1,2-Dichloropropane	63		5.673				ND	
70 2-ethoxy-2-methyl butane	87		5.728				ND	
71 Dibromomethane	93		5.792				ND	
72 1,4-Dioxane	88		5.805				ND	
73 Methyl methacrylate	69		5.811				ND	
74 n-Propyl acetate	61		5.875				ND	
75 Dichlorobromomethane	83		5.962				ND	
S 76 1,2-Dichloroethene, Total	100		6.155				ND	7
77 2-Nitropropane	41		6.203				ND	7
78 2-Chloroethyl vinyl ether	63		6.292				ND	
A 79 C6-C10	1	6.394	(2.952-9.836)		0	3664902	NC	
80 cis-1,3-Dichloropropene	75		6.446				ND	
81 4-Methyl-2-pentanone (MIBK)	43		6.620				ND	7
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	94	952117	51.4	
83 Toluene	92		6.806				ND	7
84 trans-1,3-Dichloropropene	75		7.050				ND	
A 85 C5-C12	1	7.153	(2.686-11.621)		0	4703167	NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69		7.172				ND	
87 1,1,2-Trichloroethane	97		7.242				ND	7
A 88 C6-C12	1	7.286	(2.952-11.621)		0	4104420	NC	
89 Tetrachloroethene	166		7.396				ND	
90 1,3-Dichloropropane	76		7.416				ND	7
91 3,4-Dichloro-1-butene	75		7.467				ND	U
92 t-Amyl alcohol	73		7.493				ND	
93 2-Hexanone	43		7.518				ND	7
94 Chlorodibromomethane	129		7.643				ND	
95 n-Butyl acetate	43		7.659				ND	7
96 Ethylene Dibromide	107		7.749				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	685504	50.0	
98 1-Chlorohexane	91		8.211				ND	U
99 Chlorobenzene	112		8.215				ND	
100 1,1,1,2-Tetrachloroethane	131		8.292				ND	
101 Ethylbenzene	91		8.320				ND	
102 m-Xylene & p-Xylene	106		8.426				ND	7
103 n-Butyl acrylate	55		8.747				ND	
104 o-Xylene	106		8.763				ND	
105 Styrene	104		8.776				ND	
106 Bromoform	173		8.917				ND	U
107 Isopropylbenzene	105	9.078	9.071	0.007	96	7485	0.2279	
108 cis-1,4-Dichloro-2-butene	88		9.116				ND	U
109 Cyclohexanone	55		9.139				ND	7
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	87	325029	47.5	
111 Bromobenzene	156		9.299				ND	
112 1,1,2,2-Tetrachloroethane	83		9.302				ND	7
113 1,2,3-Trichloropropane	110		9.331				ND	
114 trans-1,4-Dichloro-2-butene	53		9.347				ND	
115 N-Propylbenzene	91		9.395				ND	
116 2-Chlorotoluene	126		9.456				ND	
117 1,3,5-Trimethylbenzene	105		9.533				ND	7
118 4-Chlorotoluene	126		9.540				ND	
119 2,3,4-Trichlorobutene	109		9.582				ND	
120 tert-Butylbenzene	134		9.777				ND	
121 Pentachloroethane	167		9.787				ND	
122 1,2,4-Trimethylbenzene	105	9.819	9.813	0.006	28	5143	0.1764	
123 sec-Butylbenzene	105		9.938				ND	7
T 127 1,1,1-Trifluoro-2,2-dichloroetha	83	9.983	10.000	-0.017	1	122	0.005737	
T 128 1,3-Dichlorobutene-2(total) TIC	89	10.063	10.000	0.063	25	10960	0.5154	
T 129 2,3,4-Trichlorobutene TIC	109	10.040	10.000	0.040	0	62	0.002915	
T 130 1-Chlorobutane TIC	56	10.057	10.000	0.057	33	22322	1.05	
T 131 Tetranitromethane TIC	46		10.000				ND	
T 124 Ethyl Acetate TIC	43		10.000				ND	
T 125 Propionaldehyde TIC	58	10.037	10.000	0.037	1	121	0.005690	
T 126 2,3-Dichloro-1,3-butadiene TIC	51		10.000				ND	
T 137 n-Butyl acrylate TIC	55		10.000				ND	
T 134 1-Chloro-1,1-difluoroethane TIC	65	10.050	10.000	0.050	15	502	0.0236	
T 135 tert-amyl alcohol TIC	59		10.000				ND	
T 141 Isooctane TIC	57		10.000				ND	
T 132 1,1-Dichloro-1-fluoroethane TIC	81		10.000				ND	
T 139 1,2-Dichlorofluoroethane TIC	81	9.973	10.000	-0.027	1	94	0.004420	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 133 Freon 115 TIC	85		10.000				ND	
T 142 Dichloro-1,1,2,2-tetrafluoroetha	85		10.000				ND	
T 213 Methyl Isothiocyanate TIC	73	10.050	10.000	0.050	1	1049	0.0493	
T 136 Vinyl Fluoride TIC	46	9.460	10.000	-0.540	17	236	0.0111	
T 140 Ethylene oxide TIC	43	10.169	10.000	0.169	61	312	0.0147	
T 154 1,1,1-Trichloro-2,2,2-trifluoroe	151		10.000				ND	
T 157 Fluoromethane TIC	34		10.000				ND	
T 149 Propane TIC	43		10.000				ND	
T 150 Hexachloroethane TIC	117	10.060	10.000	0.060	1	50464	2.37	
T 151 Chlorofluoromethane TIC	68	9.989	10.000	-0.011	1	50	0.002351	
T 152 1,1,2-Trifluoroethane TIC	51		10.000				ND	
T 145 Ethyl acrylate TIC	55	10.028	10.000	0.028	1	108	0.005078	
T 146 Epichlorohydrin TIC	57		10.000				ND	
T 147 Bromoethane TIC	108	10.063	10.000	0.063	19	1803	0.0848	
T 148 Propene oxide TIC	58		10.000				ND	
T 158 1-Bromo-2-chloroethane TIC	63	10.057	10.000	0.057	1	8819	0.4147	
T 156 Vinyl acetate (TIC)	43		10.000				ND	
T 138 Chloroacetaldehyde TIC	50	10.063	10.000	0.063	42	25449	1.20	
T 159 Propanol TIC	59	10.050	10.000	0.050	4	329	0.0155	
T 160 divinyl benzene TIC	131	10.089	10.000	0.089	1	49	0.002304	
T 153 Diethoxymethane TIC	59	10.050	10.000	0.050	1	329	0.0155	
T 144 4-Ethyltoluene TIC	105	9.960	10.000	-0.040	1	58	0.002727	
T 143 n-Nonane TIC	43		10.000				ND	
T 155 Allyl Alcohol TIC	57		10.000				ND	
161 1,3-Dichlorobenzene	146		10.015				ND	7
162 4-Isopropyltoluene	119		10.044				ND	7
S 164 1,3-Dichloropropene, Total	100		10.060				ND	7
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	393805	50.0	
165 1,4-Dichlorobenzene	146		10.079				ND	7
166 1,2,3-Trimethylbenzene	105		10.117				ND	7
167 Benzyl chloride	91		10.175				ND	7
168 1,3-Diethylbenzene	119		10.259				ND	7
169 p-Diethylbenzene	119		10.320				ND	7
170 n-Butylbenzene	92		10.336				ND	
171 1,2-Dichlorobenzene	146		10.345				ND	
172 o-diethylbenzene	119		10.400				ND	7
173 1,2-Dibromo-3-Chloropropane	75		10.878				ND	7
174 1,3,5-Trichlorobenzene	180		11.026				ND	
S 175 Xylenes, Total	106		11.245				ND	7
176 1,2,4-Trichlorobenzene	180		11.436				ND	
177 Hexachlorobutadiene	225		11.545				ND	
178 2-Ethylhexyl acrylate	55		11.549				ND	U
179 Naphthalene	128		11.597				ND	7
180 1,2,3-Trichlorobenzene	180		11.754				ND	
181 2-Methylnaphthalene	142		12.319				ND	7
182 Hexachloroethane	201		13.560				ND	
183 tert-Butyl Formate	1		0.000				ND	
186 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
187 1,4-Divinylbenzene	1		0.000				ND	
188 Diethoxymethane	1		0.000				ND	
189 sec-Butyl Alcohol	45		0.000				ND	
190 4-Ethyltoluene	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
191 Undecane	1		0.000				ND	
S 192 Total Diethylbenzene	1		0.000				ND	7
193 1-Bromo-2-chloroethane	1		0.000				ND	
194 Isobutyl acetate	43		0.000				ND	
195 Propanol	1		0.000				ND	
196 3-Methyl-1-butene	1		0.000				ND	
197 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
198 Propene oxide	1		0.000				ND	
199 1,3-Divinylbenzene	1		0.000				ND	
200 Ethyl bromide	1		0.000				ND	
201 n-Octane	1		0.000				ND	
S 202 divinyl benzene	1		0.000				ND	7
203 1-Chlorobutane	1		0.000				ND	
204 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
205 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
S 206 Total BTEX	1		0.000				ND	
207 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
208 Methylal	1		0.000				ND	
209 Chloroacetonitrile	1		0.000				ND	
210 3-chloro-1-Butene	1		0.000				ND	
212 n-Nonane	1		0.000				ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

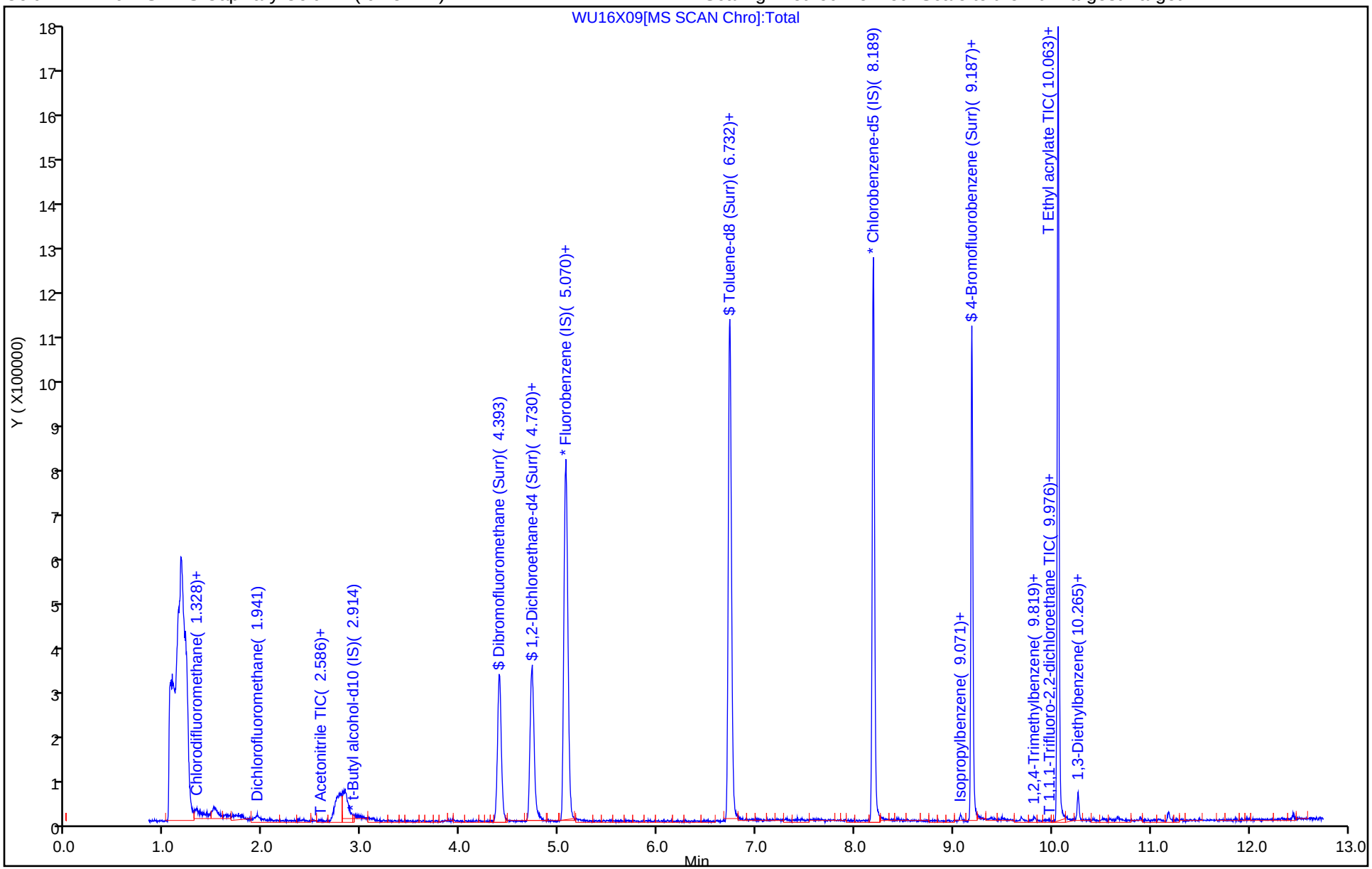
Report Date: 19-Jun-2023 09:49:39 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X09.D

Injection Date:	16-Jun-2023 11:55:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-11	Lab Sample ID:	410-130132-11	Worklist Smp#:	10
Client ID:	MW-7S-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X09.D				
Lims ID:	410-130132-A-11				
Client ID:	MW-7S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 11:55:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0086790-010				
Operator ID:	lcp00895	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	19-Jun-2023 09:49:39	Calib Date:	08-Mar-2023 21:27:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

First Level Reviewer: innoonk Date: 19-Jun-2023 09:49:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.4	102.77
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	55.0	110.02
$ 82 Toluene-d8 (Surr)	50.0	51.4	102.72
$ 110 4-Bromofluorobenzene (Surr)	50.0	47.5	95.01

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-10S-20230608
Lab Sample ID: 410-130132-12

Matrix: Water
Lab File ID: WU16X22.D

Analysis Method: 8260D
Date Collected: 06/08/2023 14:28

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 16:12

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X22.D
Lims ID: 410-130132-A-12
Client ID: MW-10S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 16:12:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-023
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.824	2.791	0.033	3	359376	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	93	258239	50.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.720	4.730	-0.010	69	66026	51.4	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	99	1045535	50.0	
$ 82 Toluene-d8 (Surr)	98	6.729	6.735	-0.006	94	927644	53.3	
83 Toluene	92		6.806				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	643445	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	7
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	88	304361	47.4	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	370493	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

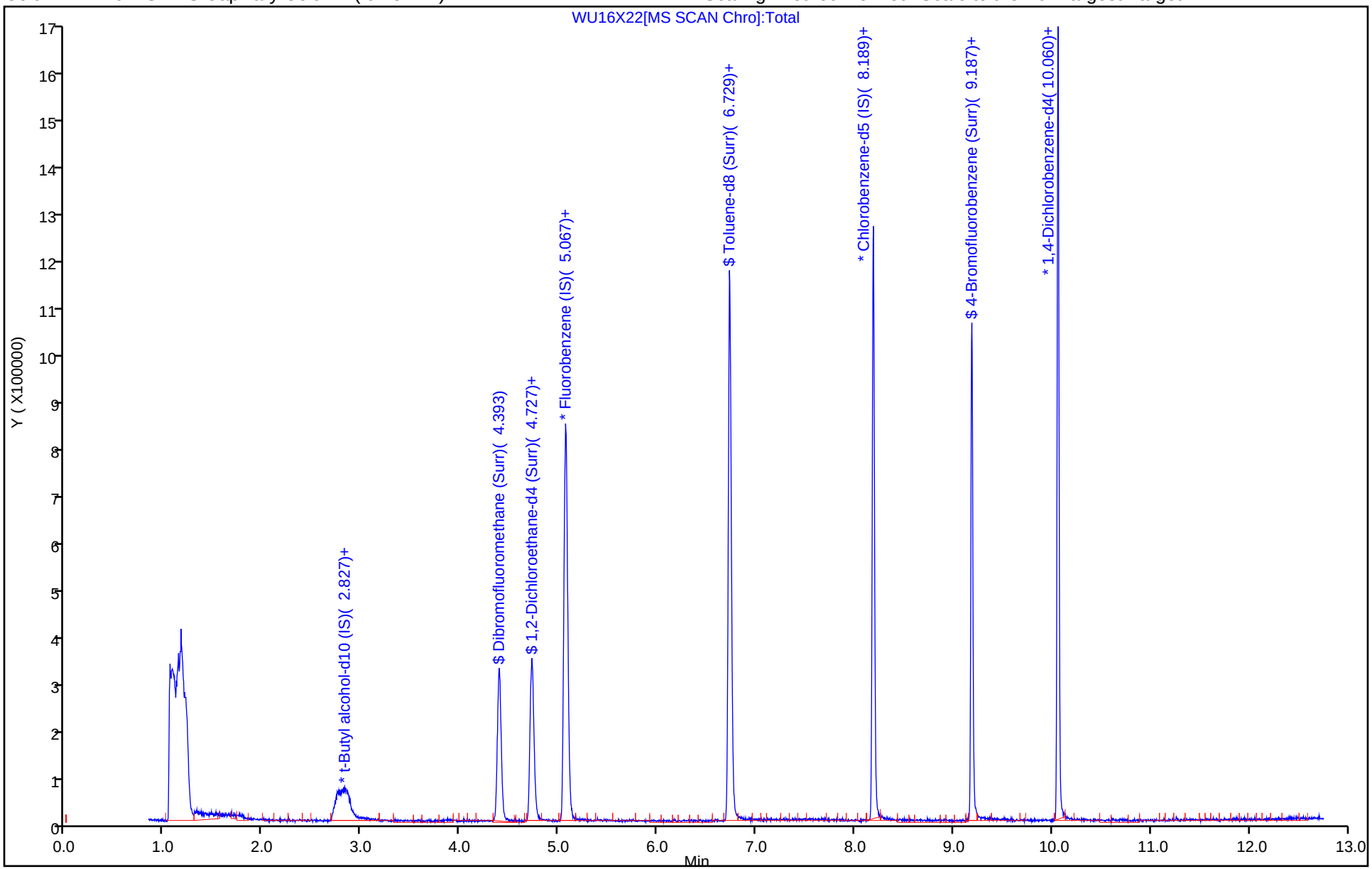
Report Date: 19-Jun-2023 09:54:40 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X22.D

Injection Date:	16-Jun-2023 16:12:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-12	Lab Sample ID:	410-130132-12	Worklist Smp#:	23
Client ID:	MW-10S-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X22.D				
Lims ID:	410-130132-A-12				
Client ID:	MW-10S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 16:12:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0086790-023				
Operator ID:	lcp00895	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	19-Jun-2023 09:52:20	Calib Date:	08-Mar-2023 21:27:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	50.3	100.67
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.4	102.76
$ 82 Toluene-d8 (Surr)	50.0	53.3	106.63
$ 110 4-Bromofluorobenzene (Surr)	50.0	47.4	94.78

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-14S-20230608
Lab Sample ID: 410-130132-13

Matrix: Water
Lab File ID: WU16X23.D

Analysis Method: 8260D
Date Collected: 06/08/2023 15:20

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 16:32

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X23.D
Lims ID: 410-130132-A-13
Client ID: MW-14S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 16:32:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-024
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.811	2.791	0.020	20	362328	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	94	259418	51.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.730	0.003	70	67167	52.7	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.067	5.076	-0.009	98	1036762	50.0	
$ 82 Toluene-d8 (Surr)	98	6.732	6.735	-0.003	94	924107	52.0	
83 Toluene	92		6.806				ND	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	657057	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	7
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	89	300587	45.8	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	364455	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

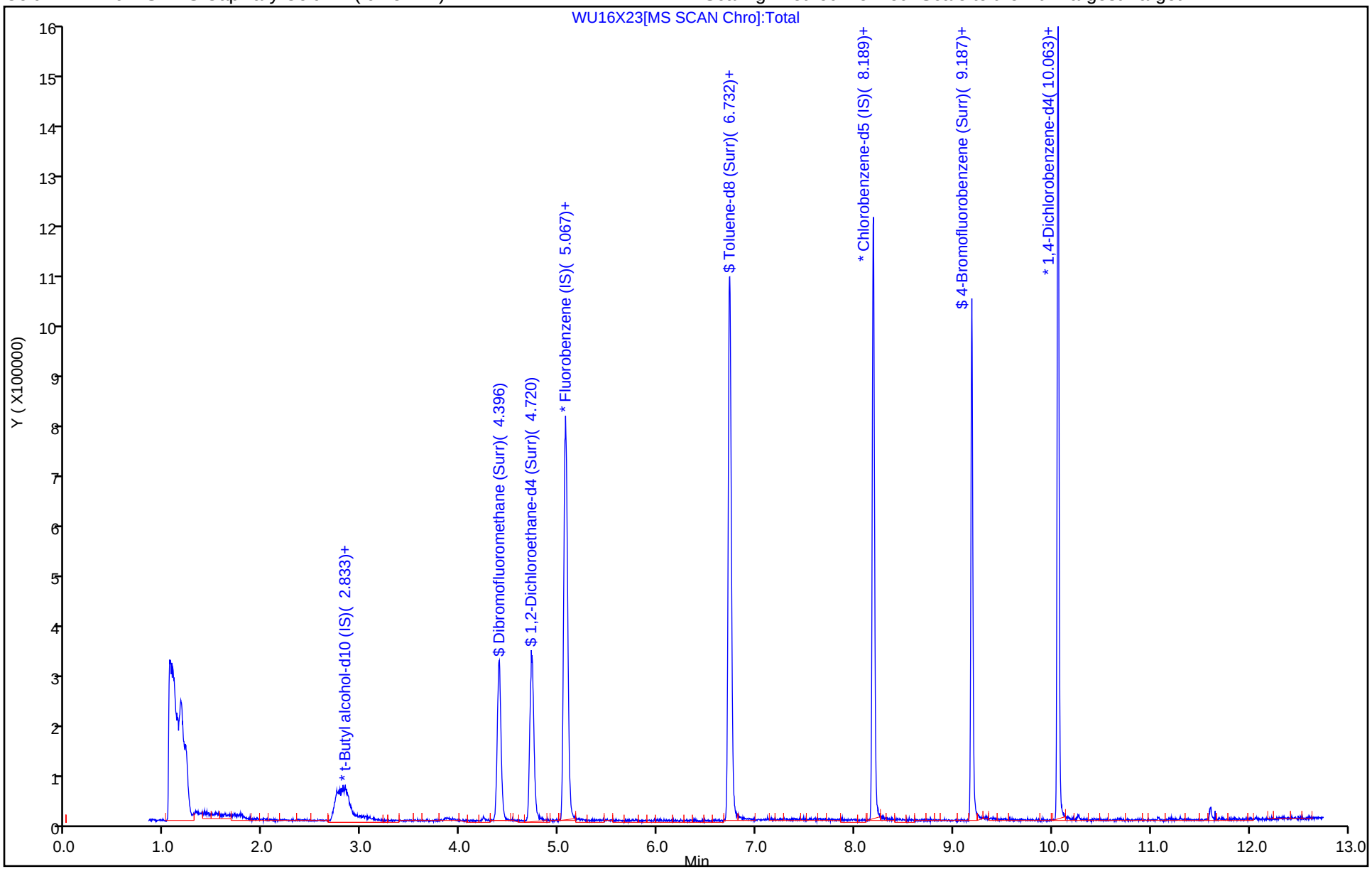
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 09:54:51 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X23.D				
Injection Date:	16-Jun-2023 16:32:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-13	Lab Sample ID:	410-130132-13	Worklist Smp#:	24
Client ID:	MW-14S-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X23.D
Lims ID: 410-130132-A-13
Client ID: MW-14S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 16:32:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-024
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:54:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.0	101.99
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.42
$ 82 Toluene-d8 (Surr)	50.0	52.0	104.02
$ 110 4-Bromofluorobenzene (Surr)	50.0	45.8	91.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: FB-20230608
Lab Sample ID: 410-130132-14

Matrix: Water
Lab File ID: WU16X24.D

Analysis Method: 8260D
Date Collected: 06/08/2023 12:40

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 16:51

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X24.D
Lims ID: 410-130132-A-14
Client ID: FB-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 16:51:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-025
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:55:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.808	2.791	0.017	32	360052	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	93	265576	51.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	69	67341	52.2	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.073	5.076	-0.003	98	1049448	50.0	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	94	918902	52.8	
83 Toluene	92		6.806				ND	7
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	643658	50.0	
101 Ethylbenzene	91		8.320				ND	
102 m-Xylene & p-Xylene	106		8.426				ND	
104 o-Xylene	106		8.763				ND	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	90	295648	46.0	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	365026	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

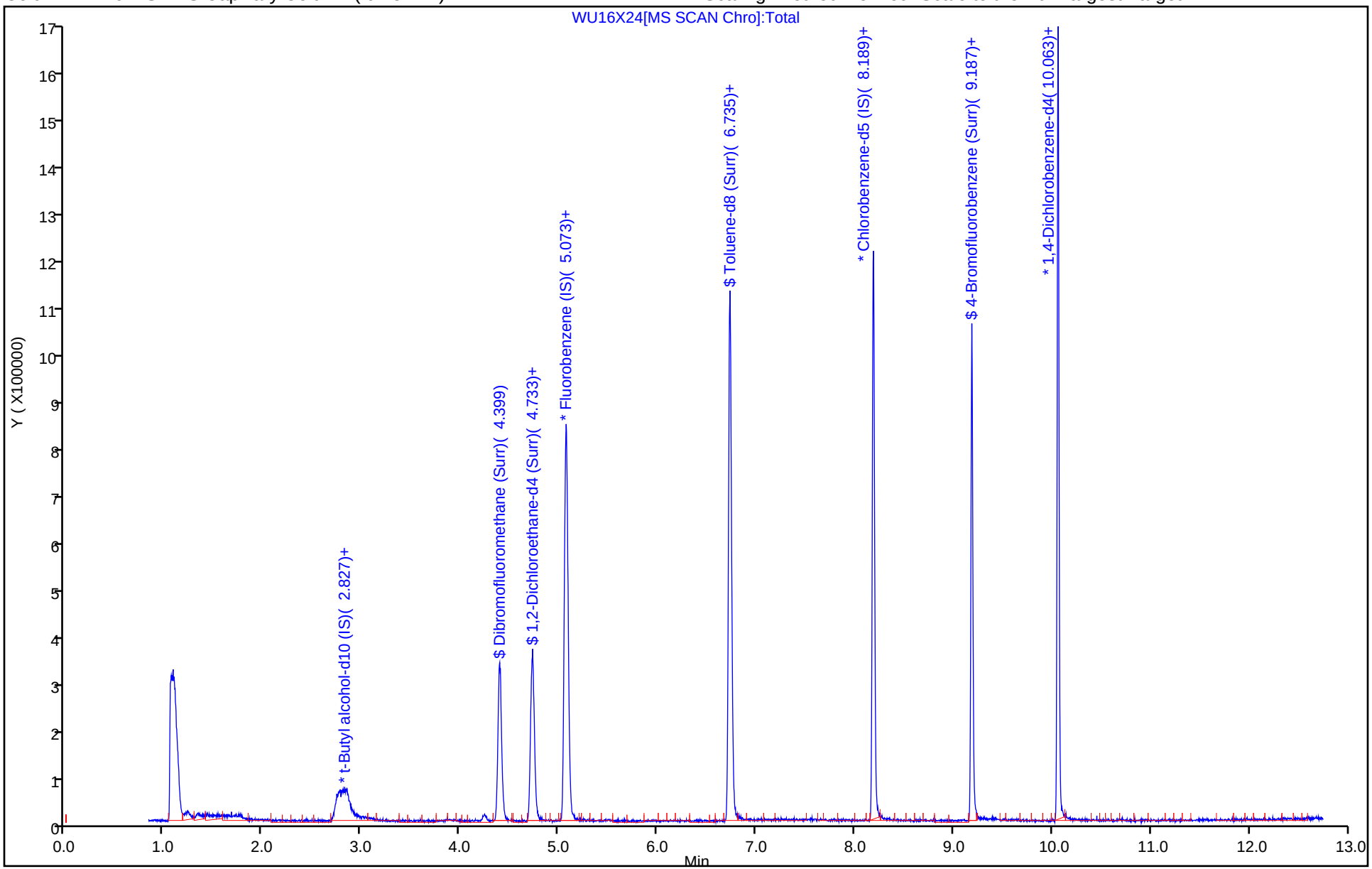
Report Date: 19-Jun-2023 09:55:02 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X24.D

Injection Date:	16-Jun-2023 16:51:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-14	Lab Sample ID:	410-130132-14	Worklist Smp#:	25
Client ID:	FB-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X24.D				
Lims ID:	410-130132-A-14				
Client ID:	FB-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 16:51:30	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0086790-025				
Operator ID:	lcp00895	Instrument ID:	9137		
Method:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m				
Limit Group:	MSV - 8260C_D				
Last Update:	19-Jun-2023 09:52:20	Calib Date:	08-Mar-2023 21:27:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1679				

First Level Reviewer: innoonk Date: 19-Jun-2023 09:55:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.6	103.15
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.2	104.41
$ 82 Toluene-d8 (Surr)	50.0	52.8	105.59
$ 110 4-Bromofluorobenzene (Surr)	50.0	46.0	92.04

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: TB-20230608
Lab Sample ID: 410-130132-15

Matrix: Water
Lab File ID: WU16X08.D

Analysis Method: 8260D
Date Collected: 06/08/2023 00:00

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 11:35

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X08.D
Lims ID: 410-130132-A-15
Client ID: TB-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 11:35:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-009
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:46:27 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:47:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 30 t-Butyl alcohol-d10 (IS)	65	2.817	2.791	0.026	38	376524	250.0	
$ 52 Dibromofluoromethane (Surr)	113	4.406	4.399	0.007	93	264472	51.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	70	69184	53.3	
59 Benzene	78		4.794				ND	7
* 63 Fluorobenzene (IS)	96	5.079	5.076	0.003	98	1056750	50.0	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	94	942865	50.4	
83 Toluene	92		6.806				ND	7
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	691537	50.0	
101 Ethylbenzene	91		8.320				ND	7
102 m-Xylene & p-Xylene	106		8.426				ND	
104 o-Xylene	106		8.763				ND	7
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	89	323459	46.9	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	393169	50.0	
S 175 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

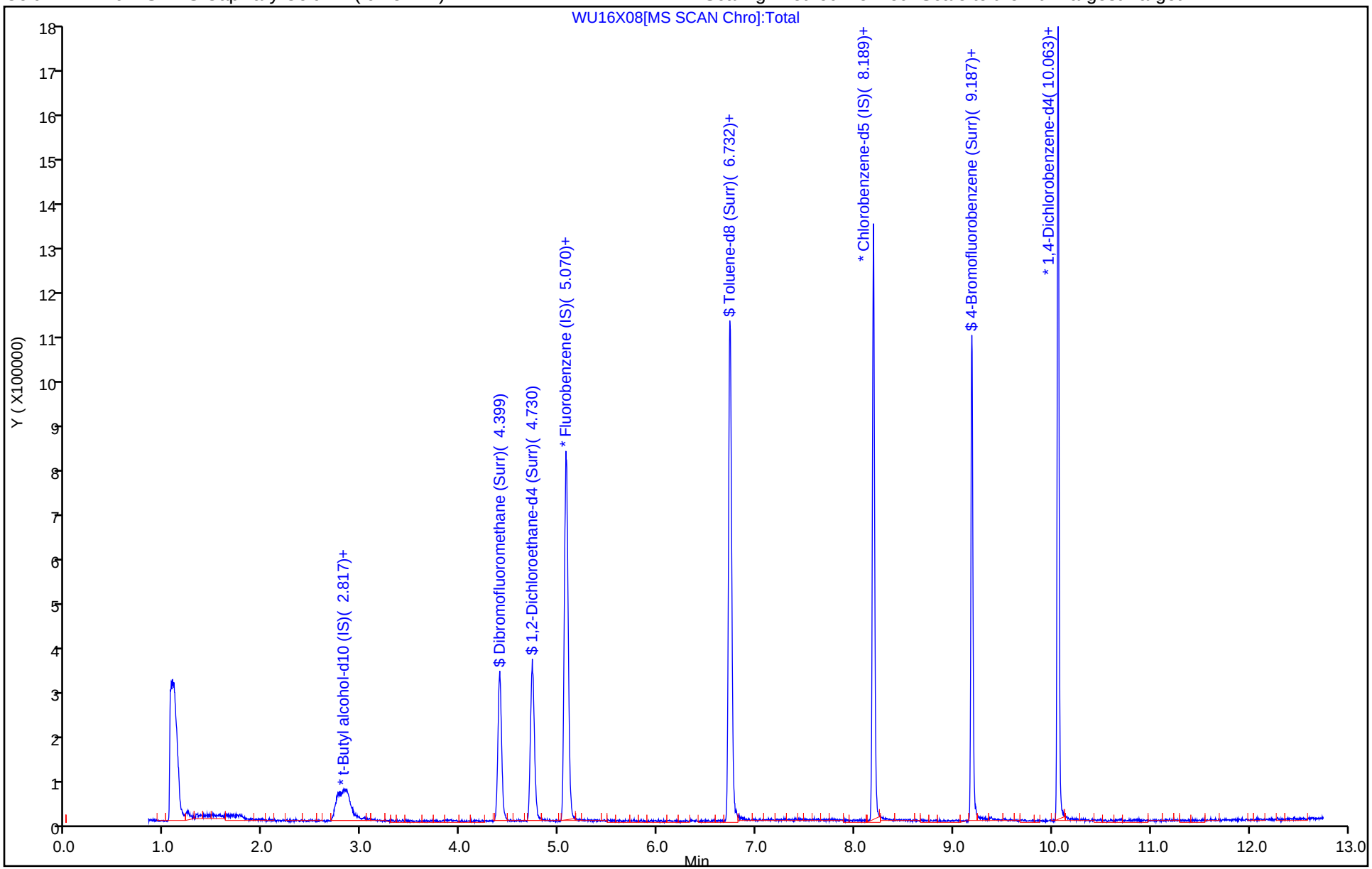
MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 09:47:16 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X08.D				
Injection Date:	16-Jun-2023 11:35:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-15	Lab Sample ID:	410-130132-15	Worklist Smp#:	9
Client ID:	TB-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X08.D
Lims ID: 410-130132-A-15
Client ID: TB-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 11:35:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-009
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:46:27 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:47:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.0	102.01
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	53.3	106.53
$ 82 Toluene-d8 (Surr)	50.0	50.4	100.84
$ 110 4-Bromofluorobenzene (Surr)	50.0	46.9	93.72

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 16:50 Calibration End Date: 03/08/2023 18:29 Calibration ID: 48110

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-351482/8	WM08X08.D
Level 2	IC 410-351482/7	WM08X07.D
Level 3	IC 410-351482/6	WM08X06.D
Level 4	IC 410-351482/5	WM08X05.D
Level 5	IC 410-351482/4	WM08X04.D
Level 6	IC 410-351482/3	Copy_WM08X03.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.3488 0.3911	0.3295	0.3303	0.3538	0.3803	Ave		0.3556				7.2		20.0			
Chlorodifluoromethane	7.7377 8.1290	7.5723	7.4200	7.6856	8.2400	Ave		7.7974				4.1		20.0			
Freon 133a	0.4737 0.4938	0.4497	0.4540	0.4836	0.5099	Ave		0.4774				4.9		20.0			
Ethyl ether	0.3132 0.2956	0.2720	0.3118	0.3002	0.2931	Ave		0.2976				5.1		20.0			
Acetonitrile	1.7901 1.2809	1.3467	1.3751	1.2573	1.2564	Ave		1.3844				14.8		20.0			
Vinyl acetate	0.9440 0.9350	0.8256	0.9239	0.8867	0.9112	Ave		0.9044				4.8		20.0			
Ethyl acetate	0.5164 0.5809	0.5282	0.5624	0.5358	0.5512	Ave		0.5458				4.3		20.0			
Methyl acrylate	0.4734 0.4951	0.4318	0.4611	0.4693	0.4723	Ave		0.4672				4.4		20.0			
Isopropyl acetate	0.9240 0.9953	0.9098	0.9913	0.9662	0.9776	Ave		0.9607				3.7		20.0			
Ethyl acrylate	0.5021 0.6044	0.4890	0.5518	0.5670	0.5644	Ave		0.5465				7.9		20.0			
n-Propyl acetate	0.1693 0.2154	0.1777	0.2050	0.1972	0.2054	Ave		0.1950				9.1		20.0			
3,4-Dichloro-1-butene	0.0049 0.0092	0.0065	0.0099	0.0088	0.0089	Lin	-0.015	0.0092							1.0000		0.9900
Butyl acetate	1.0347 1.1220	1.0315	1.1377	1.0987	1.1499	Ave		1.0957				4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 16:50 Calibration End Date: 03/08/2023 18:29 Calibration ID: 48110

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butyl acrylate	1.0505 1.1726	1.0282	1.1832	1.1723	1.1983	Ave		1.1342				6.6		20.0			
cis-1,4-Dichloro-2-butene	0.0048 0.0111	0.0078	0.0094	0.0104	0.0106	Lin	-0.036	0.0112							1.0000		0.9900
Pentachloroethane	0.4113 0.5985	0.4002	0.4753	0.5185	0.5514	Ave		0.4925				15.9		20.0			
2-Ethylhexyl acrylate	1.2045 1.7677	1.2035	1.4686	1.4629	1.6352	Ave		1.4571				15.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 16:50 Calibration End Date: 03/08/2023 18:29 Calibration ID: 48110

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-351482/8	WM08X08.D
Level 2	IC 410-351482/7	WM08X07.D
Level 3	IC 410-351482/6	WM08X06.D
Level 4	IC 410-351482/5	WM08X05.D
Level 5	IC 410-351482/4	WM08X04.D
Level 6	IC 410-351482/3	Copy_WM08X03.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	31171 2747127	74610	151573	405826	897372	4.00 300	10.0	20.0	50.0	100
Chlorodifluoromethane	TBAd 10	Ave	58104 4898211	147445	288647	777926	1677018	4.00 300	10.0	20.0	50.0	100
Freon 133a	FB	Ave	42323 3468094	101830	208371	554756	1203055	4.00 300	10.0	20.0	50.0	100
Ethyl ether	FB	Ave	27985 2076180	61599	143096	344306	691627	4.00 300	10.00	20.0	50.0	100.0
Acetonitrile	TBAd 10	Ave	67210 3859176	131112	267459	636320	1278567	20.0 1500	50.0	100	250	500
Vinyl acetate	FB	Ave	84352 6566791	186960	424027	1017187	2149942	4.00 300	10.0	20.0	50.0	100
Ethyl acetate	FB	Ave	46141 4079841	119626	258127	614633	1300636	4.00 300	10.0	20.0	50.0	100
Methyl acrylate	FB	Ave	42297 3476799	97780	211585	538290	1114428	4.00 300	10.00	20.0	50.0	100.0
Isopropyl acetate	FB	Ave	82560 6990257	206040	454951	1108361	2306766	4.00 300	10.0	20.0	50.0	100
Ethyl acrylate	FB	Ave	44874 4245643	110744	253283	650524	1331866	4.00 300	10.0	20.0	50.0	100
n-Propyl acetate	FB	Ave	15132 1512938	40235	94104	226154	484717	4.00 300	10.0	20.0	50.0	100
3,4-Dichloro-1-butene	CBZd 5	Lin	307 45502	1022	3135	7022	14398	4.00 300	10.0	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 16:50 Calibration End Date: 03/08/2023 18:29 Calibration ID: 48110

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Butyl acetate	CBZd 5	Ave	64314 5560157	161285	358675	876156	1854063	4.00 300	10.0	20.0	50.0	100
n-Butyl acrylate	CBZd 5	Ave	65268 5808237	160691	372859	934342	1931138	4.00 300	10.00	20.0	50.0	100.0
cis-1,4-Dichloro-2-butene	CBZd 5	Lin	300 54792	1224	2972	8283	17061	4.00 300	10.0	20.0	50.0	100
Pentachloroethane	DCBd 4	Ave	14634 1679920	36099	86541	236340	515485	4.00 300	10.0	20.0	50.0	100
2-Ethylhexyl acrylate	DCBd 4	Ave	42871 4963959	108609	267521	667062	1529144	4.00 300	10.0	20.0	50.0	100

Curve Type Legend
Ave = Average ISTD
Lin = Linear ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 16:50 Calibration End Date: 03/08/2023 18:29 Calibration ID: 48110

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-351482/8	WM08X08.D
Level 2	IC 410-351482/7	WM08X07.D
Level 3	IC 410-351482/6	WM08X06.D
Level 4	IC 410-351482/5	WM08X05.D
Level 5	IC 410-351482/4	WM08X04.D
Level 6	IC 410-351482/3	Copy_WM08X03.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
Chlorotrifluoroethene	-1.9	-7.4	-7.1	-0.5	6.9	10.0	50	30	30	30	30	30
Chlorodifluoromethane	-0.8	-2.9	-4.8	-1.4	5.7	4.3	50	30	30	30	30	30
Freon 133a	-0.8	-5.8	-4.9	1.3	6.8	3.4	50	30	30	30	30	30
Ethyl ether	5.2	-8.6	4.8	0.8	-1.5	-0.7	50	30	30	30	30	30
Acetonitrile	29.3	-2.7	-0.7	-9.2	-9.2	-7.5	50	30	30	30	30	30
Vinyl acetate	4.4	-8.7	2.2	-2.0	0.7	3.4	50	30	30	30	30	30
Ethyl acetate	-5.4	-3.2	3.0	-1.8	1.0	6.4	50	30	30	30	30	30
Methyl acrylate	1.3	-7.6	-1.3	0.5	1.1	6.0	50	30	30	30	30	30
Isopropyl acetate	-3.8	-5.3	3.2	0.6	1.8	3.6	50	30	30	30	30	30
Ethyl acrylate	-8.1	-10.5	1.0	3.8	3.3	10.6	50	30	30	30	30	30
n-Propyl acetate	-13.2	-8.9	5.1	1.1	5.3	10.5	50	30	30	30	30	30
3,4-Dichloro-1-butene	-5.8	-12.8	16.0	-1.2	-1.5	0.1	50	30	30	30	30	30
Butyl acetate	-5.6	-5.9	3.8	0.3	4.9	2.4	50	30	30	30	30	30
n-Butyl acrylate	-7.4	-9.3	4.3	3.4	5.7	3.4	50	30	30	30	30	30
cis-1,4-Dichloro-2-butene	24.8	2.8	0.8	-0.4	-1.9	0.2	50	30	30	30	30	30
Pentachloroethane	-16.5	-18.7	-3.5	5.3	12.0	21.5	50	30	30	30	30	30
2-Ethylhexyl acrylate	-17.3	-17.4	0.8	0.4	12.2	21.3	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\Copy_WM08X03.D
Lims ID: IC sm v300
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Mar-2023 16:50:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-003
Misc. Info.: IC SM V300
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub47

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:29 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 11:41:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.283	1.280	0.003	97	2747127	300.0	330.0	
4 Chlorodifluoromethane	51	1.312	1.303	0.009	99	4898211	300.0	312.8	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.556	1.550	0.006	34	3468094	300.0	310.3	
15 Ethyl ether	59	2.147	2.137	0.010	93	2076180	300.0	297.9	
25 Acetonitrile	41	2.631	2.612	0.019	100	3859176	1500.0	1387.9	
* 30 t-Butyl alcohol-d10 (IS)	65	2.837	2.769	0.068	46	502131	250.0	250.0	
37 Vinyl acetate	43	3.433	3.427	0.006	97	6566791	300.0	310.1	
44 Ethyl acetate	43	3.982	3.976	0.006	99	4079841	300.0	319.3	
46 Methyl acrylate	55	4.021	4.014	0.007	99	3476799	300.0	317.9	
61 Isopropyl acetate	43	4.881	4.877	0.004	98	6990257	300.0	310.8	
* 63 Fluorobenzene (IS)	96	5.080	5.073	0.007	99	1170549	50.0	50.0	
67 Ethyl acrylate	55	5.561	5.558	0.003	99	4245643	300.0	331.9	
74 n-Propyl acetate	61	5.875	5.869	0.006	99	1512938	300.0	331.4	
91 3,4-Dichloro-1-butene	75	7.467	7.467	0.000	90	45502	300.0	300.5	
95 n-Butyl acetate	43	7.660	7.659	0.001	98	5560157	300.0	307.2	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	825938	50.0	50.0	
103 n-Butyl acrylate	55	8.747	8.747	0.000	97	5808237	299.9	310.0	
108 cis-1,4-Dichloro-2-butene	88	9.120	9.116	0.004	85	54792	300.0	300.6	
121 Pentachloroethane	167	9.787	9.787	0.000	93	1679920	300.0	364.5	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	467849	50.0	50.0	
177 2-Ethylhexyl acrylate	55	11.549	11.549	0.000	81	4963959	300.1	364.1	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_Penta_00030	Amount Added:	15.00	Units: uL
MSV_CCV_EE_00004	Amount Added:	15.00	Units: uL
MSV_CCV_V5ACE_00022	Amount Added:	15.00	Units: uL
MSV_Cent_IS_O_00009	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00005	Amount Added:	15.00	Units: uL
MSV_V_SMFreon_00026	Amount Added:	7.50	Units: uL
MSV_CCV_OH_Sp_00001	Amount Added:	15.00	Units: uL

Report Date: 14-Mar-2023 13:13:29 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\Copy_WM08X03.D

Injection Date: 08-Mar-2023 16:50:30 Instrument ID: 9137 Operator ID: kas02648

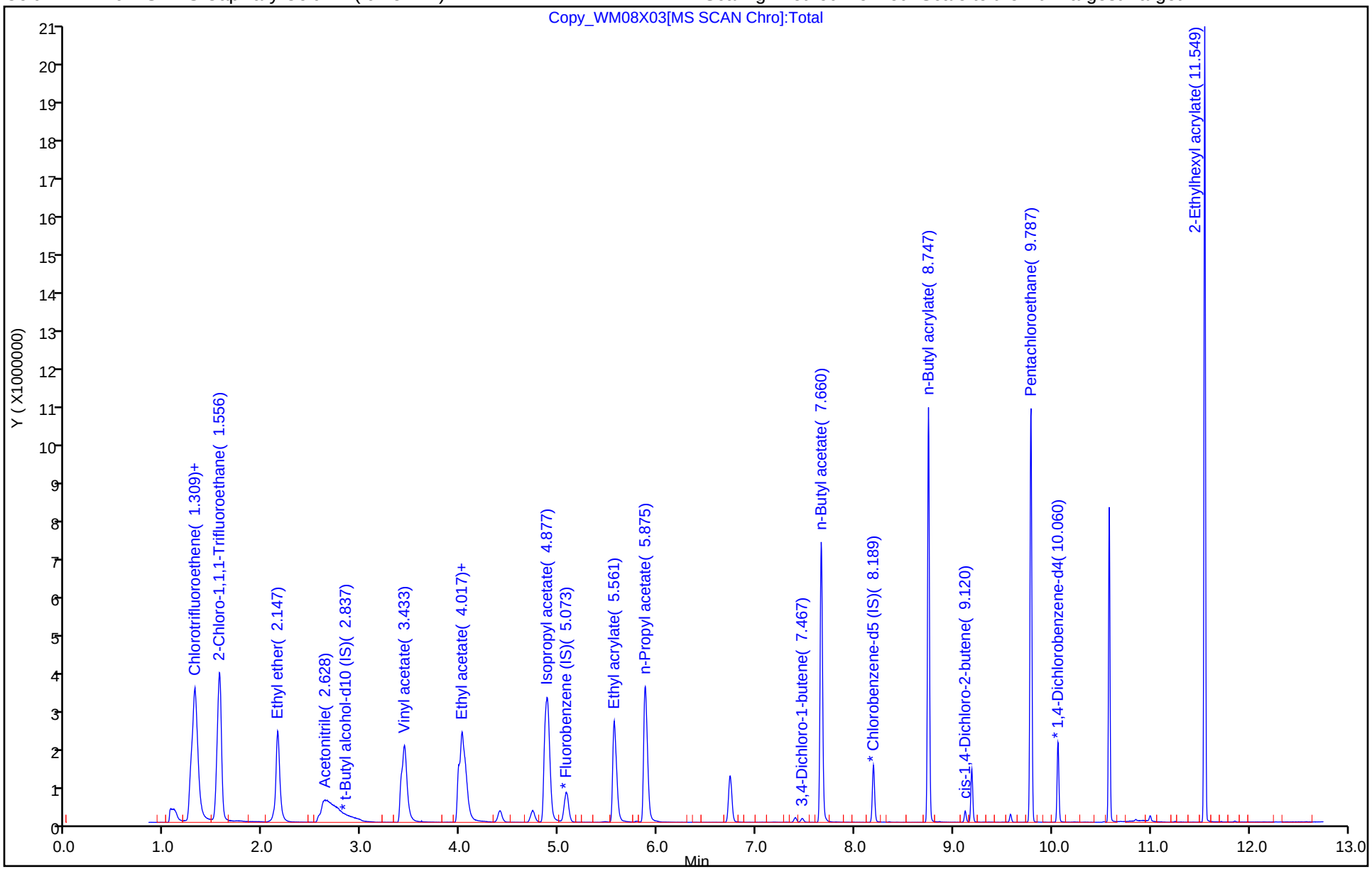
Lims ID: IC sm v300 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X04.D
Lims ID: IC sm v100
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Mar-2023 17:10:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-004
Misc. Info.: IC SM V100
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub47

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:33 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 11:46:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.280	1.280	0.000	96	897372	100.0	106.9	
4 Chlorodifluoromethane	51	1.306	1.306	0.000	99	1677018	100.0	105.7	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.550	1.550	0.000	39	1203055	100.0	106.8	
15 Ethyl ether	59	2.147	2.147	0.000	93	691627	100.0	98.5	
25 Acetonitrile	41	2.622	2.622	0.000	100	1278567	500.0	453.8	
* 30 t-Butyl alcohol-d10 (IS)	65	2.759	2.759	0.000	51	508807	250.0	250.0	
37 Vinyl acetate	43	3.427	3.427	0.000	97	2149942	100.0	100.7	
44 Ethyl acetate	43	3.985	3.985	0.000	99	1300636	100.0	101.0	
46 Methyl acrylate	55	4.017	4.017	0.000	99	1114428	100.0	101.1	
61 Isopropyl acetate	43	4.877	4.877	0.000	98	2306766	100.0	101.8	
* 63 Fluorobenzene (IS)	96	5.073	5.073	0.000	99	1179768	50.0	50.0	
67 Ethyl acrylate	55	5.554	5.554	0.000	99	1331866	100.0	103.3	
74 n-Propyl acetate	61	5.872	5.872	0.000	99	484717	100.0	105.3	
91 3,4-Dichloro-1-butene	75	7.467	7.467	0.000	93	14398	100.0	98.5	
95 n-Butyl acetate	43	7.659	7.659	0.000	98	1854063	100.0	104.9	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	806197	50.0	50.0	
103 n-Butyl acrylate	55	8.747	8.747	0.000	97	1931138	100.0	105.6	
108 cis-1,4-Dichloro-2-butene	88	9.120	9.120	0.000	86	17061	100.0	98.1	
121 Pentachloroethane	167	9.787	9.787	0.000	92	515485	100.0	112.0	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	467392	50.0	50.0	
177 2-Ethylhexyl acrylate	55	11.549	11.549	0.000	81	1529144	100.0	112.3	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_Penta_00030	Amount Added:	5.00	Units: uL
MSV_CCV_EE_00004	Amount Added:	5.00	Units: uL
MSV_CCV_V5ACE_00022	Amount Added:	5.00	Units: uL
MSV_Cent_IS_O_00009	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00005	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00026	Amount Added:	2.50	Units: uL
MSV_CCV_OH_Sp_00001	Amount Added:	5.00	Units: uL

Report Date: 14-Mar-2023 13:13:33 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X04.D

Injection Date: 08-Mar-2023 17:10:30 Instrument ID: 9137 Operator ID: kas02648

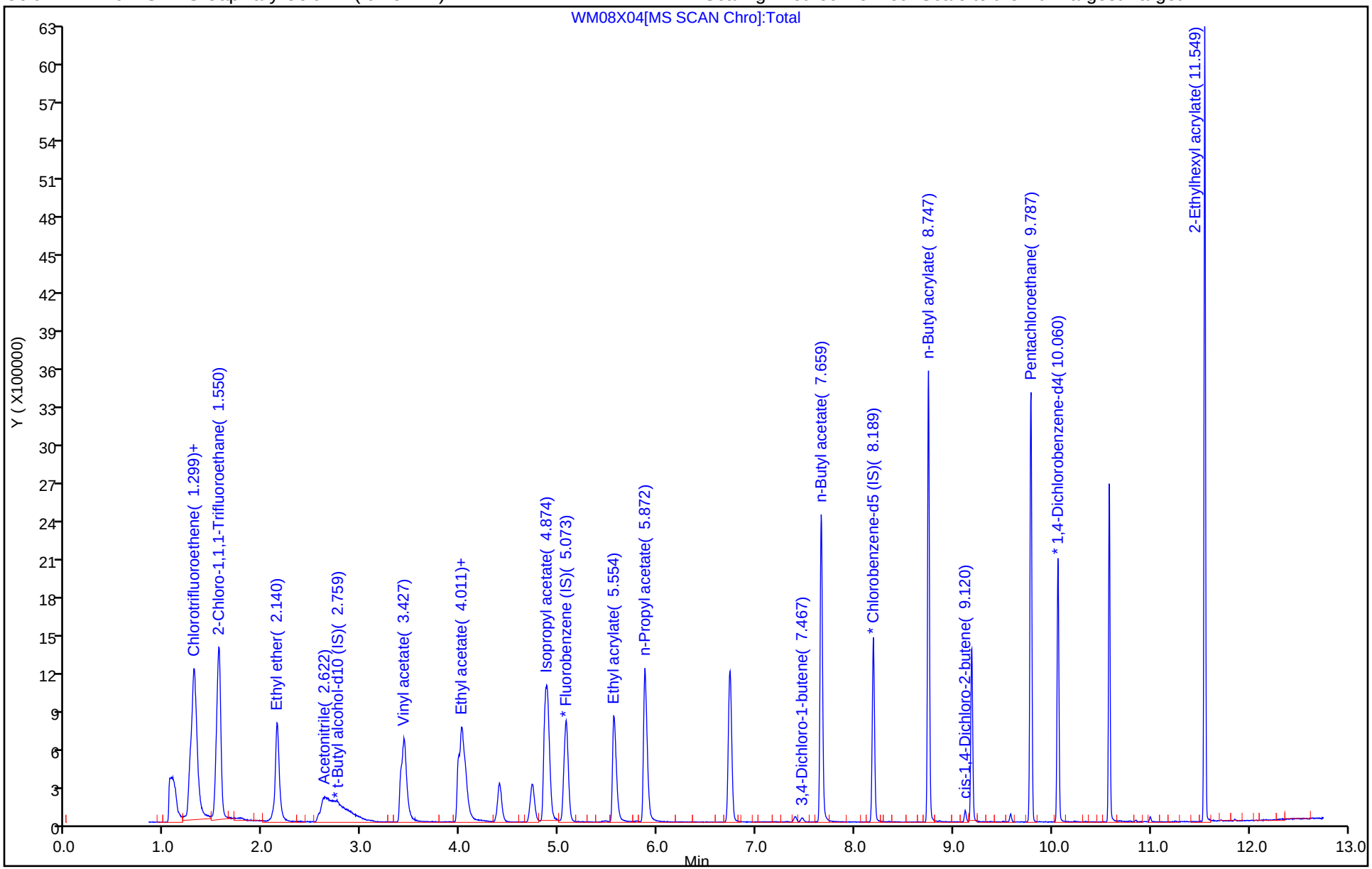
Lims ID: IC sm v100 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X05.D
Lims ID: IC sm v50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Mar-2023 17:30:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-005
Misc. Info.: IC SM V50
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub47

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:35 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 11:44:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.280	1.280	0.000	92	405826	50.0	49.7	
4 Chlorodifluoromethane	51	1.303	1.303	0.000	97	777926	50.0	49.3	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.550	1.550	0.000	34	554756	50.0	50.6	
15 Ethyl ether	59	2.137	2.137	0.000	93	344306	50.0	50.4	
25 Acetonitrile	41	2.612	2.612	0.000	97	636320	250.0	227.0	
* 30 t-Butyl alcohol-d10 (IS)	65	2.791	2.791	0.000	28	506092	250.0	250.0	
37 Vinyl acetate	43	3.427	3.427	0.000	97	1017187	50.0	49.0	
44 Ethyl acetate	43	3.976	3.976	0.000	99	614633	50.0	49.1	
46 Methyl acrylate	55	4.014	4.014	0.000	99	538290	50.0	50.2	
61 Isopropyl acetate	43	4.877	4.877	0.000	97	1108361	50.0	50.3	
* 63 Fluorobenzene (IS)	96	5.073	5.073	0.000	99	1147112	50.0	50.0	
67 Ethyl acrylate	55	5.558	5.558	0.000	99	650524	50.0	51.9	
74 n-Propyl acetate	61	5.869	5.869	0.000	99	226154	50.0	50.5	
91 3,4-Dichloro-1-butene	75	7.467	7.467	0.000	87	7022	50.0	49.4	
95 n-Butyl acetate	43	7.659	7.659	0.000	98	876156	50.0	50.1	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	797425	50.0	50.0	
103 n-Butyl acrylate	55	8.747	8.747	0.000	96	934342	50.0	51.7	
108 cis-1,4-Dichloro-2-butene	88	9.116	9.116	0.000	100	8283	50.0	49.8	
121 Pentachloroethane	167	9.787	9.787	0.000	90	236340	50.0	52.6	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	455795	50.0	50.0	
177 2-Ethylhexyl acrylate	55	11.549	11.549	0.000	81	667062	50.0	50.2	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_Penta_00030	Amount Added:	5.00	Units: uL
MSV_CCV_EE_00004	Amount Added:	5.00	Units: uL
MSV_CCV_V5ACE_00022	Amount Added:	5.00	Units: uL
MSV_Cent_IS_O_00009	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00005	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00026	Amount Added:	2.50	Units: uL
MSV_CCV_OH_Sp_00001	Amount Added:	5.00	Units: uL

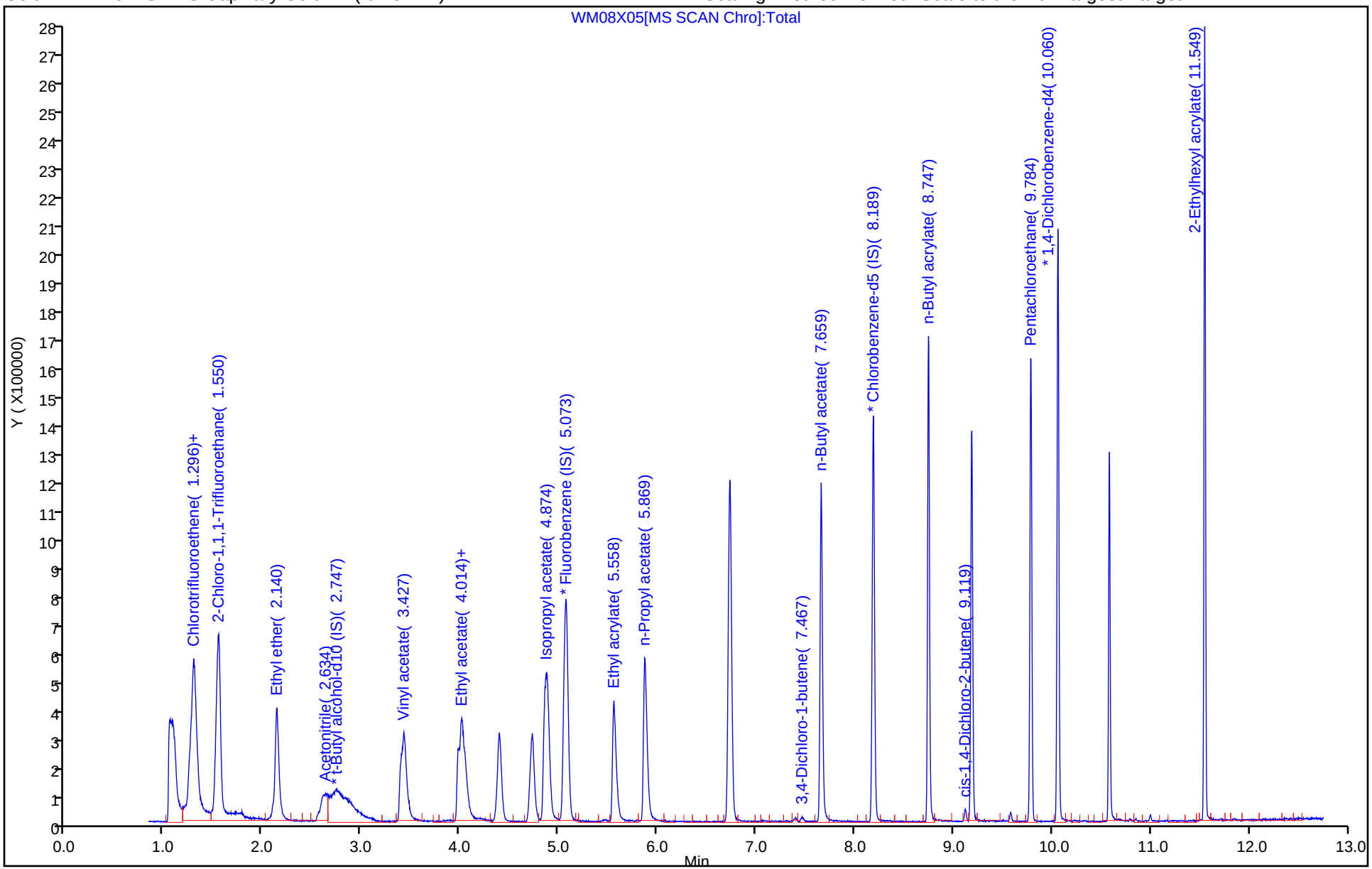
Report Date: 14-Mar-2023 13:13:35 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X05.D

Injection Date:	08-Mar-2023 17:30:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	IC sm v50			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X06.D
Lims ID: IC sm v20
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Mar-2023 17:49:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-006
Misc. Info.: IC SM V20
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub47

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:37 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 11:47:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.293	1.280	0.013	92	151573	20.0	18.6	
4 Chlorodifluoromethane	51	1.315	1.303	0.012	98	288647	20.0	19.0	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.566	1.550	0.016	39	208371	20.0	19.0	
15 Ethyl ether	59	2.153	2.137	0.016	93	143096	20.0	21.0	
25 Acetonitrile	41	2.641	2.612	0.029	98	267459	100.0	99.3	
* 30 t-Butyl alcohol-d10 (IS)	65	2.811	2.791	0.020	31	486267	250.0	250.0	
37 Vinyl acetate	43	3.433	3.427	0.006	97	424027	20.0	20.4	
44 Ethyl acetate	43	3.992	3.976	0.016	99	258127	20.0	20.6	
46 Methyl acrylate	55	4.033	4.014	0.019	99	211585	20.0	19.7	
61 Isopropyl acetate	43	4.884	4.877	0.007	98	454951	20.0	20.6	
* 63 Fluorobenzene (IS)	96	5.076	5.073	0.003	99	1147352	50.0	50.0	
67 Ethyl acrylate	55	5.561	5.558	0.003	99	253283	20.0	20.2	
74 n-Propyl acetate	61	5.875	5.869	0.006	99	94104	20.0	21.0	
91 3,4-Dichloro-1-butene	75	7.477	7.467	0.010	29	3135	20.0	23.2	M
95 n-Butyl acetate	43	7.663	7.659	0.004	98	358675	20.0	20.8	
* 97 Chlorobenzene-d5 (IS)	117	8.192	8.189	0.003	86	788185	50.0	50.0	
103 n-Butyl acrylate	55	8.747	8.747	0.000	96	372859	20.0	20.9	
108 cis-1,4-Dichloro-2-butene	88	9.120	9.116	0.004	85	2972	20.0	20.2	
121 Pentachloroethane	167	9.787	9.787	0.000	88	86541	20.0	19.3	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	455233	50.0	50.0	
177 2-Ethylhexyl acrylate	55	11.549	11.549	0.000	82	267521	20.0	20.2	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_Penta_00030	Amount Added:	4.00	Units: uL
MSV_CCV_EE_00004	Amount Added:	4.00	Units: uL
MSV_CCV_V5ACE_00022	Amount Added:	4.00	Units: uL
MSV_Cent_IS_O_00009	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00005	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00026	Amount Added:	2.00	Units: uL
MSV_CCV_OH_Sp_00001	Amount Added:	4.00	Units: uL

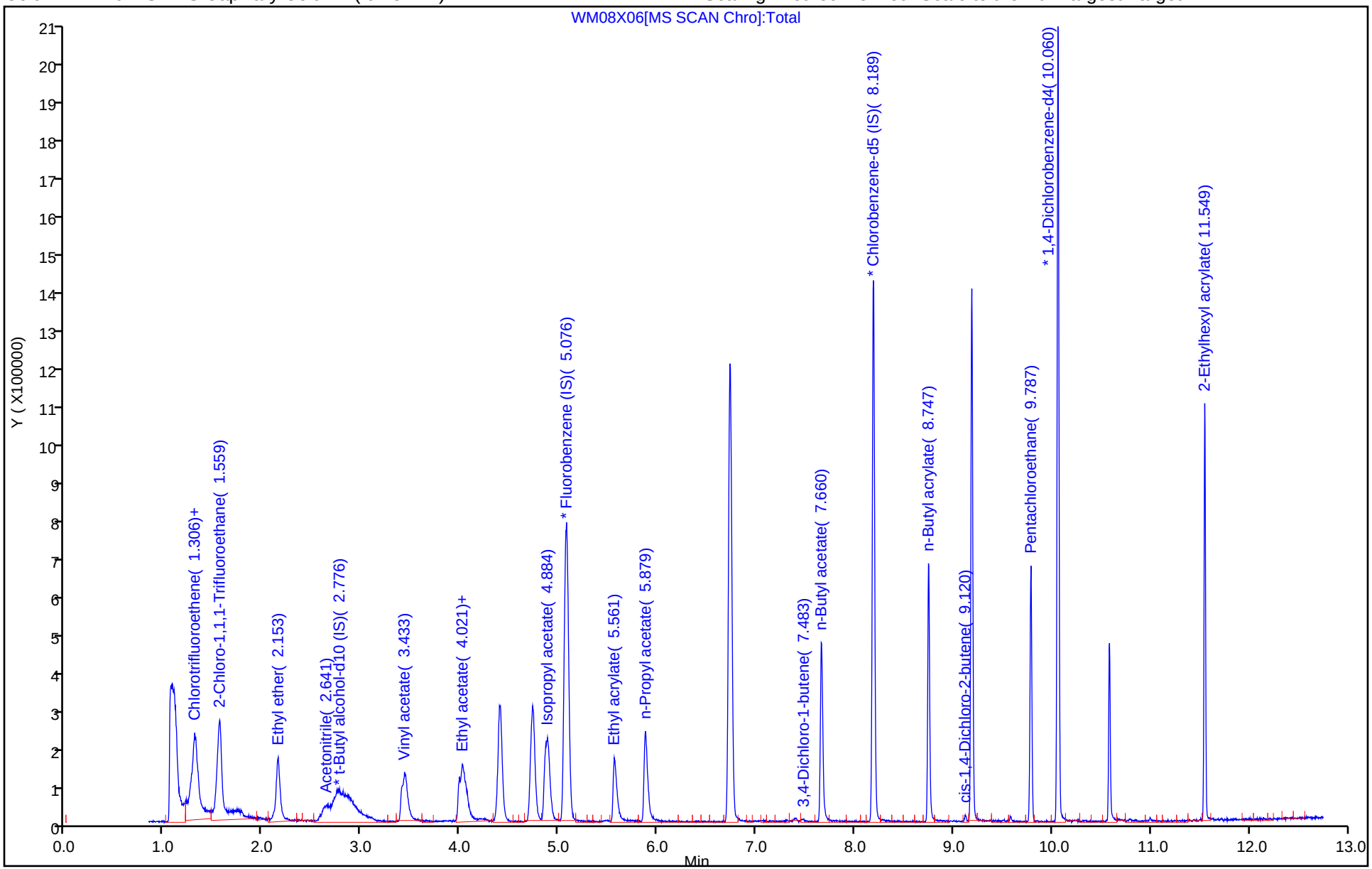
Report Date: 14-Mar-2023 13:13:38 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X06.D

Injection Date:	08-Mar-2023 17:49:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	IC sm v20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

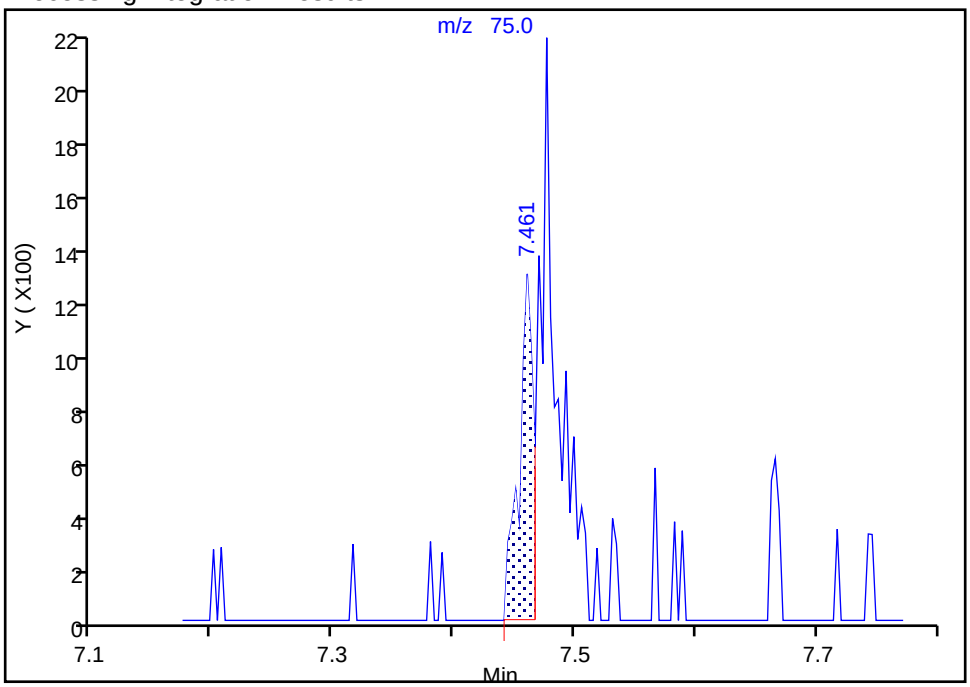
Data File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X06.D				
Injection Date:	08-Mar-2023 17:49:30	Instrument ID:	9137		
Lims ID:	IC sm v20				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	6	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

91 3,4-Dichloro-1-butene, CAS: 760-23-6

Signal: 1

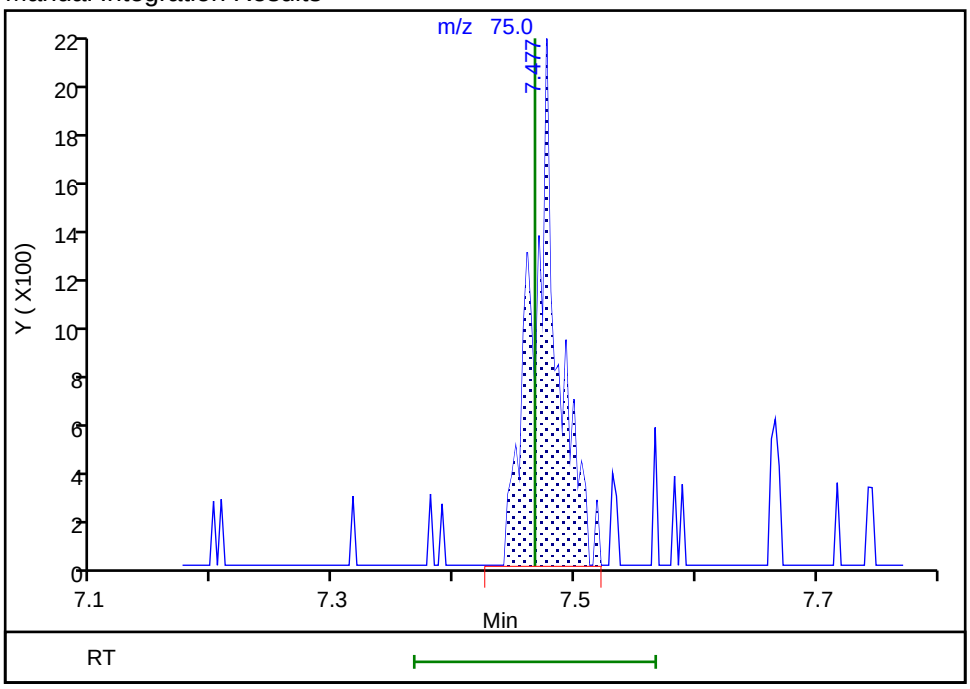
Processing Integration Results

RT: 7.46
Area: 1027
Amount: 10.471398
Amount Units: ug/l



Manual Integration Results

RT: 7.48
Area: 3135
Amount: 23.200708
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:46:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X07.D
Lims ID: IC sm v10
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Mar-2023 18:09:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-007
Misc. Info.: IC SM V10
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub47

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:40 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 11:48:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.283	1.280	0.003	86	74610	10.0	9.26	
4 Chlorodifluoromethane	51	1.306	1.303	0.003	98	147445	10.0	9.71	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.550	1.550	0.000	34	101830	10.0	9.42	
15 Ethyl ether	59	2.140	2.137	0.003	92	61599	10.0	9.14	
25 Acetonitrile	41	2.628	2.612	0.016	98	131112	50.0	48.6	
* 30 t-Butyl alcohol-d10 (IS)	65	2.833	2.791	0.042	19	486789	250.0	250.0	
37 Vinyl acetate	43	3.440	3.427	0.013	97	186960	10.0	9.13	
44 Ethyl acetate	43	3.992	3.976	0.016	100	119626	10.0	9.68	
46 Methyl acrylate	55	4.024	4.014	0.010	97	97780	10.0	9.24	
61 Isopropyl acetate	43	4.871	4.877	-0.006	97	206040	10.0	9.47	
* 63 Fluorobenzene (IS)	96	5.073	5.073	0.000	99	1132292	50.0	50.0	
67 Ethyl acrylate	55	5.564	5.558	0.006	99	110744	10.0	8.95	
74 n-Propyl acetate	61	5.882	5.869	0.013	100	40235	10.0	9.11	
91 3,4-Dichloro-1-butene	75	7.461	7.467	-0.006	1	1022	10.0	8.72	M
95 n-Butyl acetate	43	7.663	7.659	0.004	98	161285	10.0	9.41	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	781825	50.0	50.0	
103 n-Butyl acrylate	55	8.751	8.747	0.003	97	160691	10.0	9.06	
108 cis-1,4-Dichloro-2-butene	88	9.129	9.116	0.013	74	1224	10.0	10.3	
121 Pentachloroethane	167	9.784	9.787	-0.003	88	36099	10.0	8.13	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	451031	50.0	50.0	
177 2-Ethylhexyl acrylate	55	11.549	11.549	0.000	81	108609	10.0	8.26	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_Penta_00030	Amount Added:	2.00	Units: uL
MSV_CCV_EE_00004	Amount Added:	2.00	Units: uL
MSV_CCV_V5ACE_00022	Amount Added:	2.00	Units: uL
MSV_Cent_IS_O_00009	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00005	Amount Added:	2.00	Units: uL
MSV_V_SMFreon_00026	Amount Added:	1.00	Units: uL
MSV_CCV_OH_Sp_00001	Amount Added:	2.00	Units: uL

Report Date: 14-Mar-2023 13:13:40 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X07.D

Injection Date: 08-Mar-2023 18:09:30 Instrument ID: 9137 Operator ID: kas02648

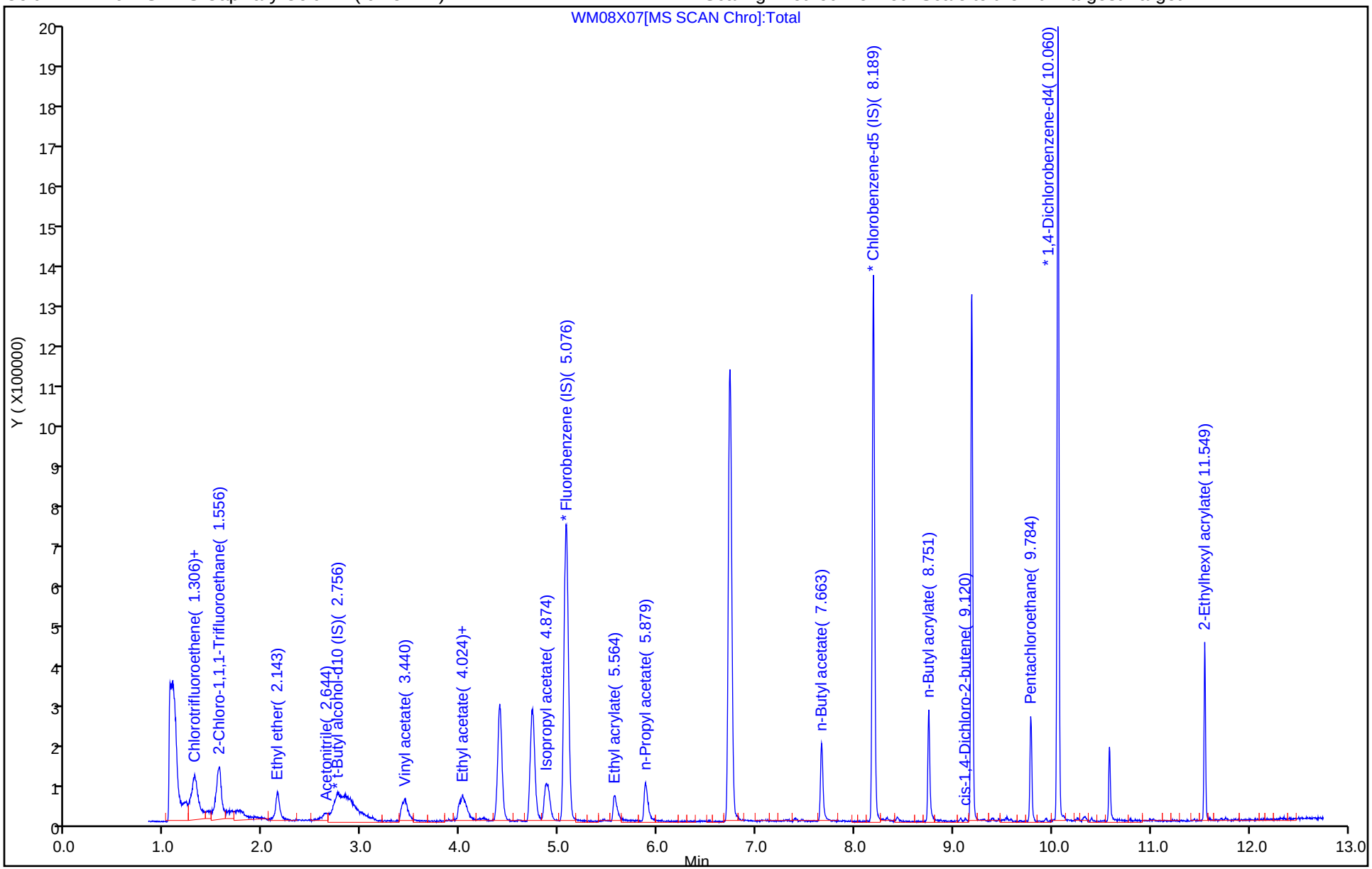
Lims ID: IC sm v10 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

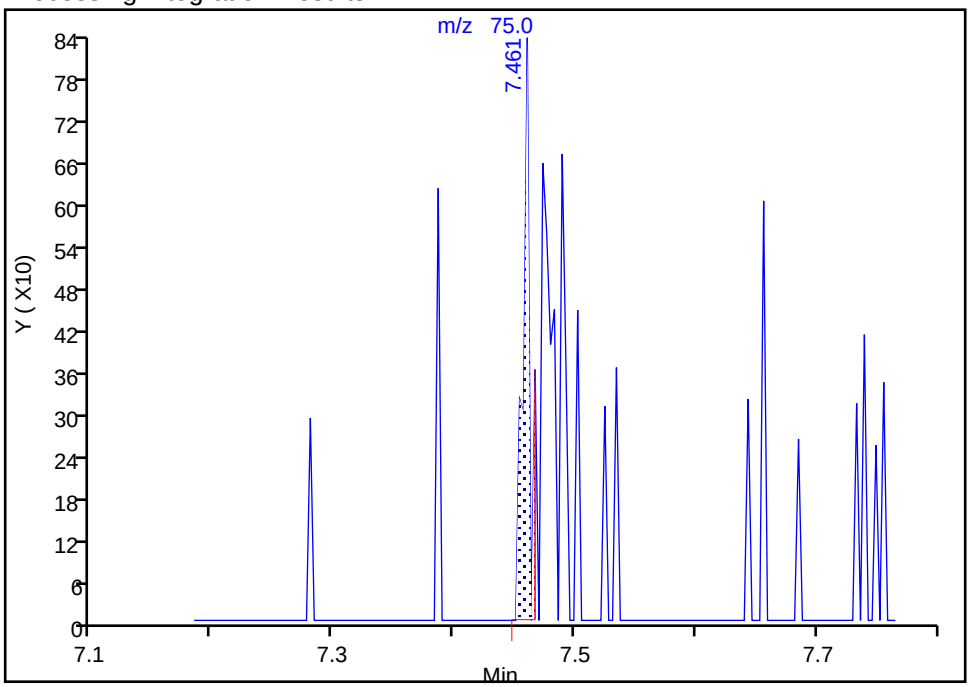
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X07.D
Injection Date: 08-Mar-2023 18:09:30 Instrument ID: 9137
Lims ID: IC sm v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

91 3,4-Dichloro-1-butene, CAS: 760-23-6

Signal: 1

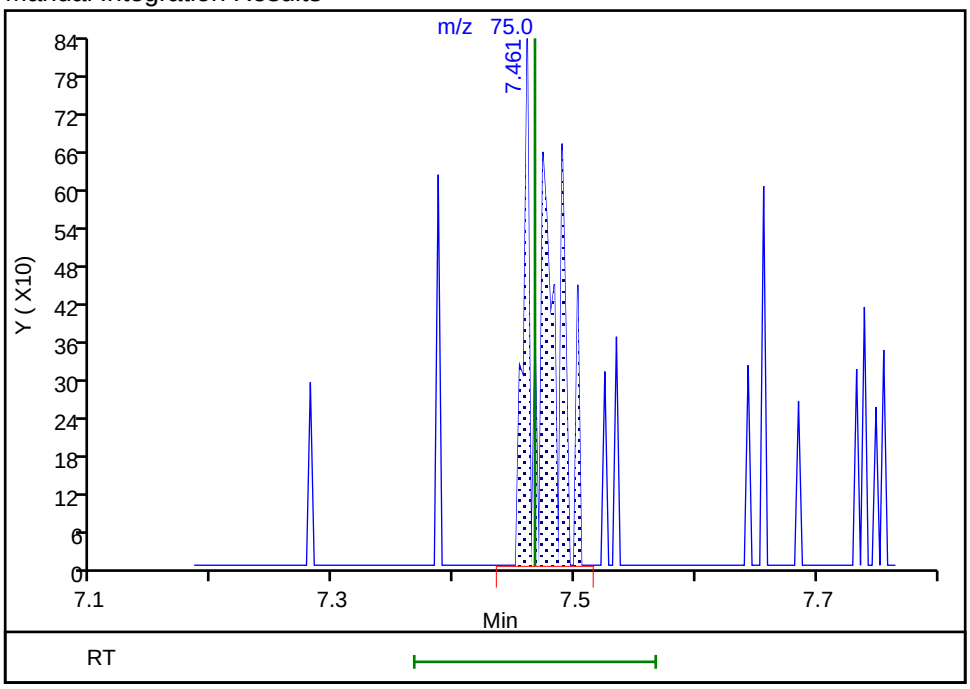
Processing Integration Results

RT: 7.46
Area: 347
Amount: 3.025049
Amount Units: ug/l



Manual Integration Results

RT: 7.46
Area: 1022
Amount: 8.716100
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:48:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X08.D
Lims ID: IC sm v4
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Mar-2023 18:29:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-008
Misc. Info.: IC SM V4
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub47

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:43 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 11:49:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Chlorotrifluoroethene	116	1.290	1.280	0.010	63	31171	4.00	3.92	
4 Chlorodifluoromethane	51	1.309	1.303	0.006	97	58104	4.00	3.97	
9 2-Chloro-1,1,1-Trifluoroethane	118	1.547	1.550	-0.003	41	42323	4.00	3.97	
15 Ethyl ether	59	2.140	2.137	0.003	96	27985	4.00	4.21	
25 Acetonitrile	41	2.644	2.612	0.032	90	67210	20.0	25.9	M
* 30 t-Butyl alcohol-d10 (IS)	65	2.856	2.791	0.065	22	469328	250.0	250.0	
37 Vinyl acetate	43	3.433	3.427	0.006	92	84352	4.00	4.18	M
44 Ethyl acetate	43	3.985	3.976	0.009	96	46141	4.00	3.78	M
46 Methyl acrylate	55	4.062	4.014	0.048	83	42297	4.00	4.05	M
61 Isopropyl acetate	43	4.874	4.877	-0.003	98	82560	4.00	3.85	
* 63 Fluorobenzene (IS)	96	5.070	5.073	-0.003	99	1116920	50.0	50.0	
67 Ethyl acrylate	55	5.564	5.558	0.006	99	44874	4.00	3.68	M
74 n-Propyl acetate	61	5.875	5.869	0.006	99	15132	4.00	3.47	
91 3,4-Dichloro-1-butene	75	7.467	7.467	0.000	1	307	4.00	3.77	
95 n-Butyl acetate	43	7.666	7.659	0.007	98	64314	4.00	3.78	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	776992	50.0	50.0	
103 n-Butyl acrylate	55	8.751	8.747	0.004	97	65268	4.00	3.70	
108 cis-1,4-Dichloro-2-butene	88	9.123	9.116	0.007	1	300	4.00	4.99	
121 Pentachloroethane	167	9.784	9.787	-0.003	85	14634	4.00	3.34	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	444713	50.0	50.0	
177 2-Ethylhexyl acrylate	55	11.549	11.549	0.000	81	42871	4.00	3.31	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_Penta_00030	Amount Added:	4.00	Units: uL
MSV_CCV_EE_00004	Amount Added:	4.00	Units: uL
MSV_CCV_V5ACE_00022	Amount Added:	4.00	Units: uL
MSV_Cent_IS_O_00009	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00005	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00026	Amount Added:	2.00	Units: uL
MSV_CCV_OH_Sp_00001	Amount Added:	4.00	Units: uL

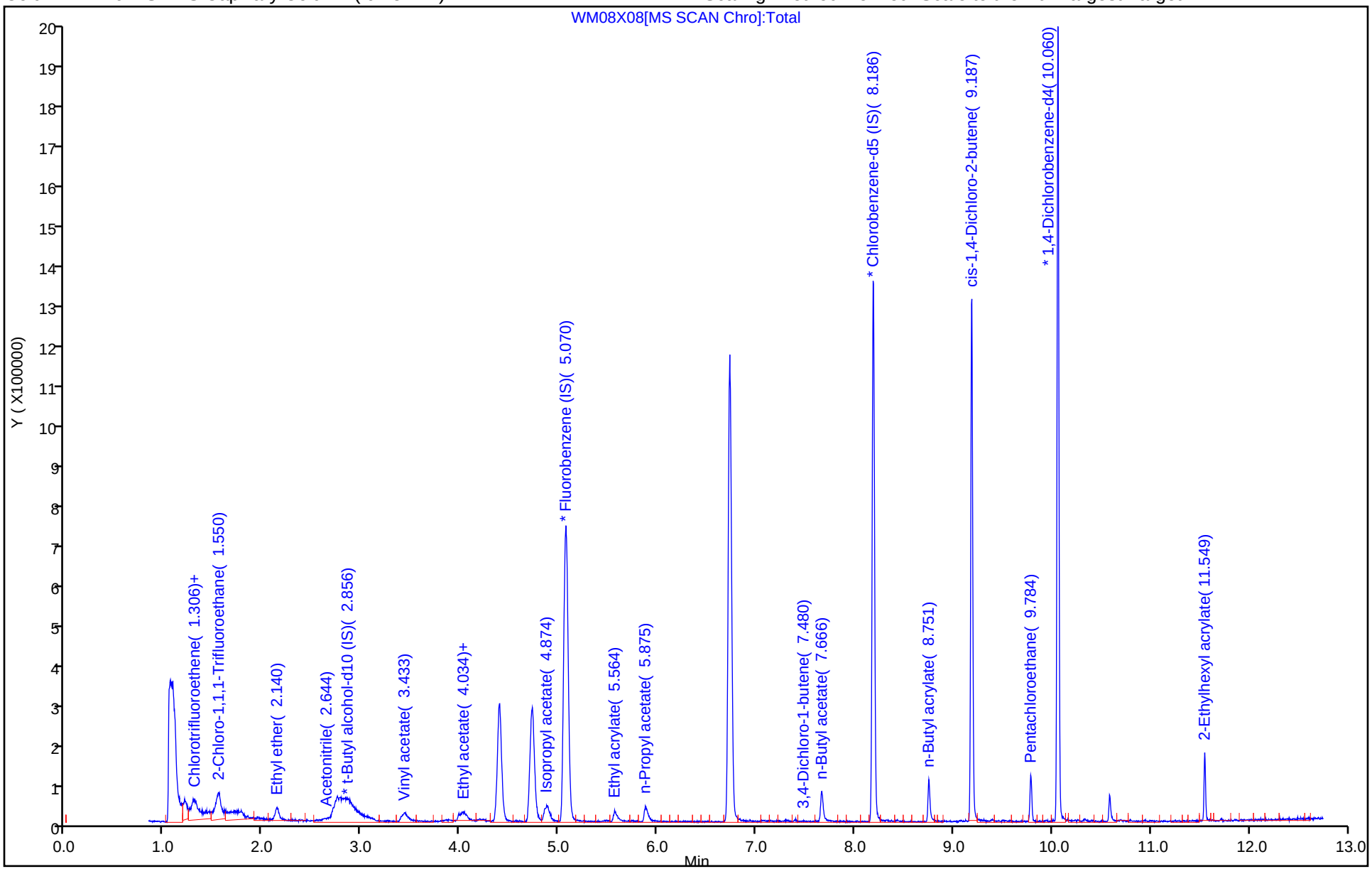
Report Date: 14-Mar-2023 13:13:43 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X08.D

Injection Date:	08-Mar-2023 18:29:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	IC sm v4			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

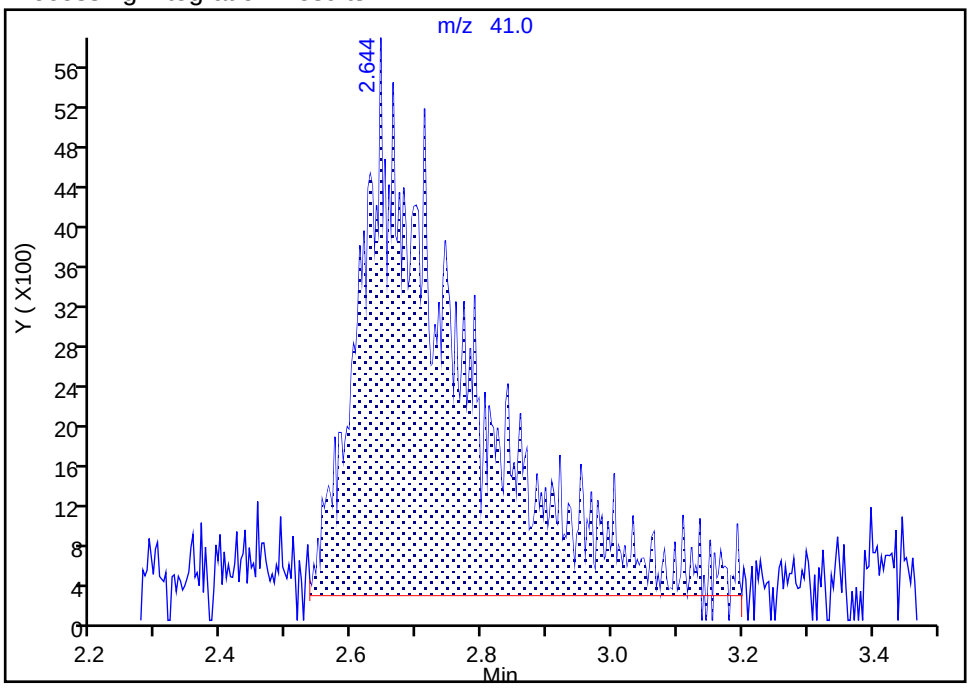
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X08.D
Injection Date: 08-Mar-2023 18:29:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

25 Acetonitrile, CAS: 75-05-8

Signal: 1

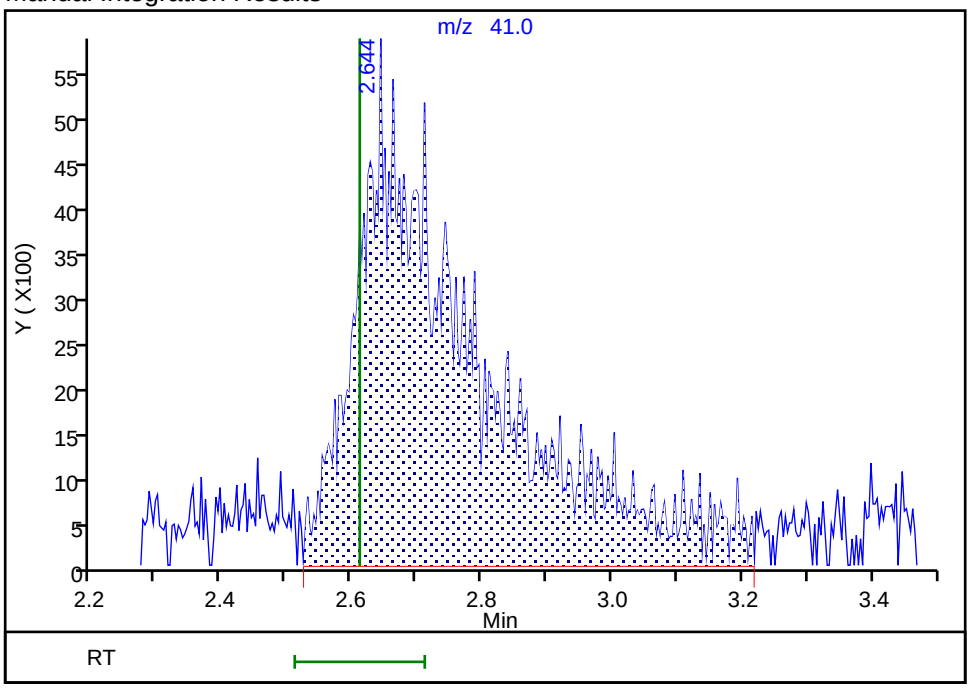
Processing Integration Results

RT: 2.64
Area: 56509
Amount: 22.515237
Amount Units: ug/l



Manual Integration Results

RT: 2.64
Area: 67210
Amount: 25.860081
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:48:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

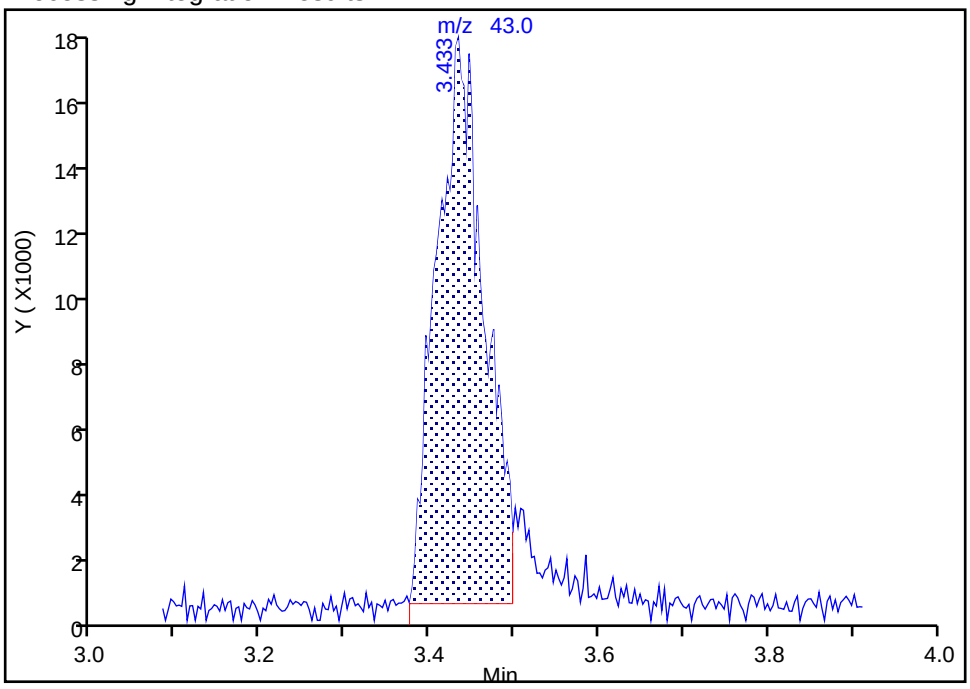
Data File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X08.D				
Injection Date:	08-Mar-2023 18:29:30	Instrument ID:	9137		
Lims ID:	IC sm v4				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

37 Vinyl acetate, CAS: 108-05-4

Signal: 1

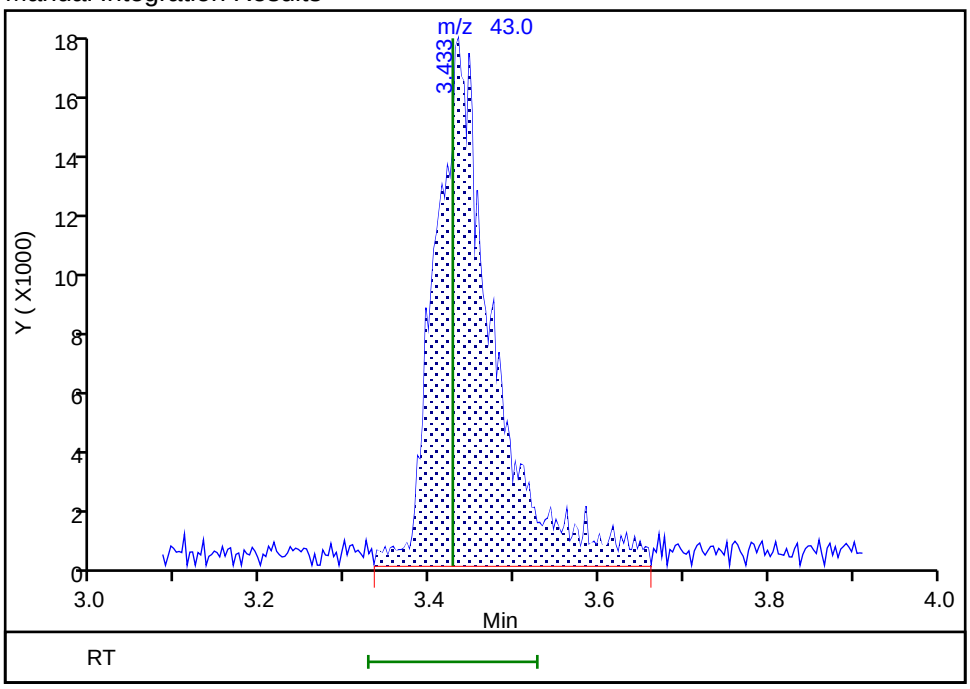
Processing Integration Results

RT: 3.43
Area: 66810
Amount: 3.431065
Amount Units: ug/l



Manual Integration Results

RT: 3.43
Area: 84352
Amount: 4.175220
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:48:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

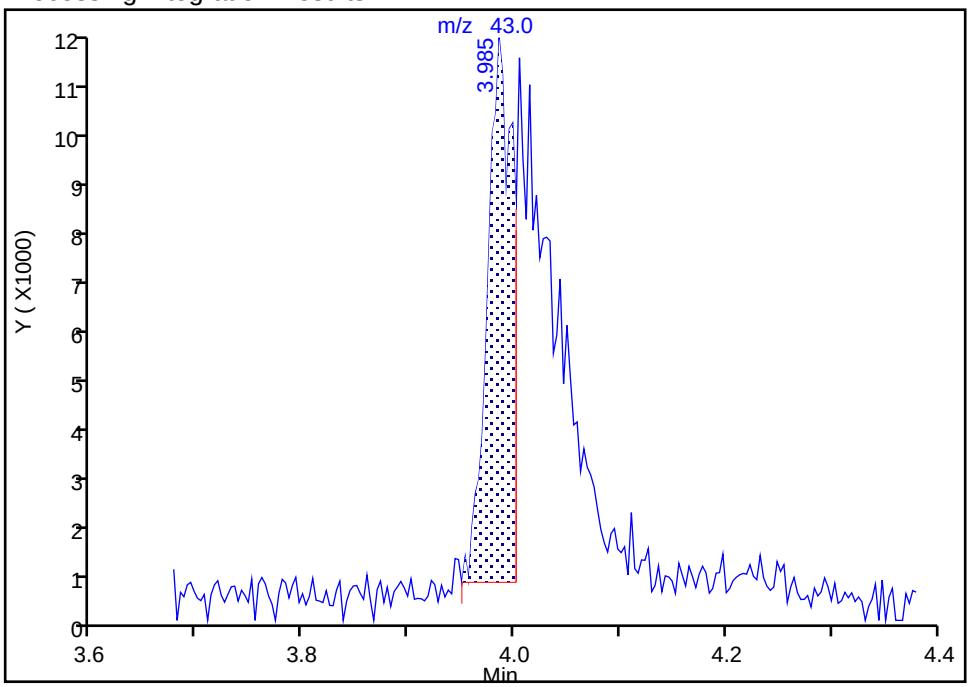
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X08.D
Injection Date: 08-Mar-2023 18:29:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

44 Ethyl acetate, CAS: 141-78-6

Signal: 1

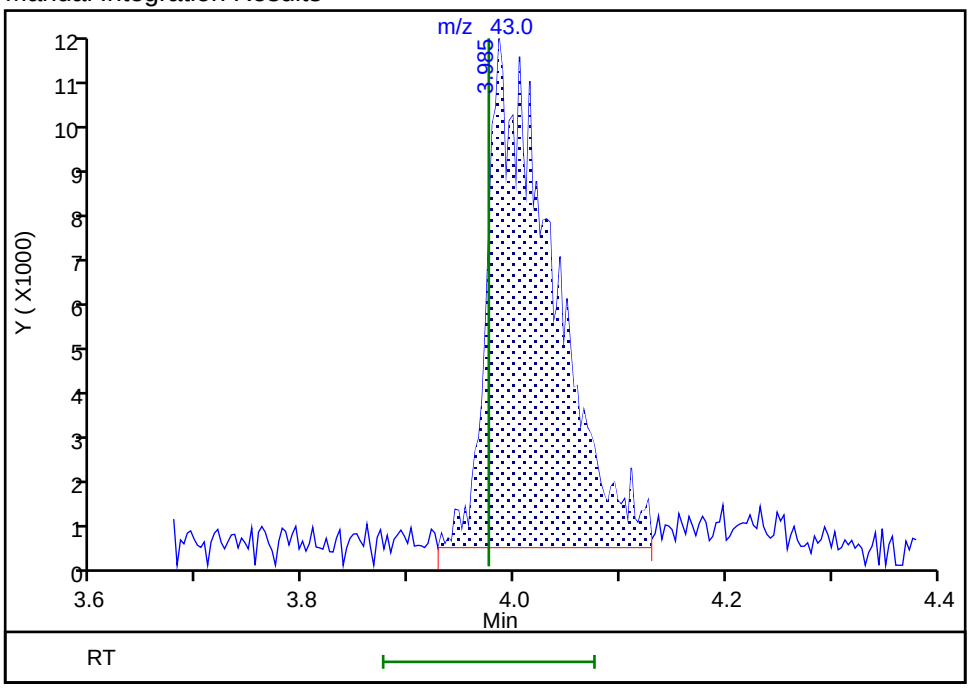
Processing Integration Results

RT: 3.99
Area: 16894
Amount: 3.902544
Amount Units: ug/l



Manual Integration Results

RT: 3.99
Area: 46141
Amount: 3.784195
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:48:58
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

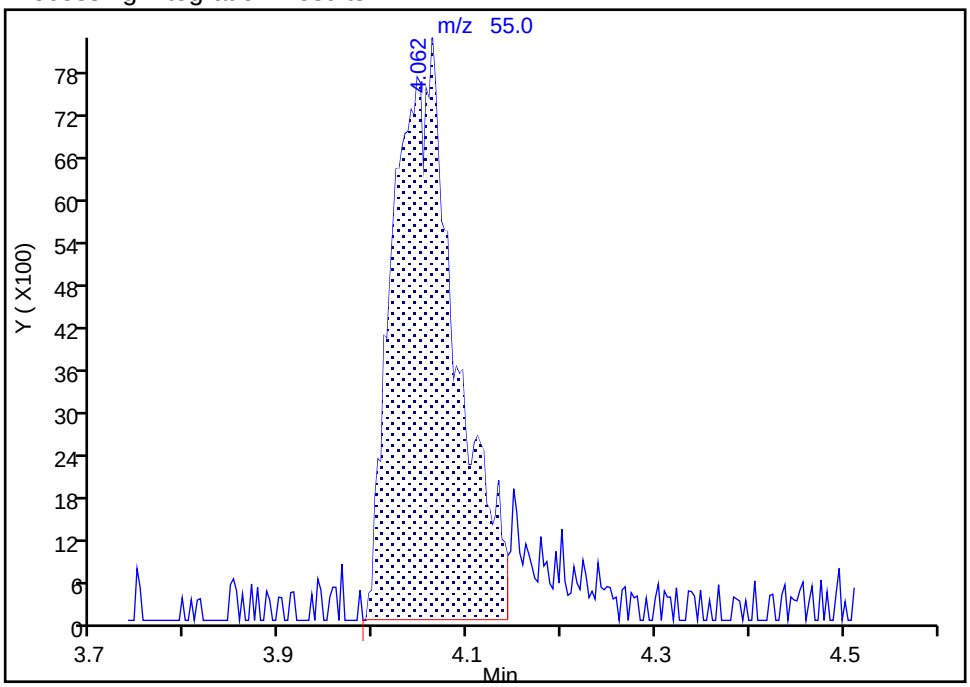
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X08.D
Injection Date: 08-Mar-2023 18:29:30 Instrument ID: 9137
Lims ID: IC sm v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

46 Methyl acrylate, CAS: 96-33-3

Signal: 1

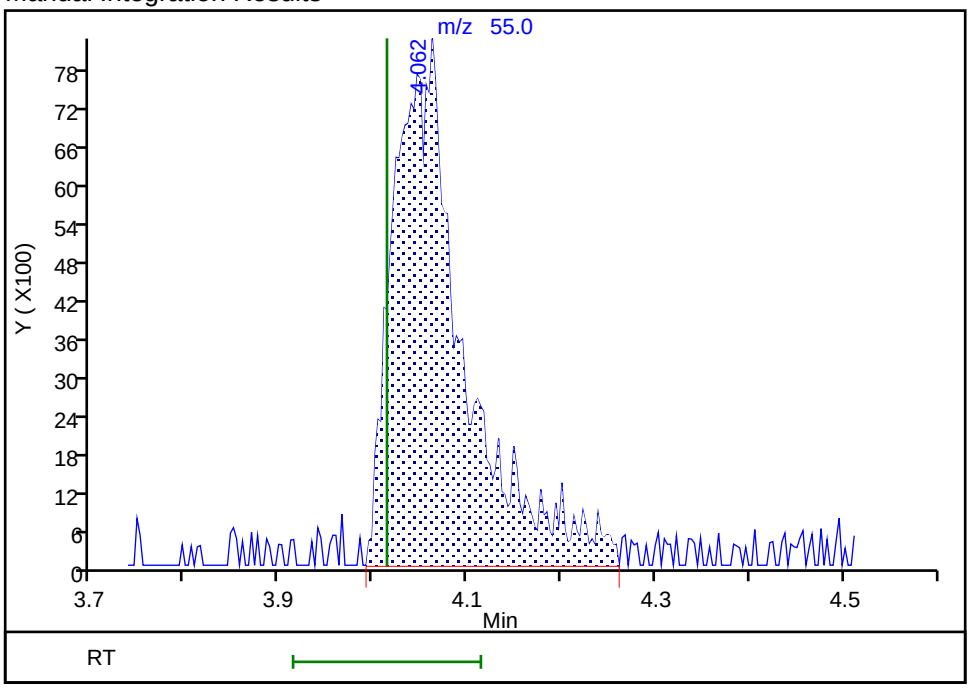
Processing Integration Results

RT: 4.06
Area: 37421
Amount: 3.657103
Amount Units: ug/l



Manual Integration Results

RT: 4.06
Area: 42297
Amount: 4.053147
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:49:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

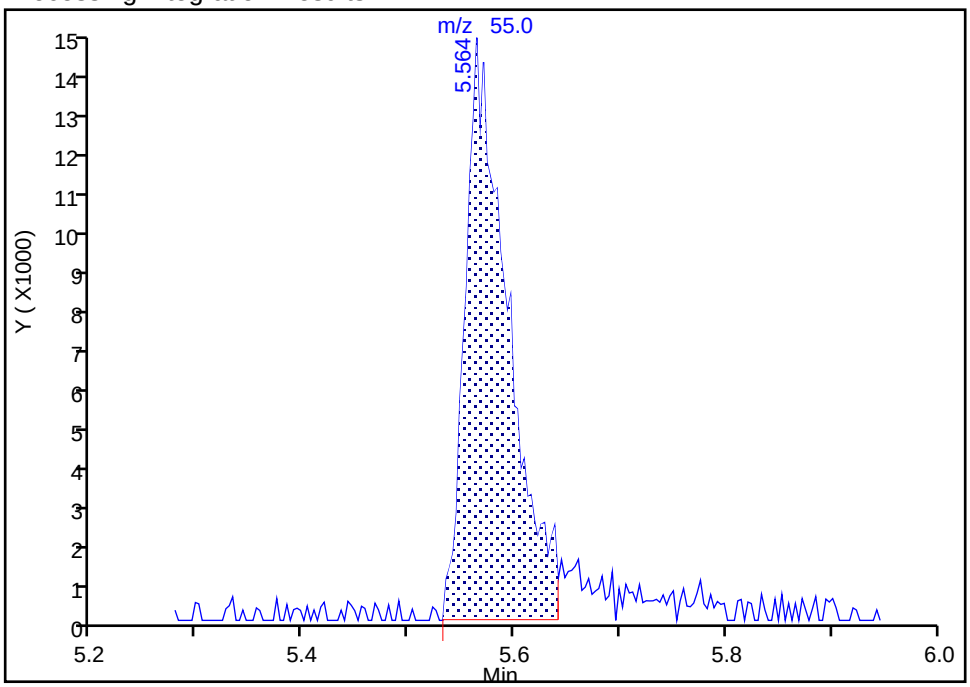
Data File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X08.D				
Injection Date:	08-Mar-2023 18:29:30	Instrument ID:	9137		
Lims ID:	IC sm v4				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	8	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

67 Ethyl acrylate, CAS: 140-88-5

Signal: 1

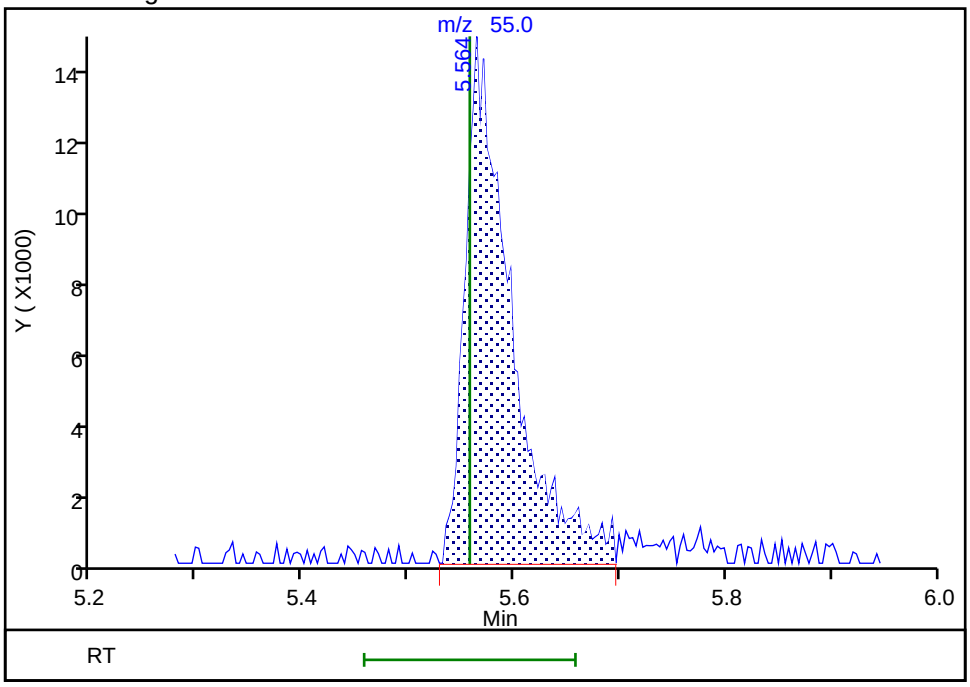
Processing Integration Results

RT: 5.56
Area: 41666
Amount: 3.451117
Amount Units: ug/l



Manual Integration Results

RT: 5.56
Area: 44874
Amount: 3.676136
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:49:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Chlorotrifluoroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

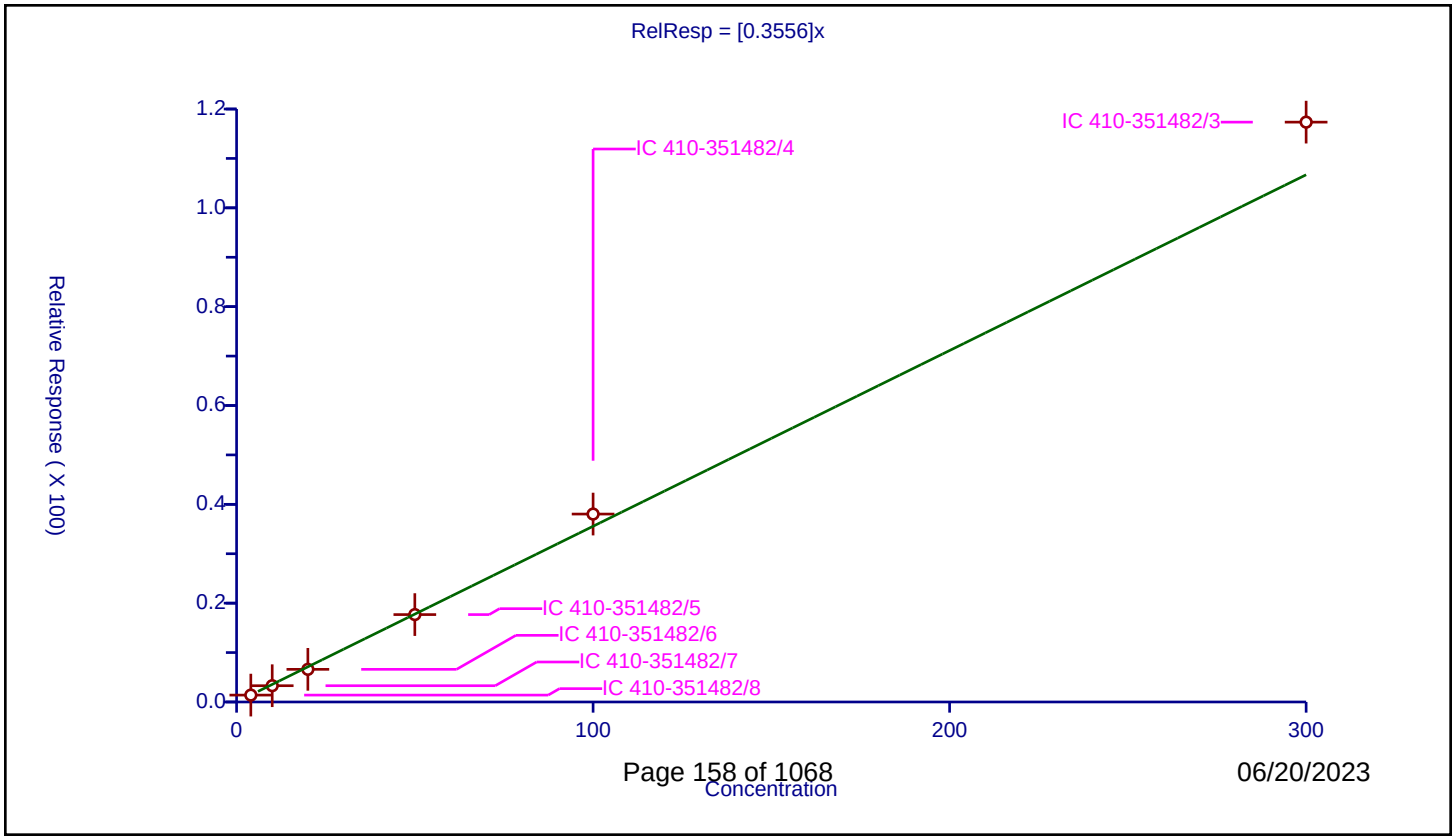
Curve Coefficients

Intercept:	0
Slope:	0.3556

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0	1.3954	50.0	1116920.0	0.34885	Y
2	IC 410-351482/7	10.0	3.294645	50.0	1132292.0	0.329464	Y
3	IC 410-351482/6	20.0	6.60534	50.0	1147352.0	0.330267	Y
4	IC 410-351482/5	50.0	17.689031	50.0	1147112.0	0.353781	Y
5	IC 410-351482/4	100.0	38.031715	50.0	1179768.0	0.380317	Y
6	IC 410-351482/3	300.0	117.343529	50.0	1170549.0	0.391145	Y



Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

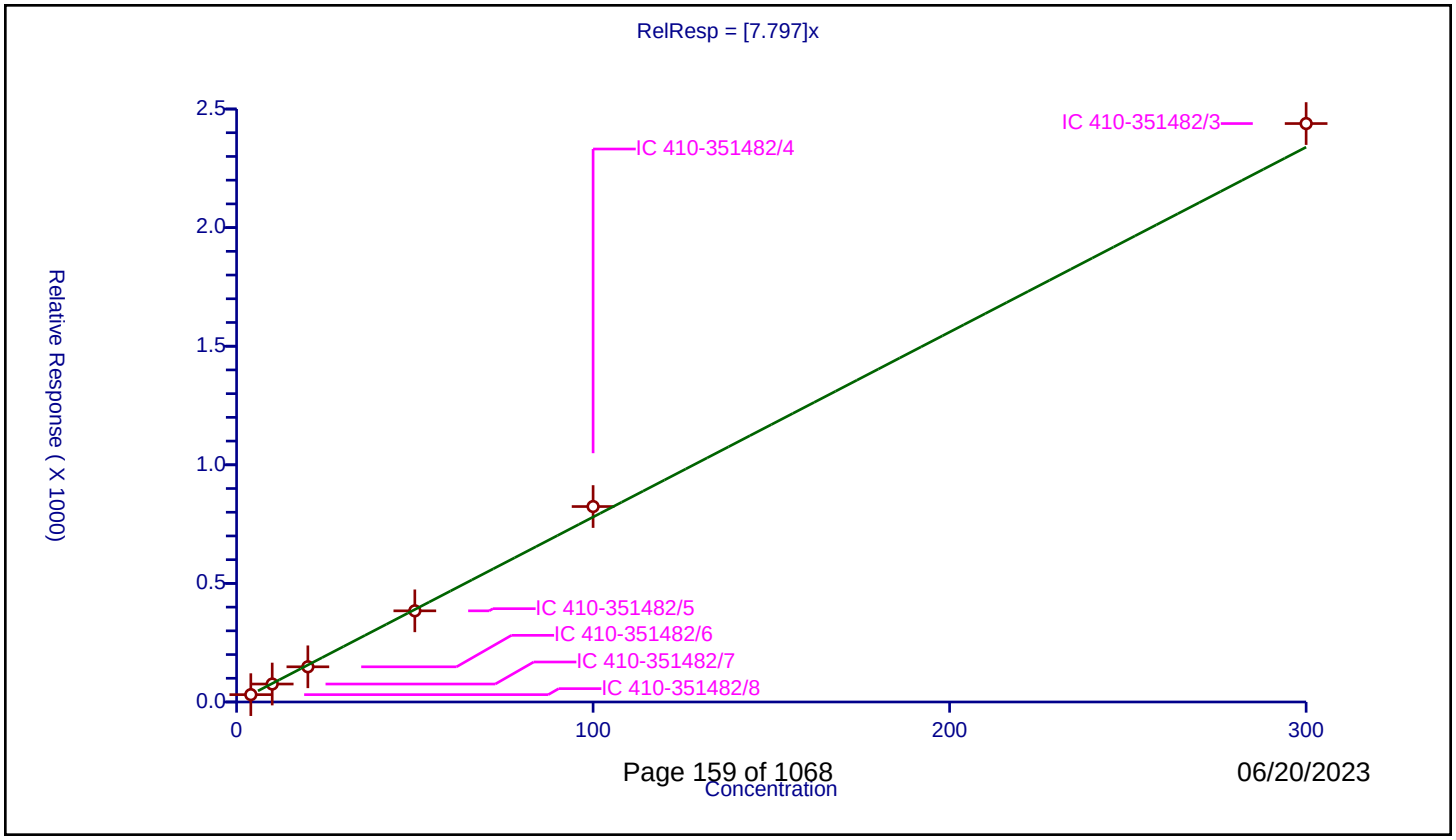
Curve Coefficients

Intercept:	0
Slope:	7.797

Error Coefficients

Standard Error:	2340000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0	30.950636	250.0	469328.0	7.737659	Y
2	IC 410-351482/7	10.0	75.72326	250.0	486789.0	7.572326	Y
3	IC 410-351482/6	20.0	148.399439	250.0	486267.0	7.419972	Y
4	IC 410-351482/5	50.0	384.280921	250.0	506092.0	7.685618	Y
5	IC 410-351482/4	100.0	823.995149	250.0	508807.0	8.239951	Y
6	IC 410-351482/3	300.0	2438.711711	250.0	502131.0	8.129039	Y



Calibration / 2-Chloro-1,1,1-Trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

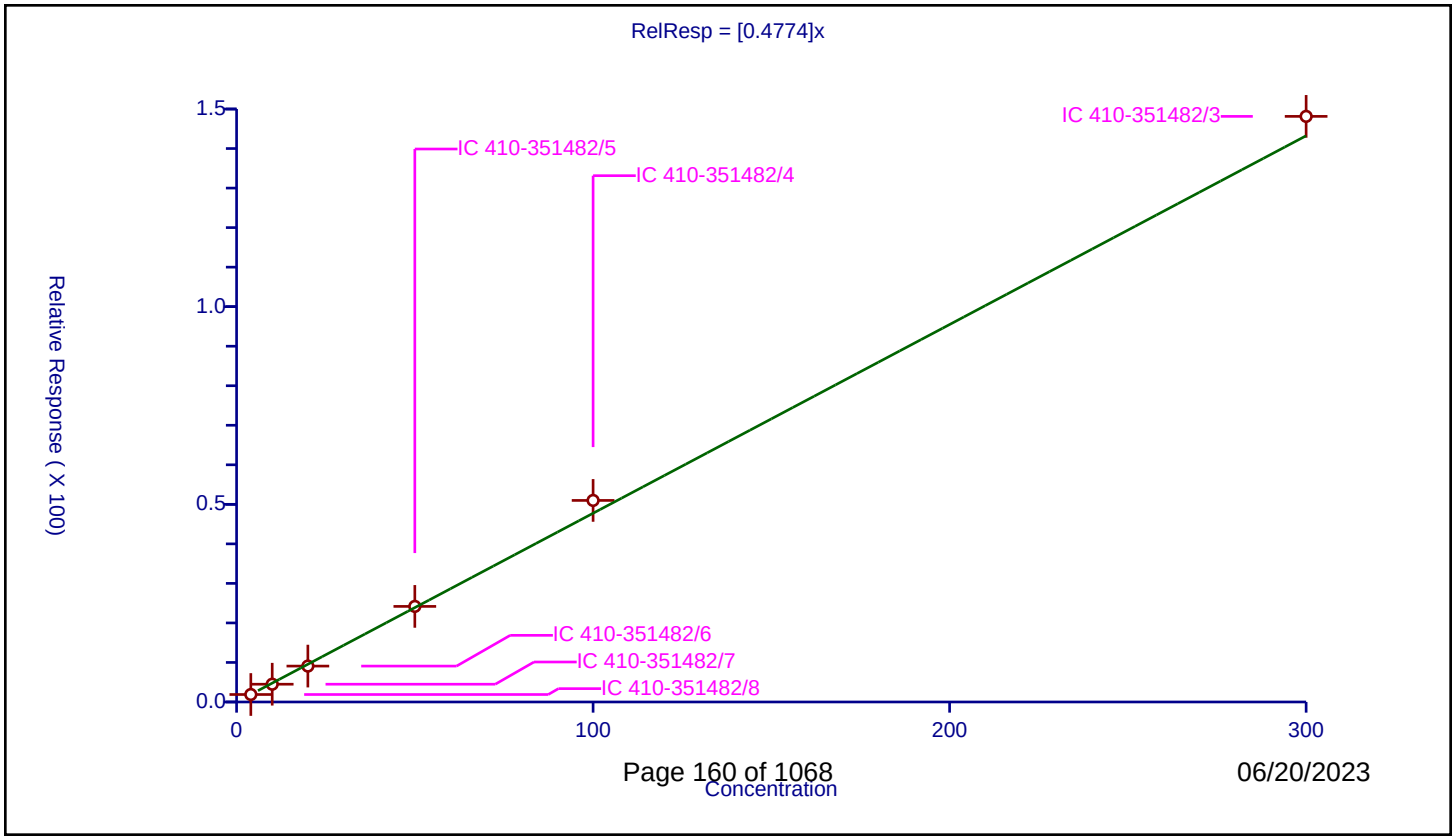
Curve Coefficients

Intercept:	0
Slope:	0.4774

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0	1.89463	50.0	1116920.0	0.473657	Y
2	IC 410-351482/7	10.0	4.496632	50.0	1132292.0	0.449663	Y
3	IC 410-351482/6	20.0	9.080518	50.0	1147352.0	0.454026	Y
4	IC 410-351482/5	50.0	24.180551	50.0	1147112.0	0.483611	Y
5	IC 410-351482/4	100.0	50.986931	50.0	1179768.0	0.509869	Y
6	IC 410-351482/3	300.0	148.139634	50.0	1170549.0	0.493799	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

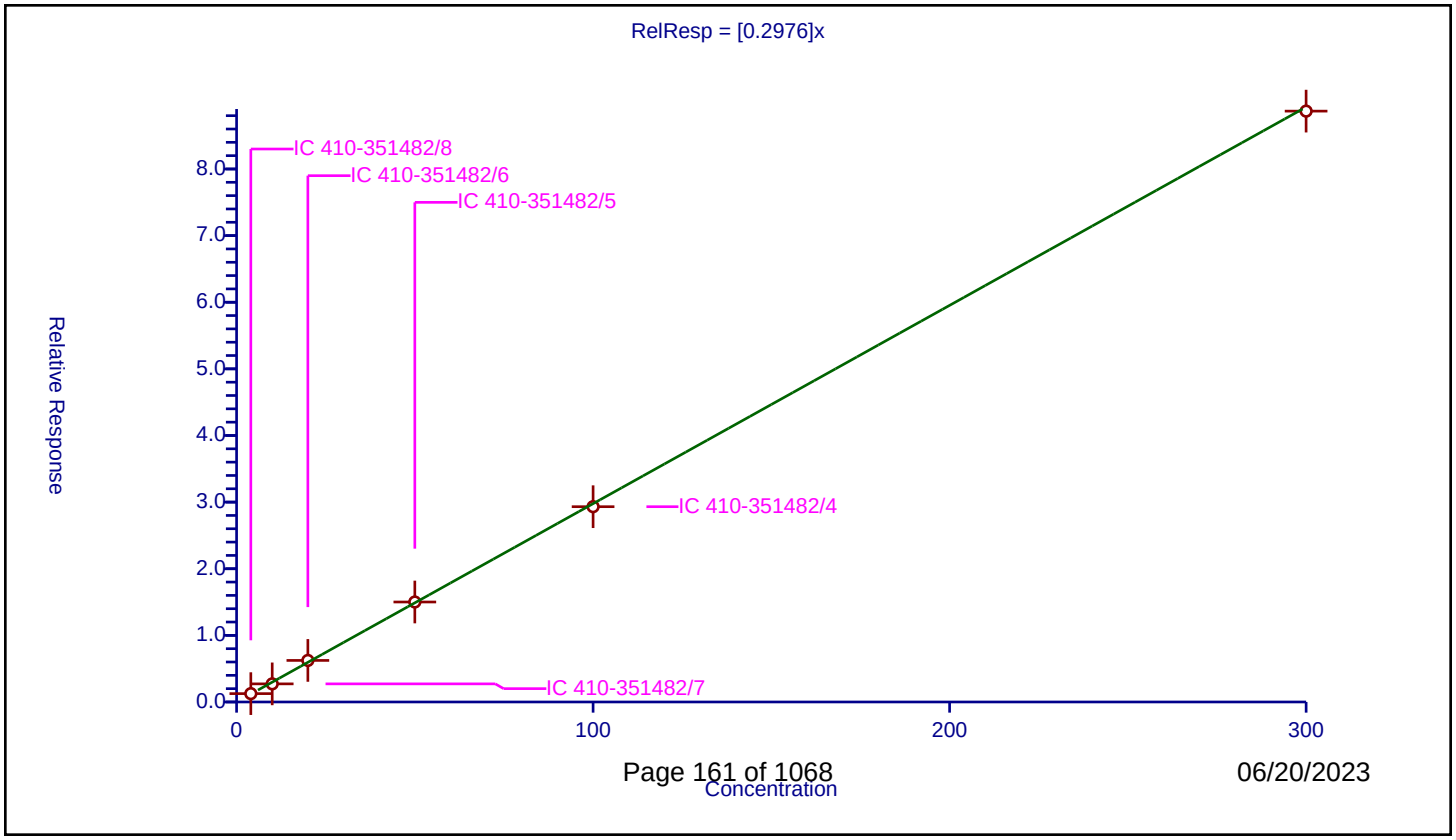
Curve Coefficients

Intercept:	0
Slope:	0.2976

Error Coefficients

Standard Error:	993000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	3.99997	1.252775	50.0	1116920.0	0.313196	Y
2	IC 410-351482/7	9.999924	2.720102	50.0	1132292.0	0.272012	Y
3	IC 410-351482/6	19.999848	6.235924	50.0	1147352.0	0.311799	Y
4	IC 410-351482/5	49.99962	15.007515	50.0	1147112.0	0.300153	Y
5	IC 410-351482/4	99.99924	29.311992	50.0	1179768.0	0.293122	Y
6	IC 410-351482/3	299.99772	88.684028	50.0	1170549.0	0.295616	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

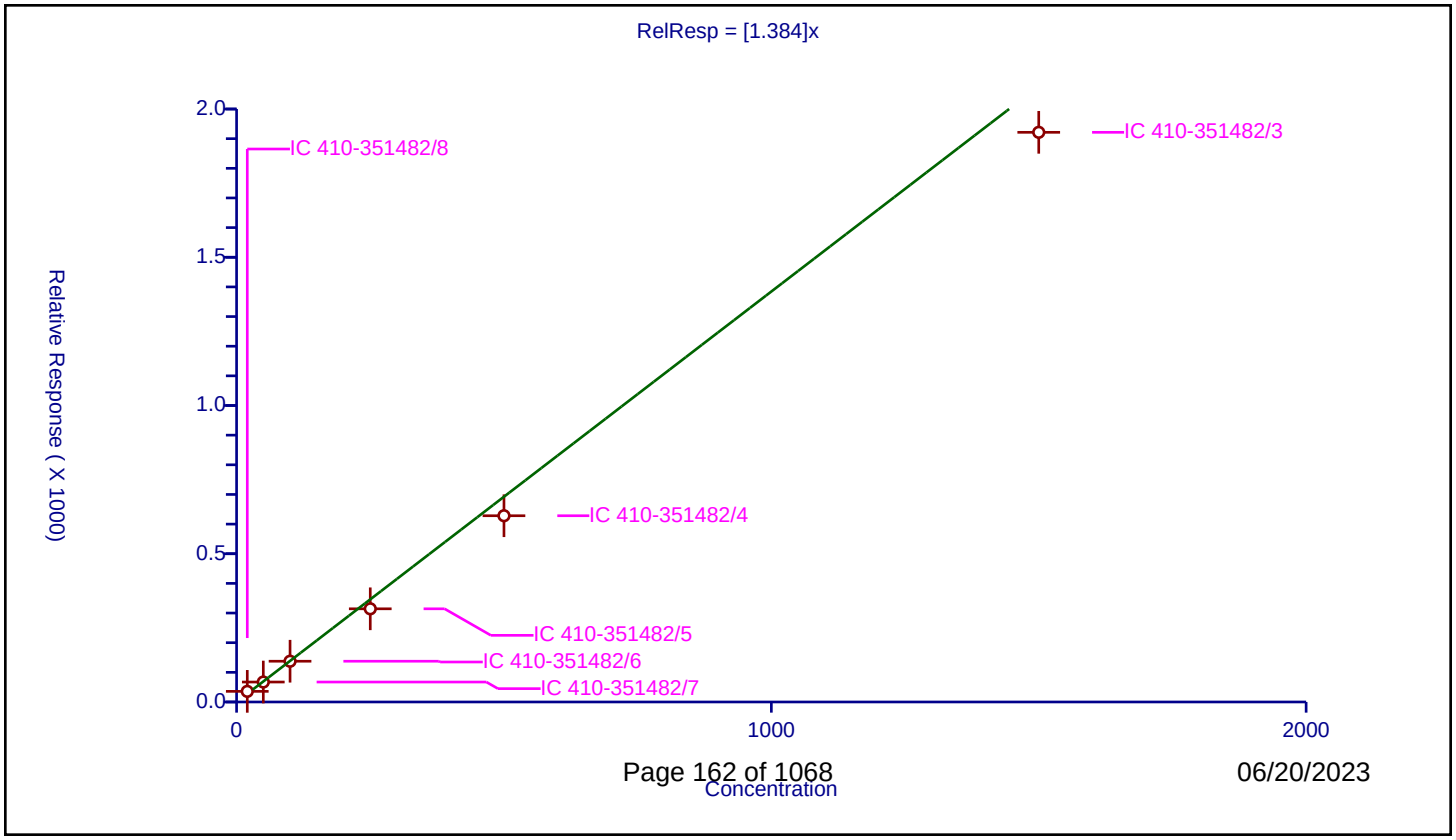
Curve Coefficients

Intercept:	0
Slope:	1.384

Error Coefficients

Standard Error:	1840000
Relative Standard Error:	14.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	20.0	35.801188	250.0	469328.0	1.790059	Y
2	IC 410-351482/7	50.0	67.335129	250.0	486789.0	1.346703	Y
3	IC 410-351482/6	100.0	137.506247	250.0	486267.0	1.375062	Y
4	IC 410-351482/5	250.0	314.330201	250.0	506092.0	1.257321	Y
5	IC 410-351482/4	500.0	628.218067	250.0	508807.0	1.256436	Y
6	IC 410-351482/3	1500.0	1921.398997	250.0	502131.0	1.280933	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

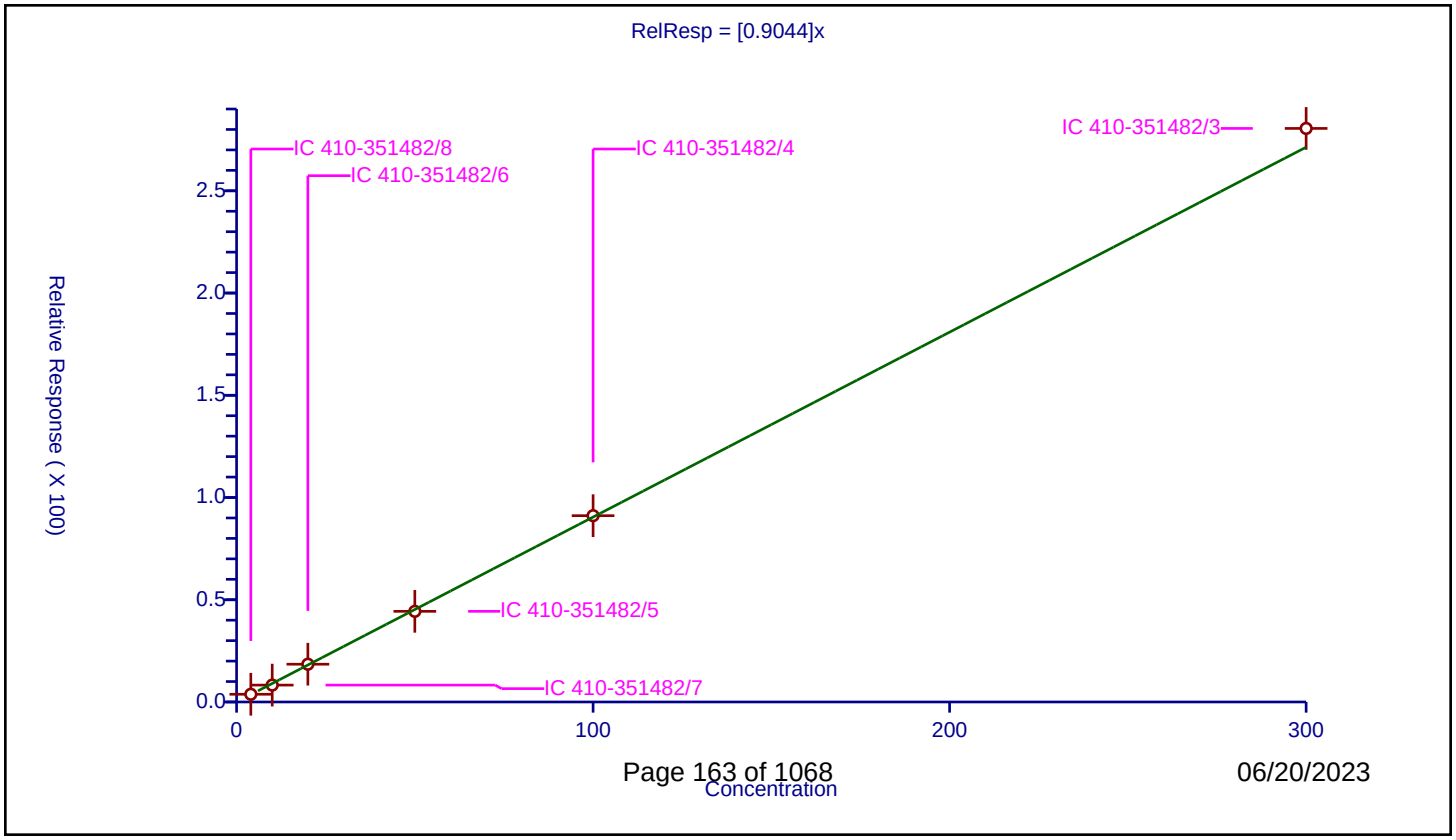
Curve Coefficients

Intercept:	0
Slope:	0.9044

Error Coefficients

Standard Error:	3130000
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	IC 410-351482/8	4.0	3.776099	50.0	1116920.0	0.944025	Y
2	IC 410-351482/7	10.0	8.255821	50.0	1132292.0	0.825582	Y
3	IC 410-351482/6	20.0	18.478505	50.0	1147352.0	0.923925	Y
4	IC 410-351482/5	50.0	44.336865	50.0	1147112.0	0.886737	Y
5	IC 410-351482/4	100.0	91.117152	50.0	1179768.0	0.911172	Y
6	IC 410-351482/3	300.0	280.500475	50.0	1170549.0	0.935002	Y



Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

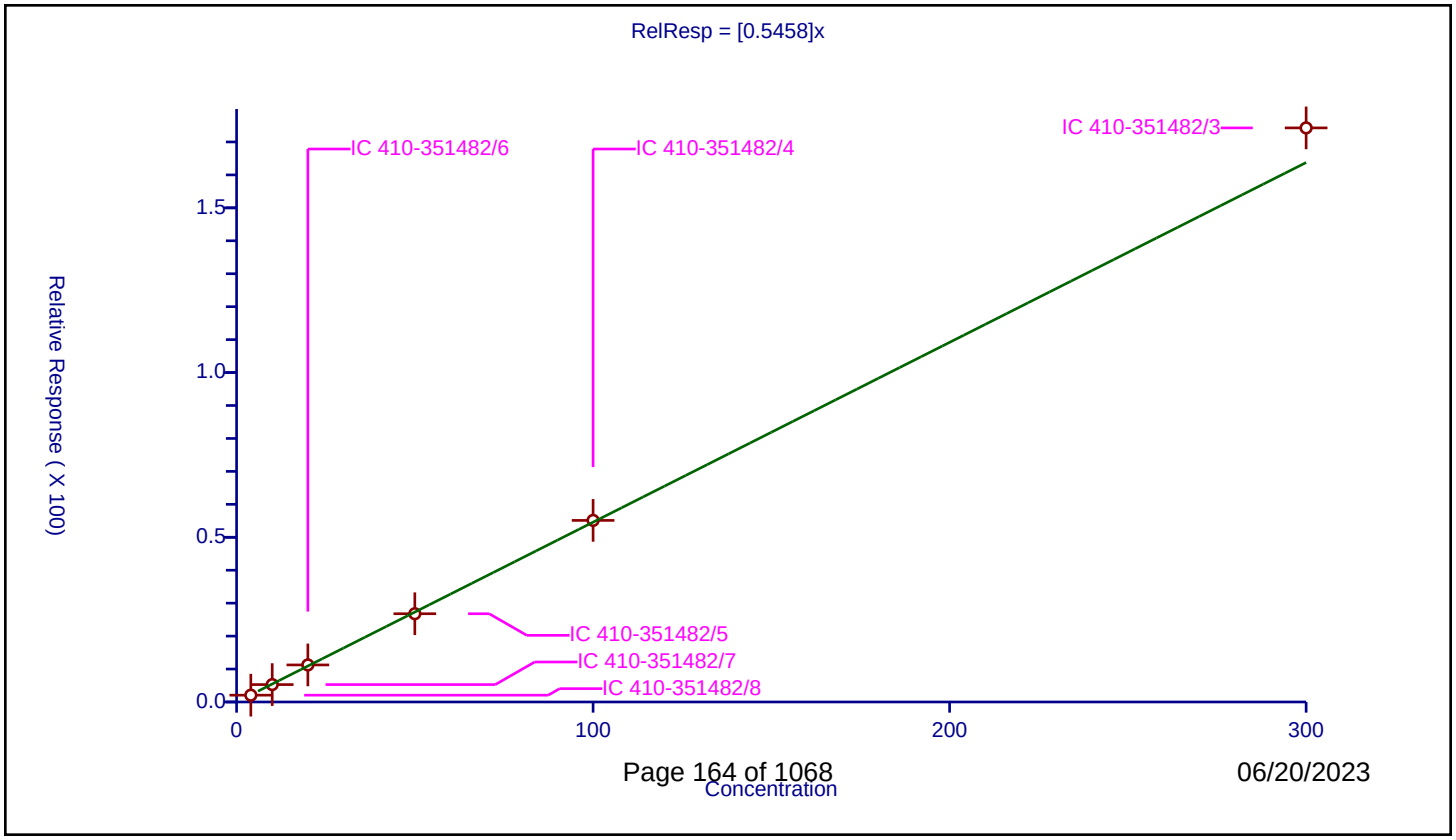
Curve Coefficients

Intercept:	0
Slope:	0.5458

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0	2.065546	50.0	1116920.0	0.516387	Y
2	IC 410-351482/7	10.0	5.282471	50.0	1132292.0	0.528247	Y
3	IC 410-351482/6	20.0	11.248815	50.0	1147352.0	0.562441	Y
4	IC 410-351482/5	50.0	26.790453	50.0	1147112.0	0.535809	Y
5	IC 410-351482/4	100.0	55.122533	50.0	1179768.0	0.551225	Y
6	IC 410-351482/3	300.0	174.270406	50.0	1170549.0	0.580901	Y



Calibration / Methyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

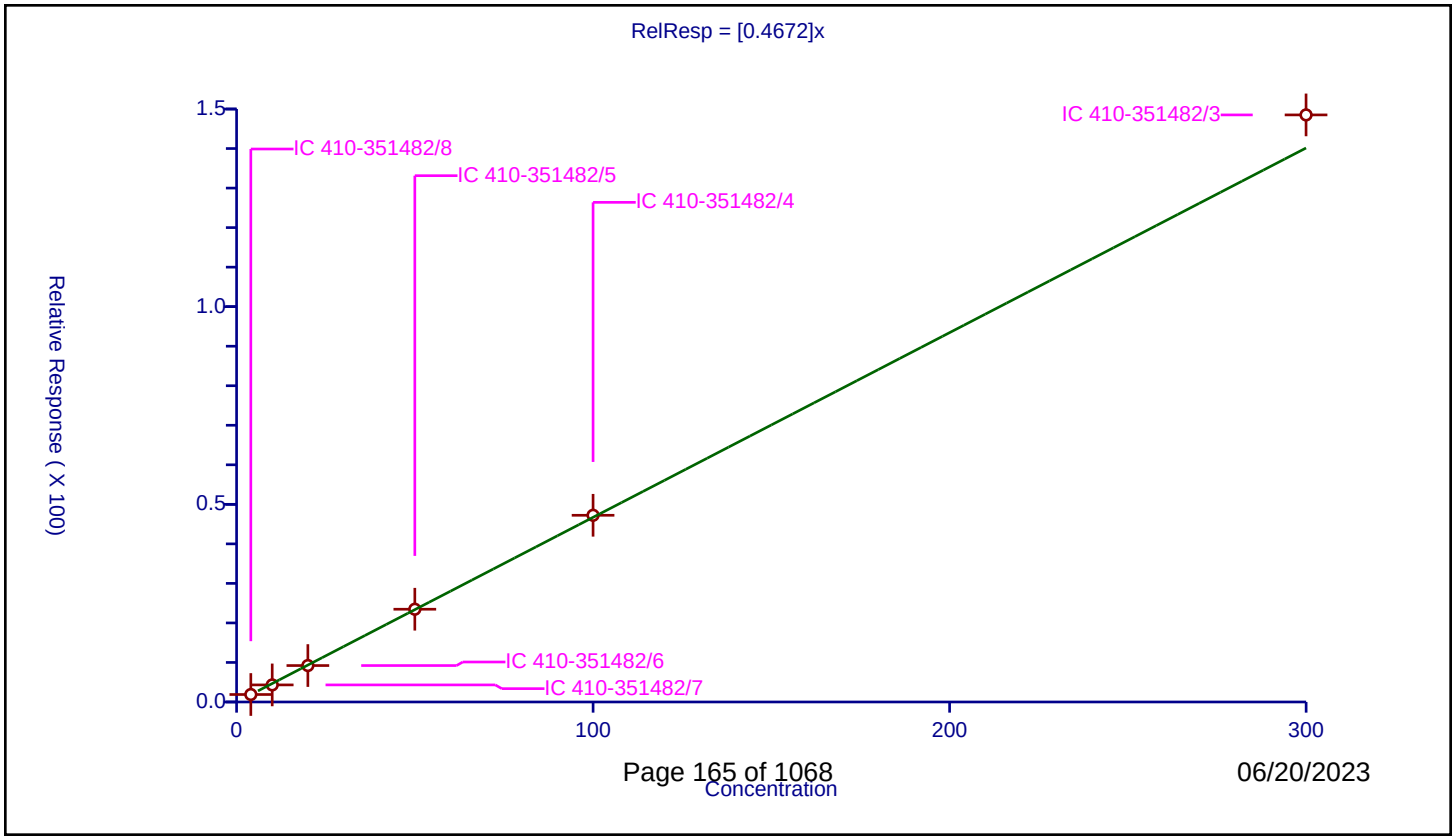
Curve Coefficients

Intercept:	0
Slope:	0.4672

Error Coefficients

Standard Error:	1650000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	3.999744	1.893466	50.0	1116920.0	0.473397	Y
2	IC 410-351482/7	9.99936	4.317791	50.0	1132292.0	0.431807	Y
3	IC 410-351482/6	19.99872	9.220579	50.0	1147352.0	0.461058	Y
4	IC 410-351482/5	49.9968	23.462835	50.0	1147112.0	0.469287	Y
5	IC 410-351482/4	99.9936	47.230811	50.0	1179768.0	0.472338	Y
6	IC 410-351482/3	299.9808	148.511468	50.0	1170549.0	0.49507	Y



06/20/2023

Calibration / Isopropyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

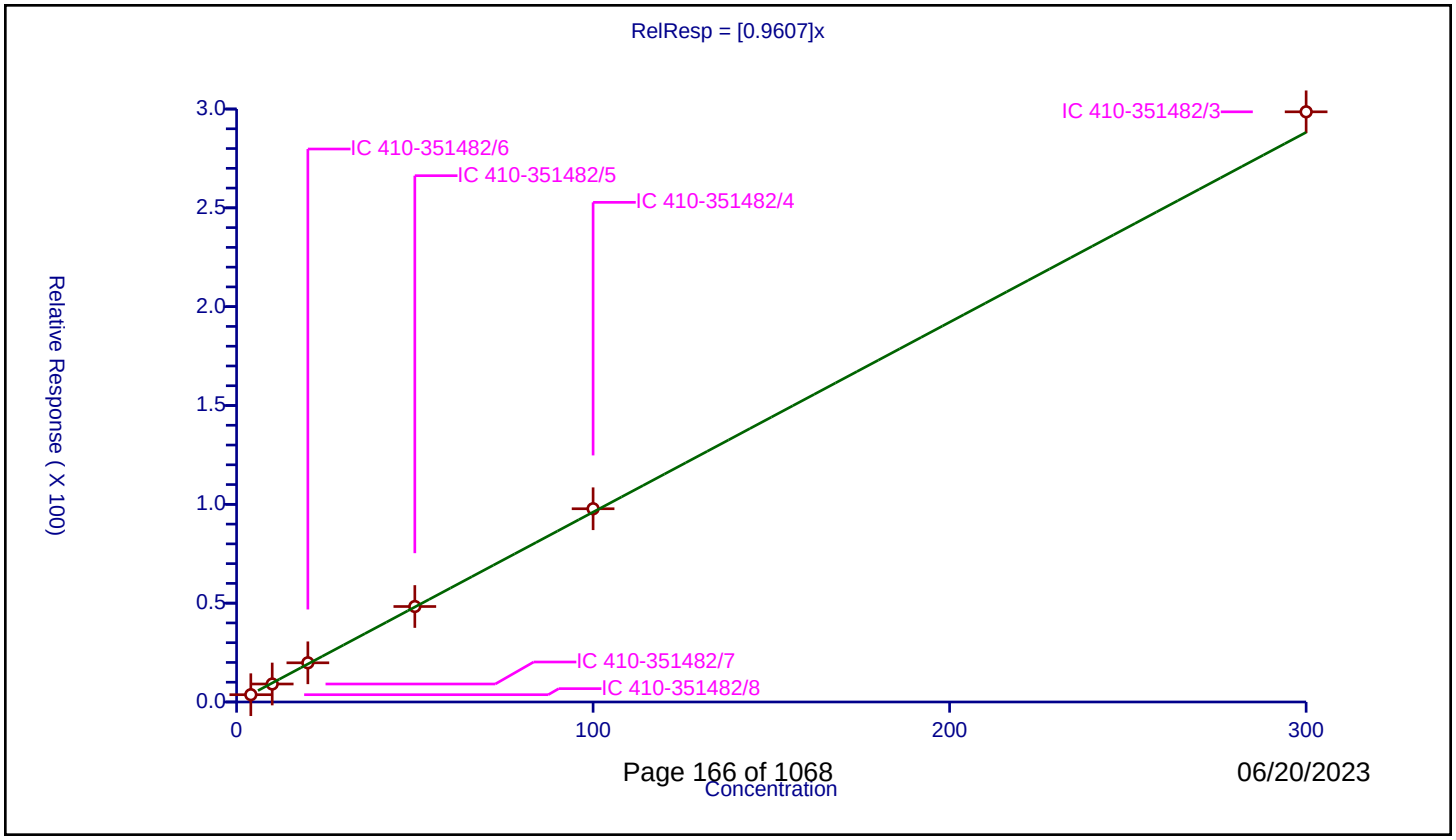
Curve Coefficients

Intercept:	0
Slope:	0.9607

Error Coefficients

Standard Error:	3340000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0	3.695878	50.0	1116920.0	0.923969	Y
2	IC 410-351482/7	10.0	9.09836	50.0	1132292.0	0.909836	Y
3	IC 410-351482/6	20.0	19.82613	50.0	1147352.0	0.991307	Y
4	IC 410-351482/5	50.0	48.310932	50.0	1147112.0	0.966219	Y
5	IC 410-351482/4	100.0	97.763543	50.0	1179768.0	0.977635	Y
6	IC 410-351482/3	300.0	298.588825	50.0	1170549.0	0.995296	Y



06/20/2023

Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

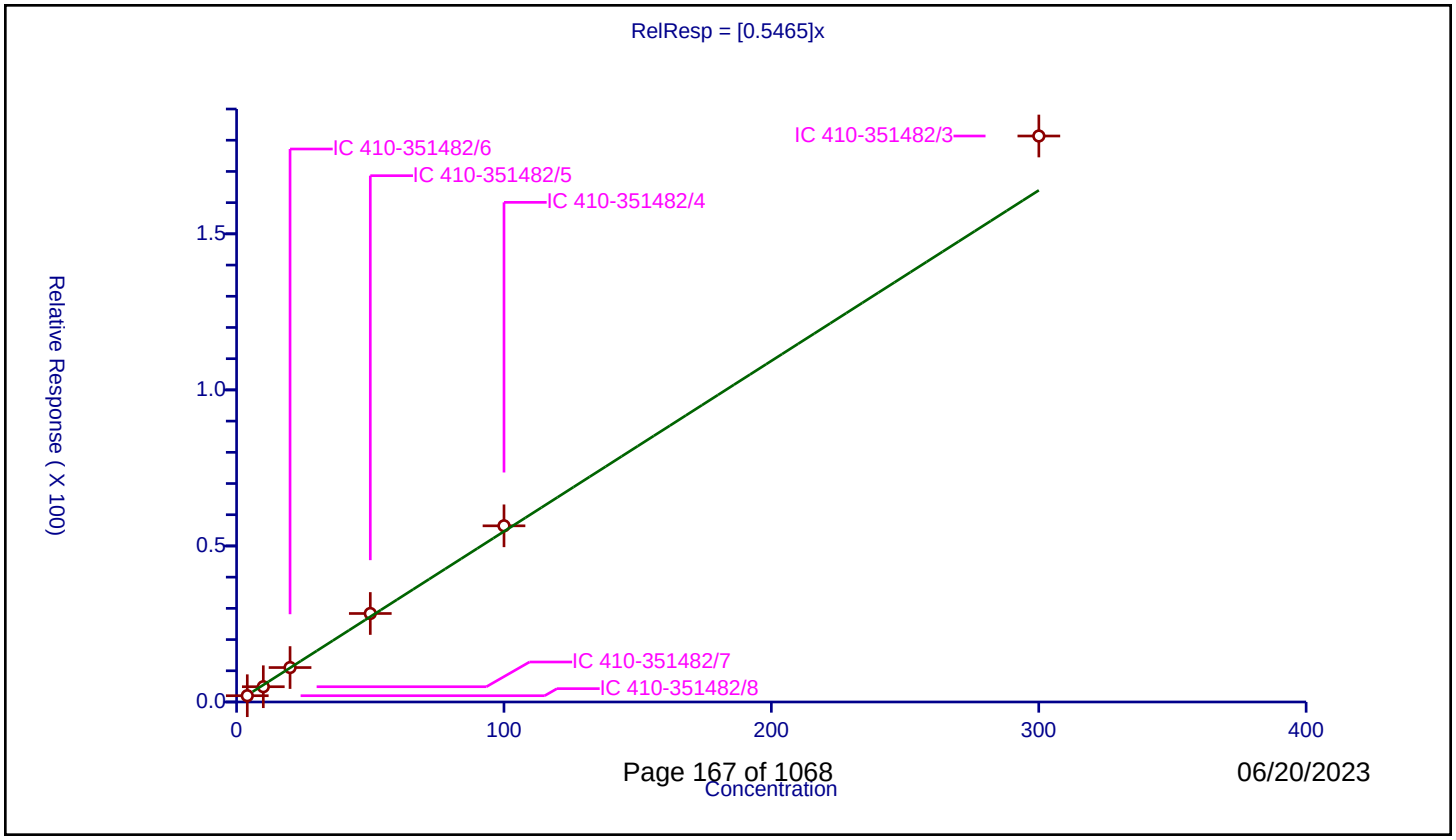
Curve Coefficients

Intercept:	0
Slope:	0.5465

Error Coefficients

Standard Error:	2010000
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	IC 410-351482/8	4.000586	2.008828	50.0	1116920.0	0.502133	Y
2	IC 410-351482/7	10.001464	4.890258	50.0	1132292.0	0.488954	Y
3	IC 410-351482/6	20.002928	11.03772	50.0	1147352.0	0.551805	Y
4	IC 410-351482/5	50.00732	28.35486	50.0	1147112.0	0.567014	Y
5	IC 410-351482/4	100.01464	56.446098	50.0	1179768.0	0.564378	Y
6	IC 410-351482/3	300.04392	181.352639	50.0	1170549.0	0.60442	Y



06/20/2023

Calibration / n-Propyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

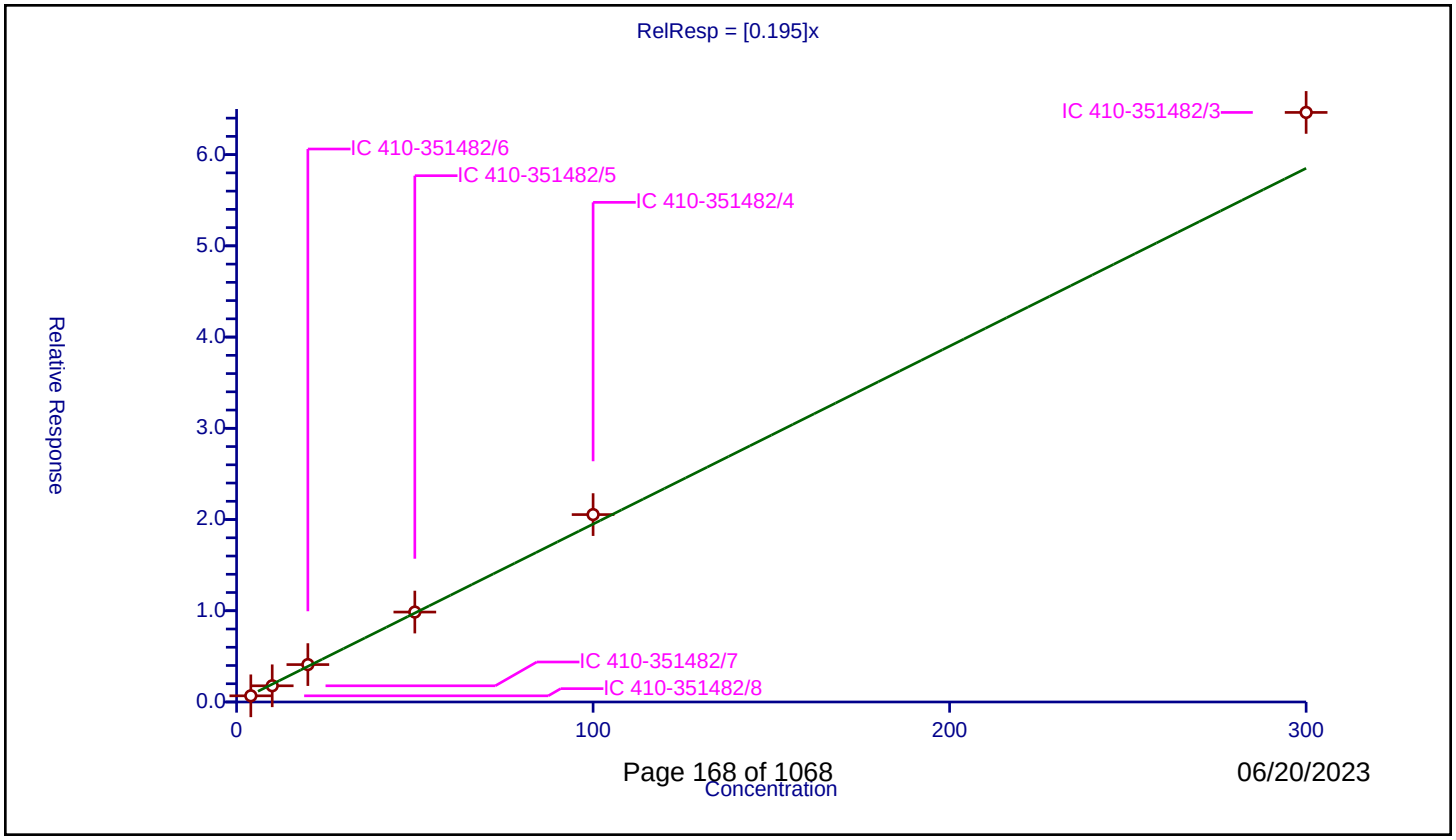
Curve Coefficients

Intercept:	0
Slope:	0.195

Error Coefficients

Standard Error:	719000
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	IC 410-351482/8	4.0	0.677399	50.0	1116920.0	0.16935	Y
2	IC 410-351482/7	10.0	1.776706	50.0	1132292.0	0.177671	Y
3	IC 410-351482/6	20.0	4.100921	50.0	1147352.0	0.205046	Y
4	IC 410-351482/5	50.0	9.857538	50.0	1147112.0	0.197151	Y
5	IC 410-351482/4	100.0	20.542895	50.0	1179768.0	0.205429	Y
6	IC 410-351482/3	300.0	64.625146	50.0	1170549.0	0.215417	Y



Calibration / 3,4-Dichloro-1-butene

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

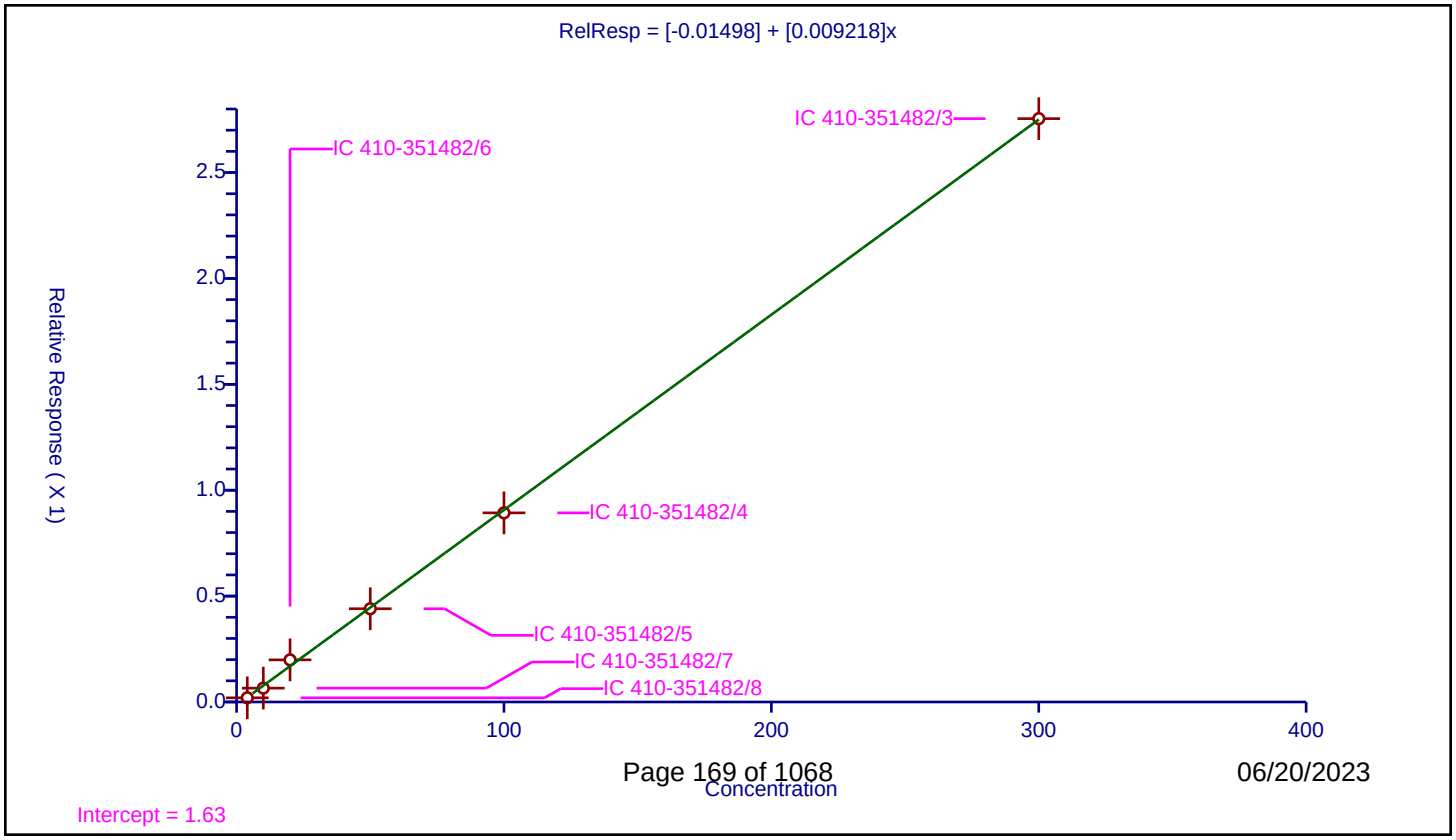
Curve Coefficients

Intercept:	-0.01498
Slope:	0.009218

Error Coefficients

Standard Error:	24200
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0003	0.019756	50.0	776992.0	0.004939	Y
2	IC 410-351482/7	10.00075	0.06536	50.0	781825.0	0.006535	Y
3	IC 410-351482/6	20.0015	0.198875	50.0	788185.0	0.009943	Y
4	IC 410-351482/5	50.00375	0.440292	50.0	797425.0	0.008805	Y
5	IC 410-351482/4	100.0075	0.892958	50.0	806197.0	0.008929	Y
6	IC 410-351482/3	300.0225	2.754565	50.0	825938.0	0.009181	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

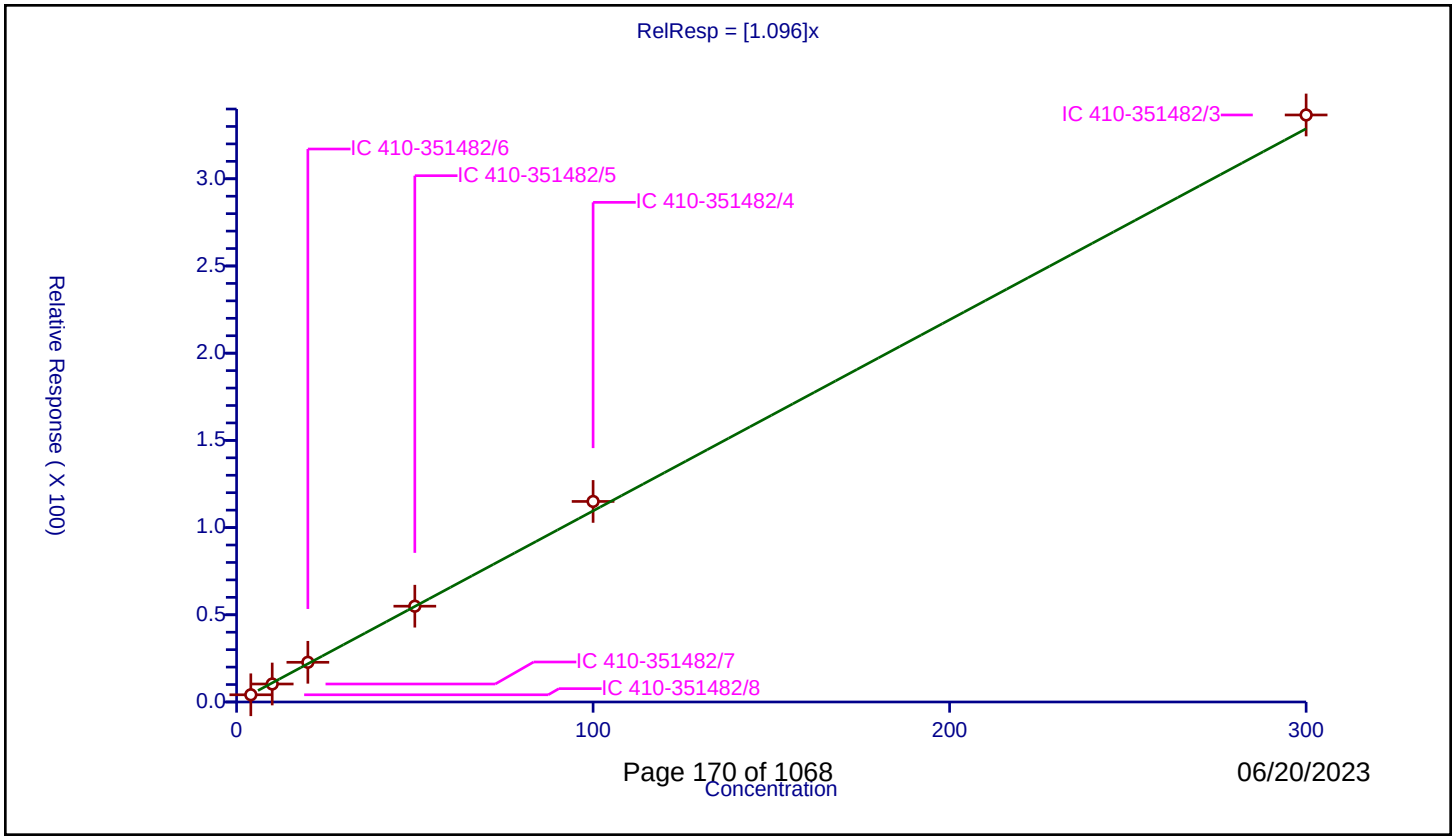
Curve Coefficients

Intercept:	0
Slope:	1.096

Error Coefficients

Standard Error:	2660000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0	4.138653	50.0	776992.0	1.034663	Y
2	IC 410-351482/7	10.0	10.314648	50.0	781825.0	1.031465	Y
3	IC 410-351482/6	20.0	22.753224	50.0	788185.0	1.137661	Y
4	IC 410-351482/5	50.0	54.936577	50.0	797425.0	1.098732	Y
5	IC 410-351482/4	100.0	114.98821	50.0	806197.0	1.149882	Y
6	IC 410-351482/3	300.0	336.596512	50.0	825938.0	1.121988	Y



Calibration / n-Butyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

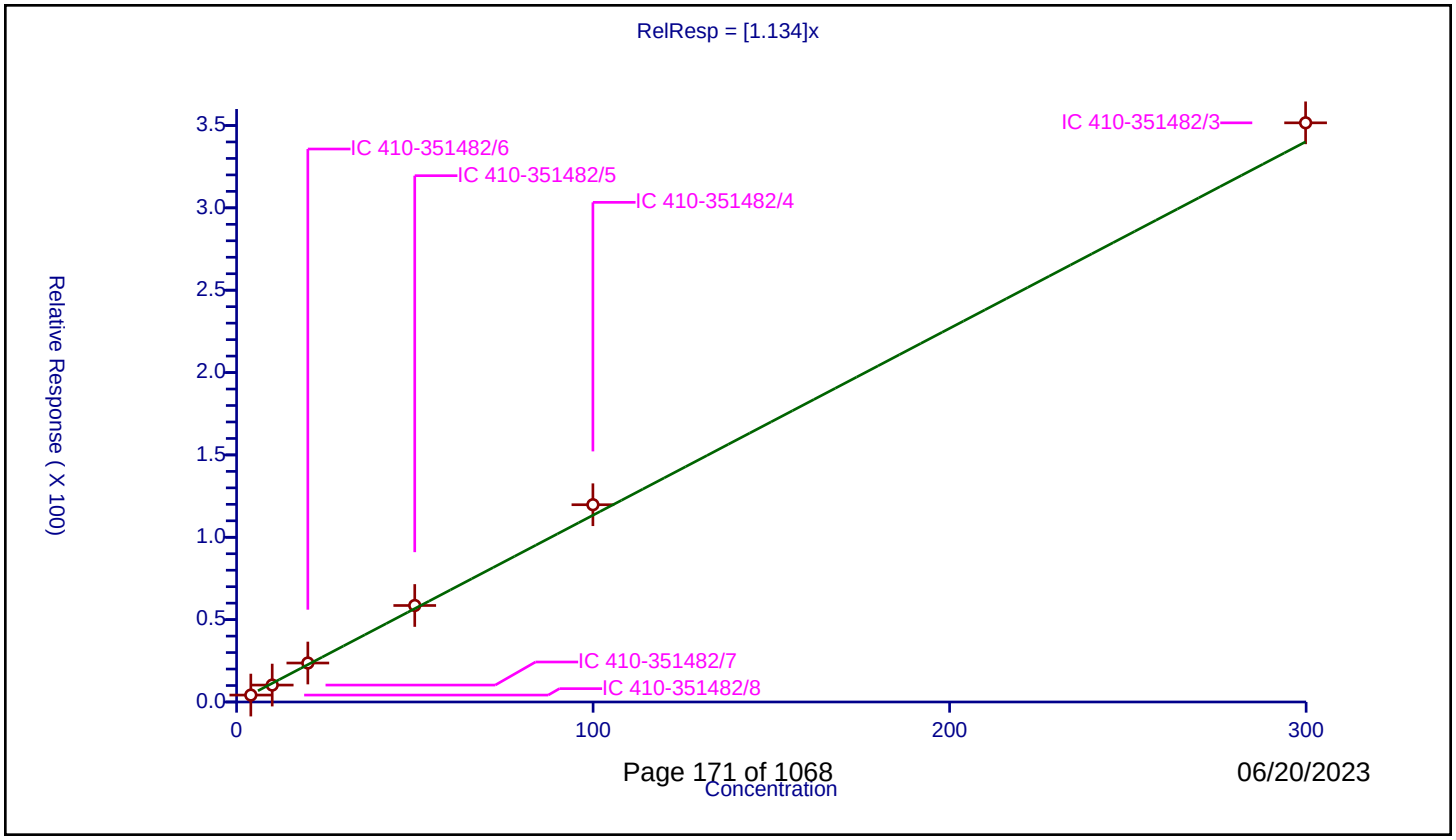
Curve Coefficients

Intercept:	0
Slope:	1.134

Error Coefficients

Standard Error:	2770000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	3.998098	4.200043	50.0	776992.0	1.05051	Y
2	IC 410-351482/7	9.995244	10.27666	50.0	781825.0	1.028155	Y
3	IC 410-351482/6	19.990488	23.653013	50.0	788185.0	1.183213	Y
4	IC 410-351482/5	49.97622	58.584945	50.0	797425.0	1.172256	Y
5	IC 410-351482/4	99.95244	119.768369	50.0	806197.0	1.198254	Y
6	IC 410-351482/3	299.85732	351.614589	50.0	825938.0	1.172606	Y



06/20/2023

Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

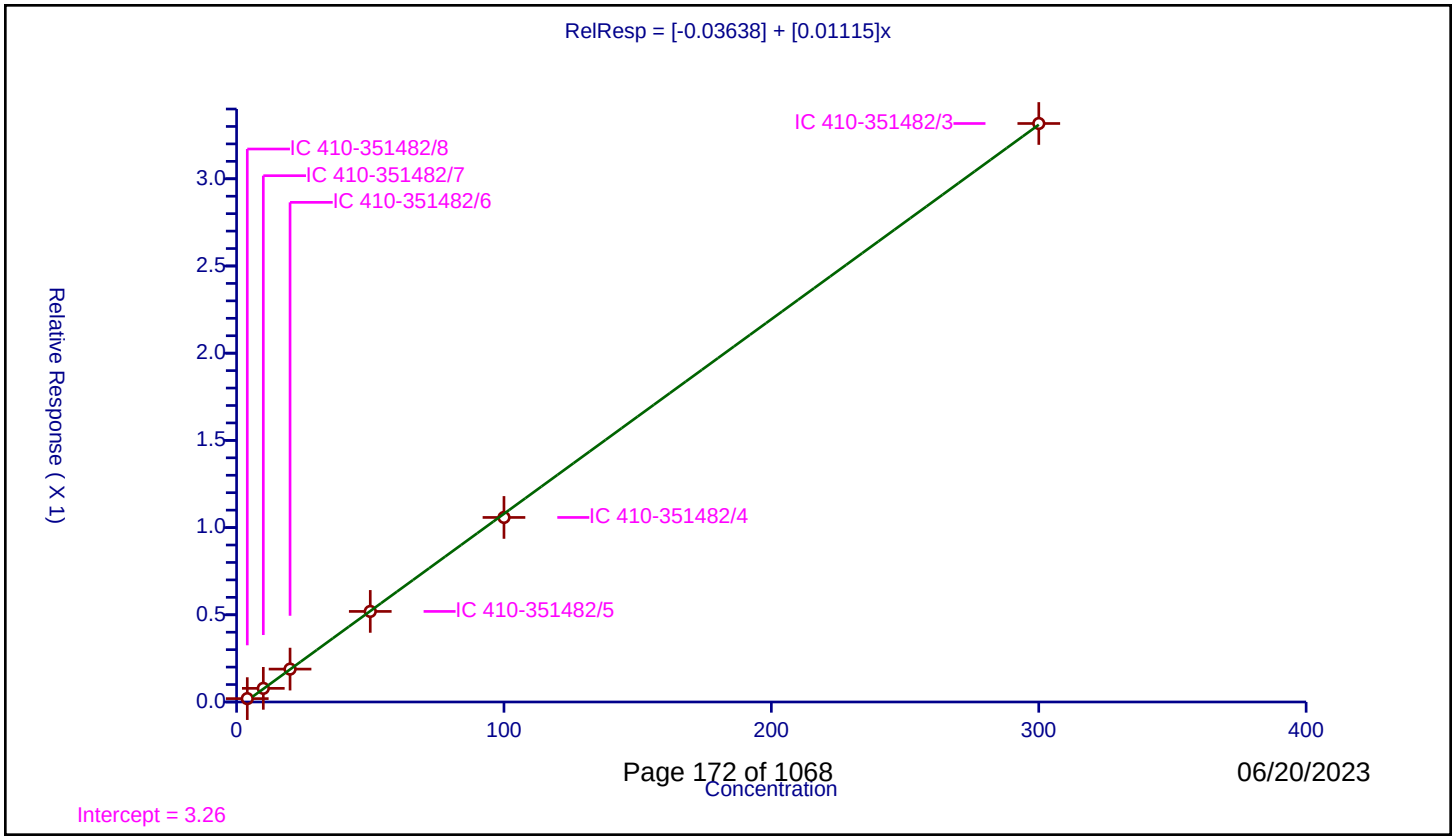
Curve Coefficients

Intercept:	-0.03638
Slope:	0.01115

Error Coefficients

Standard Error:	29000
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.000293	0.019305	50.0	776992.0	0.004826	Y
2	IC 410-351482/7	10.000734	0.078278	50.0	781825.0	0.007827	Y
3	IC 410-351482/6	20.001467	0.188534	50.0	788185.0	0.009426	Y
4	IC 410-351482/5	50.003668	0.519359	50.0	797425.0	0.010386	Y
5	IC 410-351482/4	100.007336	1.058116	50.0	806197.0	0.01058	Y
6	IC 410-351482/3	300.022008	3.316956	50.0	825938.0	0.011056	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

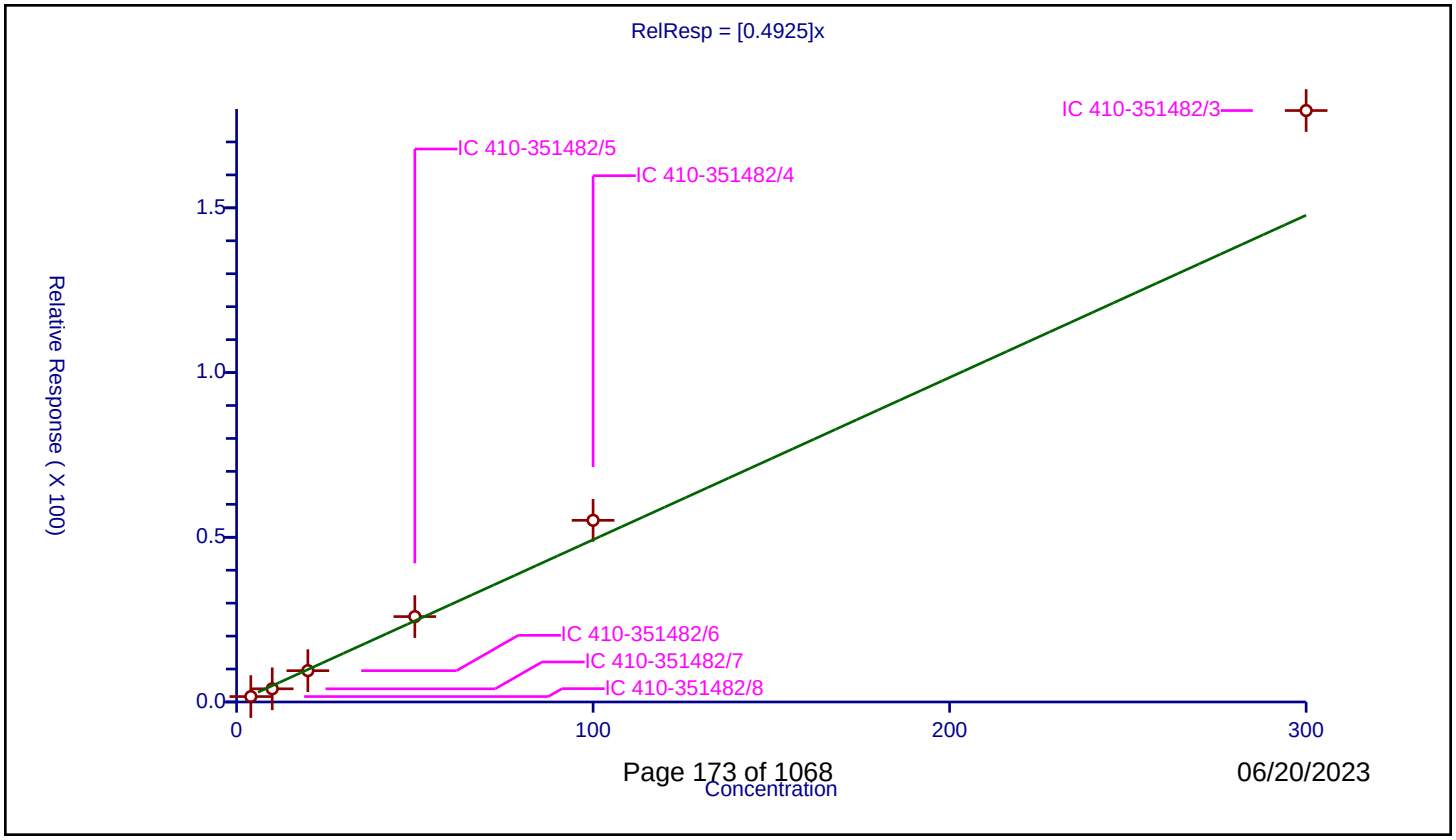
Curve Coefficients

Intercept:	0
Slope:	0.4925

Error Coefficients

Standard Error:	794000
Relative Standard Error:	15.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.0	1.645331	50.0	444713.0	0.411333	Y
2	IC 410-351482/7	10.0	4.001831	50.0	451031.0	0.400183	Y
3	IC 410-351482/6	20.0	9.505133	50.0	455233.0	0.475257	Y
4	IC 410-351482/5	50.0	25.926129	50.0	455795.0	0.518523	Y
5	IC 410-351482/4	100.0	55.144825	50.0	467392.0	0.551448	Y
6	IC 410-351482/3	300.0	179.53656	50.0	467849.0	0.598455	Y



Calibration / 2-Ethylhexyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

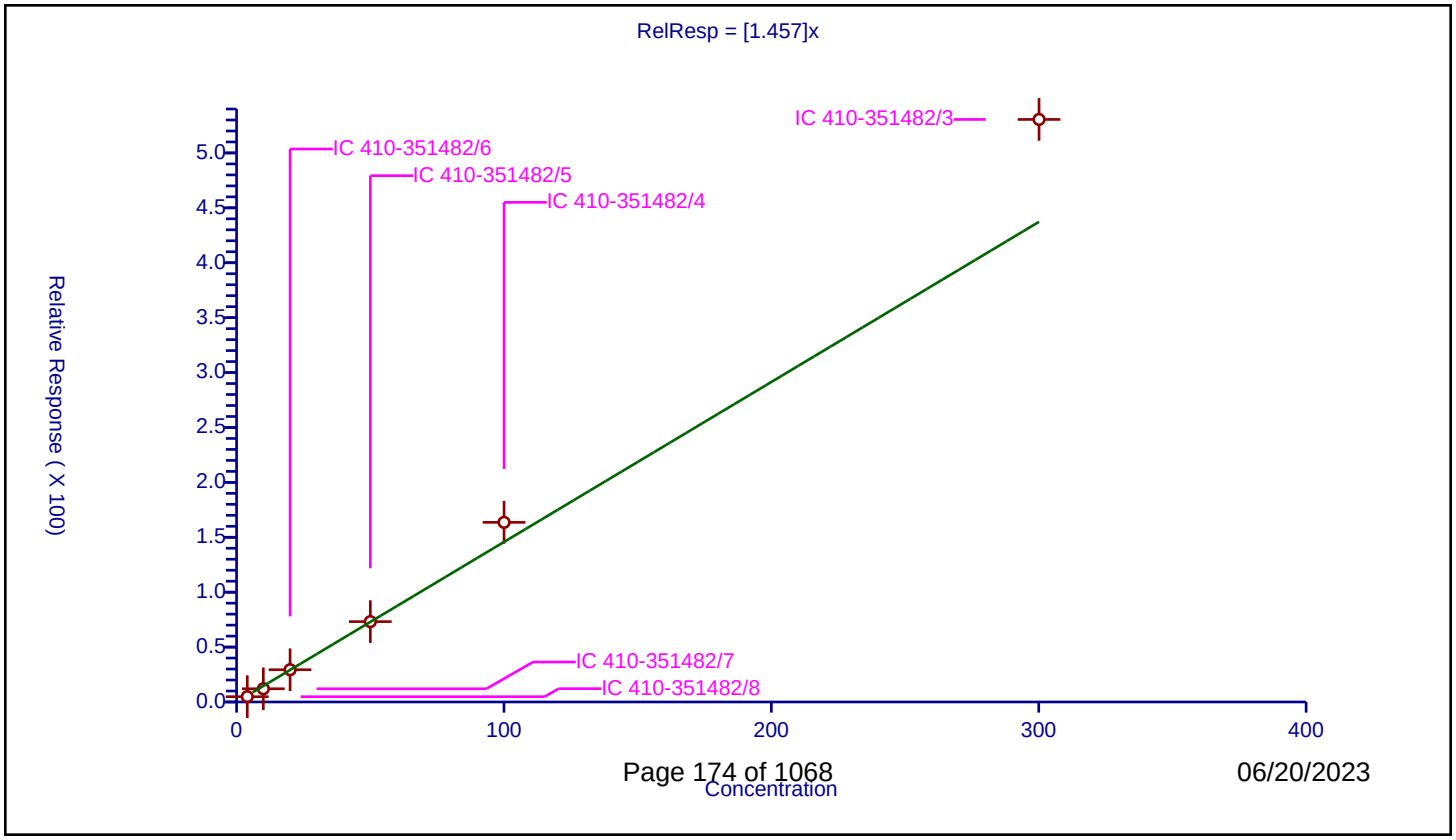
Curve Coefficients

Intercept:	0
Slope:	1.457

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	15.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/8	4.001587	4.820075	50.0	444713.0	1.204541	Y
2	IC 410-351482/7	10.003968	12.040082	50.0	451031.0	1.203531	Y
3	IC 410-351482/6	20.007936	29.382865	50.0	455233.0	1.468561	Y
4	IC 410-351482/5	50.01984	73.17566	50.0	455795.0	1.462933	Y
5	IC 410-351482/4	100.03968	163.582603	50.0	467392.0	1.635177	Y
6	IC 410-351482/3	300.11904	530.508668	50.0	467849.0	1.767661	Y



06/20/2023

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-351482/17	WM08X17.D
Level 2	IC 410-351482/16	WM08X16.D
Level 3	IC 410-351482/15	WM08X15.D
Level 4	IC 410-351482/14	WM08X14.D
Level 5	ICIS 410-351482/13	WM08X13.D
Level 6	IC 410-351482/12	WM08X12.D
Level 7	IC 410-351482/11	WM08X11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Dichlorodifluoromethane	0.4720 0.6673	0.5762 0.5825	0.6213	0.5481	0.6422	Ave		0.5871			0.1000	11.1		20.0			
Chloromethane	0.7925 0.6990	0.7098 0.6156	0.6844	0.6202	0.6896	Ave		0.6873			0.1000	8.7		20.0			
1,3-Butadiene	0.6613 0.6608	0.6823 0.5867	0.6520	0.5675	0.6542	Ave		0.6378				6.7		20.0			
Vinyl chloride	0.6245 0.7204	0.7152 0.6308	0.7059	0.6049	0.6929	Ave		0.6707			0.1000	7.3		20.0			
Bromomethane	0.4064 0.3989	0.4063 0.3536	0.3971	0.3500	0.3978	Ave		0.3871			0.1000	6.3		20.0			
Chloroethane	0.3437 0.3644	0.3696 0.3225	0.3379	0.3158	0.3652	Ave		0.3456			0.1000	6.3		20.0			
Dichlorofluoromethane	0.8130 0.8326	0.8542 0.7401	0.8199	0.7225	0.8389	Ave		0.8030			0.1000	6.4		20.0			
Trichlorofluoromethane	0.5731 0.7938	0.7084 0.7107	0.7407	0.6621	0.7761	Ave		0.7093			0.1000	10.5		20.0			
n-Pentane	0.7174 0.6976	0.7486 0.6807	0.6321	0.6421	0.7128	Ave		0.6902				6.1		20.0			
Freon 123a	0.4658 0.4949	0.4671 0.4439	0.4914	0.4190	0.4925	Ave		0.4678				6.1		20.0			
Ethanol	0.0987 0.0823	0.0822 0.0667	0.0853	0.0747	0.0795	Ave		0.0813				12.1		20.0			
Acrolein	1.8376 1.7754	1.6506 1.6830	1.7131	1.5158	1.7763	Ave		1.7074				6.2		20.0			
1,1-Dichloroethene	0.3564 0.3430	0.3765 0.3305	0.3287	0.3218	0.3535	Ave		0.3444			0.1000	5.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Freon 113	0.3984 0.4433	0.4702 0.4157	0.3997	0.4034	0.4392	Ave		0.4243			0.1000	6.4		20.0			
Acetone	0.5459 0.8766	0.9257 0.8457	0.7970	0.7579	0.8569	Ave		0.8008			0.1000	15.6		20.0			
2-Propanol	0.8132 0.8305	0.6932 0.7139	0.7679	0.7579	0.7718	Ave		0.7641				6.4		20.0			
Methyl iodide	0.5713 0.6105	0.6646 0.5725	0.6022	0.5774	0.6114	Ave		0.6014				5.5		20.0			
Carbon disulfide	1.2247 1.1793	1.2540 1.0894	1.1535	1.0760	1.1624	Ave		1.1628			0.1000	5.6		20.0			
Allyl chloride	0.6475 0.5822	0.6199 0.5592	0.5533	0.5528	0.6013	Ave		0.5880				6.2		20.0			
Methyl acetate	0.4387 0.4942	0.4943 0.4722	0.4118	0.4406	0.4944	Ave		0.4638			0.1000	7.2		20.0			
Methylene Chloride	0.5484 0.3739	0.4341 0.3447	0.3809	0.3584	0.3787	Ave		0.4027			0.1000	17.4		20.0			
t-Butyl alcohol	1.5248 1.3956	1.4639 1.2911	1.3631	1.2799	1.3714	Ave		1.3843				6.4		20.0			
Acrylonitrile	0.2609 0.2403	0.2350 0.2195	0.2458	0.2275	0.2480	Ave		0.2396				5.7		20.0			
Methyl tertiary butyl ether	1.1804 1.1555	1.2192 1.0617	1.1738	1.1059	1.1656	Ave		1.1517			0.1000	4.5		20.0			
trans-1,2-Dichloroethene	0.3683 0.3400	0.3778 0.3131	0.3311	0.3202	0.3440	Ave		0.3421			0.1000	7.0		20.0			
n-Hexane	0.5171 0.5996	0.6065 0.5470	0.5391	0.5461	0.5960	Ave		0.5645				6.3		20.0			
1,1-Dichloroethane	0.5890 0.6201	0.6646 0.5702	0.6176	0.5847	0.6282	Ave		0.6106			0.2000	5.2		20.0			
Isopropyl ether	1.1467 1.2046	1.2393 1.1040	1.1926	1.1159	1.2067	Ave		1.1728				4.4		20.0			
2-Chloro-1,3-butadiene	0.5546 0.5964	0.6515 0.5485	0.5787	0.5400	0.5915	Ave		0.5802				6.6		20.0			
Ethyl t-butyl ether	1.1883 1.1743	1.1952 1.0728	1.1554	1.0545	1.1486	Ave		1.1413				4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
2-Butanone	0.3772 0.3176	0.2772 0.2826	0.2780	0.2607	0.3101	Ave		0.3005			0.1000	13.0		20.0			
cis-1,2-Dichloroethene	0.3787 0.3726	0.4091 0.3399	0.3762	0.3514	0.3726	Ave		0.3715			0.1000	5.9		20.0			
2,2-Dichloropropane	0.5984 0.6165	0.6406 0.5808	0.5845	0.5677	0.6056	Ave		0.5992				4.1		20.0			
Propionitrile	1.4360 1.3153	1.2757 1.2973	1.3032	1.1868	1.3010	Ave		1.3022				5.6		20.0			
Methacrylonitrile	0.2166 0.2245	0.2198 0.2131	0.2133	0.2025	0.2257	Ave		0.2165				3.7		20.0			
Bromochloromethane	0.1724 0.1752	0.1817 0.1615	0.1815	0.1699	0.1776	Ave		0.1743				4.1		20.0			
Tetrahydrofuran	1.4252 1.0946	1.0515 1.0999	1.0963	0.9669	1.0757	Ave		1.1157				12.9		20.0			
Chloroform	0.5411 0.5760	0.6036 0.5295	0.5780	0.5367	0.5753	Ave		0.5629			0.2000	4.9		20.0			
1,1,1-Trichloroethane	0.5534 0.5788	0.6321 0.5529	0.5524	0.5349	0.5796	Ave		0.5692			0.1000	5.6		20.0			
Cyclohexane	0.7728 0.8422	0.8935 0.7923	0.7415	0.7574	0.8360	Ave		0.8051			0.1000	6.7		20.0			
1,1-Dichloropropene	0.4905 0.4889	0.5264 0.4682	0.4715	0.4503	0.4872	Ave		0.4833				4.9		20.0			
Carbon tetrachloride	0.4193 0.4878	0.4836 0.4726	0.4399	0.4338	0.4799	Ave		0.4596			0.1000	6.0		20.0			
Isobutyl alcohol	0.4619 0.3735	0.3977 0.3568	0.3676	0.3183	0.3750	Ave		0.3787				11.6		20.0			
Benzene	1.3260 1.4173	1.4571 1.3227	1.3879	1.2955	1.4114	Ave		1.3740			0.5000	4.4		20.0			
1,2-Dichloroethane	0.4837 0.4524	0.4778 0.4243	0.4398	0.4133	0.4519	Ave		0.4490			0.1000	5.8		20.0			
t-Amyl methyl ether	1.1076 1.1058	1.1025 1.0225	1.0977	1.0336	1.1112	Ave		1.0830				3.5		20.0			
n-Heptane	0.5517 0.5909	0.5391 0.5508	0.4824	0.5149	0.5828	Ave		0.5447				6.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
n-Butanol	0.1491 0.3132	0.2815 0.2878	0.2693	0.2631	0.3045	Lin2	-1.804	0.2965							0.9960		0.9900
Trichloroethene	0.3245 0.3568	0.3791 0.3440	0.3382	0.3234	0.3486	Ave		0.3449			0.2000	5.6		20.0			
Methylcyclohexane	0.6892 0.7977	0.8069 0.7641	0.6947	0.7158	0.7786	Ave		0.7496			0.1000	6.5		20.0			
1,2-Dichloropropane	0.3509 0.3742	0.3745 0.3541	0.3535	0.3370	0.3682	Ave		0.3589			0.1000	3.9		20.0			
t-Amyl ethyl ether	0.4530 0.5331	0.5283 0.4967	0.4967	0.4719	0.5252	Ave		0.5007				6.1		20.0			
Dibromomethane	0.2154 0.2185	0.2177 0.2061	0.2110	0.1974	0.2188	Ave		0.2121				3.8		20.0			
Methyl methacrylate	0.3003 0.3384	0.3140 0.3293	0.3073	0.2998	0.3323	Ave		0.3173				5.0		20.0			
1,4-Dioxane	0.0848 0.0837	0.0903 0.0601	0.0814	0.0779	0.0758	Ave		0.0791			0.0050	12.2		20.0			
Bromodichloromethane	0.3711 0.4250	0.3835 0.4121	0.3914	0.3639	0.4113	Ave		0.3940			0.2000	5.8		20.0			
2-Nitropropane	1.7907 2.0028	1.7634 2.0399	1.7679	1.7638	1.9443	Ave		1.8676				6.6		20.0			
2-Chloroethyl vinyl ether	0.2186 0.2672	0.2245 0.2616	0.2340	0.2333	0.2621	Ave		0.2430				8.2		20.0			
cis-1,3-Dichloropropene	0.4571 0.5525	0.5136 0.5370	0.4941	0.4736	0.5354	Ave		0.5090			0.2000	7.0		20.0			
4-Methyl-2-pentanone	0.5899 0.6841	0.5809 0.6110	0.6336	0.5788	0.7029	Ave		0.6259			0.1000	8.0		20.0			
Toluene	1.1456 1.1938	1.2419 1.0770	1.1232	1.0821	1.1725	Ave		1.1480			0.4000	5.2		20.0			
trans-1,3-Dichloropropene	0.6227 0.6797	0.6416 0.6294	0.6209	0.5747	0.6563	Ave		0.6322			0.1000	5.2		20.0			
Ethyl methacrylate	0.7079 0.7808	0.7385 0.6934	0.7242	0.6866	0.7713	Ave		0.7290				5.0		20.0			
1,1,2-Trichloroethane	0.4219 0.4188	0.3976 0.3753	0.4063	0.3709	0.4106	Ave		0.4002			0.1000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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								
Tetrachloroethene	0.4532 0.4999	0.5265 0.4586	0.4688	0.4515	0.4937	Ave		0.4789			0.2000	5.9		20.0			
1,3-Dichloropropane	0.7016 0.7017	0.6640 0.6362	0.6582	0.6280	0.6939	Ave		0.6691				4.6		20.0			
2-Hexanone	0.5060 0.6087	0.5607 0.5216	0.5553	0.5315	0.6307	Ave		0.5592			0.1000	8.2		20.0			
Dibromochloromethane	0.2974 0.4293	0.3491 0.4053	0.3513	0.3552	0.4096	Ave		0.3710				12.4		20.0			
1,2-Dibromoethane	0.3723 0.4347	0.3982 0.3957	0.3933	0.3905	0.4270	Ave		0.4017			0.1000	5.4		20.0			
1-Chlorohexane	0.6791 0.6905	0.6903 0.6288	0.6199	0.6227	0.6700	Ave		0.6573				4.9		20.0			
Chlorobenzene	1.0845 1.2356	1.2310 1.1185	1.1455	1.1092	1.2128	Ave		1.1624			0.5000	5.4		20.0			
1,1,1,2-Tetrachloroethane	0.3993 0.4836	0.4400 0.4307	0.4417	0.4207	0.4759	Ave		0.4417				6.7		20.0			
Ethylbenzene	2.1573 2.3137	2.4226 1.9751	2.2319	2.1550	2.3074	Ave		2.2233			0.1000	6.5		20.0			
m&p-Xylene	0.7782 0.8894	0.9086 0.7697	0.8388	0.8033	0.8728	Ave		0.8373			0.1000	6.6		20.0			
o-Xylene	0.8641 0.9269	0.9383 0.8229	0.8795	0.8468	0.9353	Ave		0.8877			0.3000	5.2		20.0			
Styrene	1.1669 1.4177	1.3726 1.2576	1.2874	1.2618	1.3954	Ave		1.3085			0.3000	6.9		20.0			
Bromoform	0.1534 0.3254	0.2166 0.3095	0.2356	0.2443	0.3020	Lin1	-0.270	0.3106			0.1000				0.9970		0.9900
Isopropylbenzene	2.2219 2.5548	2.6402 2.0631	2.3791	2.3551	2.5553	Ave		2.3957			0.1000	8.6		20.0			
Cyclohexanone	0.3583 0.3461	0.3207 0.3033	0.3292	0.3126	0.3382	Ave		0.3298				5.8		20.0			
Bromobenzene	0.8137 0.9413	0.9296 0.8825	0.8739	0.8524	0.9460	Ave		0.8913				5.6		20.0			
1,1,2,2-Tetrachloroethane	1.4152 1.4815	1.4306 1.3177	1.3623	1.3306	1.4930	Ave		1.4044			0.3000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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	0.3697 0.4142	0.4027 0.3686	0.3987	0.3751	0.4246	Ave		0.3934				5.7		20.0			
trans-1,4-Dichloro-2-butene	0.3241 0.4142	0.3708 0.3779	0.3585	0.3537	0.4179	Ave		0.3739				8.9		20.0			
N-Propylbenzene	4.5164 5.2327	5.1823 4.2038	4.7647	4.8744	5.2465	Ave		4.8601				8.2		20.0			
2-Chlorotoluene	0.8282 1.0183	1.0359 0.9482	0.9274	0.9396	1.0166	Ave		0.9592				7.5		20.0			
1,3,5-Trimethylbenzene	3.1930 3.9561	3.7619 3.4012	3.4986	3.5454	3.9319	Ave		3.6126				7.8		20.0			
4-Chlorotoluene	0.8637 0.9458	0.9000 0.8982	0.8793	0.8606	0.9405	Ave		0.8983				3.8		20.0			
tert-Butylbenzene	0.5587 0.7839	0.7585 0.7471	0.6225	0.6630	0.7716	Ave		0.7008				12.4		20.0			
1,2,4-Trimethylbenzene	3.3735 4.0076	3.8797 3.3878	3.5930	3.6302	4.0403	Ave		3.7017				7.5		20.0			
sec-Butylbenzene	3.9055 5.0681	4.7404 4.0637	4.3355	4.5065	5.0545	Ave		4.5249				10.1		20.0			
1,3-Dichlorobenzene	1.8078 1.8233	1.7502 1.6626	1.7158	1.6827	1.8385	Ave		1.7544			0.6000	4.0		20.0			
p-Isopropyltoluene	3.2457 4.2976	4.0110 3.6075	3.7010	3.8425	4.2746	Ave		3.8543				9.8		20.0			
1,4-Dichlorobenzene	1.7170 1.7425	1.7983 1.5844	1.6981	1.6120	1.7555	Ave		1.7011			0.5000	4.6		20.0			
1,2,3-Trimethylbenzene	3.7919 4.1394	4.0646 3.4925	3.7417	3.7873	4.1861	Ave		3.8862				6.5		20.0			
Benzyl chloride	2.1940 2.8491	2.5468 2.4694	2.5395	2.5244	2.9036	Ave		2.5752				9.3		20.0			
1,3-Diethylbenzene	2.0963 2.5620	2.3922 2.2678	2.2467	2.3080	2.5682	Ave		2.3487				7.3		20.0			
1,4-Diethylbenzene	2.0576 2.5884	2.4450 2.2912	2.2631	2.3212	2.5722	Ave		2.3627				7.9		20.0			
n-Butylbenzene	1.5665 2.1105	1.9786 1.9122	1.8315	1.8544	2.0806	Ave		1.9049				9.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	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-Dichlorobenzene	1.8554 1.9103	1.9058 1.7168	1.8016	1.7432	1.9415	Ave		1.8392			0.4000	4.8		20.0			
1,2-Diethylbenzene	1.6373 2.1027	1.9226 1.9087	1.8563	1.8813	2.0930	Ave		1.9146				8.2		20.0			
1,2-Dibromo-3-Chloropropane	0.3257 0.3998	0.3778 0.3565	0.3454	0.3450	0.3974	Ave		0.3639			0.0500	7.8		20.0			
1,3,5-Trichlorobenzene	1.2516 1.5169	1.4242 1.3818	1.3753	1.3491	1.5273	Ave		1.4037				6.9		20.0			
1,2,4-Trichlorobenzene	1.3286 1.4296	1.3539 1.2840	1.3081	1.2859	1.4460	Ave		1.3480			0.2000	4.9		20.0			
Hexachlorobutadiene	0.3984 0.5541	0.4842 0.5155	0.4424	0.4597	0.5408	Ave		0.4850				11.5		20.0			
Naphthalene	5.0210 5.3644	5.4879 4.0812	5.3853	5.0746	5.6478	Ave		5.1518				10.1		20.0			
1,2,3-Trichlorobenzene	1.3940 1.4865	1.4808 1.3369	1.3571	1.3499	1.5184	Ave		1.4177				5.3		20.0			
2-Methylnaphthalene	3.0364 3.5250	3.1582 2.9149	3.1032	3.1356	3.6140	Ave		3.2125				8.0		20.0			
Dibromofluoromethane (Surr)	0.2494 0.2422	0.2477 0.2375	0.2467	0.2495	0.2445	Ave		0.2453				1.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0610 0.0621	0.0613 0.0637	0.0613	0.0600	0.0607	Ave		0.0615				1.9		20.0			
Toluene-d8 (Surr)	1.3570 1.3585	1.3563 1.3183	1.3713	1.3556	1.3477	Ave		1.3521				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.5110 0.4965	0.5079 0.4903	0.5029	0.4942	0.4905	Ave		0.4991				1.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-351482/17	WM08X17.D
Level 2	IC 410-351482/16	WM08X16.D
Level 3	IC 410-351482/15	WM08X15.D
Level 4	IC 410-351482/14	WM08X14.D
Level 5	ICIS 410-351482/13	WM08X13.D
Level 6	IC 410-351482/12	WM08X12.D
Level 7	IC 410-351482/11	WM08X11.D

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
Dichlorodifluoromethane	FB	Ave	10219 1533679	50108 4283584	135846	253072	715428	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	17157 1606485	61721 4526886	149644	286365	768265	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	14317 1518710	59330 4314579	142556	262044	728803	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	13520 1655549	62189 4639063	154331	279312	771947	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	8797 916667	35331 2600156	86810	161627	443166	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	7441 837552	32141 2371722	73881	145824	406881	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	17600 1913392	74280 5442360	179263	333634	934616	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	12407 1824182	61597 5226134	161939	305732	864611	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	15530 1603244	65097 5005572	138198	296477	794141	1.00 100	4.00 300	10.0	20.0	50.0
Freon 123a	FB	Ave	10084 1137428	40617 3264562	107446	193459	548671	1.00 100	4.00 300	10.0	20.0	50.0
Ethanol	TBAd 10	Ave	10634 381432	36002 924736	76162	142266	184194	62.5 2500	250 7500	500	1000	1250
Acrolein	TBAd 10	Ave	31672 3292302	115679 9325777	305958	577357	1646620	10.00 1000	40.0 3000	100.0	200	500
1,1-Dichloroethene	FB	Ave	7715	32740	71877	148591	393814	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
			788303	2430535				100	300			
Freon 113	FB	Ave	8624 1018845	40888 3056986	87388	186251	489248	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd 10	Ave	1882 325140	12976 937259	28469	57740	158885	2.00 200	8.00 600	20.0	40.0	100
2-Propanol	TBAd 10	Ave	7008 770075	24291 1978094	68574	144350	357767	5.00 500	20.0 1500	50.0	100	250
Methyl iodide	FB	Ave	12367 1403070	57792 4209933	131660	266620	681191	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	26513 2710216	109042 8010943	252195	496850	1295034	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	14018 1338077	53902 4112316	120981	255282	669838	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	9497 1135863	42986 3472536	90039	203465	550826	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	11872 859305	37744 2534906	83288	165508	421841	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd 10	Ave	13141 1294114	51300 3577200	121730	243775	635695	5.00 500	20.0 1500	50.0	100	250
Acrylonitrile	FB	Ave	14122 1380402	51097 4034860	134327	262651	690675	2.50 250	10.0 750	25.0	50.0	125
Methyl tertiary butyl ether	FB	Ave	25554 2655556	106013 7807584	256628	510667	1298533	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	7973 781394	32853 2302769	72384	147874	383273	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	11195 1377899	52736 4022373	117857	252152	664003	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	12751 1425021	57790 4193282	135033	269984	699815	1.00 100	4.00 300	10.0	20.0	50.0
Isopropyl ether	FB	Ave	24825 2768311	107762 8118968	260745	515264	1344367	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	12007 1370686	56650 4033431	126521	249355	658987	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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 t-butyl ether	FB	Ave	25724 2698801	103933 7889572	252613	486940	1279659	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	16330 1459620	48205 4155739	121550	240730	691025	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	8199 856339	35570 2499388	82247	162275	415138	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	12955 1416856	55703 4271411	127802	262131	674673	1.00 100	4.00 300	10.0	20.0	50.0
Propionitrile	TBAd 10	Ave	12376 1219659	44704 3594504	116385	226035	603063	5.00 500	20.0 1500	50.0	100	250
Methacrylonitrile	FB	Ave	11723 1289581	47780 3917867	116595	233754	628694	2.50 250	10.0 750	25.0	50.0	125
Bromochloromethane	FB	Ave	3733 402591	15798 1187812	39685	78450	197819	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd 10	Ave	12283 1014968	36847 3047639	97902	184163	498619	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Ave	11714 1323744	52487 3893717	126367	247803	640870	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	11980 1330285	54961 4066272	120768	246989	645737	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	16730 1935561	77699 5826250	162124	349746	931319	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	10619 1123642	45771 3443400	103087	207912	542809	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	9078 1121105	42054 3475367	96168	200318	534612	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd 10	Ave	9951 865844	34844 2471784	82065	151554	434564	12.5 1250	50.0 3750	125	250	625
Benzene	FB	Ave	28705 3257135	126701 9726620	303454	598213	1572403	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	10471 1039585	41551 3120299	96149	190837	503445	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	23977	95869	239997	477285	1237982	1.00	4.00	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
			2541211	7519063				100	300			
n-Heptane	FB	Ave	11944 1357889	46879 4050611	105460	237771	649294	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd 10	Lin2	3212 725945	24660 1993482	60123	125274	352882	12.5 1250	50.0 3750	125	250	625
Trichloroethene	FB	Ave	7025 819911	32969 2529522	73942	149323	388409	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	14921 1833192	70167 5619185	151880	330535	867418	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	7597 859896	32568 2603721	77299	155590	410199	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	9807 1225210	45936 3652792	108605	217922	585094	1.00 100	4.00 300	10.0	20.0	50.0
Dibromomethane	FB	Ave	4663 502173	18926 1515882	46139	91157	243763	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	6501 777717	27306 2421299	67184	138448	370187	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd 10	Ave	1828 193991	7907 416403	18164	37112	87838	12.5 1250	50.0 3750	125	250	625
Bromodichloromethane	FB	Ave	8034 976765	33344 3030502	85582	168044	458181	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd 10	Ave	15433 1857063	61795 5652040	157882	335936	901258	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	4732 614022	19520 1923954	51163	107749	291987	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	9895 1269712	44657 3948705	108033	218669	596418	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	25540 3144182	101024 8985818	277057	534510	1566250	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd 5	Ave	17426 2011944	75720 6149575	174038	360112	953400	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
trans-1,3-Dichloropropene	CBZd 5	Ave	9471 1145604	39118 3593886	96203	191252	533671	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd 5	Ave	10768 1315997	45027 3959600	112220	228506	627188	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd 5	Ave	6418 705861	24242 2143083	62953	123450	333873	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd 5	Ave	6894 842484	32099 2618417	72641	150262	401478	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd 5	Ave	10672 1182564	40485 3632881	101987	209016	564287	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd 5	Ave	15394 2051657	68371 5957084	172092	353797	1025686	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd 5	Ave	4524 723559	21282 2314346	54438	118215	333102	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd 5	Ave	5663 732640	24281 2259255	60947	129957	347202	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd 5	Ave	10329 1163746	42085 3590605	96061	207220	544814	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd 5	Ave	16496 2082347	75057 6386725	177502	369138	986193	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	6074 815065	26827 2459336	68441	140015	386957	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd 5	Ave	32814 3899412	147708 11278291	345825	717198	1876263	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
m&p-Xylene	CBZd 5	Ave	23675 2997807	110795 8790152	259931	534713	1419415	2.00 200	8.00 600	20.0	40.0	100
o-Xylene	CBZd 5	Ave	13143 1562193	57206 4698679	136276	281818	760557	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd 5	Ave	17749 2389379	83688 7181271	199486	419935	1134668	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd 5	Lin1	2333 548421	13204 1767090	36510	81292	245540	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd 5	Ave	33797 4305698	160975 11780848	368640	783788	2077874	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd 10	Ave	30880 802237	112383 2100742	146968	297642	391879	50.0 1250	200 3750	250	500	625
Bromobenzene	DCBd 4	Ave	6919 857310	31799 2646318	76003	155358	413969	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	12034 1349243	48936 3951504	118473	242507	653372	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3144 377229	13775 1105384	34669	68363	185793	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	6891 943079	31710 2833413	77934	161144	457240	2.50 250	10.0 750	25.0	50.0	125
N-Propylbenzene	DCBd 4	Ave	38406 4765567	177265 12606448	414360	888373	2295965	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	7043 927359	35433 2843425	80649	171248	444870	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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	27152 3602906	128679 10199576	304260	646161	1720676	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	7345 861409	30784 2693499	76471	156850	411600	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	4751 713893	25946 2240312	54138	120839	337656	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	28687 3649868	132707 10159369	312470	661618	1768123	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	33211 4615650	162148 12186277	377037	821317	2211939	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	15373 1660495	59866 4985755	149216	306676	804586	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	27600 3913967	137199 10818234	321856	700306	1870648	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	14601 1586931	61512 4751242	147672	293785	768232	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	32245 3769827	139032 10473243	325399	690243	1831920	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	18657 2594706	87116 7405229	220848	460076	1270662	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	17826 2333245	81826 6800849	195385	420644	1123897	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd 4	Ave	17497 2357349	83632 6870775	196807	423036	1125654	1.00 100	4.00 300	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
n-Butylbenzene	DCBd 4	Ave	13321 1922064	67680 5734296	159277	337972	910516	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	15778 1739757	65188 5148413	156677	317705	849655	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	13923 1914987	65763 5723754	161431	342879	915951	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2770 364118	12922 1069047	30038	62877	173902	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	10643 1381509	48714 4143857	119601	245872	668398	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	11298 1301985	46311 3850535	113761	234349	632788	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	3388 504610	16563 1546001	38470	83788	236653	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	42697 4885516	187716 12238940	468332	924860	2471587	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	11854 1353836	50650 4009104	118019	246017	664496	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	25820 3210324	108027 8741352	269872	571465	1581580	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	269923 278254	269199 291108	269663	288062	272356	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	66064 71316	66655 78107	67049	69222	67678	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd 5	Ave	1032047	1033668	1062404	1127909	1095883	50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
			1144773	1254655				50.0	50.0			
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	388640 418381	387117 466633	389632	411189	398872	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-351482/17	WM08X17.D
Level 2	IC 410-351482/16	WM08X16.D
Level 3	IC 410-351482/15	WM08X15.D
Level 4	IC 410-351482/14	WM08X14.D
Level 5	ICIS 410-351482/13	WM08X13.D
Level 6	IC 410-351482/12	WM08X12.D
Level 7	IC 410-351482/11	WM08X11.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	-19.6 -0.8	-1.8	5.8	-6.6	9.4	13.7	50 30	30	30	30	30	30
Chloromethane	15.3 -10.4	3.3	-0.4	-9.8	0.3	1.7	50 30	30	30	30	30	30
1,3-Butadiene	3.7 -8.0	7.0	2.2	-11.0	2.6	3.6	50 30	30	30	30	30	30
Vinyl chloride	-6.9 -5.9	6.6	5.3	-9.8	3.3	7.4	50 30	30	30	30	30	30
Bromomethane	5.0 -8.7	5.0	2.6	-9.6	2.8	3.0	50 30	30	30	30	30	30
Chloroethane	-0.5 -6.7	6.9	-2.2	-8.6	5.7	5.5	50 30	30	30	30	30	30
Dichlorofluoromethane	1.2 -7.8	6.4	2.1	-10.0	4.5	3.7	50 30	30	30	30	30	30
Trichlorofluoromethane	-19.2 0.2	-0.1	4.4	-6.6	9.4	11.9	50 30	30	30	30	30	30
n-Pentane	3.9 -1.4	8.5	-8.4	-7.0	3.3	1.1	50 30	30	30	30	30	30
Freon 123a	-0.4 -5.1	-0.2	5.1	-10.4	5.3	5.8	50 30	30	30	30	30	30
Ethanol	21.4 -17.9	1.0	4.8	-8.2	-2.3	1.1	50 30	30	30	30	30	30
Acrolein	7.6 -1.4	-3.3	0.3	-11.2	4.0	4.0	50 30	30	30	30	30	30
1,1-Dichloroethene	3.5 -4.0	9.3	-4.5	-6.6	2.7	-0.4	50 30	30	30	30	30	30
Freon 113	-6.1 -2.0	10.8	-5.8	-4.9	3.5	4.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
Acetone	-31.8 5.6	15.6	-0.5	-5.4	7.0	9.5	50 30	30	30	30	30	30
2-Propanol	6.4 -6.6	-9.3	0.5	-0.8	1.0	8.7	50 30	30	30	30	30	30
Methyl iodide	-5.0 -4.8	10.5	0.1	-4.0	1.7	1.5	50 30	30	30	30	30	30
Carbon disulfide	5.3 -6.3	7.8	-0.8	-7.5	0.0	1.4	50 30	30	30	30	30	30
Allyl chloride	10.1 -4.9	5.4	-5.9	-6.0	2.2	-1.0	50 30	30	30	30	30	30
Methyl acetate	-5.4 1.8	6.6	-11.2	-5.0	6.6	6.6	50 30	30	30	30	30	30
Methylene Chloride	36.2 -14.4	7.8	-5.4	-11.0	-6.0	-7.2	50 30	30	30	30	30	30
t-Butyl alcohol	10.2 -6.7	5.8	-1.5	-7.5	-0.9	0.8	50 30	30	30	30	30	30
Acrylonitrile	8.9 -8.4	-1.9	2.6	-5.0	3.5	0.3	50 30	30	30	30	30	30
Methyl tertiary butyl ether	2.5 -7.8	5.9	1.9	-4.0	1.2	0.3	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	7.7 -8.5	10.4	-3.2	-6.4	0.6	-0.6	50 30	30	30	30	30	30
n-Hexane	-8.4 -3.1	7.4	-4.5	-3.3	5.6	6.2	50 30	30	30	30	30	30
1,1-Dichloroethane	-3.5 -6.6	8.8	1.1	-4.2	2.9	1.5	50 30	30	30	30	30	30
Isopropyl ether	-2.2 -5.9	5.7	1.7	-4.9	2.9	2.7	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-4.4 -5.5	12.3	-0.3	-6.9	2.0	2.8	50 30	30	30	30	30	30
Ethyl t-butyl ether	4.1 -6.0	4.7	1.2	-7.6	0.6	2.9	50 30	30	30	30	30	30
2-Butanone	25.5 -6.0	-7.7	-7.5	-13.2	3.2	5.7	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	1.9 -8.5	10.1	1.3	-5.4	0.3	0.3	50 30	30	30	30	30	30
2,2-Dichloropropane	-0.1 -3.1	6.9	-2.4	-5.3	1.1	2.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
Propionitrile	10.3 -0.4	-2.0	0.1	-8.9	-0.1	1.0	50 30	30	30	30	30	30
Methacrylonitrile	0.0 -1.6	1.5	-1.5	-6.5	4.3	3.7	50 30	30	30	30	30	30
Bromochloromethane	-1.0 -7.3	4.3	4.2	-2.5	1.9	0.5	50 30	30	30	30	30	30
Tetrahydrofuran	27.7 -1.4	-5.8	-1.7	-13.3	-3.6	-1.9	50 30	30	30	30	30	30
Chloroform	-3.9 -5.9	7.2	2.7	-4.7	2.2	2.3	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-2.8 -2.8	11.1	-3.0	-6.0	1.8	1.7	50 30	30	30	30	30	30
Cyclohexane	-4.0 -1.6	11.0	-7.9	-5.9	3.8	4.6	50 30	30	30	30	30	30
1,1-Dichloropropene	1.5 -3.1	8.9	-2.4	-6.8	0.8	1.2	50 30	30	30	30	30	30
Carbon tetrachloride	-8.8 2.8	5.2	-4.3	-5.6	4.4	6.2	50 30	30	30	30	30	30
Isobutyl alcohol	22.0 -5.8	5.0	-2.9	-15.9	-1.0	-1.4	50 30	30	30	30	30	30
Benzene	-3.5 -3.7	6.0	1.0	-5.7	2.7	3.2	50 30	30	30	30	30	30
1,2-Dichloroethane	7.7 -5.5	6.4	-2.1	-8.0	0.6	0.7	50 30	30	30	30	30	30
t-Amyl methyl ether	2.3 -5.6	1.8	1.4	-4.6	2.6	2.1	50 30	30	30	30	30	30
n-Heptane	1.3 1.1	-1.0	-11.4	-5.5	7.0	8.5	50 30	30	30	30	30	30
n-Butanol	-1.0 -2.8	7.1	-4.3	-8.8	3.7	6.1	50 30	30	30	30	30	30
Trichloroethene	-5.9 -0.3	9.9	-2.0	-6.3	1.1	3.4	50 30	30	30	30	30	30
Methylcyclohexane	-8.0 1.9	7.7	-7.3	-4.5	3.9	6.4	50 30	30	30	30	30	30
1,2-Dichloropropane	-2.2 -1.4	4.4	-1.5	-6.1	2.6	4.2	50 30	30	30	30	30	30
t-Amyl ethyl ether	-9.5 -0.8	5.5	-0.8	-5.7	4.9	6.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
Dibromomethane	1.5 -2.8	2.6	-0.5	-6.9	3.1	3.0	50 30	30	30	30	30	30
Methyl methacrylate	-5.4 3.8	-1.0	-3.2	-5.5	4.7	6.6	50 30	30	30	30	30	30
1,4-Dioxane	7.2 -24.0	14.0	2.8	-1.5	-4.2	5.7	50 30	30	30	30	30	30
Bromodichloromethane	-5.8 4.6	-2.7	-0.7	-7.6	4.4	7.9	50 30	30	30	30	30	30
2-Nitropropane	-4.1 9.2	-5.6	-5.3	-5.6	4.1	7.2	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-10.1 7.6	-7.6	-3.7	-4.0	7.8	9.9	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-10.2 5.5	0.9	-2.9	-7.0	5.2	8.5	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-5.8 -2.4	-7.2	1.2	-7.5	12.3	9.3	50 30	30	30	30	30	30
Toluene	-0.2 -6.2	8.2	-2.2	-5.7	2.1	4.0	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-1.5 -0.4	1.5	-1.8	-9.1	3.8	7.5	50 30	30	30	30	30	30
Ethyl methacrylate	-2.9 -4.9	1.3	-0.7	-5.8	5.8	7.1	50 30	30	30	30	30	30
1,1,2-Trichloroethane	5.4 -6.2	-0.7	1.5	-7.3	2.6	4.6	50 30	30	30	30	30	30
Tetrachloroethene	-5.4 -4.2	9.9	-2.1	-5.7	3.1	4.4	50 30	30	30	30	30	30
1,3-Dichloropropane	4.9 -4.9	-0.8	-1.6	-6.1	3.7	4.9	50 30	30	30	30	30	30
2-Hexanone	-9.5 -6.7	0.3	-0.7	-4.9	12.8	8.8	50 30	30	30	30	30	30
Dibromochloromethane	-19.8 9.2	-5.9	-5.3	-4.3	10.4	15.7	50 30	30	30	30	30	30
1,2-Dibromoethane	-7.3 -1.5	-0.9	-2.1	-2.8	6.3	8.2	50 30	30	30	30	30	30
1-Chlorohexane	3.3 -4.3	5.0	-5.7	-5.3	1.9	5.0	50 30	30	30	30	30	30
Chlorobenzene	-6.7 -3.8	5.9	-1.5	-4.6	4.3	6.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
1,1,1,2-Tetrachloroethane	-9.6 -2.5	-0.4	0.0	-4.8	7.7	9.5	50 30	30	30	30	30	30
Ethylbenzene	-3.0 -11.2	9.0	0.4	-3.1	3.8	4.1	50 30	30	30	30	30	30
m&p-Xylene	-7.0 -8.1	8.5	0.2	-4.0	4.2	6.2	50 30	30	30	30	30	30
o-Xylene	-2.7 -7.3	5.7	-0.9	-4.6	5.4	4.4	50 30	30	30	30	30	30
Styrene	-10.8 -3.9	4.9	-1.6	-3.6	6.6	8.3	50 30	30	30	30	30	30
Bromoform	36.4 -0.1	-8.5	-15.4	-17.0	-1.0	5.6	50 30	30	30	30	30	30
Isopropylbenzene	-7.3 -13.9	10.2	-0.7	-1.7	6.7	6.6	50 30	30	30	30	30	30
Cyclohexanone	8.7 -8.0	-2.7	-0.2	-5.2	2.6	5.0	50 30	30	30	30	30	30
Bromobenzene	-8.7 -1.0	4.3	-2.0	-4.4	6.1	5.6	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	0.8 -6.2	1.9	-3.0	-5.3	6.3	5.5	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-6.0 -6.3	2.4	1.3	-4.6	7.9	5.3	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-13.3 1.1	-0.8	-4.1	-5.4	11.8	10.8	50 30	30	30	30	30	30
N-Propylbenzene	-7.1 -13.5	6.6	-2.0	0.3	7.9	7.7	50 30	30	30	30	30	30
2-Chlorotoluene	-13.6 -1.1	8.0	-3.3	-2.0	6.0	6.2	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-11.6 -5.9	4.1	-3.2	-1.9	8.8	9.5	50 30	30	30	30	30	30
4-Chlorotoluene	-3.8 0.0	0.2	-2.1	-4.2	4.7	5.3	50 30	30	30	30	30	30
tert-Butylbenzene	-20.3 6.6	8.2	-11.2	-5.4	10.1	11.9	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-8.9 -8.5	4.8	-2.9	-1.9	9.1	8.3	50 30	30	30	30	30	30
sec-Butylbenzene	-13.7 -10.2	4.8	-4.2	-0.4	11.7	12.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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-Dichlorobenzene	3.0 -5.2	-0.2	-2.2	-4.1	4.8	3.9	50 30	30	30	30	30	30
p-Isopropyltoluene	-15.8 -6.4	4.1	-4.0	-0.3	10.9	11.5	50 30	30	30	30	30	30
1,4-Dichlorobenzene	0.9 -6.9	5.7	-0.2	-5.2	3.2	2.4	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-2.4 -10.1	4.6	-3.7	-2.5	7.7	6.5	50 30	30	30	30	30	30
Benzyl chloride	-14.8 -4.1	-1.1	-1.4	-2.0	12.7	10.6	50 30	30	30	30	30	30
1,3-Diethylbenzene	-10.7 -3.4	1.8	-4.3	-1.7	9.3	9.1	50 30	30	30	30	30	30
1,4-Diethylbenzene	-12.9 -3.0	3.5	-4.2	-1.8	8.9	9.6	50 30	30	30	30	30	30
n-Butylbenzene	-17.8 0.4	3.9	-3.9	-2.7	9.2	10.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	0.9 -6.7	3.6	-2.0	-5.2	5.6	3.9	50 30	30	30	30	30	30
1,2-Diethylbenzene	-14.5 -0.3	0.4	-3.0	-1.7	9.3	9.8	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-10.5 -2.0	3.8	-5.1	-5.2	9.2	9.9	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-10.8 -1.6	1.5	-2.0	-3.9	8.8	8.1	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-1.4 -4.7	0.4	-3.0	-4.6	7.3	6.1	50 30	30	30	30	30	30
Hexachlorobutadiene	-17.9 6.3	-0.2	-8.8	-5.2	11.5	14.2	50 30	30	30	30	30	30
Naphthalene	-2.5 -20.8	6.5	4.5	-1.5	9.6	4.1	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-1.7 -5.7	4.5	-4.3	-4.8	7.1	4.9	50 30	30	30	30	30	30
2-Methylnaphthalene	-5.5 -9.3	-1.7	-3.4	-2.4	12.5	9.7	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	1.6 -3.2	0.9	0.5	1.7	-0.4	-1.3	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.7 3.7	-0.2	-0.2	-2.4	-1.2	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 Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 351482

SDG No.:

Instrument ID: 9137 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2023 19:28 Calibration End Date: 03/08/2023 21:27 Calibration ID: 48113

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
Toluene-d8 (Surr)	0.4 -2.5	0.3	1.4	0.3	-0.3	0.5	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	2.4 -1.8	1.8	0.8	-1.0	-1.7	-0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X11.D
Lims ID: IC v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Mar-2023 19:28:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-011
Misc. Info.: IC V300
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:47 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: UKAD Date: 13-Mar-2023 21:20:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.303	1.309	-0.006	100	4283584	300.0	297.6	
6 Chloromethane	50	1.437	1.450	-0.013	99	4526886	300.0	268.7	M
7 Butadiene	39	1.508	1.518	-0.010	91	4314579	300.0	276.0	
8 Vinyl chloride	62	1.511	1.521	-0.010	98	4639063	300.0	282.2	
10 Bromomethane	94	1.733	1.739	-0.006	90	2600156	300.0	274.0	
11 Chloroethane	64	1.781	1.787	-0.006	100	2371722	300.0	280.0	
12 Dichlorofluoromethane	67	1.925	1.932	-0.007	98	5442360	300.0	276.5	
13 Trichlorofluoromethane	101	1.986	1.986	0.000	72	5226134	300.0	300.6	
14 Pentane	43	1.986	1.996	-0.010	98	5005572	300.0	295.9	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.166	2.185	-0.019	93	3264562	300.0	284.7	
17 Ethanol	45	2.166	2.220	-0.054	29	924736	7500.2	6155.0	M
18 Acrolein	56	2.240	2.249	-0.009	99	9325777	2999.8	2957.0	
19 1,1-Dichloroethene	96	2.339	2.345	-0.006	99	2430535	300.0	287.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.365	2.374	-0.009	94	3056986	300.0	293.9	
21 Acetone	58	2.371	2.384	-0.013	87	937259	600.0	633.6	
24 Isopropyl alcohol	45	2.458	2.464	-0.006	96	1978094	1500.0	1401.6	a
22 Iodomethane	142	2.477	2.483	-0.006	98	4209933	300.0	285.6	
23 Carbon disulfide	76	2.541	2.548	-0.007	100	8010943	300.0	281.1	
26 3-Chloro-1-propene	41	2.634	2.647	-0.013	95	4112316	300.0	285.3	
27 Methyl acetate	43	2.650	2.660	-0.010	98	3472536	300.0	305.5	
29 Methylene Chloride	84	2.750	2.756	-0.006	94	2534906	300.0	256.8	
* 30 t-Butyl alcohol-d10 (IS)	65	2.856	2.791	0.065	38	461786	250.0	250.0	
31 2-Methyl-2-propanol	59	2.923	2.891	0.032	87	3577200	1500.0	1399.0	
32 Acrylonitrile	53	2.958	2.974	-0.016	99	4034860	750.0	687.1	
33 trans-1,2-Dichloroethene	96	2.994	3.003	-0.009	98	2302769	300.0	274.6	
34 Methyl tert-butyl ether	73	2.994	3.006	-0.012	97	7807584	300.0	276.6	
35 Hexane	57	3.247	3.260	-0.013	94	4022373	300.0	290.7	
36 1,1-Dichloroethane	63	3.379	3.385	-0.006	96	4193282	300.0	280.1	
38 Isopropyl ether	45	3.449	3.453	-0.004	94	8118968	300.0	282.4	
39 2-Chloro-1,3-butadiene	53	3.469	3.475	-0.006	92	4033431	300.0	283.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.793	3.806	-0.013	99	7889572	300.0	282.0	
41 2-Butanone (MEK)	43	3.944	3.921	0.023	90	4155739	600.0	564.2	
42 cis-1,2-Dichloroethene	96	3.927	3.937	-0.010	89	2499388	300.0	274.5	
43 2,2-Dichloropropane	77	3.956	3.956	0.000	88	4271411	300.0	290.8	
45 Propionitrile	54	3.998	3.998	0.000	98	3594504	1500.0	1494.4	
47 Methacrylonitrile	67	4.146	4.155	-0.009	92	3917867	750.0	738.2	
48 Chlorobromomethane	128	4.159	4.165	-0.006	98	1187812	300.0	278.1	
49 Tetrahydrofuran	71	4.210	4.216	-0.006	92	3047639	1500.0	1478.8	
50 Chloroform	83	4.239	4.239	0.000	95	3893717	300.0	282.2	
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	93	291108	50.0	48.4	
53 1,1,1-Trichloroethane	97	4.438	4.438	0.000	98	4066272	300.0	291.5	
54 Cyclohexane	56	4.499	4.495	0.004	93	5826250	300.0	295.2	
55 1,1-Dichloropropene	75	4.585	4.592	-0.007	97	3443400	300.0	290.7	
56 Carbon tetrachloride	117	4.595	4.595	0.000	98	3475367	300.0	308.5	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.730	0.003	89	78107	50.0	51.8	
58 Isobutyl alcohol	41	4.707	4.733	-0.026	97	2471784	3750.0	3533.7	
59 Benzene	78	4.794	4.800	-0.006	97	9726620	300.0	288.8	
60 1,2-Dichloroethane	62	4.804	4.807	-0.003	98	3120299	300.0	283.5	
62 Tert-amyl methyl ether	73	4.919	4.913	0.006	98	7519063	300.0	283.2	
* 63 Fluorobenzene (IS)	96	5.073	5.073	0.000	97	1225643	50.0	50.0	
64 n-Heptane	43	5.076	5.083	-0.007	94	4050611	300.0	303.4	
65 n-Butanol	56	5.371	5.378	-0.007	88	1993482	3750.0	3646.3	
66 Trichloroethene	95	5.449	5.452	-0.004	99	2529522	300.0	299.2	
68 Methylcyclohexane	83	5.660	5.660	0.000	93	5619185	300.0	305.8	
69 1,2-Dichloropropane	63	5.673	5.676	-0.003	97	2603721	300.0	295.9	
70 2-ethoxy-2-methyl butane	87	5.728	5.724	0.004	93	3652792	300.0	297.6	
71 Dibromomethane	93	5.792	5.795	-0.003	97	1515882	300.0	291.5	
72 1,4-Dioxane	88	5.811	5.805	0.006	32	416403	3750.0	2848.4	
73 Methyl methacrylate	69	5.808	5.808	0.000	95	2421299	300.0	311.3	
75 Dichlorobromomethane	83	5.965	5.965	0.000	100	3030502	300.0	313.7	
S 76 1,2-Dichloroethene, Total	100				0			549.1	
77 2-Nitropropane	41	6.203	6.203	0.000	98	5652040	1500.0	1638.4	
78 2-Chloroethyl vinyl ether	63	6.292	6.296	-0.004	93	1923954	300.0	322.9	
80 cis-1,3-Dichloropropene	75	6.443	6.443	0.000	95	3948705	300.0	316.5	
81 4-Methyl-2-pentanone (MIBK)	43	6.623	6.623	0.000	97	8985818	600.0	585.7	
$ 82 Toluene-d8 (Surr)	98	6.735	6.732	0.003	94	1254655	50.0	48.8	
83 Toluene	92	6.806	6.809	-0.003	98	6149575	300.0	281.4	
84 trans-1,3-Dichloropropene	75	7.050	7.050	0.000	94	3593886	300.0	298.7	
86 Ethyl methacrylate	69	7.172	7.175	-0.003	91	3959600	300.0	285.4	
87 1,1,2-Trichloroethane	97	7.245	7.242	0.003	91	2143083	300.0	281.3	
89 Tetrachloroethene	166	7.396	7.396	0.000	97	2618417	300.0	287.3	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	93	3632881	300.0	285.3	
93 2-Hexanone	43	7.515	7.515	0.000	96	5957084	600.0	559.7	
94 Chlorodibromomethane	129	7.643	7.643	0.000	90	2314346	300.0	327.7	
96 Ethylene Dibromide	107	7.746	7.746	0.000	99	2259255	300.0	295.5	
* 97 Chlorobenzene-d5 (IS)	117	8.192	8.189	0.003	86	951694	50.0	50.0	
98 1-Chlorohexane	91	8.208	8.211	-0.003	96	3590605	300.0	287.0	
99 Chlorobenzene	112	8.215	8.215	0.000	95	6386725	300.0	288.7	
100 1,1,1,2-Tetrachloroethane	131	8.295	8.295	0.000	97	2459336	300.0	292.5	
101 Ethylbenzene	91	8.324	8.320	0.004	98	11278291	300.0	266.5	
102 m-Xylene & p-Xylene	106	8.423	8.426	-0.003	98	8790152	600.0	551.6	e
104 o-Xylene	106	8.767	8.763	0.004	94	4698679	300.0	278.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Styrene	104	8.776	8.776	0.000	91	7181271	300.0	288.3	
106 Bromoform	173	8.917	8.917	0.000	97	1767090	300.0	299.8	
107 Isopropylbenzene	105	9.071	9.071	0.000	97	11780848	300.0	258.4	
109 Cyclohexanone	55	9.136	9.136	0.000	94	2100742	3749.9	3448.9	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.187	0.000	89	466633	50.0	49.1	
111 Bromobenzene	156	9.302	9.302	0.000	97	2646318	300.0	297.0	
112 1,1,2,2-Tetrachloroethane	83	9.306	9.306	0.000	95	3951504	300.0	281.5	
113 1,2,3-Trichloropropane	110	9.334	9.334	0.000	85	1105384	300.0	281.1	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	96	2833413	750.0	758.1	
115 N-Propylbenzene	91	9.395	9.395	0.000	97	12606448	300.0	259.5	e
116 2-Chlorotoluene	126	9.460	9.456	0.004	97	2843425	300.0	296.6	
117 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	96	10199576	300.0	282.4	
118 4-Chlorotoluene	126	9.540	9.540	0.000	99	2693499	300.0	300.0	
120 tert-Butylbenzene	134	9.777	9.777	0.000	93	2240312	300.0	319.8	
122 1,2,4-Trimethylbenzene	105	9.813	9.809	0.004	97	10159369	300.0	274.6	
123 sec-Butylbenzene	105	9.938	9.938	0.000	95	12186277	300.0	269.4	e
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	98	4985755	300.0	284.3	
162 4-Isopropyltoluene	119	10.047	10.044	0.003	94	10818234	300.0	280.8	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	95	499804	50.0	50.0	
S 164 1,3-Dichloropropene, Total	100				0			615.1	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	93	4751242	300.0	279.4	
166 1,2,3-Trimethylbenzene	105	10.121	10.117	0.004	97	10473243	300.0	269.6	
167 Benzyl chloride	91	10.175	10.175	0.000	99	7405229	300.0	287.7	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	94	6800849	300.0	289.7	
169 p-Diethylbenzene	119	10.320	10.316	0.004	94	6870775	300.0	290.9	
170 n-Butylbenzene	92	10.336	10.336	0.000	97	5734296	300.0	301.1	
171 1,2-Dichlorobenzene	146	10.345	10.342	0.003	97	5148413	300.0	280.0	
172 o-diethylbenzene	119	10.400	10.400	0.000	96	5723754	300.0	299.1	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	86	1069047	300.0	293.9	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	4143857	300.0	295.3	
S 175 Xylenes, Total	106				0			829.7	
176 1,2,4-Trichlorobenzene	180	11.433	11.433	0.000	94	3850535	300.0	285.8	
178 Hexachlorobutadiene	225	11.545	11.545	0.000	97	1546001	300.0	318.9	
179 Naphthalene	128	11.594	11.597	-0.003	99	12238940	300.0	237.7	e
180 1,2,3-Trichlorobenzene	180	11.751	11.751	0.000	96	4009104	300.0	282.9	
181 2-Methylnaphthalene	142	12.316	12.316	0.000	91	8741352	300.0	272.2	
S 192 Total Diethylbenzene	1				0			879.7	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00114	Amount Added:	15.00	Units: uL	
MSV_CCV_CYC_00005	Amount Added:	30.00	Units: uL	
MSV_CCV_VOC#3_00115	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00110	Amount Added:	15.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	30.00	Units: uL	
MSV_CCV_GASES_00411	Amount Added:	7.50	Units: uL	
MSV_Cent_ISSS_00016	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 14-Mar-2023 13:13:49 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X11.D

Injection Date: 08-Mar-2023 19:28:30 Instrument ID: 9137 Operator ID: kas02648

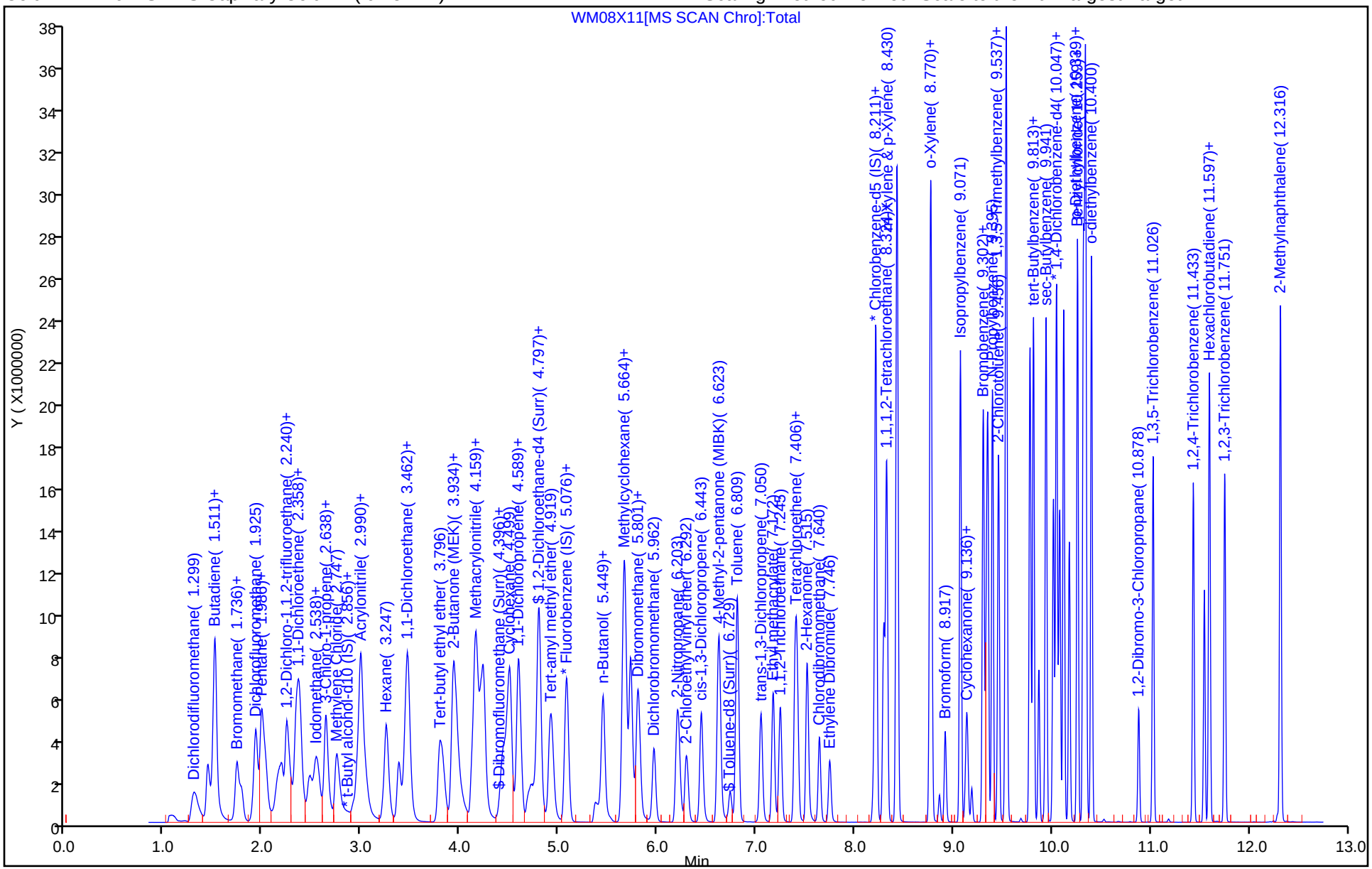
Lims ID: IC v300 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

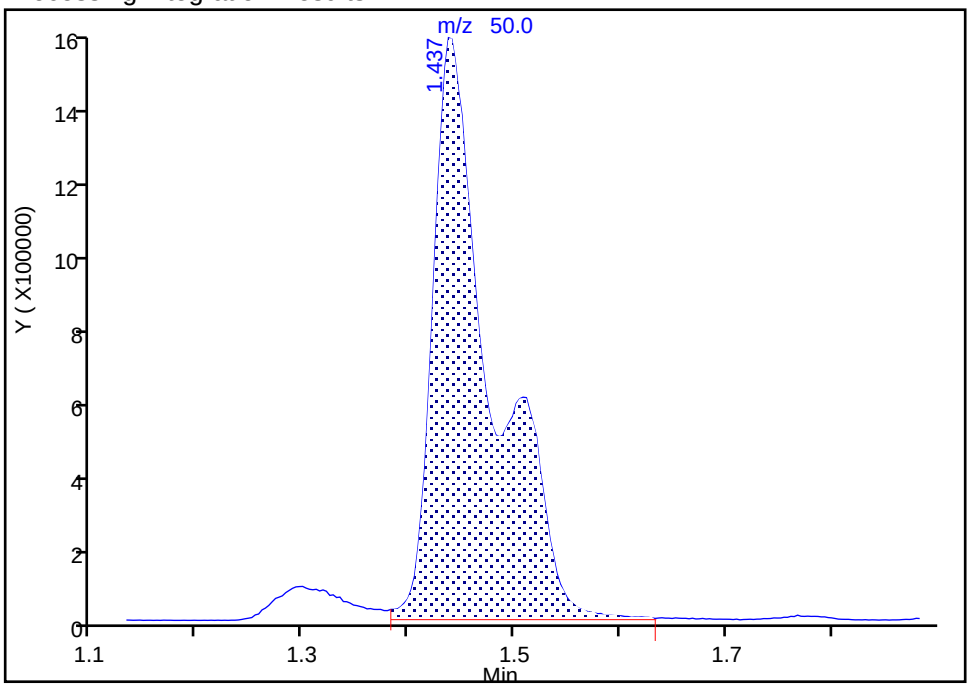
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X11.D
Injection Date: 08-Mar-2023 19:28:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Chloromethane, CAS: 74-87-3

Signal: 1

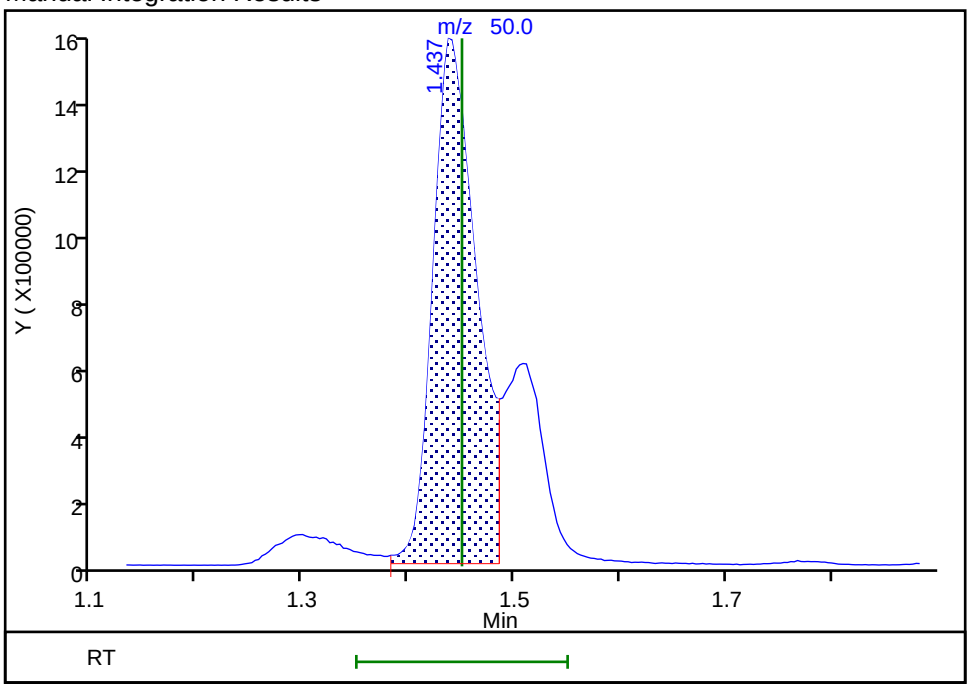
Processing Integration Results

RT: 1.44
Area: 6088914
Amount: 317.2678
Amount Units: ug/l



Manual Integration Results

RT: 1.44
Area: 4526886
Amount: 268.6925
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:36:32
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

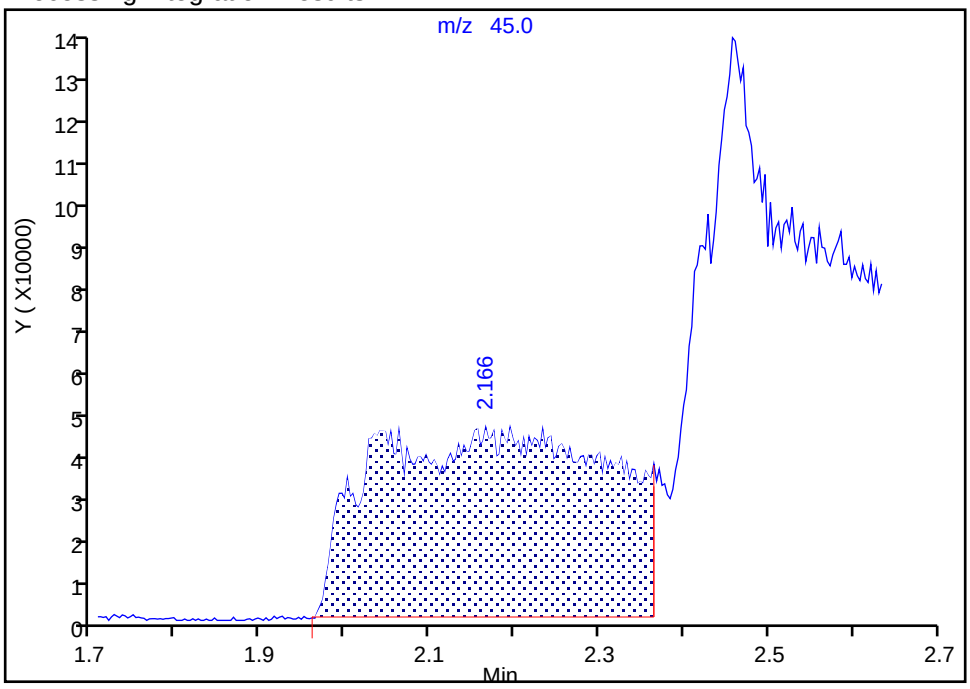
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X11.D
Injection Date: 08-Mar-2023 19:28:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

17 Ethanol, CAS: 64-17-5

Signal: 1

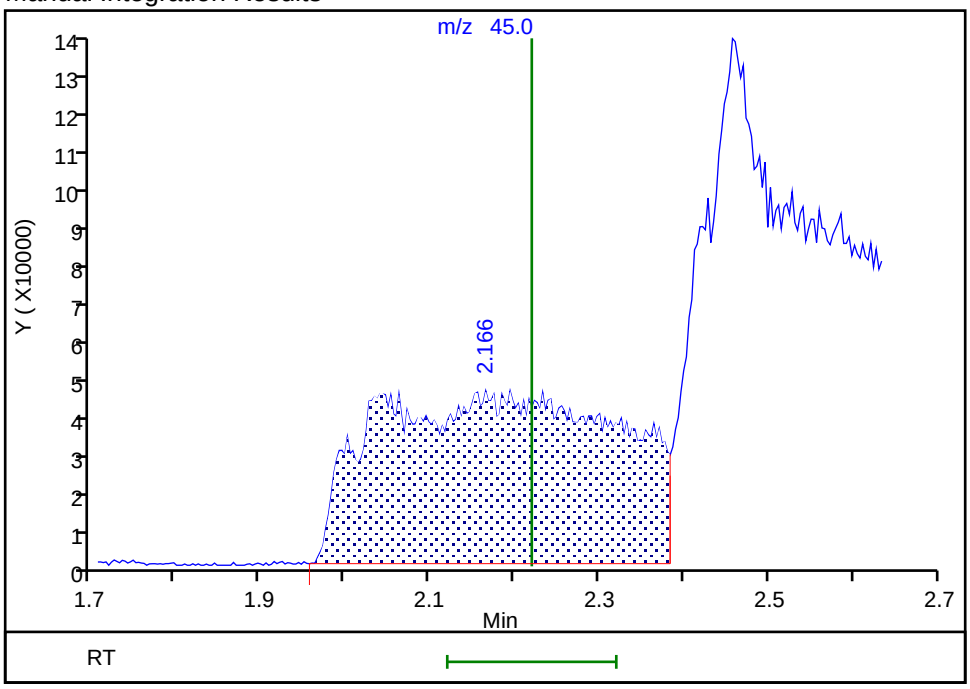
Processing Integration Results

RT: 2.17
Area: 883113
Amount: 6676.5553
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 924736
Amount: 6154.9691
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:17:22
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

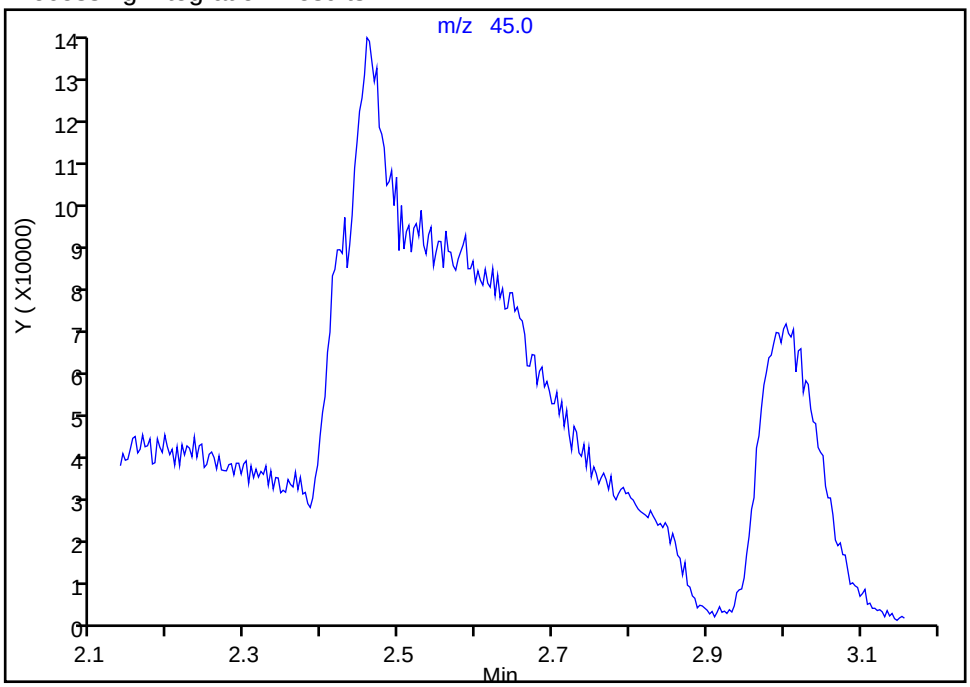
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X11.D
Injection Date: 08-Mar-2023 19:28:30 Instrument ID: 9137
Lims ID: IC v300
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

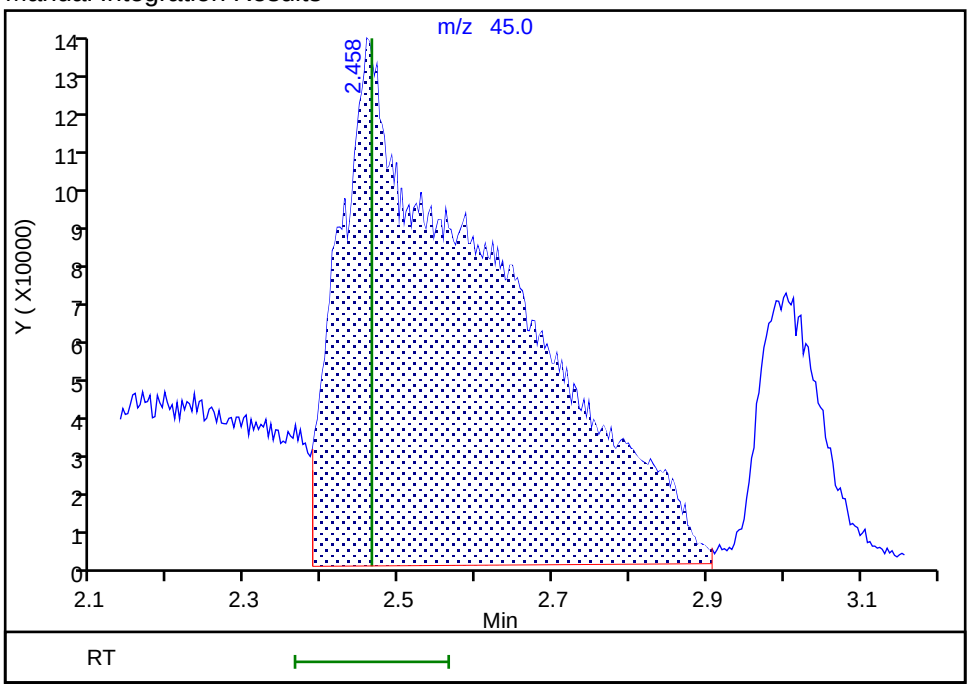
Not Detected
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.46
Area: 1978094
Amount: 1401.5981
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:16:43
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X12.D
Lims ID: IC v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Mar-2023 19:48:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-012
Misc. Info.: IC V100
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:13:58 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 12:20:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.306	1.309	-0.003	99	1533679	100.0	113.7	
6 Chloromethane	50	1.434	1.450	-0.016	99	1606485	100.0	101.7	M
7 Butadiene	39	1.505	1.518	-0.013	91	1518710	100.0	103.6	
8 Vinyl chloride	62	1.508	1.521	-0.013	91	1655549	100.0	107.4	
10 Bromomethane	94	1.729	1.739	-0.010	90	916667	100.0	103.0	
11 Chloroethane	64	1.771	1.787	-0.016	100	837552	100.0	105.5	
12 Dichlorofluoromethane	67	1.919	1.932	-0.013	98	1913392	100.0	103.7	
13 Trichlorofluoromethane	101	1.980	1.986	-0.006	85	1824182	100.0	111.9	
14 Pentane	43	1.983	1.996	-0.013	97	1603244	100.0	101.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.172	2.185	-0.013	94	1137428	100.0	105.8	
17 Ethanol	45	2.224	2.220	0.004	34	381432	2500.1	2528.7	
18 Acrolein	56	2.240	2.249	-0.009	99	3292302	999.9	1039.8	
19 1,1-Dichloroethene	96	2.333	2.345	-0.012	98	788303	100.0	99.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.362	2.374	-0.012	94	1018845	100.0	104.5	
21 Acetone	58	2.365	2.384	-0.019	64	325140	200.0	218.9	
24 Isopropyl alcohol	45	2.464	2.464	0.000	30	770075	500.0	543.5	a
22 Iodomethane	142	2.471	2.483	-0.012	98	1403070	100.0	101.5	
23 Carbon disulfide	76	2.535	2.548	-0.013	99	2710216	100.0	101.4	
26 3-Chloro-1-propene	41	2.634	2.647	-0.013	92	1338077	100.0	99.0	
27 Methyl acetate	43	2.650	2.660	-0.010	78	1135863	100.0	106.6	
29 Methylene Chloride	84	2.743	2.756	-0.013	94	859305	100.0	92.8	
* 30 t-Butyl alcohol-d10 (IS)	65	2.856	2.791	0.065	39	463626	250.0	250.0	
31 2-Methyl-2-propanol	59	2.907	2.891	0.016	97	1294114	500.0	504.1	
32 Acrylonitrile	53	2.955	2.974	-0.019	99	1380402	250.0	250.7	
33 trans-1,2-Dichloroethene	96	2.991	3.003	-0.012	98	781394	100.0	99.4	
34 Methyl tert-butyl ether	73	2.991	3.006	-0.015	99	2655556	100.0	100.3	
35 Hexane	57	3.244	3.260	-0.016	94	1377899	100.0	106.2	
36 1,1-Dichloroethane	63	3.376	3.385	-0.009	97	1425021	100.0	101.5	
38 Isopropyl ether	45	3.446	3.453	-0.007	95	2768311	100.0	102.7	
39 2-Chloro-1,3-butadiene	53	3.465	3.475	-0.010	91	1370686	100.0	102.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.793	3.806	-0.013	98	2698801	100.0	102.9	
41 2-Butanone (MEK)	43	3.908	3.921	-0.013	100	1459620	200.0	211.4	
42 cis-1,2-Dichloroethene	96	3.928	3.937	-0.009	85	856339	100.0	100.3	
43 2,2-Dichloropropane	77	3.947	3.956	-0.009	87	1416856	100.0	102.9	
45 Propionitrile	54	3.998	3.998	0.000	98	1219659	500.0	505.0	
47 Methacrylonitrile	67	4.143	4.155	-0.012	91	1289581	250.0	259.2	
48 Chlorobromomethane	128	4.155	4.165	-0.010	97	402591	100.0	100.5	
49 Tetrahydrofuran	71	4.207	4.216	-0.009	84	1014968	500.0	490.5	
50 Chloroform	83	4.236	4.239	-0.003	95	1323744	100.0	102.3	
$ 52 Dibromofluoromethane (Surr)	113	4.393	4.399	-0.006	93	278254	50.0	49.4	
53 1,1,1-Trichloroethane	97	4.428	4.438	-0.010	97	1330285	100.0	101.7	
54 Cyclohexane	56	4.496	4.495	0.001	92	1935561	100.0	104.6	
55 1,1-Dichloropropene	75	4.585	4.592	-0.007	96	1123642	100.0	101.2	
56 Carbon tetrachloride	117	4.598	4.595	0.003	98	1121105	100.0	106.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	88	71316	50.0	50.5	
58 Isobutyl alcohol	41	4.698	4.733	-0.035	96	865844	1250.0	1232.9	
59 Benzene	78	4.791	4.800	-0.009	97	3257135	100.0	103.2	
60 1,2-Dichloroethane	62	4.800	4.807	-0.007	97	1039585	100.0	100.7	
62 Tert-amyl methyl ether	73	4.913	4.913	0.000	98	2541211	100.0	102.1	
* 63 Fluorobenzene (IS)	96	5.070	5.073	-0.003	97	1149083	50.0	50.0	
64 n-Heptane	43	5.076	5.083	-0.007	94	1357889	100.0	108.5	
65 n-Butanol	56	5.365	5.378	-0.013	88	725945	1250.0	1326.4	
66 Trichloroethene	95	5.442	5.452	-0.010	99	819911	100.0	103.4	
68 Methylcyclohexane	83	5.651	5.660	-0.009	93	1833192	100.0	106.4	
69 1,2-Dichloropropane	63	5.673	5.676	-0.003	98	859896	100.0	104.2	
70 2-ethoxy-2-methyl butane	87	5.725	5.724	0.001	92	1225210	100.0	106.5	
71 Dibromomethane	93	5.795	5.795	0.000	97	502173	100.0	103.0	
72 1,4-Dioxane	88	5.805	5.805	0.000	31	193991	1250.0	1321.7	
73 Methyl methacrylate	69	5.805	5.808	-0.003	92	777717	100.0	106.6	
75 Dichlorobromomethane	83	5.965	5.965	0.000	100	976765	100.0	107.9	
S 76 1,2-Dichloroethene, Total	100				0			199.7	
77 2-Nitropropane	41	6.203	6.203	0.000	97	1857063	500.0	536.2	
78 2-Chloroethyl vinyl ether	63	6.289	6.296	-0.007	91	614022	100.0	109.9	
80 cis-1,3-Dichloropropene	75	6.443	6.443	0.000	95	1269712	100.0	108.5	
81 4-Methyl-2-pentanone (MIBK)	43	6.617	6.623	-0.006	98	3144182	200.0	218.6	
$ 82 Toluene-d8 (Surr)	98	6.735	6.732	0.003	94	1144773	50.0	50.2	
83 Toluene	92	6.803	6.809	-0.006	98	2011944	100.0	104.0	
84 trans-1,3-Dichloropropene	75	7.047	7.050	-0.003	94	1145604	100.0	107.5	
86 Ethyl methacrylate	69	7.169	7.175	-0.006	90	1315997	100.0	107.1	
87 1,1,2-Trichloroethane	97	7.242	7.242	0.000	91	705861	100.0	104.6	
89 Tetrachloroethene	166	7.396	7.396	0.000	98	842484	100.0	104.4	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	93	1182564	100.0	104.9	
93 2-Hexanone	43	7.515	7.515	0.000	97	2051657	200.0	217.7	
94 Chlorodibromomethane	129	7.637	7.643	-0.006	90	723559	100.0	115.7	
96 Ethylene Dibromide	107	7.743	7.746	-0.003	99	732640	100.0	108.2	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	842677	50.0	50.0	
98 1-Chlorohexane	91	8.208	8.211	-0.003	96	1163746	100.0	105.0	
99 Chlorobenzene	112	8.215	8.215	0.000	94	2082347	100.0	106.3	
100 1,1,1,2-Tetrachloroethane	131	8.292	8.295	-0.003	96	815065	100.0	109.5	
101 Ethylbenzene	91	8.321	8.320	0.001	98	3899412	100.0	104.1	
102 m-Xylene & p-Xylene	106	8.426	8.426	0.000	98	2997807	200.0	212.4	
104 o-Xylene	106	8.763	8.763	0.000	97	1562193	100.0	104.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Styrene	104	8.773	8.776	-0.003	94	2389379	100.0	108.3	
106 Bromoform	173	8.917	8.917	0.000	97	548421	100.0	105.6	
107 Isopropylbenzene	105	9.071	9.071	0.000	96	4305698	100.0	106.6	
109 Cyclohexanone	55	9.136	9.136	0.000	93	802237	1250.0	1311.8	
$ 110 4-Bromofluorobenzene (Surr)	95	9.184	9.187	-0.003	88	418381	50.0	49.7	
111 Bromobenzene	156	9.302	9.302	0.000	96	857310	100.0	105.6	
112 1,1,2,2-Tetrachloroethane	83	9.302	9.306	-0.004	94	1349243	100.0	105.5	
113 1,2,3-Trichloropropane	110	9.335	9.334	0.001	85	377229	100.0	105.3	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	96	943079	250.0	277.0	
115 N-Propylbenzene	91	9.392	9.395	-0.003	99	4765567	100.0	107.7	
116 2-Chlorotoluene	126	9.457	9.456	0.001	96	927359	100.0	106.2	
117 1,3,5-Trimethylbenzene	105	9.530	9.533	-0.003	95	3602906	100.0	109.5	
118 4-Chlorotoluene	126	9.537	9.540	-0.003	99	861409	100.0	105.3	
120 tert-Butylbenzene	134	9.777	9.777	0.000	94	713893	100.0	111.9	
122 1,2,4-Trimethylbenzene	105	9.809	9.809	0.000	98	3649868	100.0	108.3	
123 sec-Butylbenzene	105	9.938	9.938	0.000	94	4615650	100.0	112.0	
161 1,3-Dichlorobenzene	146	10.012	10.015	-0.003	98	1660495	100.0	103.9	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	3913967	100.0	111.5	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	455363	50.0	50.0	
S 164 1,3-Dichloropropene, Total	100				0			216.1	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	94	1586931	100.0	102.4	
166 1,2,3-Trimethylbenzene	105	10.118	10.117	0.001	99	3769827	100.0	106.5	
167 Benzyl chloride	91	10.175	10.175	0.000	99	2594706	100.0	110.6	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	2333245	100.0	109.1	
169 p-Diethylbenzene	119	10.317	10.316	0.000	93	2357349	100.0	109.6	
170 n-Butylbenzene	92	10.336	10.336	0.000	97	1922064	100.0	110.8	
171 1,2-Dichlorobenzene	146	10.342	10.342	0.000	97	1739757	100.0	103.9	
172 o-diethylbenzene	119	10.400	10.400	0.000	96	1914987	100.0	109.8	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	90	364118	100.0	109.9	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	98	1381509	100.0	108.1	
S 175 Xylenes, Total	106				0			316.9	
176 1,2,4-Trichlorobenzene	180	11.433	11.433	0.000	94	1301985	100.0	106.1	
178 Hexachlorobutadiene	225	11.546	11.545	0.001	97	504610	100.0	114.2	
179 Naphthalene	128	11.597	11.597	0.000	97	4885516	100.0	104.1	
180 1,2,3-Trichlorobenzene	180	11.751	11.751	0.000	96	1353836	100.0	104.9	
181 2-Methylnaphthalene	142	12.316	12.316	0.000	92	3210324	100.0	109.7	
S 192 Total Diethylbenzene	1				0			328.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00114	Amount Added:	5.00	Units: uL	
MSV_CCV_CYC_00005	Amount Added:	10.00	Units: uL	
MSV_CCV_VOC#3_00115	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00110	Amount Added:	5.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00411	Amount Added:	2.50	Units: uL	
MSV_Cent_ISSS_00016	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 14-Mar-2023 13:13:59 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X12.D

Injection Date: 08-Mar-2023 19:48:30 Instrument ID: 9137 Operator ID: kas02648

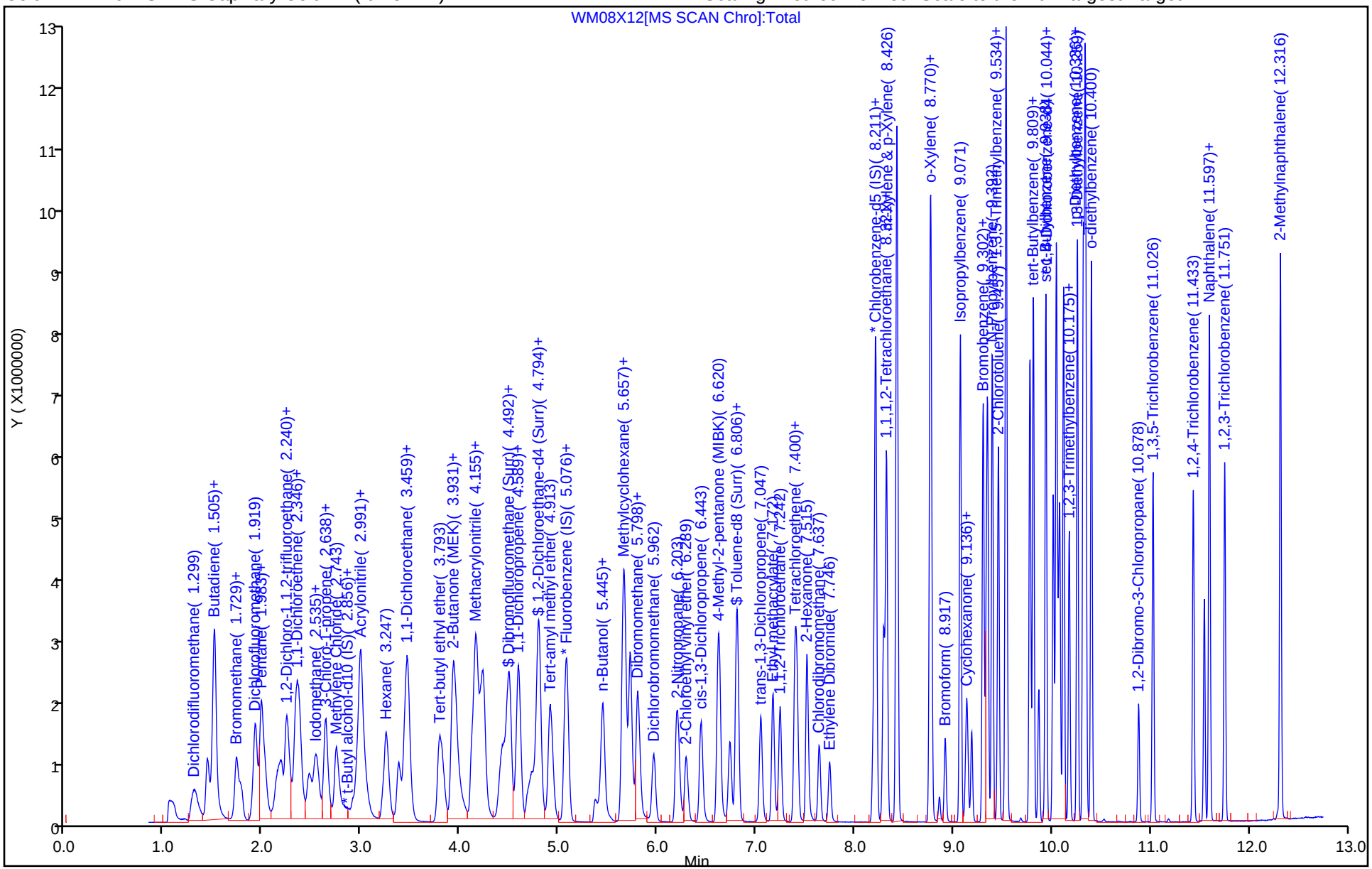
Lims ID: IC v100 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

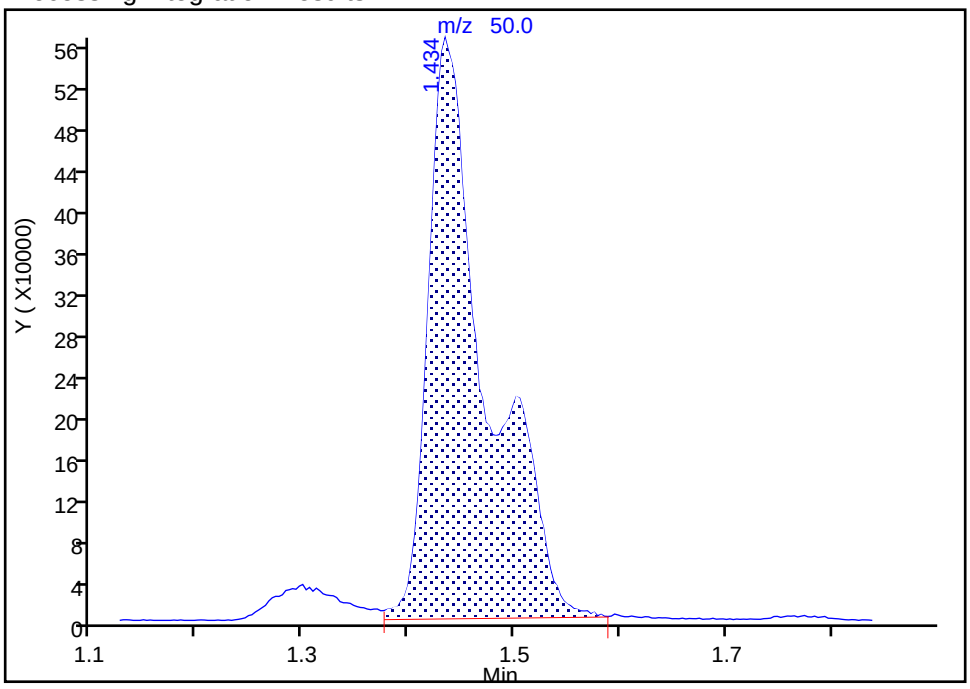
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X12.D
Injection Date: 08-Mar-2023 19:48:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Chloromethane, CAS: 74-87-3

Signal: 1

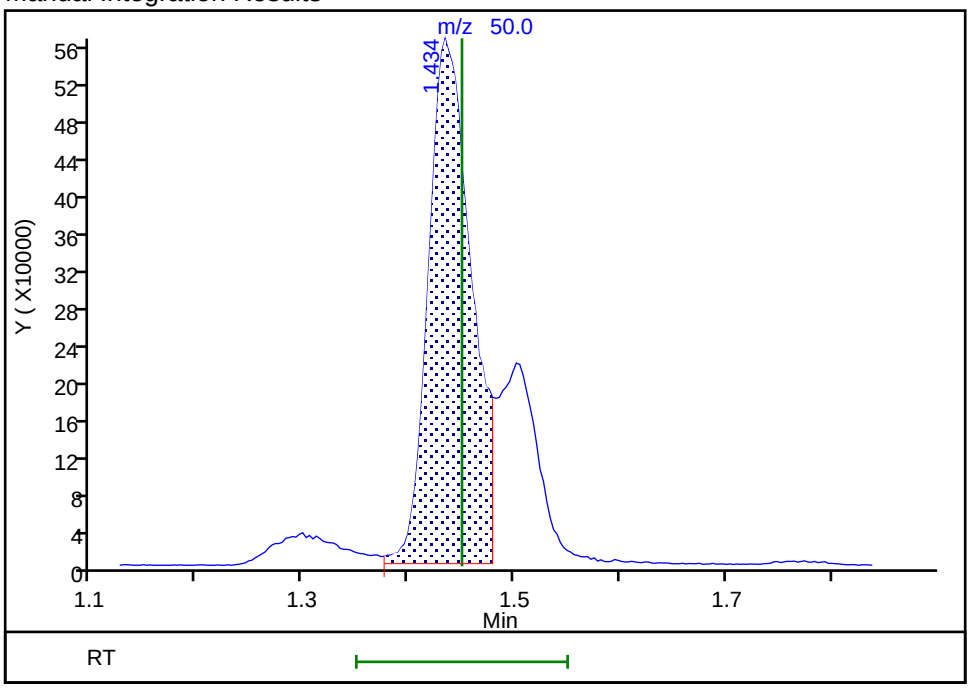
Processing Integration Results

RT: 1.43
Area: 2156531
Amount: 124.6871
Amount Units: ug/l



Manual Integration Results

RT: 1.43
Area: 1606485
Amount: 101.7057
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:42:20
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

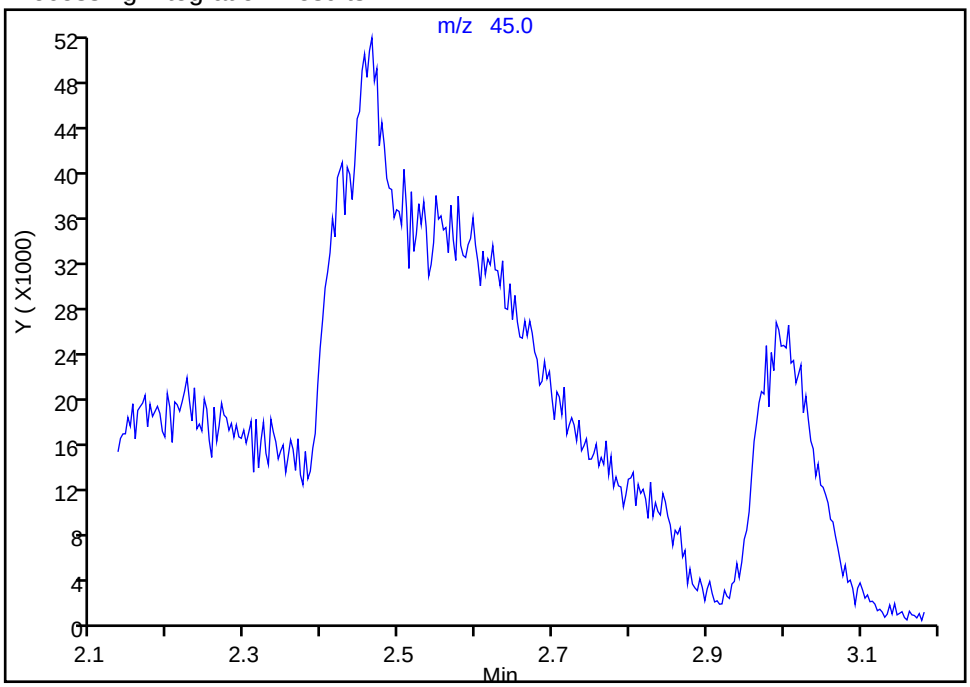
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X12.D
Injection Date: 08-Mar-2023 19:48:30 Instrument ID: 9137
Lims ID: IC v100
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

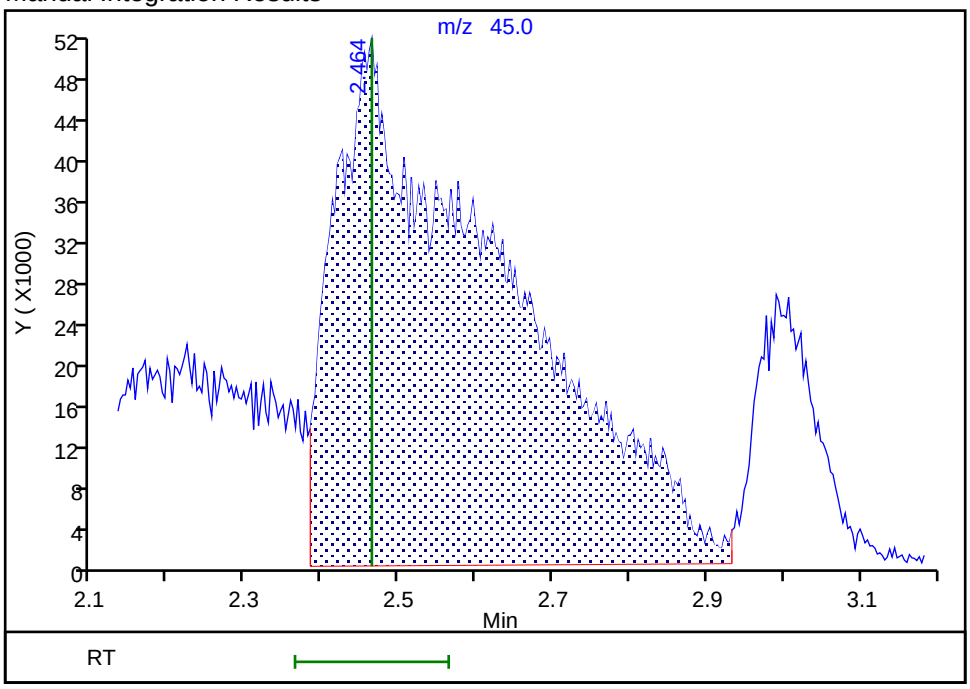
Not Detected
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.46
Area: 770075
Amount: 543.4788
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:18:44
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X13.D
Lims ID: ICIS v50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 08-Mar-2023 20:08:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-013
Misc. Info.: ICIS V50
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:27:58 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 13:27:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.309	1.309	0.000	99	715428	50.0	54.7	
6 Chloromethane	50	1.450	1.450	0.000	100	768265	50.0	50.2	M
7 Butadiene	39	1.518	1.518	0.000	90	728803	50.0	51.3	
8 Vinyl chloride	62	1.521	1.521	0.000	90	771947	50.0	51.7	
10 Bromomethane	94	1.739	1.739	0.000	90	443166	50.0	51.4	
11 Chloroethane	64	1.787	1.787	0.000	100	406881	50.0	52.8	
12 Dichlorofluoromethane	67	1.932	1.932	0.000	98	934616	50.0	52.2	
13 Trichlorofluoromethane	101	1.986	1.986	0.000	74	864611	50.0	54.7	
14 Pentane	43	1.996	1.996	0.000	97	794141	50.0	51.6	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.185	2.185	0.000	96	548671	50.0	52.6	
17 Ethanol	45	2.220	2.220	0.000	41	184194	1250.0	1221.4	
18 Acrolein	56	2.249	2.249	0.000	99	1646620	500.0	520.1	
19 1,1-Dichloroethene	96	2.345	2.345	0.000	99	393814	50.0	51.3	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.374	2.374	0.000	94	489248	50.0	51.8	
21 Acetone	58	2.384	2.384	0.000	84	158885	100.0	107.0	
24 Isopropyl alcohol	45	2.464	2.464	0.000	53	357767	250.0	252.5	Ma
22 Iodomethane	142	2.483	2.483	0.000	98	681191	50.0	50.8	
23 Carbon disulfide	76	2.548	2.548	0.000	99	1295034	50.0	50.0	
26 3-Chloro-1-propene	41	2.647	2.647	0.000	92	669838	50.0	51.1	
27 Methyl acetate	43	2.660	2.660	0.000	98	550826	50.0	53.3	
29 Methylene Chloride	84	2.756	2.756	0.000	95	421841	50.0	47.0	
* 30 t-Butyl alcohol-d10 (IS)	65	2.769	2.769	0.000	50	463533	250.0	250.0	
31 2-Methyl-2-propanol	59	2.891	2.891	0.000	97	635695	250.0	247.7	
32 Acrylonitrile	53	2.974	2.974	0.000	100	690675	125.0	129.4	
33 trans-1,2-Dichloroethene	96	3.003	3.003	0.000	98	383273	50.0	50.3	
34 Methyl tert-butyl ether	73	3.006	3.006	0.000	93	1298533	50.0	50.6	
35 Hexane	57	3.260	3.260	0.000	94	664003	50.0	52.8	
36 1,1-Dichloroethane	63	3.385	3.385	0.000	96	699815	50.0	51.4	
38 Isopropyl ether	45	3.453	3.453	0.000	94	1344367	50.0	51.4	
39 2-Chloro-1,3-butadiene	53	3.475	3.475	0.000	91	658987	50.0	51.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.806	3.806	0.000	98	1279659	50.0	50.3	
41 2-Butanone (MEK)	43	3.921	3.921	0.000	100	691025	100.0	103.2	
42 cis-1,2-Dichloroethene	96	3.937	3.937	0.000	85	415138	50.0	50.2	
43 2,2-Dichloropropane	77	3.956	3.956	0.000	90	674673	50.0	50.5	
45 Propionitrile	54	3.998	3.998	0.000	97	603063	250.0	249.8	
47 Methacrylonitrile	67	4.155	4.155	0.000	90	628694	125.0	130.3	
48 Chlorobromomethane	128	4.165	4.165	0.000	97	197819	50.0	50.9	
49 Tetrahydrofuran	71	4.216	4.216	0.000	88	498619	250.0	241.0	
50 Chloroform	83	4.239	4.239	0.000	95	640870	50.0	51.1	
$ 52 Dibromofluoromethane (Surr)	113	4.399	4.399	0.000	93	272356	50.0	49.8	
53 1,1,1-Trichloroethane	97	4.438	4.438	0.000	98	645737	50.0	50.9	
54 Cyclohexane	56	4.495	4.495	0.000	92	931319	50.0	51.9	
55 1,1-Dichloropropene	75	4.592	4.592	0.000	97	542809	50.0	50.4	
56 Carbon tetrachloride	117	4.595	4.595	0.000	97	534612	50.0	52.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	96	67678	50.0	49.4	
58 Isobutyl alcohol	41	4.733	4.733	0.000	92	434564	625.0	618.9	
59 Benzene	78	4.800	4.800	0.000	96	1572403	50.0	51.4	
60 1,2-Dichloroethane	62	4.807	4.807	0.000	97	503445	50.0	50.3	
62 Tert-amyl methyl ether	73	4.913	4.913	0.000	99	1237982	50.0	51.3	
* 63 Fluorobenzene (IS)	96	5.073	5.073	0.000	98	1114062	50.0	50.0	
64 n-Heptane	43	5.083	5.083	0.000	94	649294	50.0	53.5	
65 n-Butanol	56	5.378	5.378	0.000	90	352882	625.0	648.0	
66 Trichloroethene	95	5.452	5.452	0.000	99	388409	50.0	50.5	
68 Methylcyclohexane	83	5.660	5.660	0.000	93	867418	50.0	51.9	
69 1,2-Dichloropropane	63	5.676	5.676	0.000	98	410199	50.0	51.3	
70 2-ethoxy-2-methyl butane	87	5.724	5.724	0.000	92	585094	50.0	52.4	
71 Dibromomethane	93	5.795	5.795	0.000	98	243763	50.0	51.6	
72 1,4-Dioxane	88	5.805	5.805	0.000	31	87838	625.0	598.6	
73 Methyl methacrylate	69	5.808	5.808	0.000	94	370187	50.0	52.4	
75 Dichlorobromomethane	83	5.965	5.965	0.000	100	458181	50.0	52.2	
77 2-Nitropropane	41	6.203	6.203	0.000	98	901258	250.0	260.3	
78 2-Chloroethyl vinyl ether	63	6.296	6.296	0.000	92	291987	50.0	53.9	
80 cis-1,3-Dichloropropene	75	6.443	6.443	0.000	95	596418	50.0	52.6	
81 4-Methyl-2-pentanone (MIBK)	43	6.623	6.623	0.000	98	1566250	100.0	112.3	
$ 82 Toluene-d8 (Surr)	98	6.732	6.732	0.000	94	1095883	50.0	49.8	
83 Toluene	92	6.809	6.809	0.000	98	953400	50.0	51.1	
84 trans-1,3-Dichloropropene	75	7.050	7.050	0.000	94	533671	50.0	51.9	
86 Ethyl methacrylate	69	7.175	7.175	0.000	90	627188	50.0	52.9	
87 1,1,2-Trichloroethane	97	7.242	7.242	0.000	90	333873	50.0	51.3	
89 Tetrachloroethene	166	7.396	7.396	0.000	98	401478	50.0	51.5	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	95	564287	50.0	51.9	
93 2-Hexanone	43	7.515	7.515	0.000	97	1025686	100.0	112.8	
94 Chlorodibromomethane	129	7.643	7.643	0.000	90	333102	50.0	55.2	
96 Ethylene Dibromide	107	7.746	7.746	0.000	99	347202	50.0	53.1	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	85	813166	50.0	50.0	
98 1-Chlorohexane	91	8.211	8.211	0.000	97	544814	50.0	51.0	
99 Chlorobenzene	112	8.215	8.215	0.000	94	986193	50.0	52.2	
100 1,1,1,2-Tetrachloroethane	131	8.295	8.295	0.000	96	386957	50.0	53.9	
101 Ethylbenzene	91	8.320	8.320	0.000	98	1876263	50.0	51.9	
102 m-Xylene & p-Xylene	106	8.426	8.426	0.000	98	1419415	100.0	104.2	
104 o-Xylene	106	8.763	8.763	0.000	96	760557	50.0	52.7	
105 Styrene	104	8.776	8.776	0.000	95	1134668	50.0	53.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 Bromoform	173	8.917	8.917	0.000	97	245540	50.0	49.5	
107 Isopropylbenzene	105	9.071	9.071	0.000	96	2077874	50.0	53.3	
109 Cyclohexanone	55	9.136	9.136	0.000	94	391879	625.0	640.9	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.187	0.000	89	398872	50.0	49.1	
111 Bromobenzene	156	9.302	9.302	0.000	96	413969	50.0	53.1	
112 1,1,2,2-Tetrachloroethane	83	9.306	9.306	0.000	95	653372	50.0	53.2	
113 1,2,3-Trichloropropane	110	9.334	9.334	0.000	85	185793	50.0	54.0	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	96	457240	125.0	139.7	
115 N-Propylbenzene	91	9.395	9.395	0.000	99	2295965	50.0	54.0	
116 2-Chlorotoluene	126	9.456	9.456	0.000	96	444870	50.0	53.0	
117 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	95	1720676	50.0	54.4	
118 4-Chlorotoluene	126	9.540	9.540	0.000	99	411600	50.0	52.3	
120 tert-Butylbenzene	134	9.777	9.777	0.000	94	337656	50.0	55.1	
122 1,2,4-Trimethylbenzene	105	9.809	9.809	0.000	98	1768123	50.0	54.6	
123 sec-Butylbenzene	105	9.938	9.938	0.000	94	2211939	50.0	55.9	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	98	804586	50.0	52.4	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	1870648	50.0	55.5	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	437621	50.0	50.0	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	95	768232	50.0	51.6	
166 1,2,3-Trimethylbenzene	105	10.117	10.117	0.000	98	1831920	50.0	53.9	
167 Benzyl chloride	91	10.175	10.175	0.000	99	1270662	50.0	56.4	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	1123897	50.0	54.7	
169 p-Diethylbenzene	119	10.316	10.316	0.000	93	1125654	50.0	54.4	
170 n-Butylbenzene	92	10.336	10.336	0.000	97	910516	50.0	54.6	
171 1,2-Dichlorobenzene	146	10.342	10.342	0.000	97	849655	50.0	52.8	
172 o-diethylbenzene	119	10.400	10.400	0.000	96	915951	50.0	54.7	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	85	173902	50.0	54.6	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	668398	50.0	54.4	
176 1,2,4-Trichlorobenzene	180	11.433	11.433	0.000	94	632788	50.0	53.6	
178 Hexachlorobutadiene	225	11.545	11.545	0.000	97	236653	50.0	55.7	
179 Naphthalene	128	11.597	11.597	0.000	97	2471587	50.0	54.8	
180 1,2,3-Trichlorobenzene	180	11.751	11.751	0.000	96	664496	50.0	53.6	
181 2-Methylnaphthalene	142	12.316	12.316	0.000	92	1581580	50.0	56.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00114	Amount Added:	5.00	Units: uL	
MSV_CCV_CYC_00005	Amount Added:	10.00	Units: uL	
MSV_CCV_VOC#3_00115	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00110	Amount Added:	5.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00411	Amount Added:	2.50	Units: uL	
MSV_Cent_ISSS_00016	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 14-Mar-2023 13:28:00 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X13.D

Injection Date: 08-Mar-2023 20:08:30 Instrument ID: 9137 Operator ID: kas02648

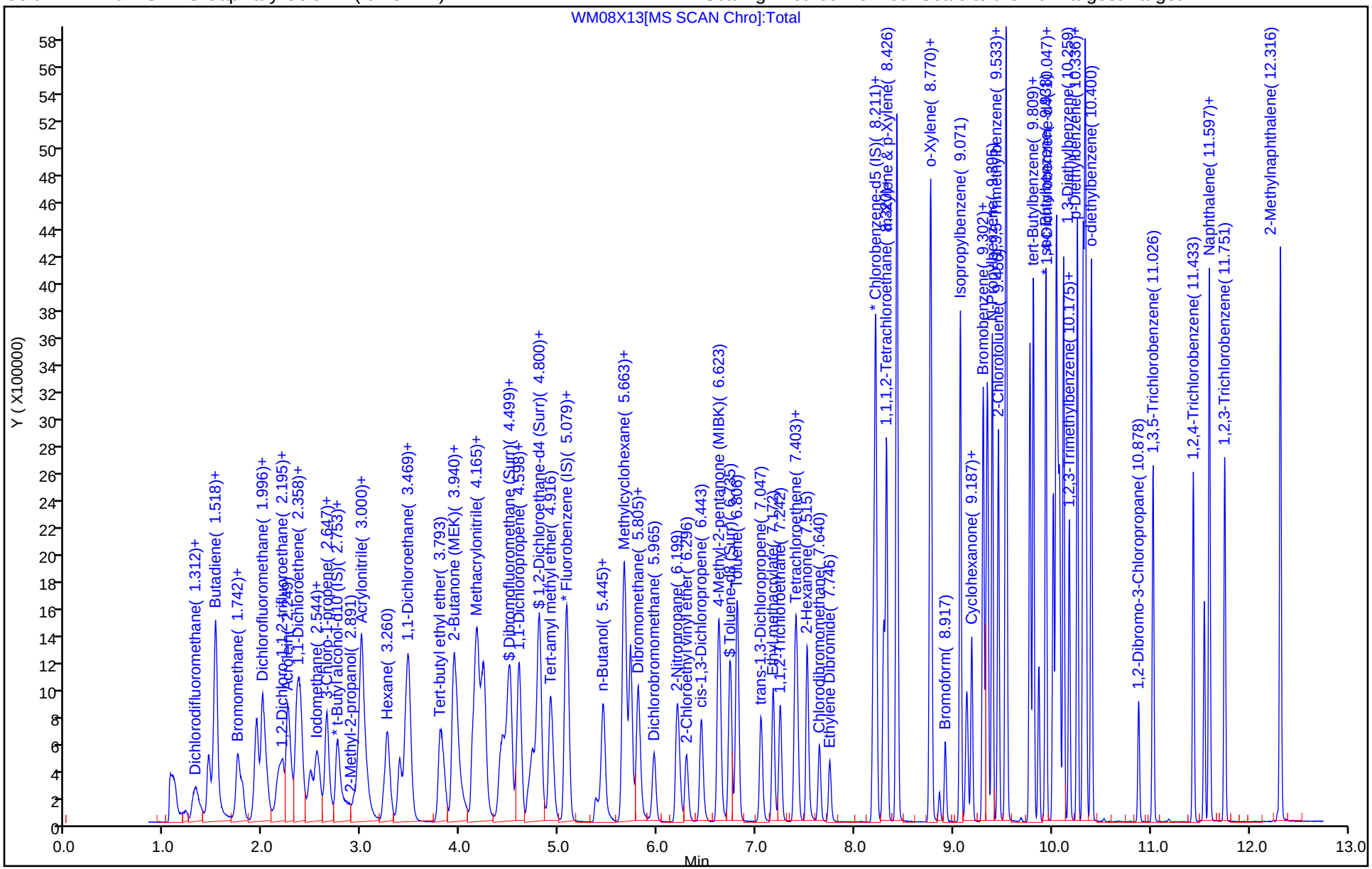
Lims ID: ICIS v50 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

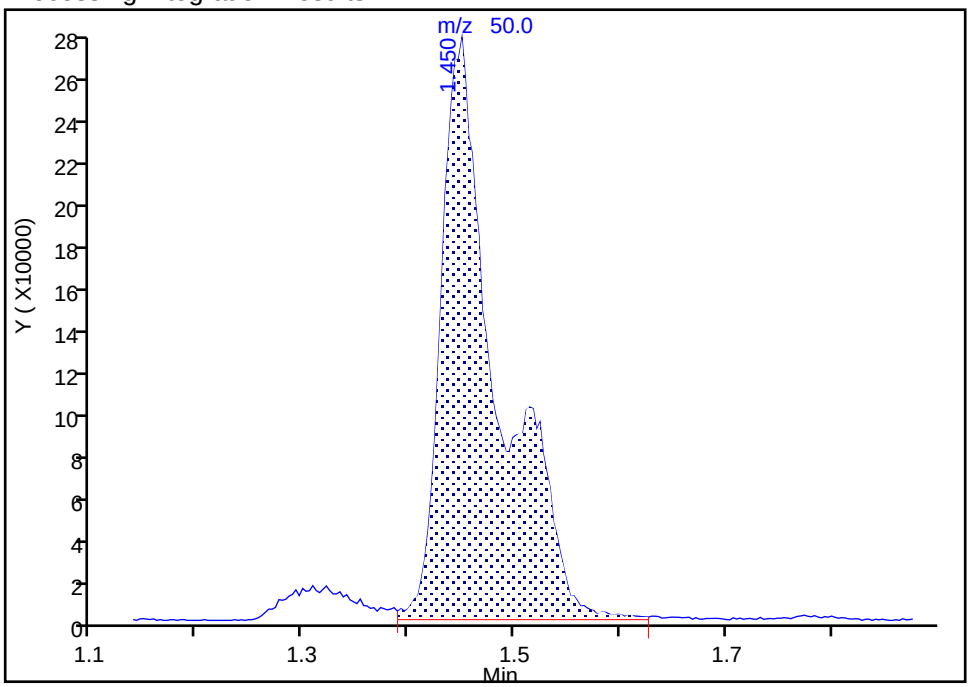
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X13.D
Injection Date: 08-Mar-2023 20:08:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Chloromethane, CAS: 74-87-3

Signal: 1

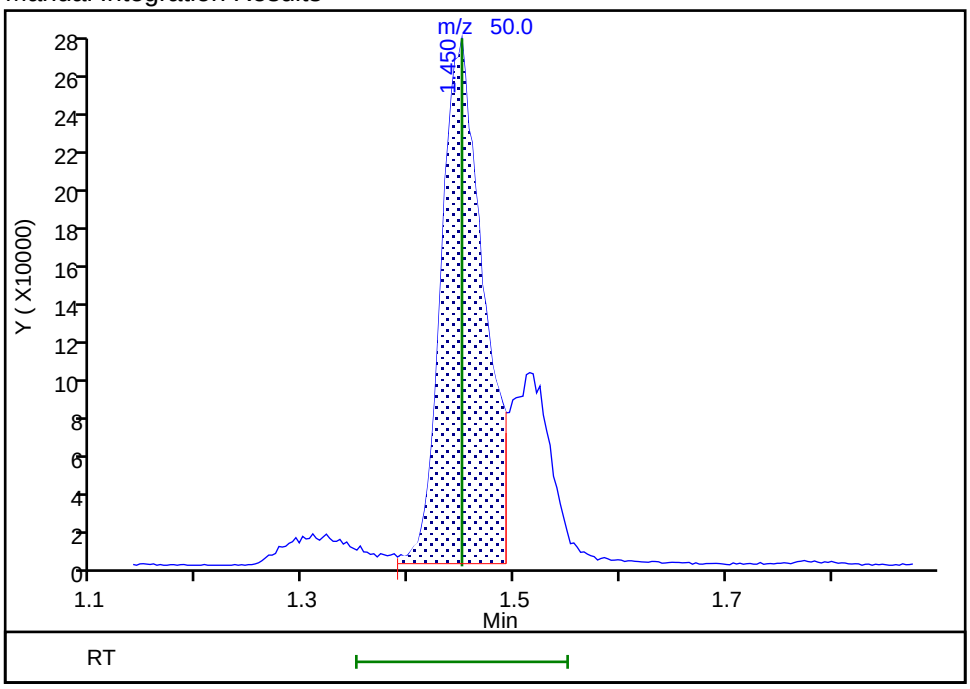
Processing Integration Results

RT: 1.45
Area: 1032172
Amount: 56.717273
Amount Units: ug/l



Manual Integration Results

RT: 1.45
Area: 768265
Amount: 50.167404
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:36:13
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

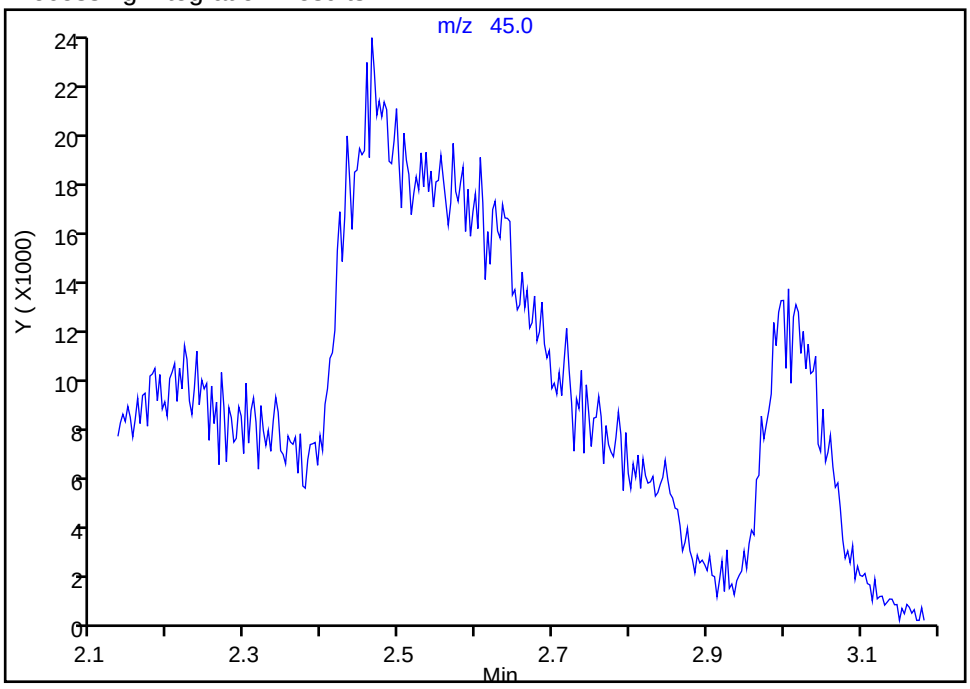
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X13.D
Injection Date: 08-Mar-2023 20:08:30 Instrument ID: 9137
Lims ID: ICIS v50
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

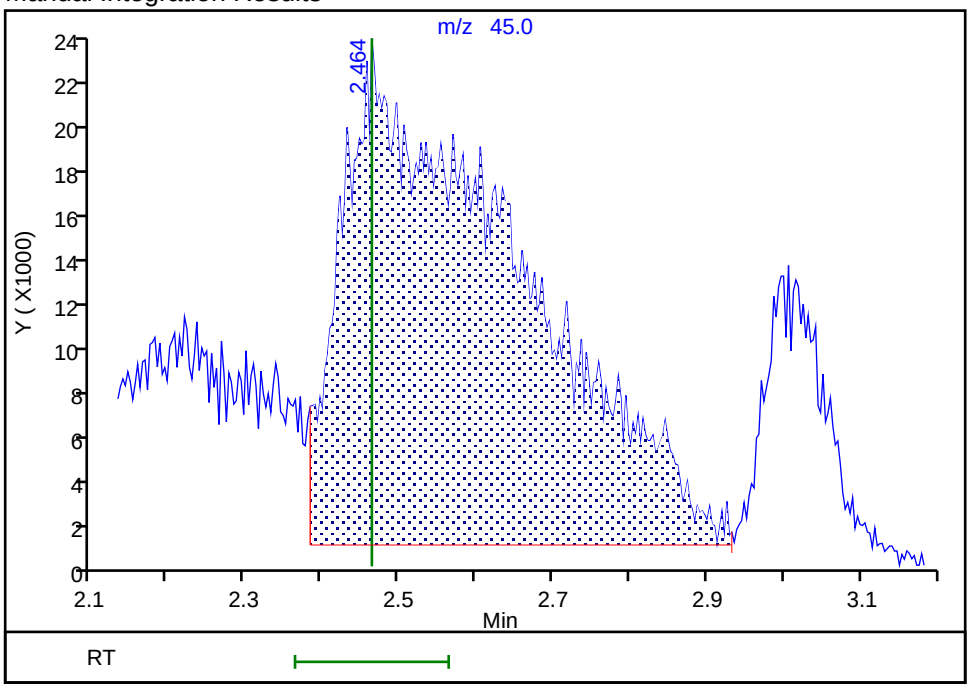
Not Detected
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.46
Area: 357767
Amount: 252.5439
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 11:52:25
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X14.D
Lims ID: IC v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Mar-2023 20:27:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-014
Misc. Info.: IC V20
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:14:07 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 12:22:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.312	1.309	0.003	98	253072	20.0	18.7	
6 Chloromethane	50	1.444	1.450	-0.006	99	286365	20.0	18.0	
7 Butadiene	39	1.511	1.518	-0.007	92	262044	20.0	17.8	
8 Vinyl chloride	62	1.515	1.521	-0.006	97	279312	20.0	18.0	
10 Bromomethane	94	1.736	1.739	-0.003	91	161627	20.0	18.1	
11 Chloroethane	64	1.781	1.787	-0.006	99	145824	20.0	18.3	
12 Dichlorofluoromethane	67	1.925	1.932	-0.007	99	333634	20.0	18.0	
13 Trichlorofluoromethane	101	1.986	1.986	0.000	67	305732	20.0	18.7	
14 Pentane	43	1.999	1.996	0.003	96	296477	20.0	18.6	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.182	2.185	-0.003	96	193459	20.0	17.9	
17 Ethanol	45	2.298	2.220	0.078	35	142266	1000.0	918.4	
18 Acrolein	56	2.253	2.249	0.004	99	577357	200.0	177.5	
19 1,1-Dichloroethene	96	2.349	2.345	0.004	97	148591	20.0	18.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.365	2.374	-0.009	94	186251	20.0	19.0	
21 Acetone	58	2.378	2.384	-0.006	87	57740	40.0	37.9	
24 Isopropyl alcohol	45	2.432	2.464	-0.032	30	144350	100.0	99.2	a
22 Iodomethane	142	2.477	2.483	-0.006	98	266620	20.0	19.2	
23 Carbon disulfide	76	2.551	2.548	0.003	99	496850	20.0	18.5	
26 3-Chloro-1-propene	41	2.644	2.647	-0.003	92	255282	20.0	18.8	
27 Methyl acetate	43	2.660	2.660	0.000	95	203465	20.0	19.0	
29 Methylene Chloride	84	2.756	2.756	0.000	94	165508	20.0	17.8	
* 30 t-Butyl alcohol-d10 (IS)	65	2.859	2.791	0.068	35	476146	250.0	250.0	
31 2-Methyl-2-propanol	59	2.933	2.891	0.042	91	243775	100.0	92.5	
32 Acrylonitrile	53	2.975	2.974	0.001	98	262651	50.0	47.5	
33 trans-1,2-Dichloroethene	96	2.997	3.003	-0.006	98	147874	20.0	18.7	
34 Methyl tert-butyl ether	73	2.994	3.006	-0.012	90	510667	20.0	19.2	
35 Hexane	57	3.251	3.260	-0.009	93	252152	20.0	19.3	
36 1,1-Dichloroethane	63	3.382	3.385	-0.003	96	269984	20.0	19.2	
38 Isopropyl ether	45	3.453	3.453	0.000	95	515264	20.0	19.0	
39 2-Chloro-1,3-butadiene	53	3.472	3.475	-0.003	92	249355	20.0	18.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.793	3.806	-0.013	99	486940	20.0	18.5	
41 2-Butanone (MEK)	43	3.924	3.921	0.003	97	240730	40.0	34.7	
42 cis-1,2-Dichloroethene	96	3.931	3.937	-0.006	82	162275	20.0	18.9	
43 2,2-Dichloropropane	77	3.947	3.956	-0.009	73	262131	20.0	18.9	
45 Propionitrile	54	4.021	3.998	0.023	99	226035	100.0	91.1	
47 Methacrylonitrile	67	4.146	4.155	-0.009	89	233754	50.0	46.8	
48 Chlorobromomethane	128	4.159	4.165	-0.006	96	78450	20.0	19.5	
49 Tetrahydrofuran	71	4.210	4.216	-0.006	81	184163	100.0	86.7	M
50 Chloroform	83	4.239	4.239	0.000	94	247803	20.0	19.1	
$ 52 Dibromofluoromethane (Surr)	113	4.399	4.399	0.000	93	288062	50.0	50.9	
53 1,1,1-Trichloroethane	97	4.441	4.438	0.003	99	246989	20.0	18.8	
54 Cyclohexane	56	4.496	4.495	0.001	92	349746	20.0	18.8	
55 1,1-Dichloropropene	75	4.592	4.592	0.000	95	207912	20.0	18.6	
56 Carbon tetrachloride	117	4.598	4.595	0.003	97	200318	20.0	18.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	96	69222	50.0	48.8	
58 Isobutyl alcohol	41	4.691	4.733	-0.042	90	151554	250.0	210.1	
59 Benzene	78	4.797	4.800	-0.003	96	598213	20.0	18.9	
60 1,2-Dichloroethane	62	4.807	4.807	0.000	97	190837	20.0	18.4	
62 Tert-amyl methyl ether	73	4.910	4.913	-0.003	99	477285	20.0	19.1	
* 63 Fluorobenzene (IS)	96	5.076	5.073	0.003	99	1154393	50.0	50.0	
64 n-Heptane	43	5.086	5.083	0.003	93	237771	20.0	18.9	
65 n-Butanol	56	5.388	5.378	0.010	80	125274	250.0	227.9	
66 Trichloroethene	95	5.449	5.452	-0.003	99	149323	20.0	18.7	
68 Methylcyclohexane	83	5.657	5.660	-0.003	93	330535	20.0	19.1	
69 1,2-Dichloropropane	63	5.673	5.676	-0.003	96	155590	20.0	18.8	
70 2-ethoxy-2-methyl butane	87	5.721	5.724	-0.003	91	217922	20.0	18.9	
71 Dibromomethane	93	5.795	5.795	0.000	95	91157	20.0	18.6	
72 1,4-Dioxane	88	5.808	5.805	0.003	32	37112	250.0	246.2	M
73 Methyl methacrylate	69	5.808	5.808	0.000	93	138448	20.0	18.9	
75 Dichlorobromomethane	83	5.965	5.965	0.000	99	168044	20.0	18.5	
S 76 1,2-Dichloroethene, Total	100				0			37.6	
77 2-Nitropropane	41	6.200	6.203	-0.003	98	335936	100.0	94.4	
78 2-Chloroethyl vinyl ether	63	6.293	6.296	-0.003	90	107749	20.0	19.2	
80 cis-1,3-Dichloropropene	75	6.437	6.443	-0.006	95	218669	20.0	18.6	
81 4-Methyl-2-pentanone (MIBK)	43	6.620	6.623	-0.003	97	534510	40.0	37.0	
$ 82 Toluene-d8 (Surr)	98	6.735	6.732	0.003	93	1127909	50.0	50.1	
83 Toluene	92	6.809	6.809	0.000	99	360112	20.0	18.9	
84 trans-1,3-Dichloropropene	75	7.047	7.050	-0.003	94	191252	20.0	18.2	
86 Ethyl methacrylate	69	7.172	7.175	-0.003	91	228506	20.0	18.8	
87 1,1,2-Trichloroethane	97	7.246	7.242	0.004	91	123450	20.0	18.5	
89 Tetrachloroethene	166	7.397	7.396	0.001	98	150262	20.0	18.9	
90 1,3-Dichloropropane	76	7.413	7.416	-0.003	92	209016	20.0	18.8	
93 2-Hexanone	43	7.515	7.515	0.000	97	353797	40.0	38.0	
94 Chlorodibromomethane	129	7.640	7.643	-0.003	90	118215	20.0	19.1	
96 Ethylene Dibromide	107	7.743	7.746	-0.003	99	129957	20.0	19.4	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	832008	50.0	50.0	
98 1-Chlorohexane	91	8.208	8.211	-0.003	98	207220	20.0	18.9	
99 Chlorobenzene	112	8.215	8.215	0.000	94	369138	20.0	19.1	
100 1,1,1,2-Tetrachloroethane	131	8.292	8.295	-0.003	95	140015	20.0	19.0	
101 Ethylbenzene	91	8.321	8.320	0.001	98	717198	20.0	19.4	
102 m-Xylene & p-Xylene	106	8.430	8.426	0.004	97	534713	40.0	38.4	
104 o-Xylene	106	8.764	8.763	0.001	97	281818	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Styrene	104	8.776	8.776	0.000	94	419935	20.0	19.3	
106 Bromoform	173	8.918	8.917	0.001	97	81292	20.0	16.6	
107 Isopropylbenzene	105	9.072	9.071	0.001	96	783788	20.0	19.7	
109 Cyclohexanone	55	9.139	9.136	0.003	94	297642	500.0	473.9	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.187	0.000	88	411189	50.0	49.5	
111 Bromobenzene	156	9.303	9.302	0.001	94	155358	20.0	19.1	
112 1,1,2,2-Tetrachloroethane	83	9.303	9.306	-0.003	94	242507	20.0	18.9	
113 1,2,3-Trichloropropane	110	9.331	9.334	-0.003	87	68363	20.0	19.1	
114 trans-1,4-Dichloro-2-butene	53	9.348	9.347	0.001	95	161144	50.0	47.3	
115 N-Propylbenzene	91	9.396	9.395	0.001	99	888373	20.0	20.1	
116 2-Chlorotoluene	126	9.457	9.456	0.001	96	171248	20.0	19.6	
117 1,3,5-Trimethylbenzene	105	9.530	9.533	-0.003	94	646161	20.0	19.6	
118 4-Chlorotoluene	126	9.540	9.540	0.000	99	156850	20.0	19.2	
120 tert-Butylbenzene	134	9.778	9.777	0.001	93	120839	20.0	18.9	
122 1,2,4-Trimethylbenzene	105	9.813	9.809	0.004	98	661618	20.0	19.6	
123 sec-Butylbenzene	105	9.938	9.938	0.000	94	821317	20.0	19.9	
161 1,3-Dichlorobenzene	146	10.012	10.015	-0.003	98	306676	20.0	19.2	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	700306	20.0	19.9	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	455630	50.0	50.0	
S 164 1,3-Dichloropropene, Total	100				0			36.8	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	95	293785	20.0	19.0	
166 1,2,3-Trimethylbenzene	105	10.118	10.117	0.001	99	690243	20.0	19.5	
167 Benzyl chloride	91	10.175	10.175	0.000	98	460076	20.0	19.6	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	420644	20.0	19.7	
169 p-Diethylbenzene	119	10.317	10.316	0.001	95	423036	20.0	19.6	
170 n-Butylbenzene	92	10.336	10.336	0.000	97	337972	20.0	19.5	
171 1,2-Dichlorobenzene	146	10.342	10.342	0.000	97	317705	20.0	19.0	
172 o-diethylbenzene	119	10.400	10.400	0.000	95	342879	20.0	19.7	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	84	62877	20.0	19.0	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	245872	20.0	19.2	
S 175 Xylenes, Total	106				0			57.5	
176 1,2,4-Trichlorobenzene	180	11.433	11.433	0.000	93	234349	20.0	19.1	
178 Hexachlorobutadiene	225	11.542	11.545	-0.003	97	83788	20.0	19.0	
179 Naphthalene	128	11.597	11.597	0.000	97	924860	20.0	19.7	
180 1,2,3-Trichlorobenzene	180	11.751	11.751	0.000	95	246017	20.0	19.0	
181 2-Methylnaphthalene	142	12.319	12.316	0.003	92	571465	20.0	19.5	
S 192 Total Diethylbenzene	1				0			59.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00114	Amount Added:	4.00	Units: uL	
MSV_CCV_CYC_00005	Amount Added:	16.00	Units: uL	
MSV_CCV_VOC#3_00115	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00110	Amount Added:	4.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	16.00	Units: uL	
MSV_CCV_GASES_00411	Amount Added:	2.00	Units: uL	
MSV_Cent_ISSS_00016	Amount Added:	5.00	Units: uL	Run Reagent

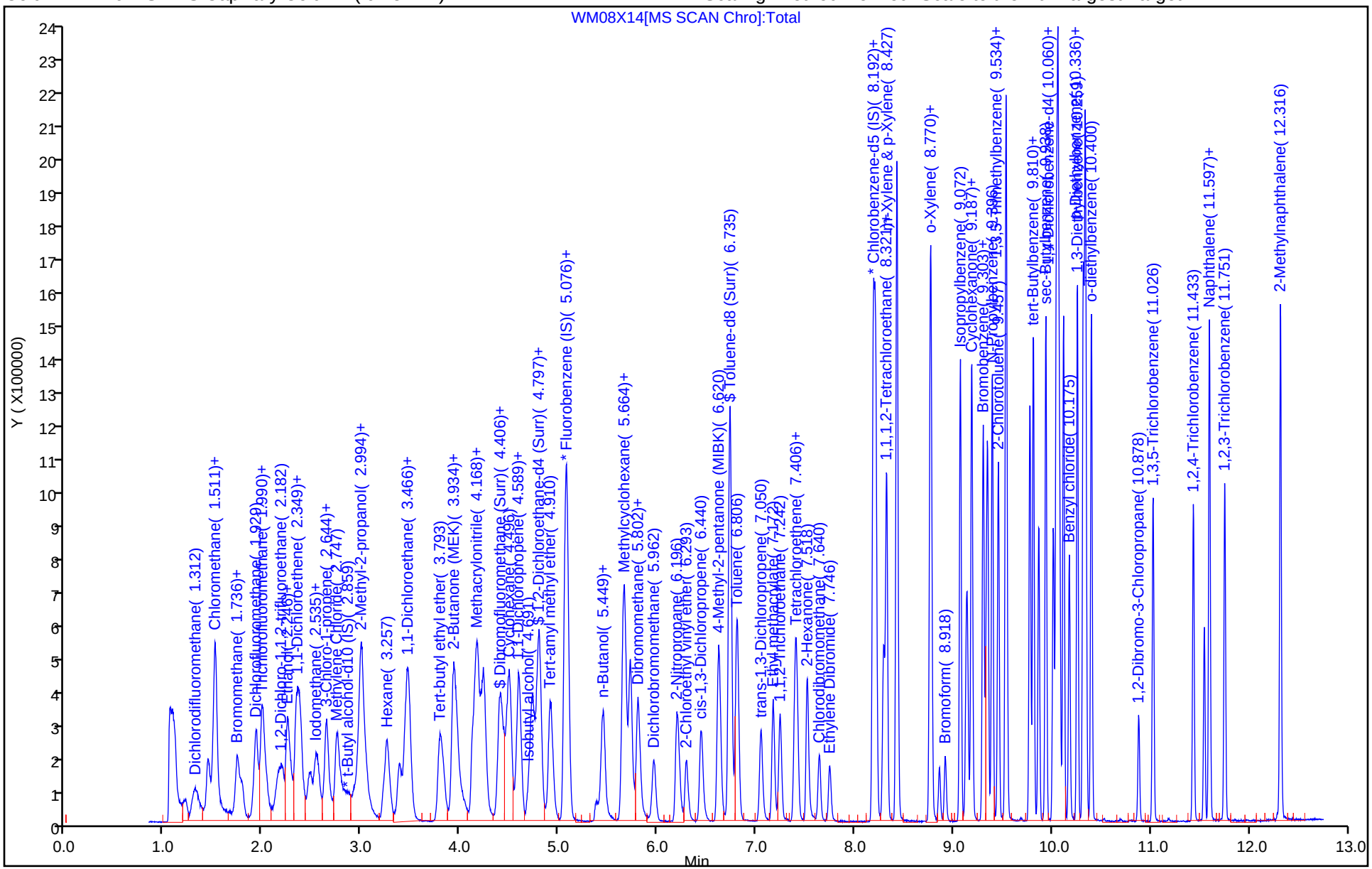
Report Date: 14-Mar-2023 13:14:08 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X14.D

Injection Date:	08-Mar-2023 20:27:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	IC v20			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

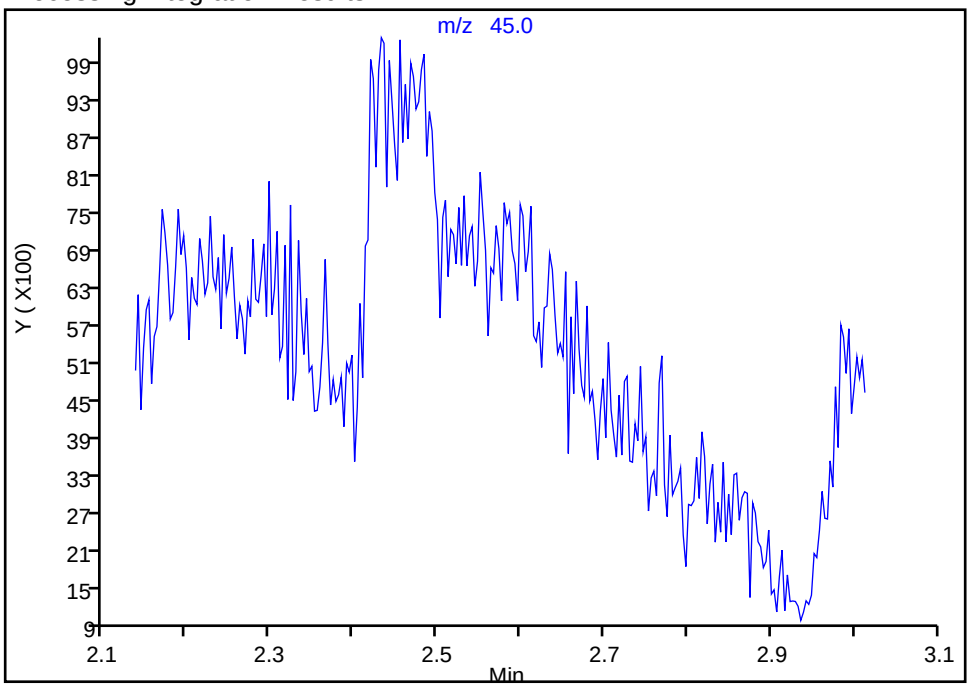
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X14.D
Injection Date: 08-Mar-2023 20:27:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

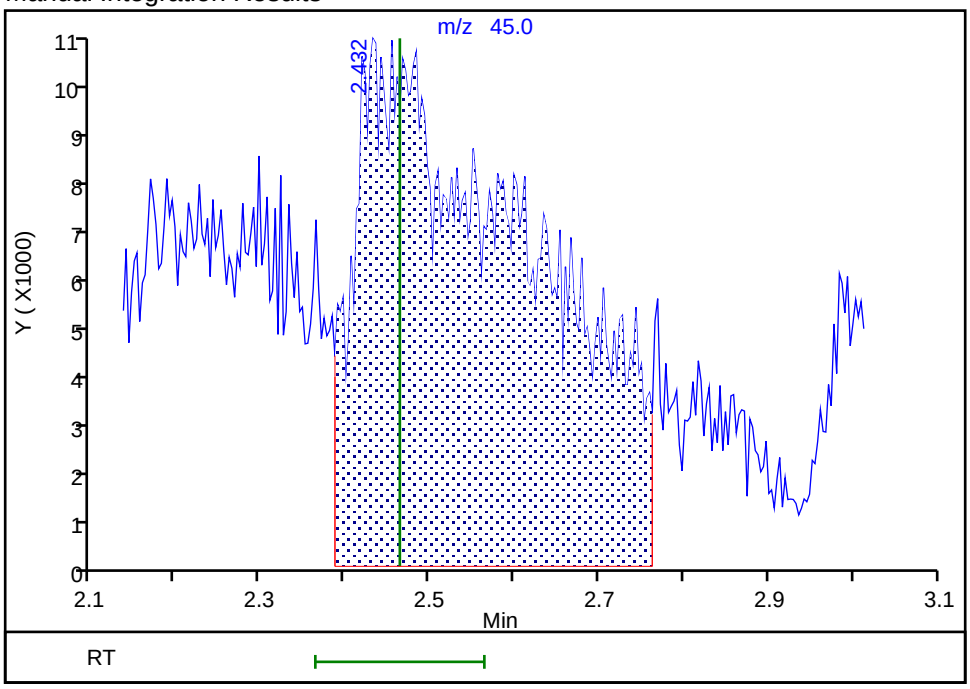
Not Detected
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 144350
Amount: 99.195958
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:20:42
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

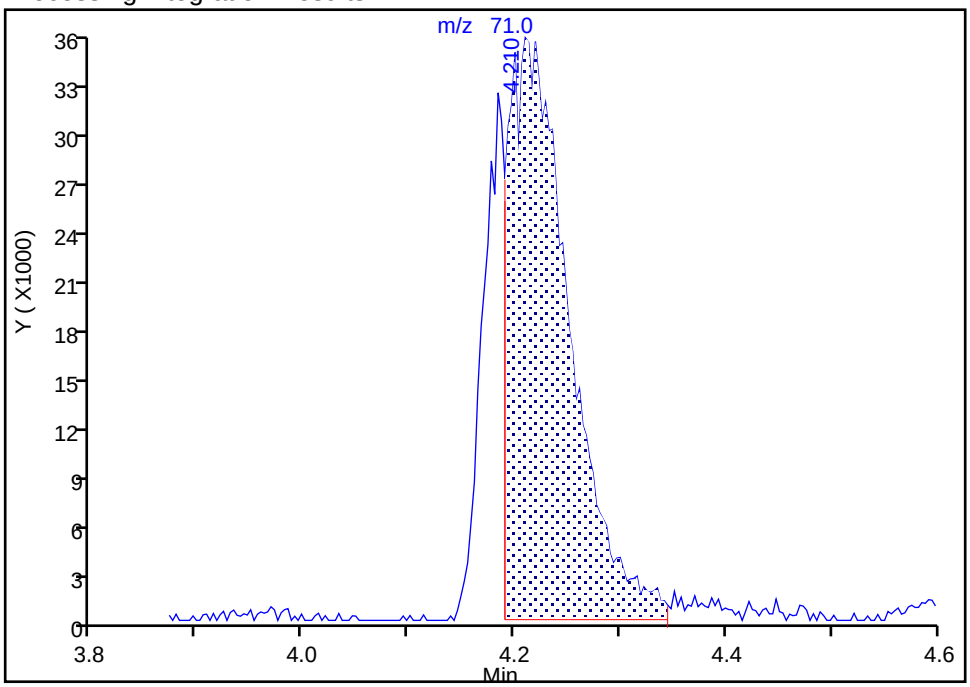
Data File:	\\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X14.D				
Injection Date:	08-Mar-2023 20:27:30	Instrument ID:	9137		
Lims ID:	IC v20				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

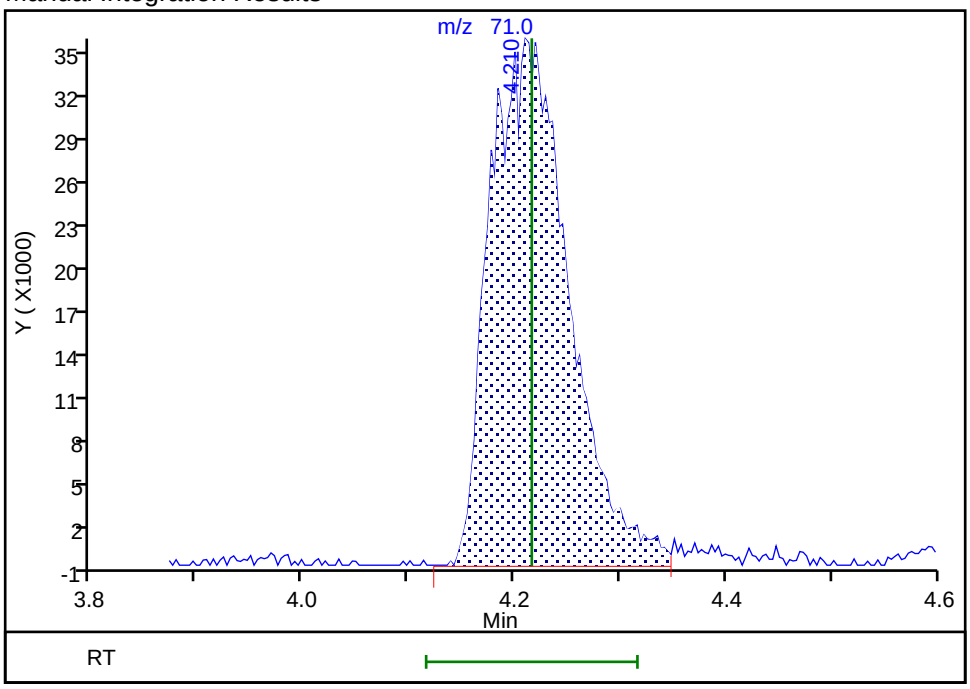
Processing Integration Results

RT: 4.21
Area: 142767
Amount: 74.589832
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 184163
Amount: 86.664220
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:21:23
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

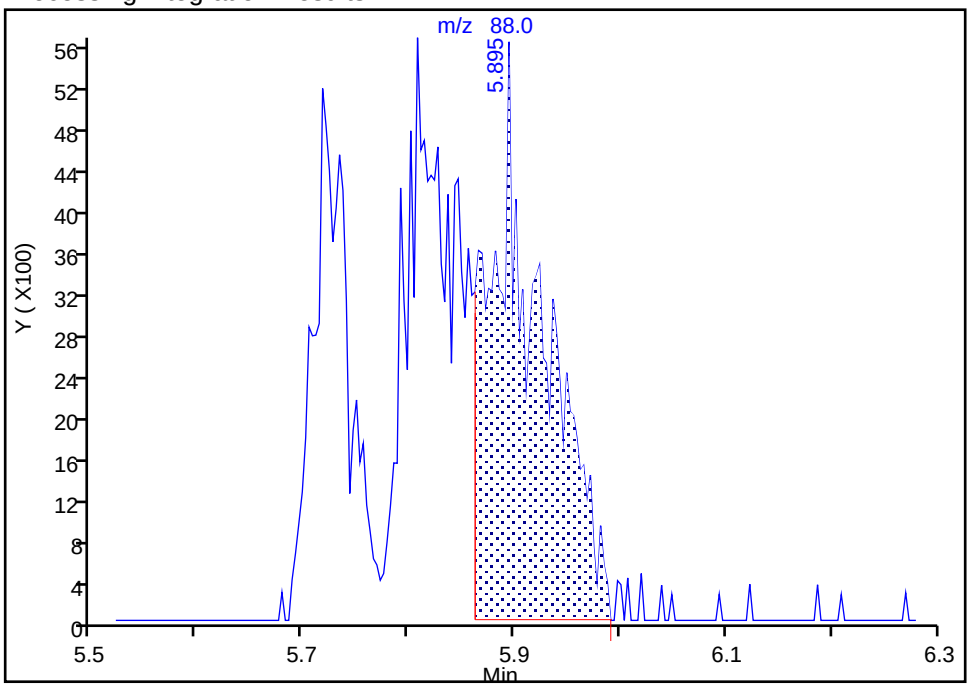
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X14.D
Injection Date: 08-Mar-2023 20:27:30 Instrument ID: 9137
Lims ID: IC v20
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

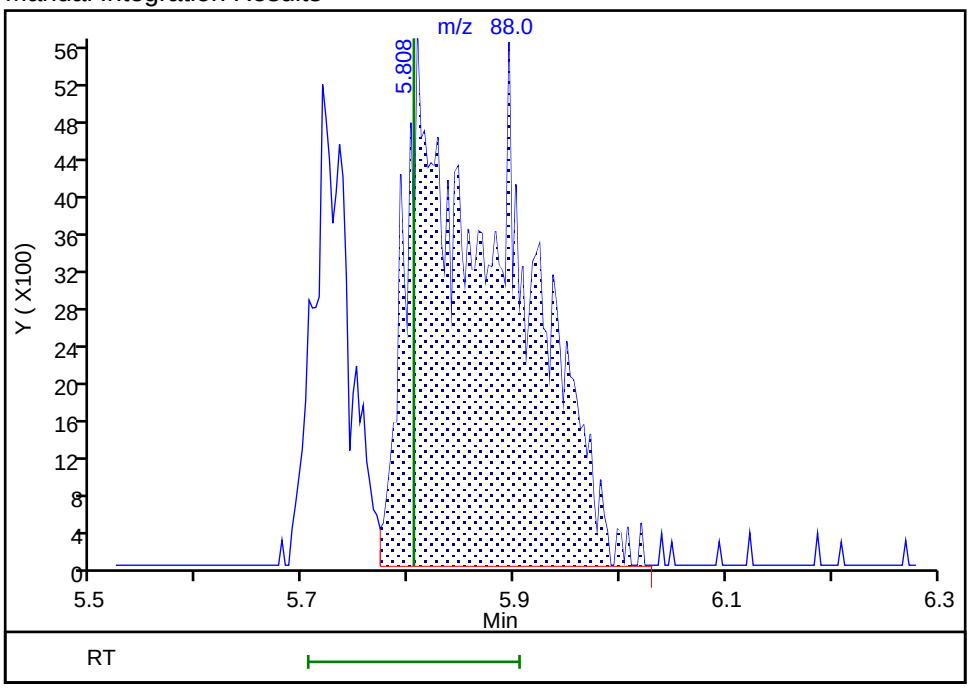
Processing Integration Results

RT: 5.89
Area: 19263
Amount: 155.5681
Amount Units: ug/l



Manual Integration Results

RT: 5.81
Area: 37112
Amount: 246.2098
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:21:46
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X15.D
Lims ID: IC v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Mar-2023 20:47:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-015
Misc. Info.: IC V10
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:14:18 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 12:24:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.299	1.309	-0.010	98	135846	10.0	10.6	
6 Chloromethane	50	1.434	1.450	-0.016	99	149644	10.0	9.96	M
7 Butadiene	39	1.505	1.518	-0.013	93	142556	10.0	10.2	
8 Vinyl chloride	62	1.505	1.521	-0.016	92	154331	10.0	10.5	
10 Bromomethane	94	1.723	1.739	-0.016	92	86810	10.0	10.3	
11 Chloroethane	64	1.781	1.787	-0.006	98	73881	10.0	9.78	
12 Dichlorofluoromethane	67	1.919	1.932	-0.013	98	179263	10.0	10.2	
13 Trichlorofluoromethane	101	1.970	1.986	-0.016	93	161939	10.0	10.4	
14 Pentane	43	1.989	1.996	-0.007	98	138198	10.0	9.16	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.169	2.185	-0.016	93	107446	10.0	10.5	
17 Ethanol	45	2.256	2.220	0.036	27	76162	500.0	524.3	
18 Acrolein	56	2.240	2.249	-0.009	99	305958	100.0	100.3	
19 1,1-Dichloroethene	96	2.336	2.345	-0.009	97	71877	10.0	9.55	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.371	2.374	-0.003	91	87388	10.0	9.42	
21 Acetone	58	2.368	2.384	-0.016	67	28469	20.0	19.9	
24 Isopropyl alcohol	45	2.439	2.464	-0.025	51	68574	50.0	50.3	M
22 Iodomethane	142	2.467	2.483	-0.016	98	131660	10.0	10.0	
23 Carbon disulfide	76	2.541	2.548	-0.007	100	252195	10.0	9.92	
26 3-Chloro-1-propene	41	2.628	2.647	-0.019	92	120981	10.0	9.41	
27 Methyl acetate	43	2.654	2.660	-0.006	22	90039	10.0	8.88	M
29 Methylene Chloride	84	2.743	2.756	-0.013	96	83288	10.0	9.46	
* 30 t-Butyl alcohol-d10 (IS)	65	2.830	2.791	0.039	38	446519	250.0	250.0	
31 2-Methyl-2-propanol	59	2.901	2.891	0.010	42	121730	50.0	49.2	M
32 Acrylonitrile	53	2.962	2.974	-0.012	96	134327	25.0	25.6	
33 trans-1,2-Dichloroethene	96	2.991	3.003	-0.012	98	72384	10.0	9.68	
34 Methyl tert-butyl ether	73	2.991	3.006	-0.015	94	256628	10.0	10.2	
35 Hexane	57	3.250	3.260	-0.010	94	117857	10.0	9.55	
36 1,1-Dichloroethane	63	3.369	3.385	-0.016	96	135033	10.0	10.1	
38 Isopropyl ether	45	3.453	3.453	0.000	95	260745	10.0	10.2	
39 2-Chloro-1,3-butadiene	53	3.465	3.475	-0.010	91	126521	10.0	9.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.786	3.806	-0.020	96	252613	10.0	10.1	
41 2-Butanone (MEK)	43	3.918	3.921	-0.003	81	121550	20.0	18.5	
42 cis-1,2-Dichloroethene	96	3.928	3.937	-0.009	85	82247	10.0	10.1	
43 2,2-Dichloropropane	77	3.953	3.956	-0.003	89	127802	10.0	9.76	
45 Propionitrile	54	3.998	3.998	0.000	96	116385	50.0	50.0	
47 Methacrylonitrile	67	4.133	4.155	-0.022	91	116595	25.0	24.6	
48 Chlorobromomethane	128	4.159	4.165	-0.006	97	39685	10.0	10.4	
49 Tetrahydrofuran	71	4.207	4.216	-0.009	86	97902	50.0	49.1	
50 Chloroform	83	4.239	4.239	0.000	94	126367	10.0	10.3	
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	94	269663	50.0	50.3	
53 1,1,1-Trichloroethane	97	4.431	4.438	-0.007	98	120768	10.0	9.70	
54 Cyclohexane	56	4.499	4.495	0.004	92	162124	10.0	9.21	
55 1,1-Dichloropropene	75	4.585	4.592	-0.007	96	103087	10.0	9.76	
56 Carbon tetrachloride	117	4.598	4.595	0.003	87	96168	10.0	9.57	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.730	0.003	97	67049	50.0	49.9	
58 Isobutyl alcohol	41	4.711	4.733	-0.022	43	82065	125.0	121.3	
59 Benzene	78	4.794	4.800	-0.006	95	303454	10.0	10.1	
60 1,2-Dichloroethane	62	4.807	4.807	0.000	94	96149	10.0	9.79	
62 Tert-amyl methyl ether	73	4.913	4.913	0.000	99	239997	10.0	10.1	
* 63 Fluorobenzene (IS)	96	5.073	5.073	0.000	98	1093187	50.0	50.0	
64 n-Heptane	43	5.073	5.083	-0.010	49	105460	10.0	8.86	
65 n-Butanol	56	5.384	5.378	0.006	24	60123	125.0	119.6	M
66 Trichloroethene	95	5.445	5.452	-0.007	99	73942	10.0	9.80	
68 Methylcyclohexane	83	5.651	5.660	-0.009	92	151880	10.0	9.27	
69 1,2-Dichloropropane	63	5.680	5.676	0.004	90	77299	10.0	9.85	
70 2-ethoxy-2-methyl butane	87	5.721	5.724	-0.003	93	108605	10.0	9.92	
71 Dibromomethane	93	5.795	5.795	0.000	95	46139	10.0	9.95	
72 1,4-Dioxane	88	5.811	5.805	0.006	30	18164	125.0	128.5	
73 Methyl methacrylate	69	5.811	5.808	0.003	94	67184	10.0	9.68	
75 Dichlorobromomethane	83	5.962	5.965	-0.003	98	85582	10.0	9.93	
S 76 1,2-Dichloroethene, Total	100				0			19.8	
77 2-Nitropropane	41	6.199	6.203	-0.004	99	157882	50.0	47.3	
78 2-Chloroethyl vinyl ether	63	6.286	6.296	-0.010	90	51163	10.0	9.63	
80 cis-1,3-Dichloropropene	75	6.443	6.443	0.000	95	108033	10.0	9.71	
81 4-Methyl-2-pentanone (MIBK)	43	6.623	6.623	0.000	98	277057	20.0	20.2	
$ 82 Toluene-d8 (Surr)	98	6.735	6.732	0.003	93	1062404	50.0	50.7	
83 Toluene	92	6.809	6.809	0.000	97	174038	10.0	9.78	
84 trans-1,3-Dichloropropene	75	7.050	7.050	0.000	94	96203	10.0	9.82	
86 Ethyl methacrylate	69	7.175	7.175	0.000	91	112220	10.0	9.93	
87 1,1,2-Trichloroethane	97	7.239	7.242	-0.003	91	62953	10.0	10.2	
89 Tetrachloroethene	166	7.396	7.396	0.000	97	72641	10.0	9.79	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	93	101987	10.0	9.84	
93 2-Hexanone	43	7.518	7.515	0.003	97	172092	20.0	19.9	
94 Chlorodibromomethane	129	7.640	7.643	-0.003	91	54438	10.0	9.47	
96 Ethylene Dibromide	107	7.746	7.746	0.000	99	60947	10.0	9.79	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	774748	50.0	50.0	
98 1-Chlorohexane	91	8.211	8.211	0.000	75	96061	10.0	9.43	
99 Chlorobenzene	112	8.215	8.215	0.000	93	177502	10.0	9.85	
100 1,1,1,2-Tetrachloroethane	131	8.288	8.295	-0.007	95	68441	10.0	10.0	
101 Ethylbenzene	91	8.324	8.320	0.004	98	345825	10.0	10.0	
102 m-Xylene & p-Xylene	106	8.426	8.426	0.000	98	259931	20.0	20.0	
104 o-Xylene	106	8.767	8.763	0.004	97	136276	10.0	9.91	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Styrene	104	8.776	8.776	0.000	94	199486	10.0	9.84	
106 Bromoform	173	8.914	8.917	-0.003	97	36510	10.0	8.46	
107 Isopropylbenzene	105	9.071	9.071	0.000	96	368640	10.0	9.93	
109 Cyclohexanone	55	9.139	9.136	0.003	94	146968	250.0	249.5	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.187	0.000	88	389632	50.0	50.4	
111 Bromobenzene	156	9.302	9.302	0.000	95	76003	10.0	9.80	
112 1,1,2,2-Tetrachloroethane	83	9.302	9.306	-0.004	94	118473	10.0	9.70	
113 1,2,3-Trichloropropane	110	9.335	9.334	0.001	85	34669	10.0	10.1	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	93	77934	25.0	24.0	
115 N-Propylbenzene	91	9.396	9.395	0.001	99	414360	10.0	9.80	
116 2-Chlorotoluene	126	9.453	9.456	-0.003	96	80649	10.0	9.67	
117 1,3,5-Trimethylbenzene	105	9.530	9.533	-0.003	94	304260	10.0	9.68	
118 4-Chlorotoluene	126	9.543	9.540	0.003	99	76471	10.0	9.79	
120 tert-Butylbenzene	134	9.777	9.777	0.000	93	54138	10.0	8.88	
122 1,2,4-Trimethylbenzene	105	9.813	9.809	0.004	97	312470	10.0	9.71	
123 sec-Butylbenzene	105	9.938	9.938	0.000	94	377037	10.0	9.58	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	98	149216	10.0	9.78	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	321856	10.0	9.60	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	434826	50.0	50.0	
S 164 1,3-Dichloropropene, Total	100				0			19.5	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	96	147672	10.0	9.98	
166 1,2,3-Trimethylbenzene	105	10.118	10.117	0.001	99	325399	10.0	9.63	
167 Benzyl chloride	91	10.175	10.175	0.000	99	220848	10.0	9.86	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	94	195385	10.0	9.57	
169 p-Diethylbenzene	119	10.316	10.316	0.000	95	196807	10.0	9.58	
170 n-Butylbenzene	92	10.333	10.336	-0.003	98	159277	10.0	9.61	
171 1,2-Dichlorobenzene	146	10.345	10.342	0.003	97	156677	10.0	9.80	
172 o-diethylbenzene	119	10.400	10.400	0.000	94	161431	10.0	9.70	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	84	30038	10.0	9.49	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	98	119601	10.0	9.80	
S 175 Xylenes, Total	106				0			29.9	
176 1,2,4-Trichlorobenzene	180	11.433	11.433	0.000	94	113761	10.0	9.70	
178 Hexachlorobutadiene	225	11.542	11.545	-0.003	97	38470	10.0	9.12	
179 Naphthalene	128	11.597	11.597	0.000	97	468332	10.0	10.5	
180 1,2,3-Trichlorobenzene	180	11.754	11.751	0.003	96	118019	10.0	9.57	
181 2-Methylnaphthalene	142	12.316	12.316	0.000	92	269872	10.0	9.66	
S 192 Total Diethylbenzene	1				0			28.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00114	Amount Added:	2.00	Units: uL	
MSV_CCV_CYC_00005	Amount Added:	8.00	Units: uL	
MSV_CCV_VOC#3_00115	Amount Added:	1.60	Units: uL	
MSV_CCV_2CEVE_00110	Amount Added:	2.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	8.00	Units: uL	
MSV_CCV_GASES_00411	Amount Added:	1.00	Units: uL	
MSV_Cent_ISSS_00016	Amount Added:	5.00	Units: uL	Run Reagent

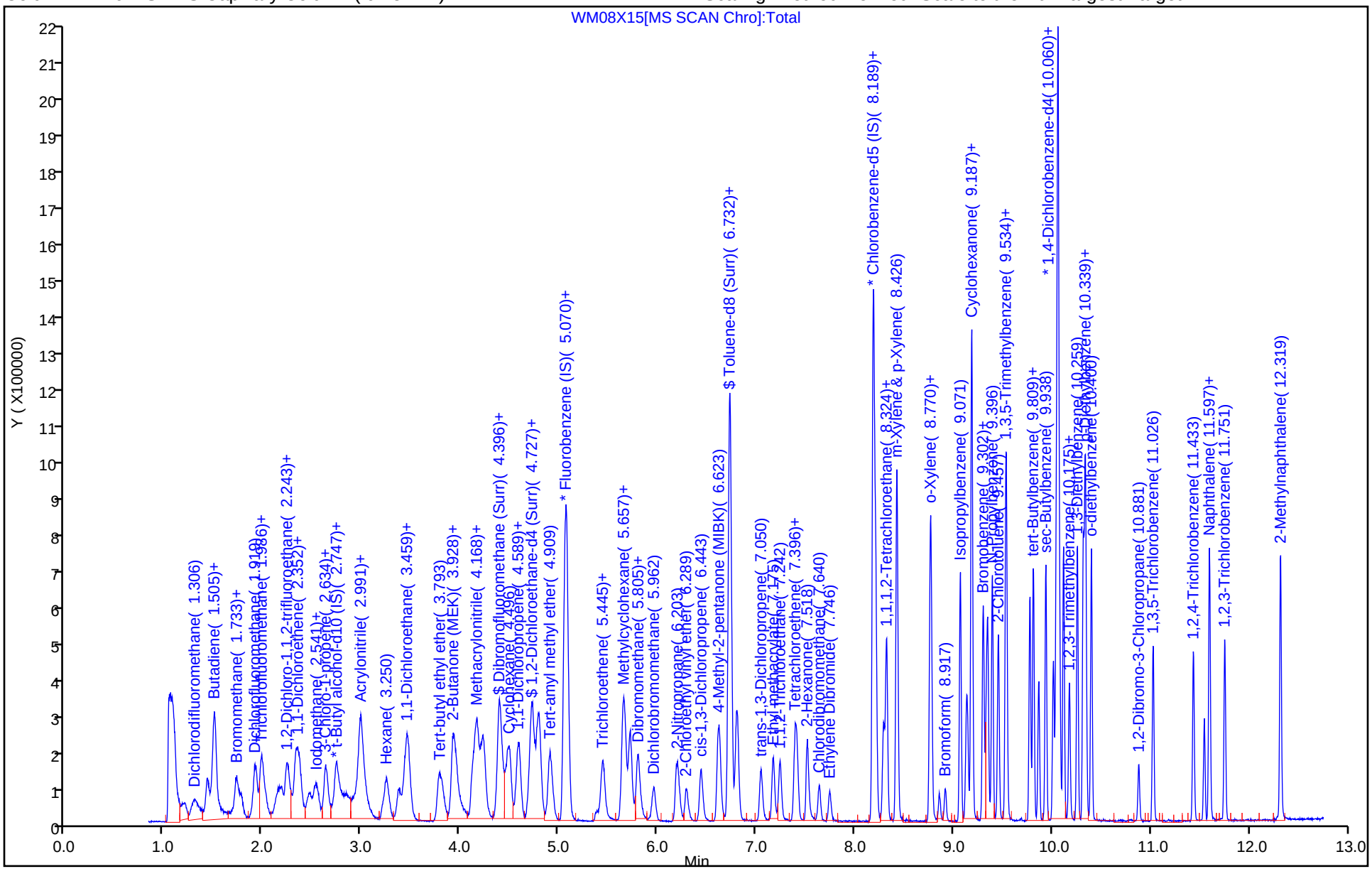
Report Date: 14-Mar-2023 13:14:19 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X15.D

Injection Date:	08-Mar-2023 20:47:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	IC v10			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

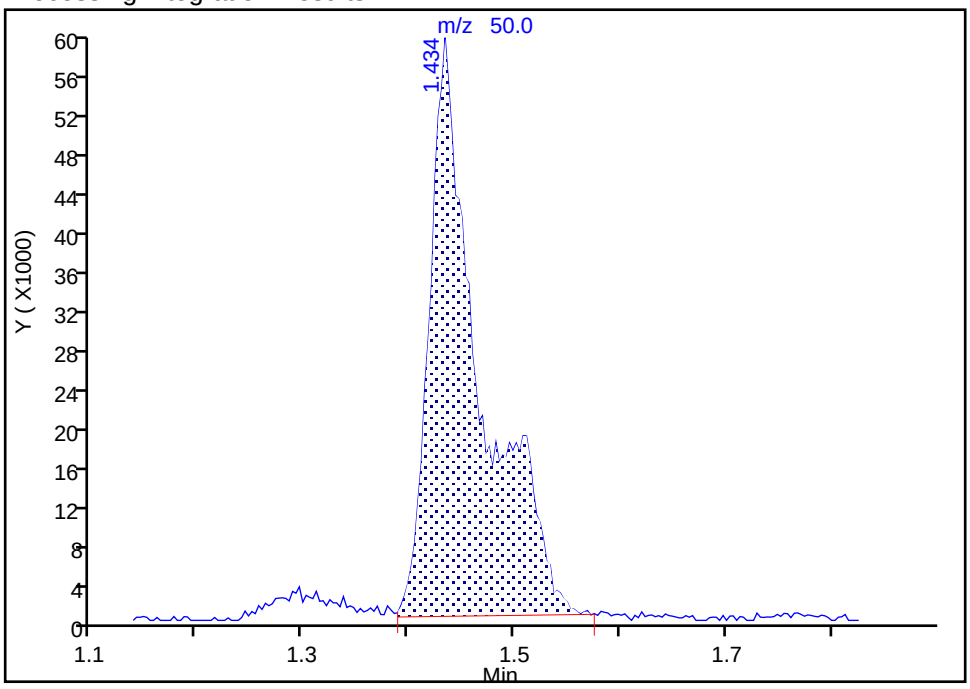
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X15.D
Injection Date: 08-Mar-2023 20:47:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Chloromethane, CAS: 74-87-3

Signal: 1

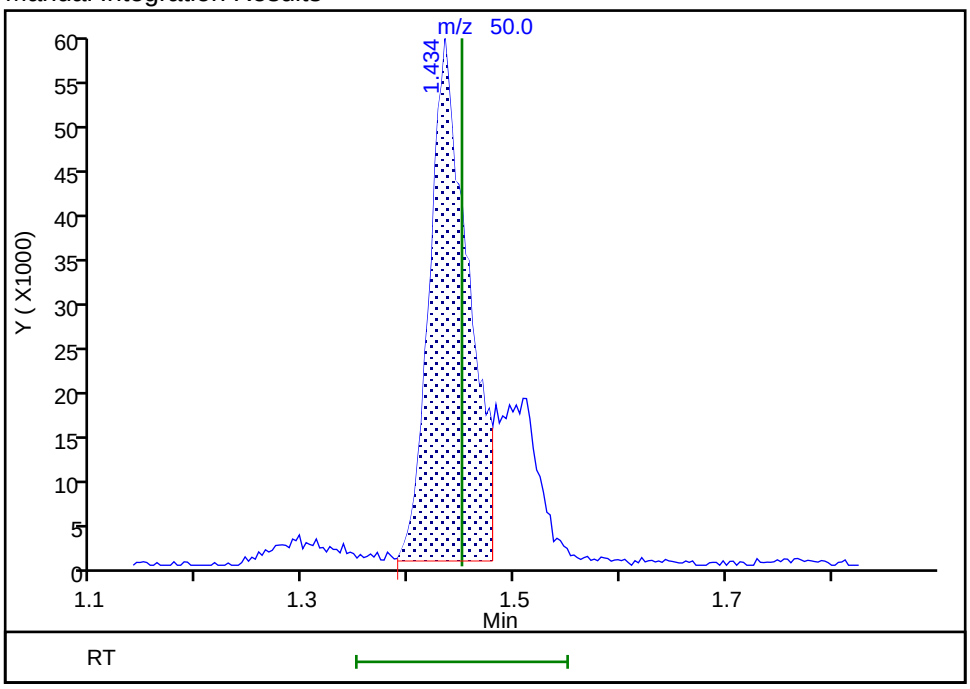
Processing Integration Results

RT: 1.43
Area: 197215
Amount: 12.556136
Amount Units: ug/l



Manual Integration Results

RT: 1.43
Area: 149644
Amount: 9.958290
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:42:42
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

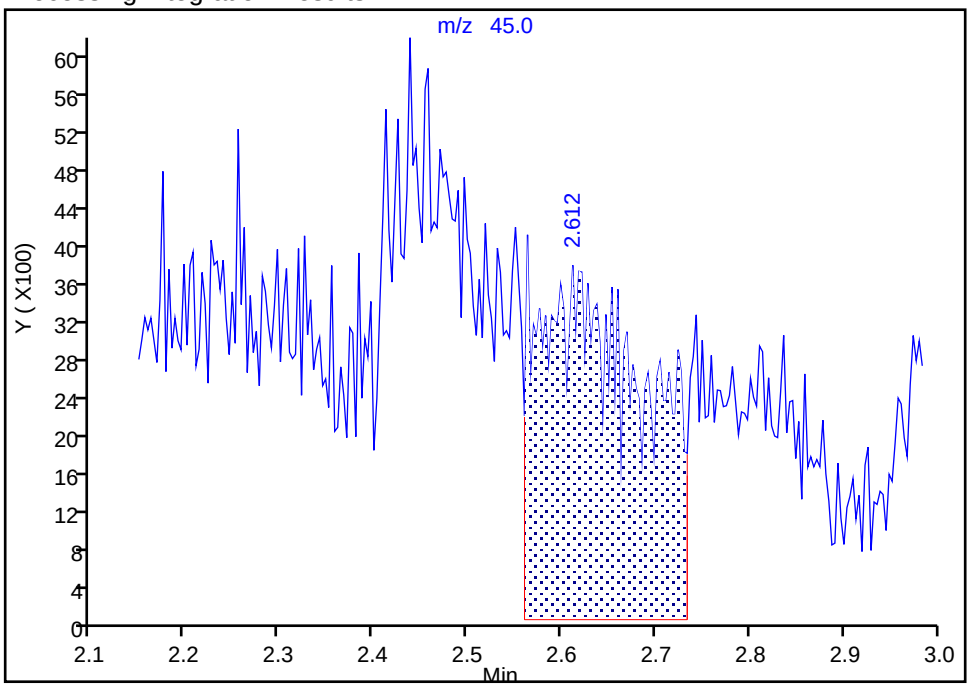
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X15.D
Injection Date: 08-Mar-2023 20:47:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

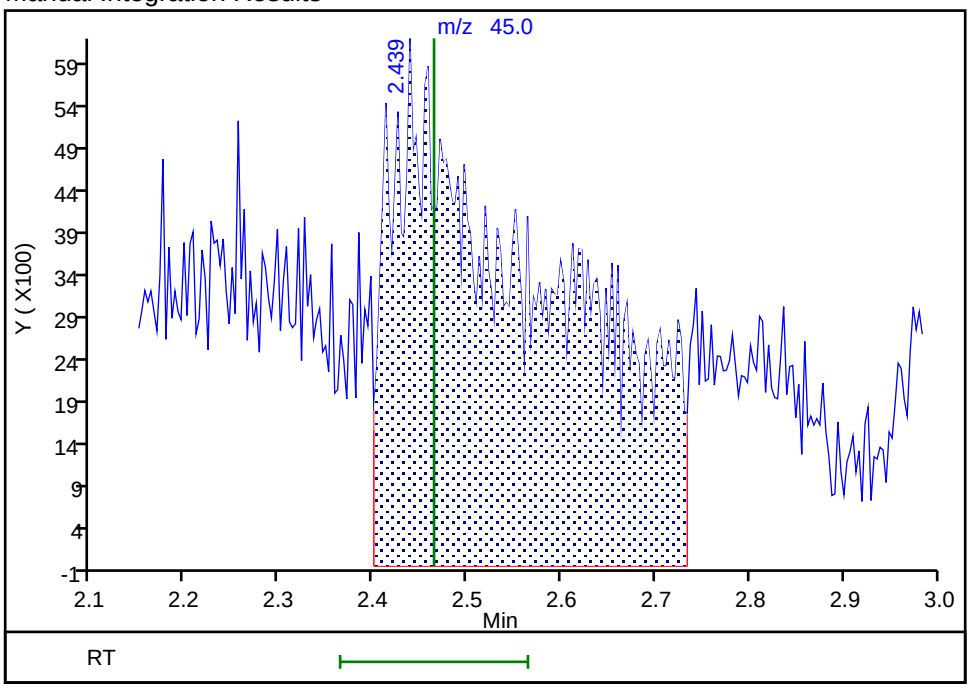
Processing Integration Results

RT: 2.61
Area: 29314
Amount: 24.118989
Amount Units: ug/l



Manual Integration Results

RT: 2.44
Area: 68574
Amount: 50.250093
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:22:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

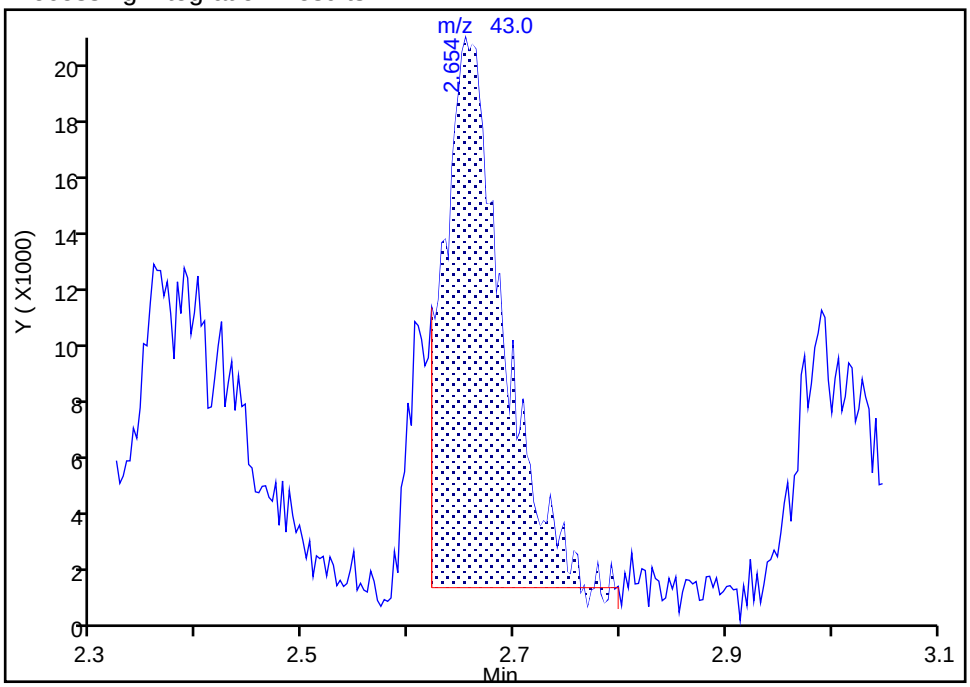
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X15.D
Injection Date: 08-Mar-2023 20:47:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

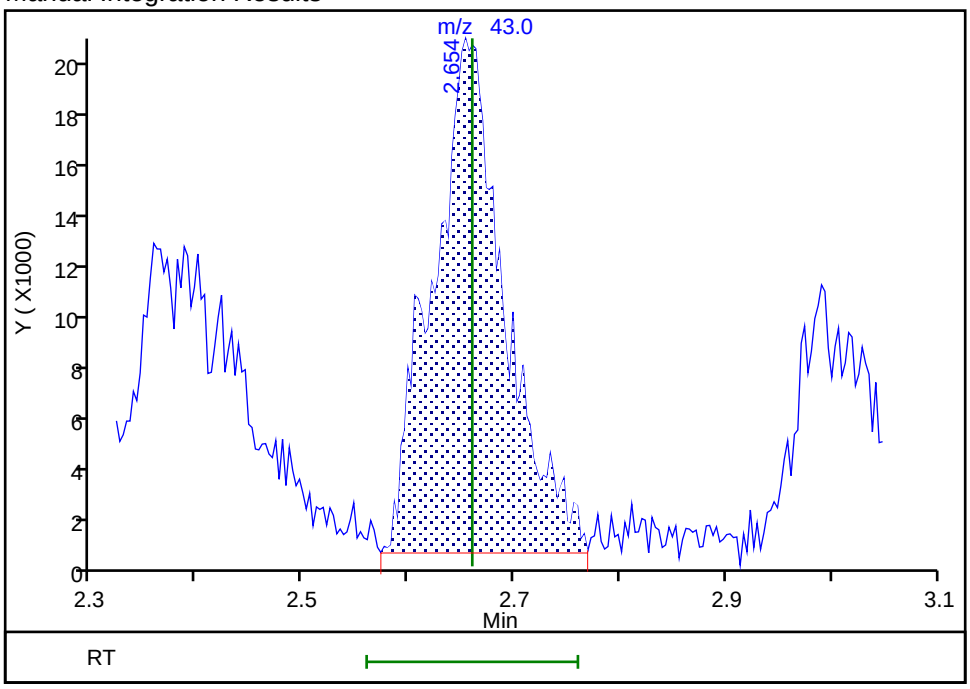
Processing Integration Results

RT: 2.65
Area: 70623
Amount: 7.260281
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 90039
Amount: 8.879868
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:23:18
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

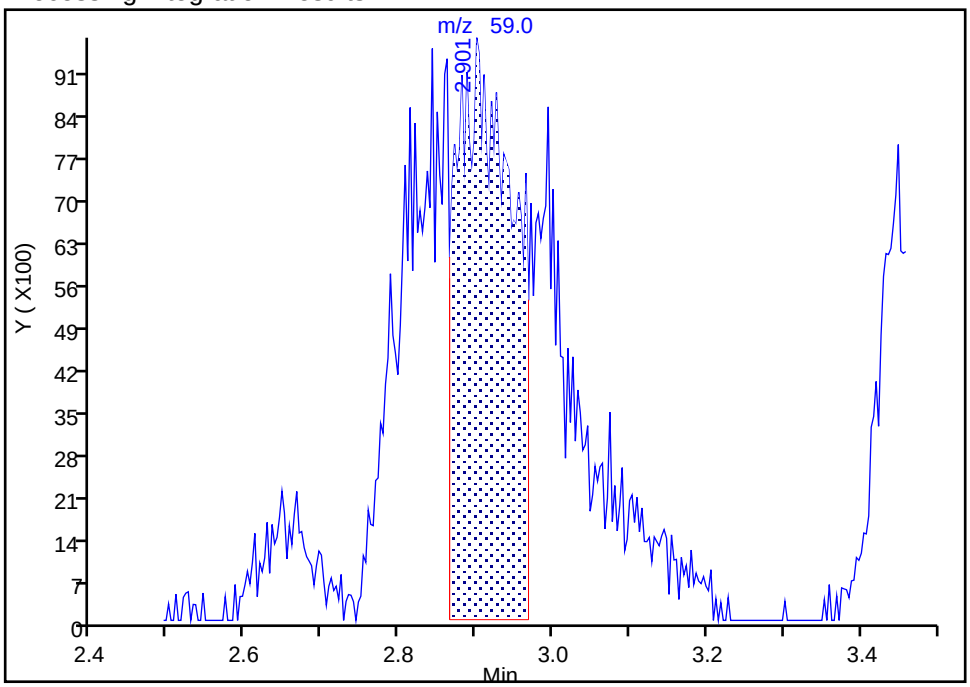
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X15.D
Injection Date: 08-Mar-2023 20:47:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

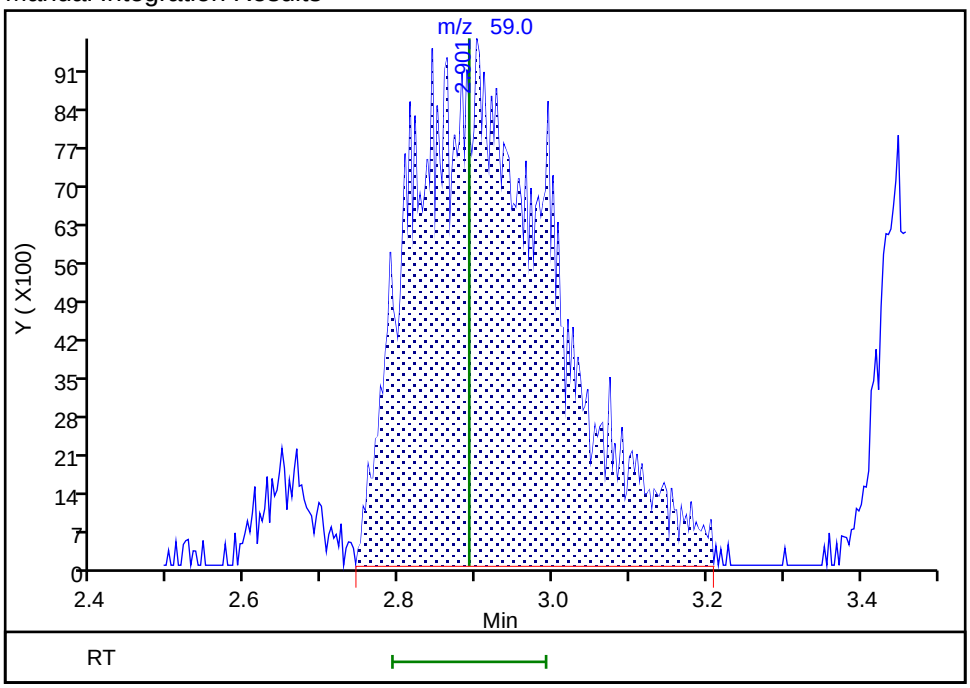
Processing Integration Results

RT: 2.90
Area: 48144
Amount: 38.076686
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 121730
Amount: 49.235441
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:23:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

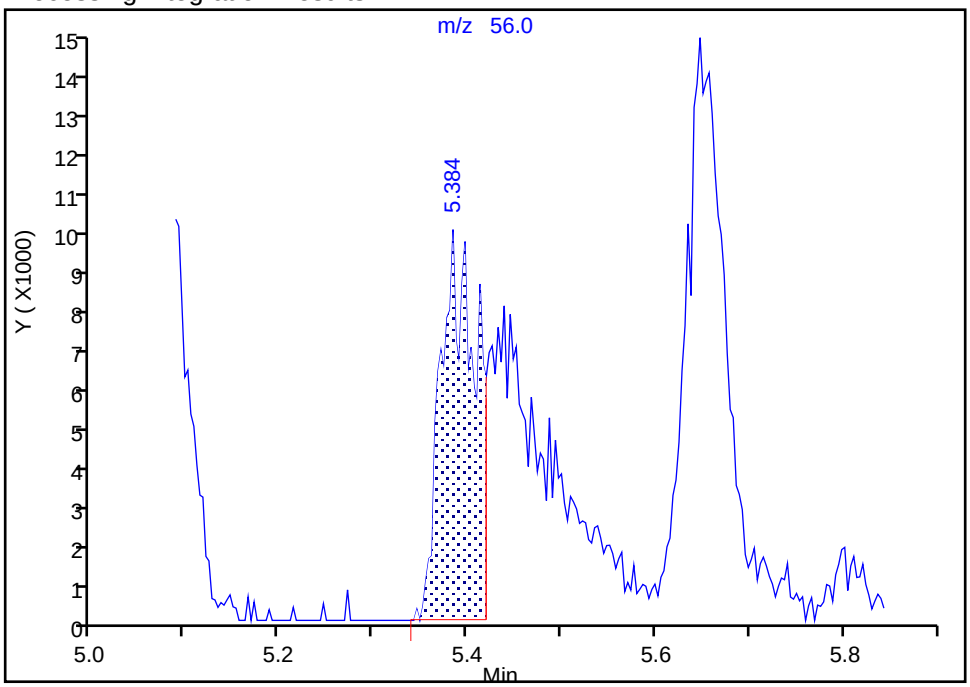
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X15.D
Injection Date: 08-Mar-2023 20:47:30 Instrument ID: 9137
Lims ID: IC v10
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 n-Butanol, CAS: 71-36-3

Signal: 1

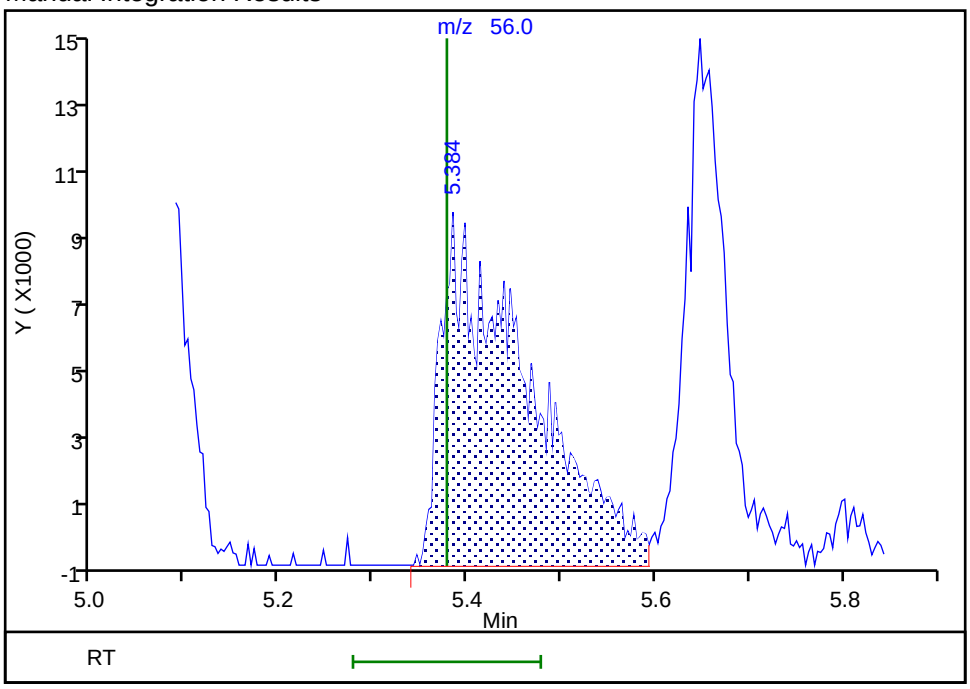
Processing Integration Results

RT: 5.38
Area: 24941
Amount: 99.414045
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 60123
Amount: 119.6278
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:24:09
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X16.D
Lims ID: IC v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Mar-2023 21:07:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-016
Misc. Info.: IC V4
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:14:26 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 12:27:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.306	1.309	-0.003	96	50108	4.00	3.93	
6 Chloromethane	50	1.441	1.450	-0.009	99	61721	4.00	4.13	
7 Butadiene	39	1.521	1.518	0.003	92	59330	4.00	4.28	
8 Vinyl chloride	62	1.524	1.521	0.003	97	62189	4.00	4.27	
10 Bromomethane	94	1.736	1.739	-0.003	91	35331	4.00	4.20	
11 Chloroethane	64	1.781	1.787	-0.006	90	32141	4.00	4.28	
12 Dichlorofluoromethane	67	1.925	1.932	-0.007	96	74280	4.00	4.25	
13 Trichlorofluoromethane	101	1.989	1.986	0.003	64	61597	4.00	4.00	
14 Pentane	43	1.999	1.996	0.003	97	65097	4.00	4.34	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.153	2.185	-0.032	66	40617	4.00	3.99	
17 Ethanol	45	2.166	2.220	-0.054	24	36002	250.0	252.6	M
18 Acrolein	56	2.252	2.249	0.003	97	115679	40.0	38.7	
19 1,1-Dichloroethene	96	2.342	2.345	-0.003	97	32740	4.00	4.37	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.374	2.374	0.000	93	40888	4.00	4.43	
21 Acetone	58	2.390	2.384	0.006	71	12976	8.00	9.25	
24 Isopropyl alcohol	45	2.455	2.464	-0.009	45	24291	20.0	18.1	M
22 Iodomethane	142	2.484	2.483	0.001	95	57792	4.00	4.42	
23 Carbon disulfide	76	2.564	2.548	0.016	99	109042	4.00	4.31	
26 3-Chloro-1-propene	41	2.650	2.647	0.003	92	53902	4.00	4.22	
27 Methyl acetate	43	2.663	2.660	0.003	67	42986	4.00	4.26	
29 Methylene Chloride	84	2.760	2.756	0.004	94	37744	4.00	4.31	
* 30 t-Butyl alcohol-d10 (IS)	65	2.833	2.791	0.042	40	438036	250.0	250.0	
31 2-Methyl-2-propanol	59	2.904	2.891	0.013	37	51300	20.0	21.2	M
32 Acrylonitrile	53	2.984	2.974	0.010	80	51097	10.0	9.81	
33 trans-1,2-Dichloroethene	96	2.997	3.003	-0.006	98	32853	4.00	4.42	
34 Methyl tert-butyl ether	73	2.991	3.006	-0.015	92	106013	4.00	4.23	
35 Hexane	57	3.257	3.260	-0.003	93	52736	4.00	4.30	
36 1,1-Dichloroethane	63	3.382	3.385	-0.003	96	57790	4.00	4.35	
38 Isopropyl ether	45	3.462	3.453	0.009	97	107762	4.00	4.23	
39 2-Chloro-1,3-butadiene	53	3.475	3.475	0.000	90	56650	4.00	4.49	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.809	3.806	0.003	98	103933	4.00	4.19	
41 2-Butanone (MEK)	43	3.931	3.921	0.010	68	48205	8.00	7.38	
42 cis-1,2-Dichloroethene	96	3.940	3.937	0.003	83	35570	4.00	4.40	
43 2,2-Dichloropropane	77	3.950	3.956	-0.006	86	55703	4.00	4.28	
45 Propionitrile	54	4.001	3.998	0.003	88	44704	20.0	19.6	
47 Methacrylonitrile	67	4.133	4.155	-0.022	89	47780	10.0	10.2	
48 Chlorobromomethane	128	4.168	4.165	0.003	96	15798	4.00	4.17	
49 Tetrahydrofuran	71	4.220	4.216	0.004	82	36847	20.0	18.8	
50 Chloroform	83	4.245	4.239	0.006	94	52487	4.00	4.29	
$ 52 Dibromofluoromethane (Surr)	113	4.402	4.399	0.003	93	269199	50.0	50.5	
53 1,1,1-Trichloroethane	97	4.431	4.438	-0.007	96	54961	4.00	4.44	
54 Cyclohexane	56	4.505	4.495	0.010	92	77699	4.00	4.44	
55 1,1-Dichloropropene	75	4.592	4.592	0.000	92	45771	4.00	4.36	
56 Carbon tetrachloride	117	4.601	4.595	0.006	83	42054	4.00	4.21	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.727	4.730	-0.003	96	66655	50.0	49.9	
58 Isobutyl alcohol	41	4.701	4.733	-0.032	45	34844	50.0	52.5	M
59 Benzene	78	4.800	4.800	0.000	96	126701	4.00	4.24	
60 1,2-Dichloroethane	62	4.813	4.807	0.006	92	41551	4.00	4.26	
62 Tert-amyl methyl ether	73	4.916	4.913	0.003	98	95869	4.00	4.07	
* 63 Fluorobenzene (IS)	96	5.076	5.073	0.003	98	1086950	50.0	50.0	
64 n-Heptane	43	5.083	5.083	0.000	39	46879	4.00	3.96	
65 n-Butanol	56	5.407	5.378	0.029	63	24660	50.0	53.6	
66 Trichloroethene	95	5.449	5.452	-0.003	95	32969	4.00	4.40	
68 Methylcyclohexane	83	5.651	5.660	-0.009	91	70167	4.00	4.31	
69 1,2-Dichloropropane	63	5.673	5.676	-0.003	70	32568	4.00	4.17	
70 2-ethoxy-2-methyl butane	87	5.731	5.724	0.007	91	45936	4.00	4.22	
71 Dibromomethane	93	5.798	5.795	0.003	97	18926	4.00	4.10	
72 1,4-Dioxane	88	5.859	5.805	0.054	32	7907	50.0	57.0	M
73 Methyl methacrylate	69	5.805	5.808	-0.003	97	27306	4.00	3.96	
75 Dichlorobromomethane	83	5.959	5.965	-0.006	99	33344	4.00	3.89	
S 76 1,2-Dichloroethene, Total	100				0			8.82	
77 2-Nitropropane	41	6.209	6.203	0.006	99	61795	20.0	18.9	
78 2-Chloroethyl vinyl ether	63	6.302	6.296	0.006	91	19520	4.00	3.69	
80 cis-1,3-Dichloropropene	75	6.447	6.443	0.004	95	44657	4.00	4.04	
81 4-Methyl-2-pentanone (MIBK)	43	6.623	6.623	0.000	97	101024	8.00	7.43	
$ 82 Toluene-d8 (Surr)	98	6.732	6.732	0.000	96	1033668	50.0	50.2	
83 Toluene	92	6.806	6.809	-0.003	99	75720	4.00	4.33	
84 trans-1,3-Dichloropropene	75	7.050	7.050	0.000	93	39118	4.00	4.06	
86 Ethyl methacrylate	69	7.181	7.175	0.006	89	45027	4.00	4.05	
87 1,1,2-Trichloroethane	97	7.246	7.242	0.004	91	24242	4.00	3.97	
89 Tetrachloroethene	166	7.400	7.396	0.004	98	32099	4.00	4.40	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	92	40485	4.00	3.97	
93 2-Hexanone	43	7.525	7.515	0.010	97	68371	8.00	8.02	
94 Chlorodibromomethane	129	7.643	7.643	0.000	88	21282	4.00	3.76	
96 Ethylene Dibromide	107	7.749	7.746	0.003	100	24281	4.00	3.97	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	762128	50.0	50.0	
98 1-Chlorohexane	91	8.211	8.211	0.000	84	42085	4.00	4.20	
99 Chlorobenzene	112	8.211	8.215	-0.004	92	75057	4.00	4.24	
100 1,1,1,2-Tetrachloroethane	131	8.292	8.295	-0.003	94	26827	4.00	3.98	
101 Ethylbenzene	91	8.324	8.320	0.004	98	147708	4.00	4.36	
102 m-Xylene & p-Xylene	106	8.430	8.426	0.004	99	110795	8.00	8.68	
104 o-Xylene	106	8.763	8.763	0.000	97	57206	4.00	4.23	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Styrene	104	8.776	8.776	0.000	95	83688	4.00	4.20	
106 Bromoform	173	8.917	8.917	0.000	97	13204	4.00	3.66	
107 Isopropylbenzene	105	9.071	9.071	0.000	95	160975	4.00	4.41	
109 Cyclohexanone	55	9.136	9.136	0.000	93	112383	200.0	194.5	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.187	0.000	88	387117	50.0	50.9	
111 Bromobenzene	156	9.299	9.302	-0.003	93	31799	4.00	4.17	
112 1,1,2,2-Tetrachloroethane	83	9.302	9.306	-0.004	92	48936	4.00	4.07	
113 1,2,3-Trichloropropane	110	9.335	9.334	0.001	86	13775	4.00	4.10	
114 trans-1,4-Dichloro-2-butene	53	9.351	9.347	0.004	93	31710	10.0	9.92	
115 N-Propylbenzene	91	9.396	9.395	0.001	99	177265	4.00	4.27	
116 2-Chlorotoluene	126	9.457	9.456	0.000	96	35433	4.00	4.32	
117 1,3,5-Trimethylbenzene	105	9.534	9.533	0.001	95	128679	4.00	4.17	
118 4-Chlorotoluene	126	9.543	9.540	0.003	98	30784	4.00	4.01	
120 tert-Butylbenzene	134	9.781	9.777	0.004	93	25946	4.00	4.33	
122 1,2,4-Trimethylbenzene	105	9.813	9.809	0.004	97	132707	4.00	4.19	
123 sec-Butylbenzene	105	9.941	9.938	0.003	94	162148	4.00	4.19	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	97	59866	4.00	3.99	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	137199	4.00	4.16	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.060	0.003	96	427570	50.0	50.0	
S 164 1,3-Dichloropropene, Total	100				0			8.10	
165 1,4-Dichlorobenzene	146	10.076	10.079	-0.003	96	61512	4.00	4.23	
166 1,2,3-Trimethylbenzene	105	10.118	10.117	0.001	99	139032	4.00	4.18	
167 Benzyl chloride	91	10.175	10.175	0.000	99	87116	4.00	3.96	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	97	81826	4.00	4.07	
169 p-Diethylbenzene	119	10.316	10.316	0.000	95	83632	4.00	4.14	
170 n-Butylbenzene	92	10.336	10.336	0.000	98	67680	4.00	4.15	
171 1,2-Dichlorobenzene	146	10.345	10.342	0.003	97	65188	4.00	4.14	
172 o-diethylbenzene	119	10.400	10.400	0.000	95	65763	4.00	4.02	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	76	12922	4.00	4.15	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	48714	4.00	4.06	
S 175 Xylenes, Total	106				0			12.9	
176 1,2,4-Trichlorobenzene	180	11.436	11.433	0.003	93	46311	4.00	4.02	
178 Hexachlorobutadiene	225	11.542	11.545	-0.003	96	16563	4.00	3.99	
179 Naphthalene	128	11.600	11.597	0.003	97	187716	4.00	4.26	
180 1,2,3-Trichlorobenzene	180	11.754	11.751	0.003	96	50650	4.00	4.18	
181 2-Methylnaphthalene	142	12.319	12.316	0.003	92	108027	4.00	3.93	
S 192 Total Diethylbenzene	1				0			12.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00114	Amount Added:	4.00	Units: uL	
MSV_CCV_CYC_00005	Amount Added:	32.00	Units: uL	
MSV_CCV_VOC#3_00115	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00110	Amount Added:	4.00	Units: uL	
MSV_CCV_ETOH_00003	Amount Added:	20.00	Units: uL	
MSV_CCV_GASES_00411	Amount Added:	2.00	Units: uL	
MSV_Cent_ISSS_00016	Amount Added:	5.00	Units: uL	Run Reagent

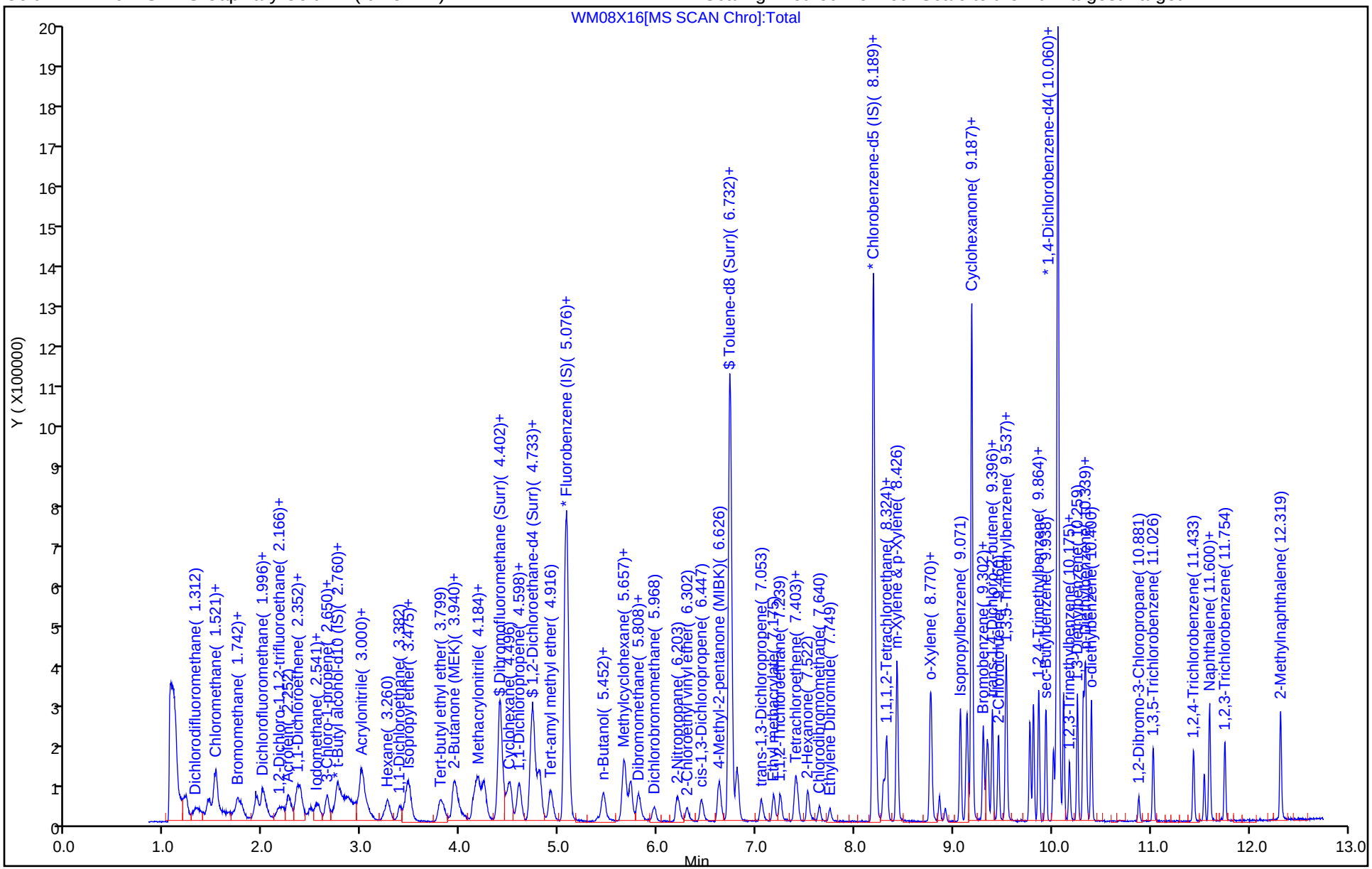
Report Date: 14-Mar-2023 13:14:27 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X16.D

Injection Date:	08-Mar-2023 21:07:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	IC v4			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

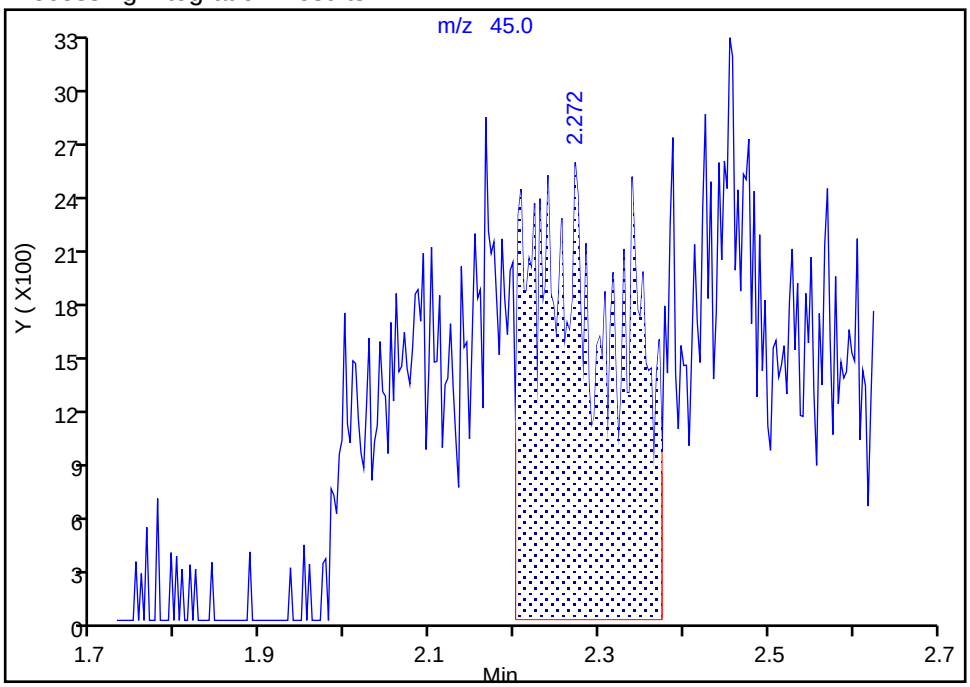
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X16.D
Injection Date: 08-Mar-2023 21:07:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

17 Ethanol, CAS: 64-17-5

Signal: 1

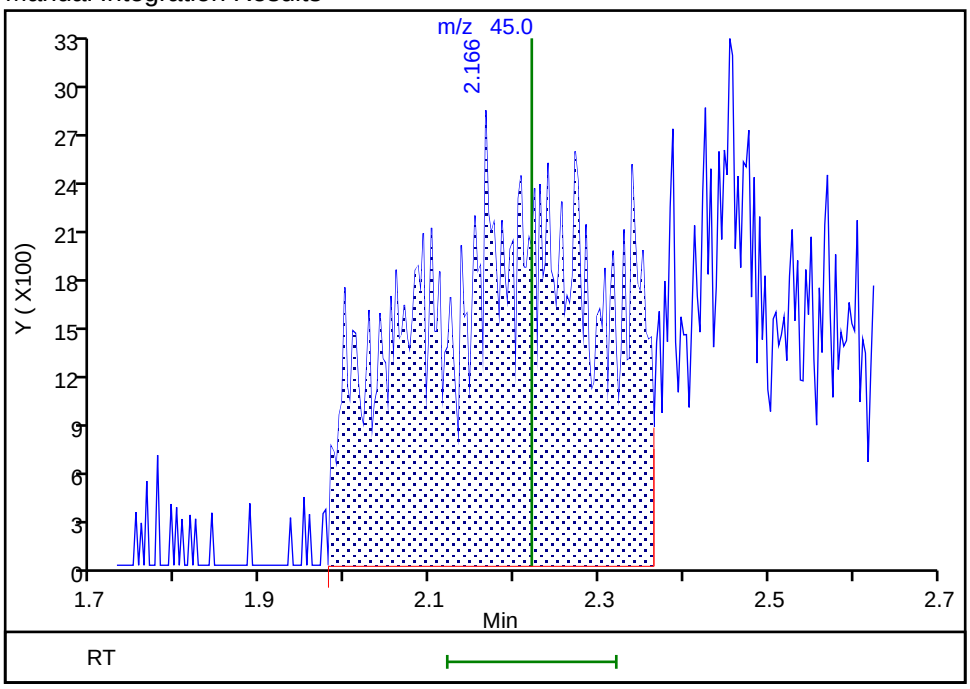
Processing Integration Results

RT: 2.27
Area: 17807
Amount: 227.0286
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 36002
Amount: 252.6188
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:25:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

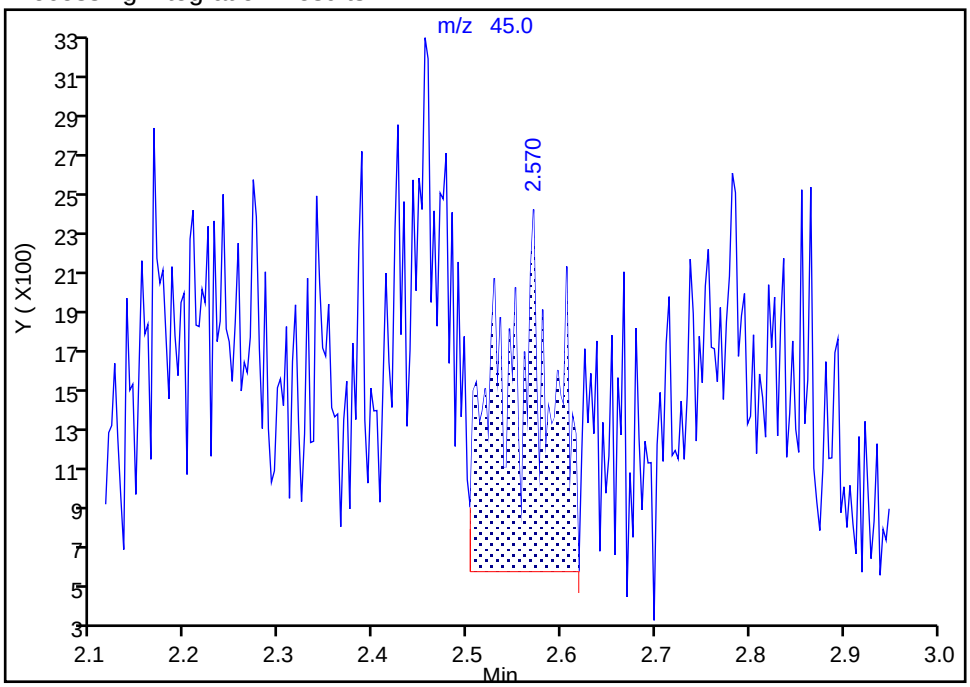
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X16.D
Injection Date: 08-Mar-2023 21:07:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

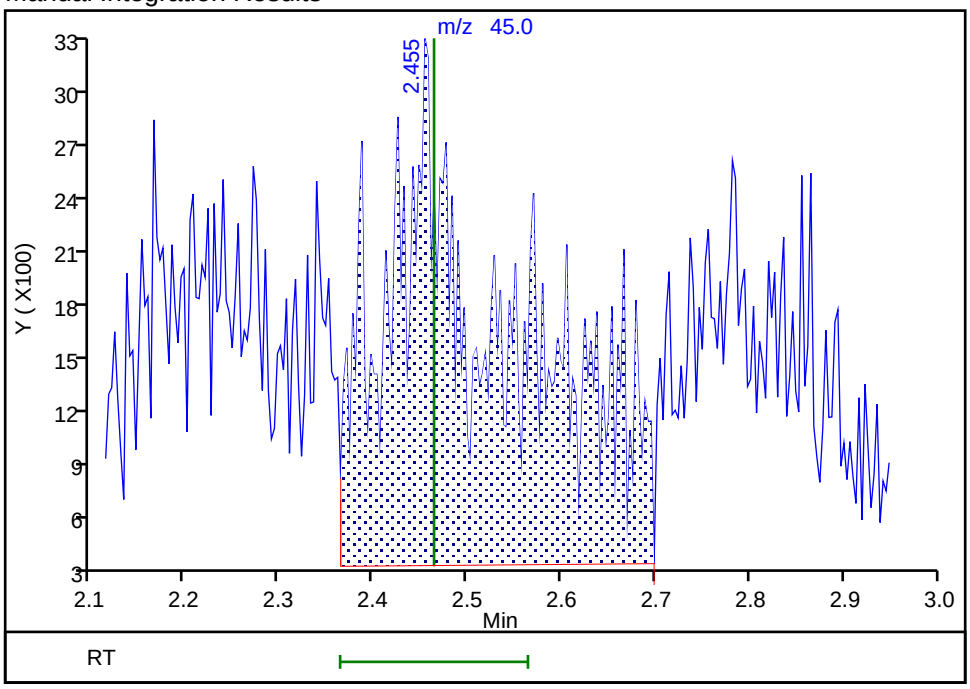
Processing Integration Results

RT: 2.57
Area: 6043
Amount: 12.645618
Amount Units: ug/l



Manual Integration Results

RT: 2.45
Area: 24291
Amount: 18.144831
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:26:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

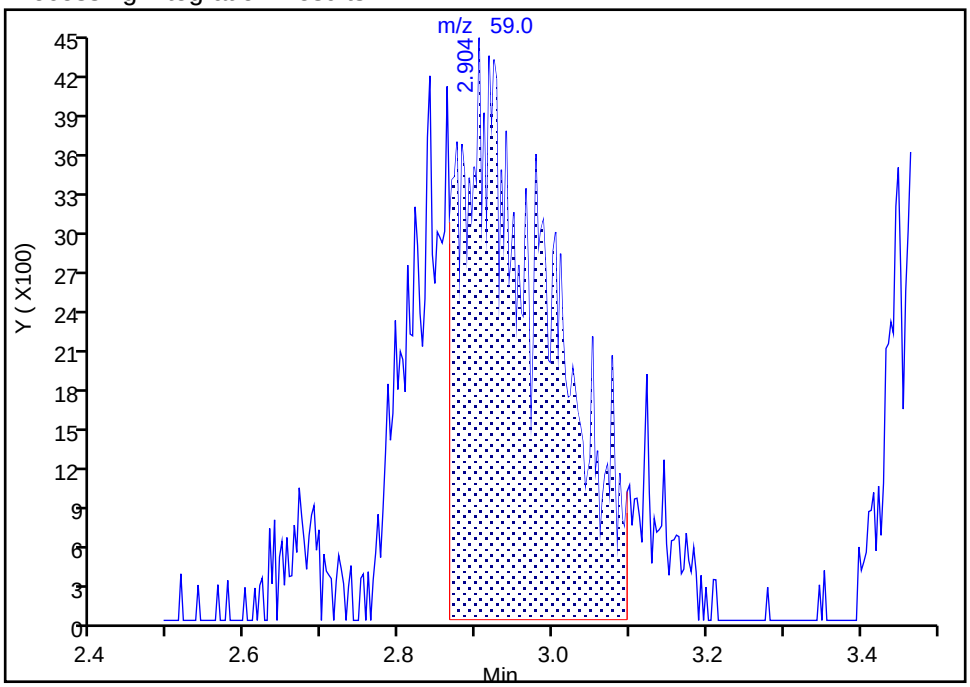
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X16.D
Injection Date: 08-Mar-2023 21:07:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

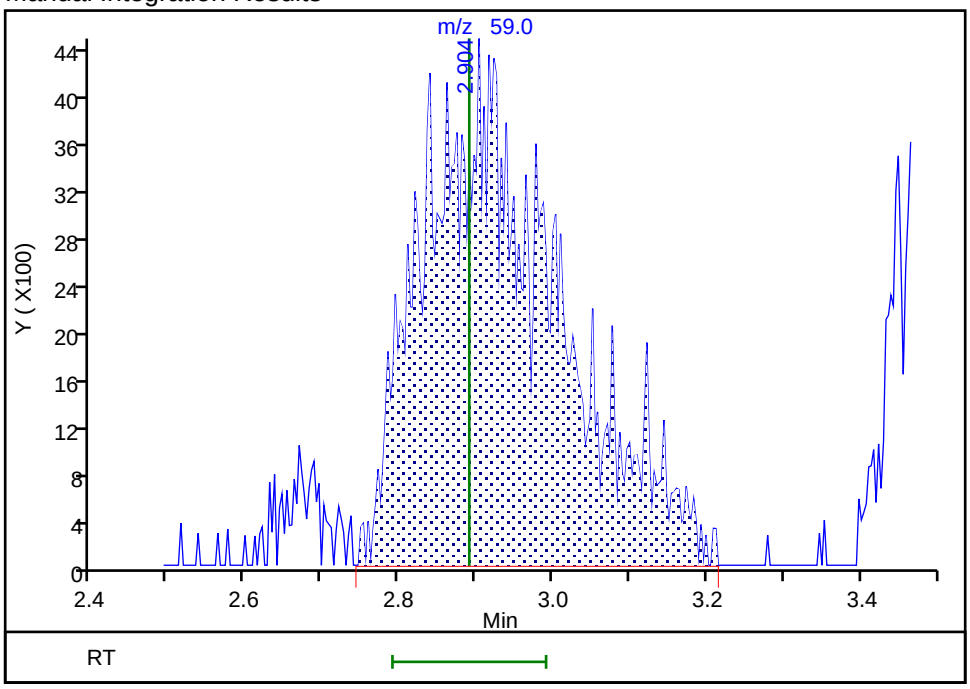
Processing Integration Results

RT: 2.90
Area: 33731
Amount: 15.071980
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 51300
Amount: 21.150845
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:26:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

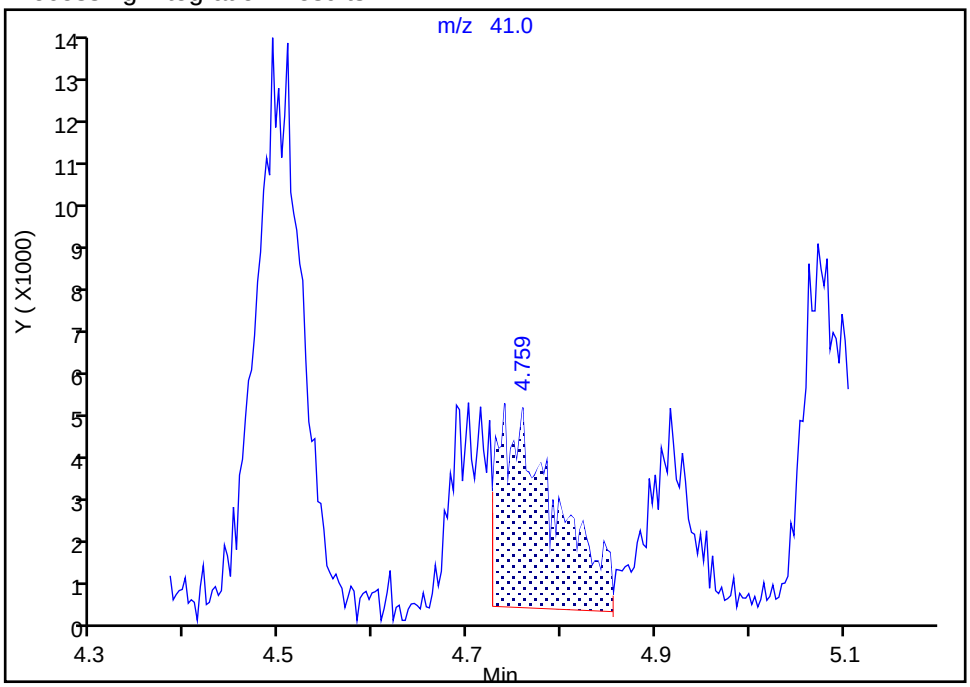
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X16.D
Injection Date: 08-Mar-2023 21:07:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

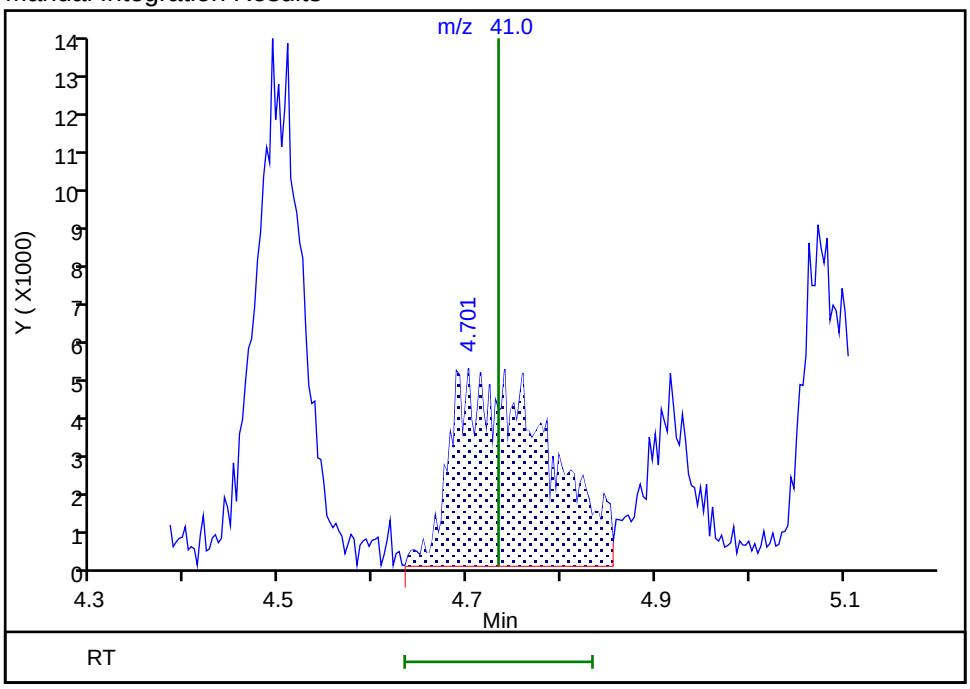
Processing Integration Results

RT: 4.76
Area: 19655
Amount: 33.392943
Amount Units: ug/l



Manual Integration Results

RT: 4.70
Area: 34844
Amount: 52.514318
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:26:51
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

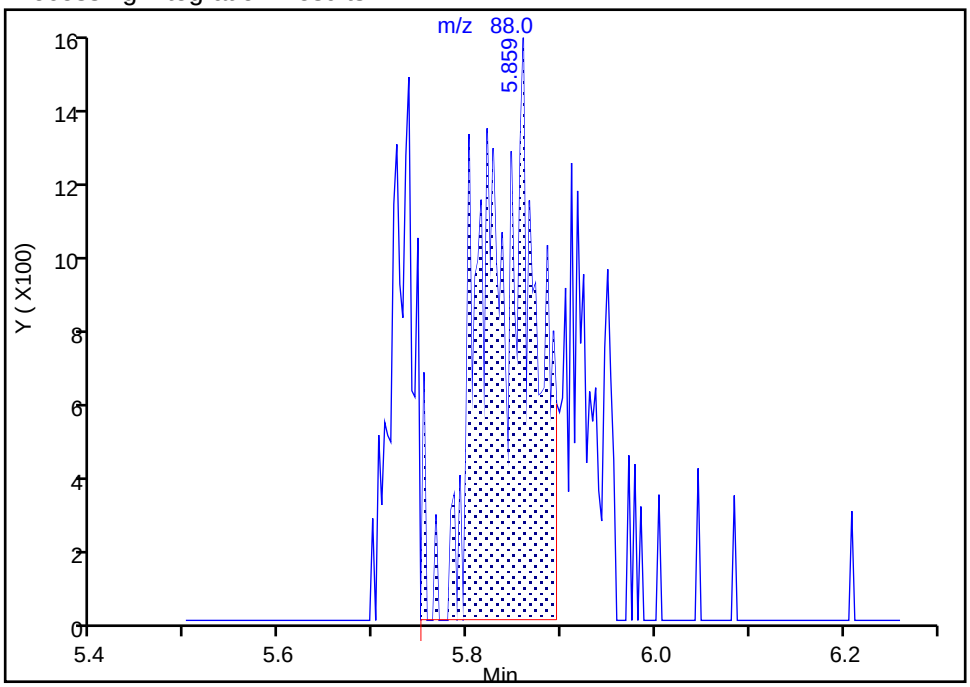
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X16.D
Injection Date: 08-Mar-2023 21:07:30 Instrument ID: 9137
Lims ID: IC v4
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

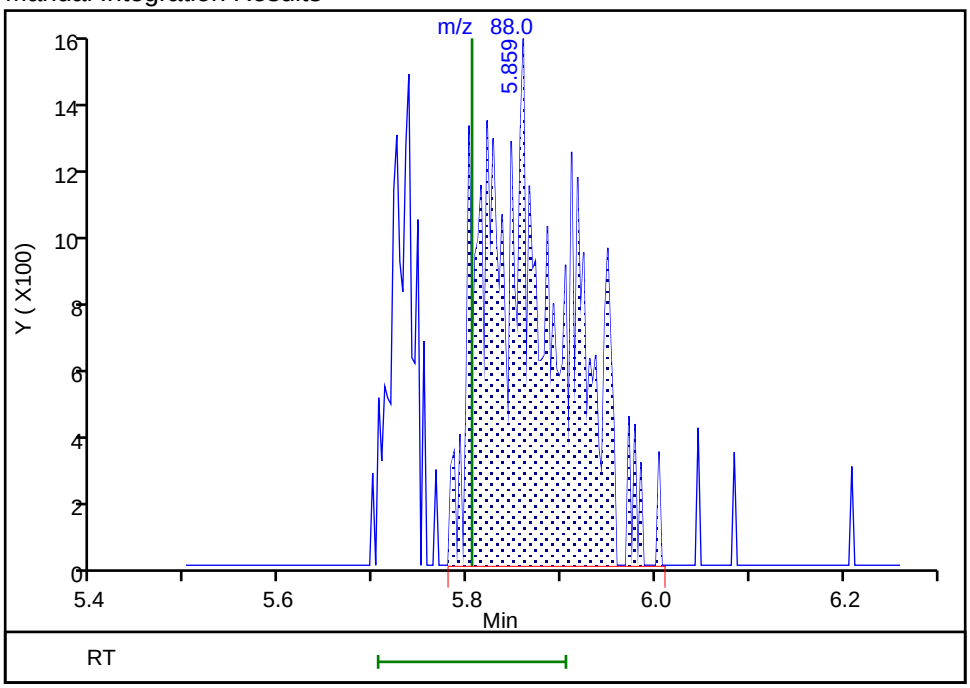
Processing Integration Results

RT: 5.86
Area: 5458
Amount: 42.362357
Amount Units: ug/l



Manual Integration Results

RT: 5.86
Area: 7907
Amount: 57.020765
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:27:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Lims ID: IC v1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Mar-2023 21:27:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-017
Misc. Info.: IC V1
Operator ID: kas02648 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub28

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:14:36 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 12:33:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.306	1.309	-0.003	19	10219	1.00	0.8040	
6 Chloromethane	50	1.444	1.450	-0.006	95	17157	1.00	1.15	
7 Butadiene	39	1.515	1.518	-0.003	94	14317	1.00	1.04	M
8 Vinyl chloride	62	1.518	1.521	-0.003	92	13520	1.00	0.9312	
10 Bromomethane	94	1.733	1.739	-0.006	81	8797	1.00	1.05	
11 Chloroethane	64	1.781	1.787	-0.006	46	7441	1.00	0.99	
12 Dichlorofluoromethane	67	1.925	1.932	-0.007	96	17600	1.00	1.01	
13 Trichlorofluoromethane	101	1.989	1.986	0.003	35	12407	1.00	0.8080	
14 Pentane	43	1.993	1.996	-0.003	89	15530	1.00	1.04	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.169	2.185	-0.016	16	10084	1.00	1.00	
17 Ethanol	45	2.256	2.220	0.036	21	10634	62.5	75.8	M
18 Acrolein	56	2.249	2.249	0.000	81	31672	10.0	10.8	
19 1,1-Dichloroethene	96	2.336	2.345	-0.009	50	7715	1.00	1.03	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.375	2.374	0.001	74	8624	1.00	0.9390	
21 Acetone	58	2.387	2.384	0.003	91	1882	2.00	1.36	
24 Isopropyl alcohol	45	2.496	2.464	0.032	25	7008	5.00	5.32	M
22 Iodomethane	142	2.480	2.483	-0.003	88	12367	1.00	0.9499	
23 Carbon disulfide	76	2.538	2.548	-0.010	99	26513	1.00	1.05	
26 3-Chloro-1-propene	41	2.651	2.647	0.004	76	14018	1.00	1.10	M
27 Methyl acetate	43	2.663	2.660	0.003	26	9497	1.00	0.9459	M
29 Methylene Chloride	84	2.756	2.756	0.000	95	11872	1.00	1.36	
* 30 t-Butyl alcohol-d10 (IS)	65	2.827	2.791	0.036	52	430915	250.0	250.0	
31 2-Methyl-2-propanol	59	2.846	2.891	-0.045	38	13141	5.00	5.51	M
32 Acrylonitrile	53	2.997	2.974	0.023	43	14122	2.50	2.72	
33 trans-1,2-Dichloroethene	96	3.010	3.003	0.007	93	7973	1.00	1.08	
34 Methyl tert-butyl ether	73	2.997	3.006	-0.009	76	25554	1.00	1.02	
35 Hexane	57	3.247	3.260	-0.013	68	11195	1.00	0.9161	
36 1,1-Dichloroethane	63	3.379	3.385	-0.006	42	12751	1.00	0.9646	
38 Isopropyl ether	45	3.456	3.453	0.003	79	24825	1.00	0.9777	
39 2-Chloro-1,3-butadiene	53	3.478	3.475	0.003	46	12007	1.00	0.9560	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.786	3.806	-0.020	96	25724	1.00	1.04	
41 2-Butanone (MEK)	43	3.969	3.921	0.048	38	16330	2.00	2.51	M
42 cis-1,2-Dichloroethene	96	3.928	3.937	-0.009	84	8199	1.00	1.02	
43 2,2-Dichloropropane	77	3.963	3.956	0.007	65	12955	1.00	1.00	
45 Propionitrile	54	4.021	3.998	0.023	32	12376	5.00	5.51	
47 Methacrylonitrile	67	4.168	4.155	0.013	39	11723	2.50	2.50	M
48 Chlorobromomethane	128	4.162	4.165	-0.003	68	3733	1.00	0.9896	
49 Tetrahydrofuran	71	4.220	4.216	0.004	34	12283	5.00	6.39	M
50 Chloroform	83	4.252	4.239	0.013	83	11714	1.00	0.9613	M
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	93	269923	50.0	50.8	
53 1,1,1-Trichloroethane	97	4.428	4.438	-0.010	38	11980	1.00	0.9723	
54 Cyclohexane	56	4.502	4.495	0.007	77	16730	1.00	0.9599	
55 1,1-Dichloropropene	75	4.592	4.592	0.000	92	10619	1.00	1.01	
56 Carbon tetrachloride	117	4.595	4.595	0.000	73	9078	1.00	0.9125	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	96	66064	50.0	49.7	
58 Isobutyl alcohol	41	4.752	4.733	0.019	30	9951	12.5	15.2	M
59 Benzene	78	4.800	4.800	0.000	88	28705	1.00	0.9651	
60 1,2-Dichloroethane	62	4.800	4.807	-0.007	47	10471	1.00	1.08	M
62 Tert-amyl methyl ether	73	4.906	4.913	-0.007	97	23977	1.00	1.02	
* 63 Fluorobenzene (IS)	96	5.067	5.073	-0.006	99	1082424	50.0	50.0	
64 n-Heptane	43	5.073	5.083	-0.010	39	11944	1.00	1.01	
65 n-Butanol	56	5.420	5.378	0.042	50	3212	12.5	12.4	
66 Trichloroethene	95	5.452	5.452	0.000	93	7025	1.00	0.9407	M
68 Methylcyclohexane	83	5.657	5.660	-0.003	94	14921	1.00	0.9195	
69 1,2-Dichloropropane	63	5.673	5.676	-0.003	63	7597	1.00	0.9777	
70 2-ethoxy-2-methyl butane	87	5.715	5.724	-0.009	90	9807	1.00	0.9047	
71 Dibromomethane	93	5.792	5.795	-0.003	69	4663	1.00	1.02	
72 1,4-Dioxane	88	5.924	5.805	0.119	27	1828	12.5	13.4	M
73 Methyl methacrylate	69	5.831	5.808	0.023	86	6501	1.00	0.9463	
75 Dichlorobromomethane	83	5.959	5.965	-0.006	37	8034	1.00	0.9418	
S 76 1,2-Dichloroethene, Total	100				0			2.10	
77 2-Nitropropane	41	6.206	6.203	0.003	93	15433	5.00	4.79	
78 2-Chloroethyl vinyl ether	63	6.305	6.296	0.009	40	4732	1.00	0.8994	
80 cis-1,3-Dichloropropene	75	6.453	6.443	0.010	60	9895	1.00	0.8980	M
81 4-Methyl-2-pentanone (MIBK)	43	6.617	6.623	-0.006	97	25540	2.00	1.88	
$ 82 Toluene-d8 (Surr)	98	6.732	6.732	0.000	93	1032047	50.0	50.2	
83 Toluene	92	6.812	6.809	0.003	94	17426	1.00	1.00	
84 trans-1,3-Dichloropropene	75	7.063	7.050	0.013	86	9471	1.00	0.9849	
86 Ethyl methacrylate	69	7.182	7.175	0.007	83	10768	1.00	0.9711	
87 1,1,2-Trichloroethane	97	7.242	7.242	0.000	86	6418	1.00	1.05	
89 Tetrachloroethene	166	7.397	7.396	0.000	94	6894	1.00	0.9464	M
90 1,3-Dichloropropane	76	7.419	7.416	0.003	70	10672	1.00	1.05	
93 2-Hexanone	43	7.538	7.515	0.023	96	15394	2.00	1.81	M
94 Chlorodibromomethane	129	7.650	7.643	0.007	90	4524	1.00	0.8016	
96 Ethylene Dibromide	107	7.759	7.746	0.013	86	5663	1.00	0.9269	M
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	86	760534	50.0	50.0	
98 1-Chlorohexane	91	8.208	8.211	-0.003	79	10329	1.00	1.03	
99 Chlorobenzene	112	8.218	8.215	0.003	87	16496	1.00	0.9330	
100 1,1,1,2-Tetrachloroethane	131	8.292	8.295	-0.003	87	6074	1.00	0.9041	
101 Ethylbenzene	91	8.321	8.320	0.001	99	32814	1.00	0.9703	
102 m-Xylene & p-Xylene	106	8.436	8.426	0.010	95	23675	2.00	1.86	
104 o-Xylene	106	8.767	8.763	0.004	90	13143	1.00	0.9734	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Styrene	104	8.783	8.776	0.007	94	17749	1.00	0.8918	
106 Bromoform	173	8.921	8.917	0.004	88	2333	1.00	1.36	
107 Isopropylbenzene	105	9.072	9.071	0.001	94	33797	1.00	0.9275	
109 Cyclohexanone	55	9.142	9.136	0.006	95	30880	50.0	54.3	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.187	0.000	88	388640	50.0	51.2	
111 Bromobenzene	156	9.306	9.302	0.004	88	6919	1.00	0.9128	
112 1,1,2,2-Tetrachloroethane	83	9.303	9.306	-0.003	93	12034	1.00	1.01	
113 1,2,3-Trichloropropane	110	9.335	9.334	0.001	81	3144	1.00	0.9399	
114 trans-1,4-Dichloro-2-butene	53	9.351	9.347	0.004	84	6891	2.50	2.17	
115 N-Propylbenzene	91	9.396	9.395	0.001	99	38406	1.00	0.9293	
116 2-Chlorotoluene	126	9.450	9.456	-0.006	96	7043	1.00	0.8635	a
117 1,3,5-Trimethylbenzene	105	9.534	9.533	0.001	94	27152	1.00	0.8839	
118 4-Chlorotoluene	126	9.543	9.540	0.003	98	7345	1.00	0.9615	
120 tert-Butylbenzene	134	9.771	9.777	-0.006	92	4751	1.00	0.7973	
122 1,2,4-Trimethylbenzene	105	9.813	9.809	0.004	96	28687	1.00	0.9113	
123 sec-Butylbenzene	105	9.938	9.938	0.000	94	33211	1.00	0.8631	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	95	15373	1.00	1.03	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	27600	1.00	0.8421	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	425181	50.0	50.0	
S 164 1,3-Dichloropropene, Total	100				0			1.88	
165 1,4-Dichlorobenzene	146	10.076	10.079	-0.003	89	14601	1.00	1.01	
166 1,2,3-Trimethylbenzene	105	10.118	10.117	0.001	98	32245	1.00	0.9757	
167 Benzyl chloride	91	10.182	10.175	0.007	97	18657	1.00	0.8520	
168 1,3-Diethylbenzene	119	10.262	10.259	0.003	97	17826	1.00	0.8925	
169 p-Diethylbenzene	119	10.317	10.316	0.001	94	17497	1.00	0.8709	
170 n-Butylbenzene	92	10.336	10.336	0.000	95	13321	1.00	0.8224	
171 1,2-Dichlorobenzene	146	10.345	10.342	0.003	95	15778	1.00	1.01	
172 o-diethylbenzene	119	10.400	10.400	0.000	95	13923	1.00	0.8552	
173 1,2-Dibromo-3-Chloropropane	75	10.881	10.878	0.003	82	2770	1.00	0.8950	
174 1,3,5-Trichlorobenzene	180	11.029	11.026	0.003	95	10643	1.00	0.8916	
S 175 Xylenes, Total	106				0			2.83	
176 1,2,4-Trichlorobenzene	180	11.437	11.433	0.004	93	11298	1.00	0.9856	
178 Hexachlorobutadiene	225	11.552	11.545	0.007	89	3388	1.00	0.8215	
179 Naphthalene	128	11.600	11.597	0.003	97	42697	1.00	0.9746	
180 1,2,3-Trichlorobenzene	180	11.754	11.751	0.003	95	11854	1.00	0.9833	
181 2-Methylnaphthalene	142	12.319	12.316	0.003	91	25820	1.00	0.9452	
S 192 Total Diethylbenzene	1				0			2.62	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_4ppbEtoh_00510	Amount Added: 12.50	Units: mL	
MSV_Cent_ISSS_00016	Amount Added: 5.00	Units: uL	Run Reagent

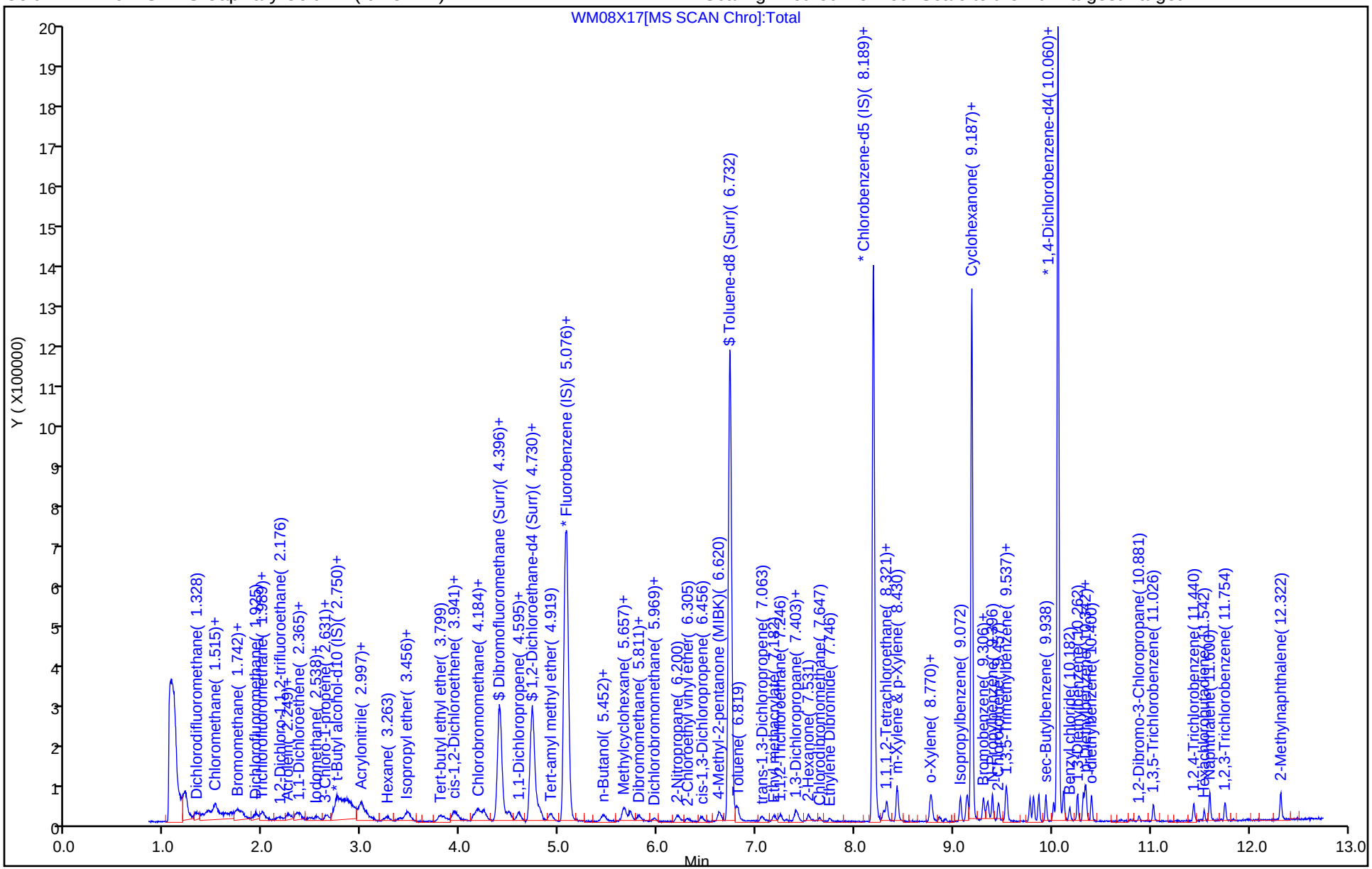
Report Date: 14-Mar-2023 13:14:37 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Injection Date:	08-Mar-2023 21:27:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	IC v1			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

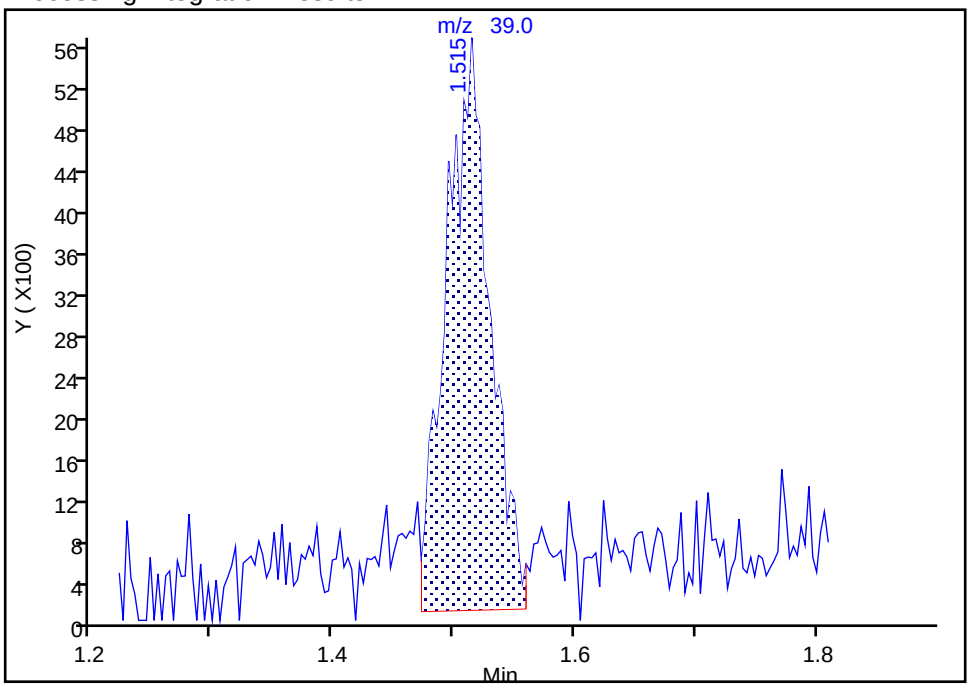
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

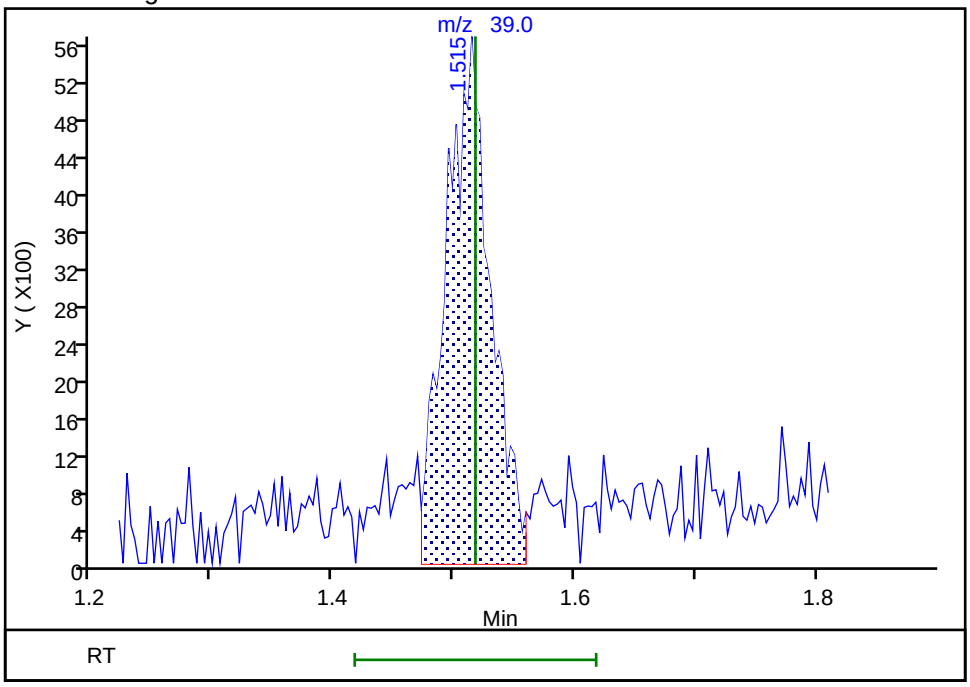
Processing Integration Results

RT: 1.51
Area: 13807
Amount: 1.005212
Amount Units: ug/l



Manual Integration Results

RT: 1.51
Area: 14317
Amount: 1.036842
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:29:08
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

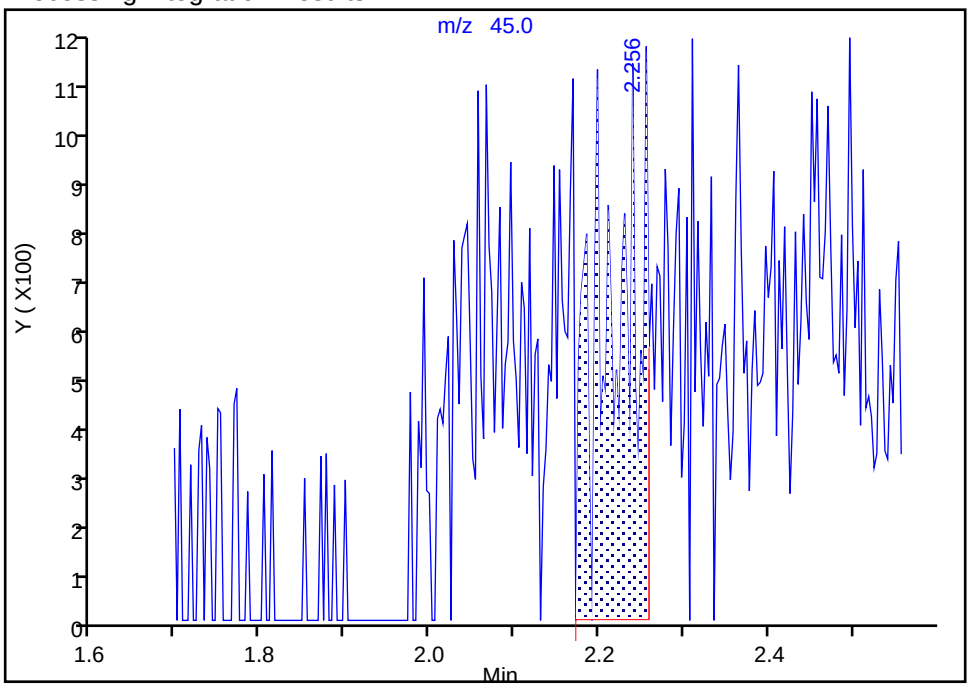
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

17 Ethanol, CAS: 64-17-5

Signal: 1

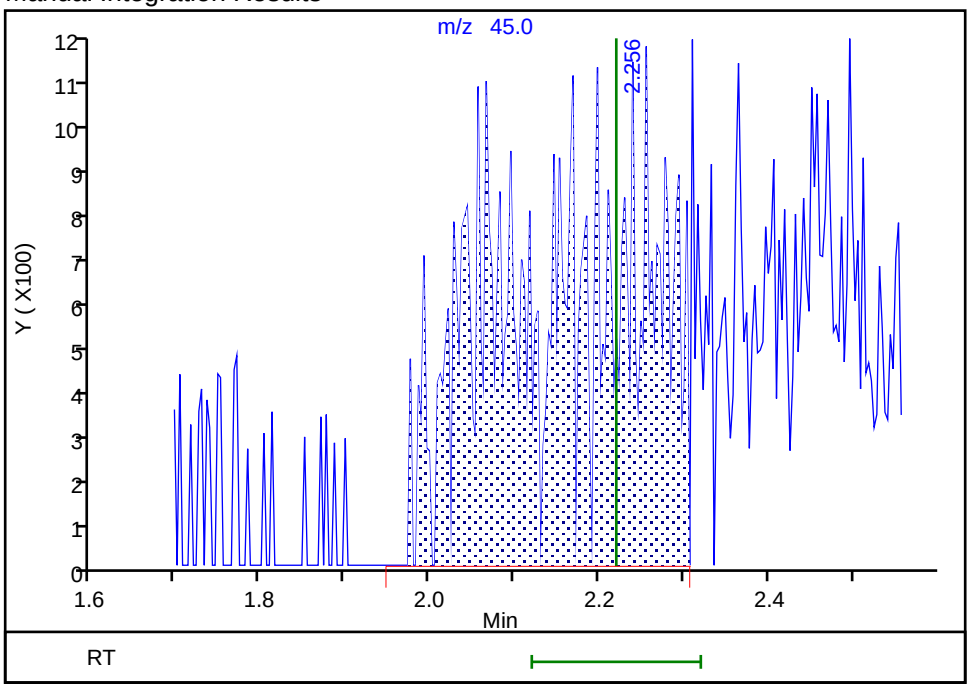
Processing Integration Results

RT: 2.26
Area: 3026
Amount: 69.449014
Amount Units: ug/l



Manual Integration Results

RT: 2.26
Area: 10634
Amount: 75.849709
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:29:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

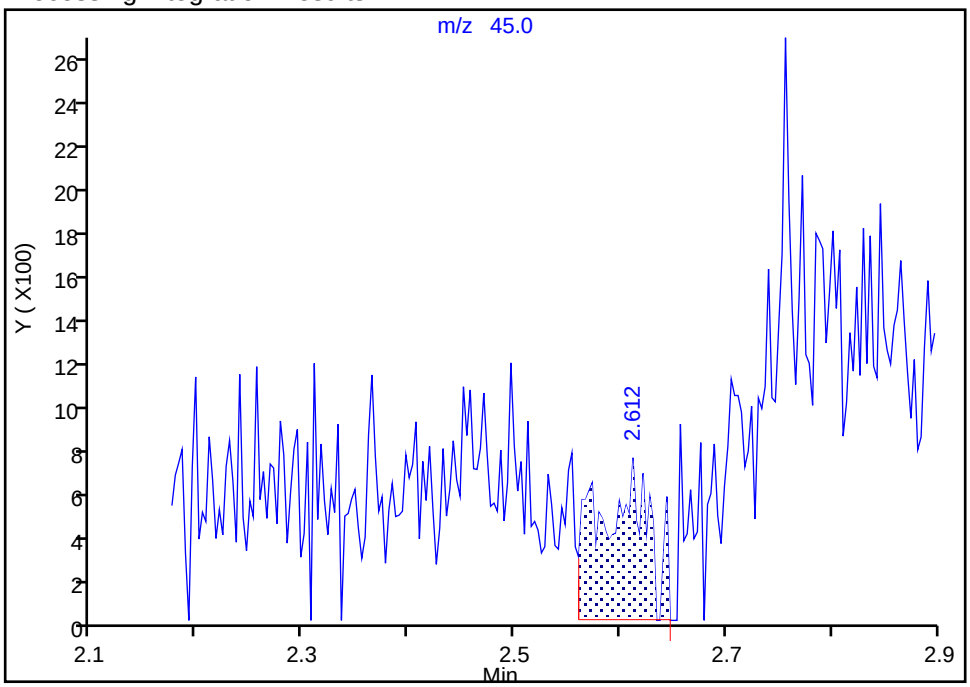
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

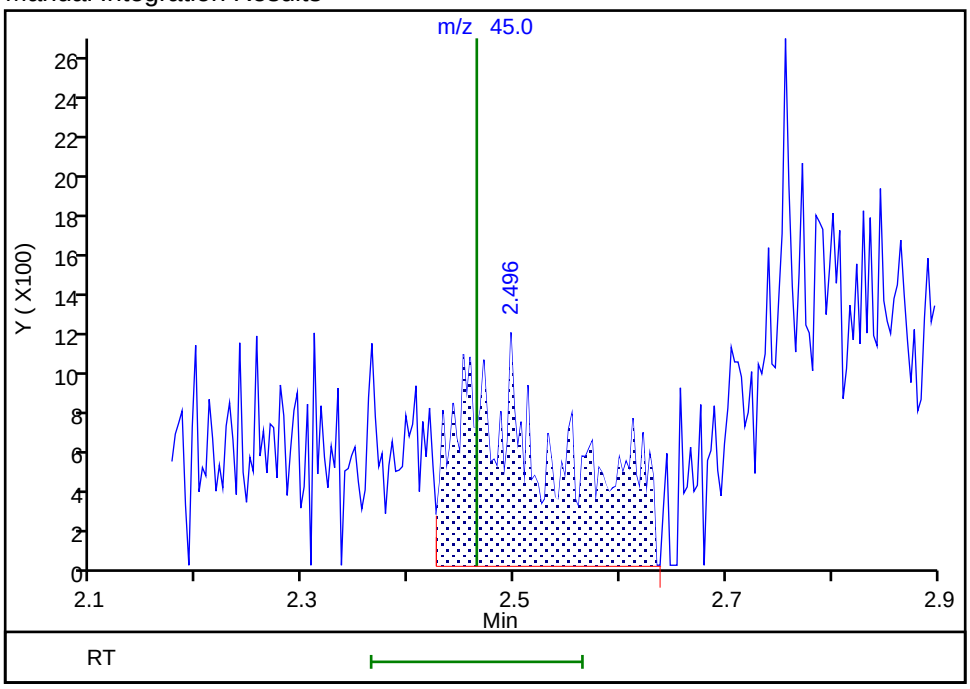
Processing Integration Results

RT: 2.61
Area: 2254
Amount: 4.935044
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 7008
Amount: 5.321325
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:29:59
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

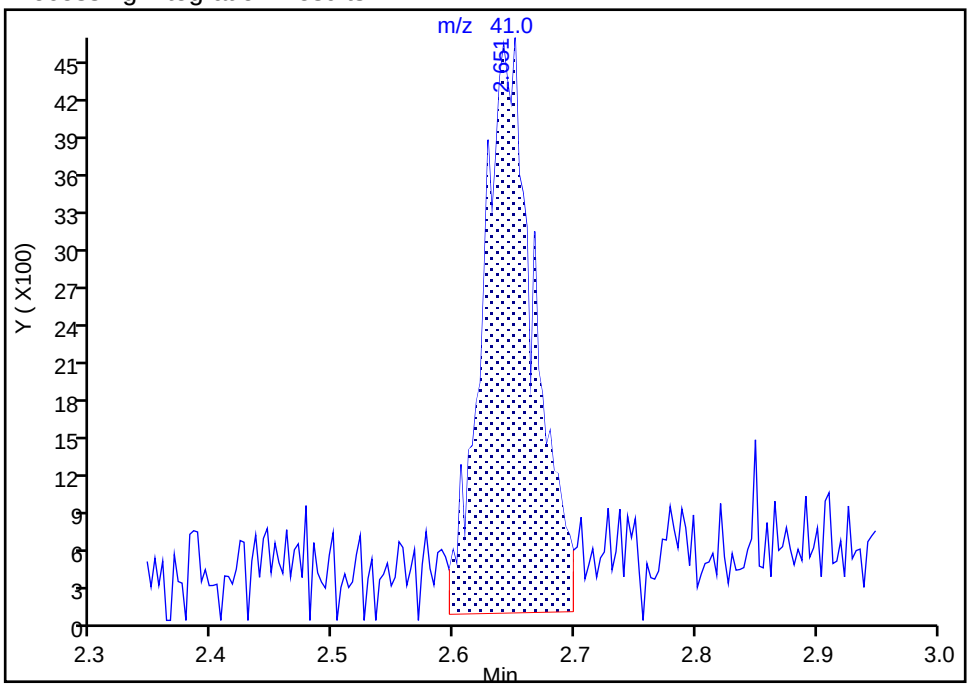
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

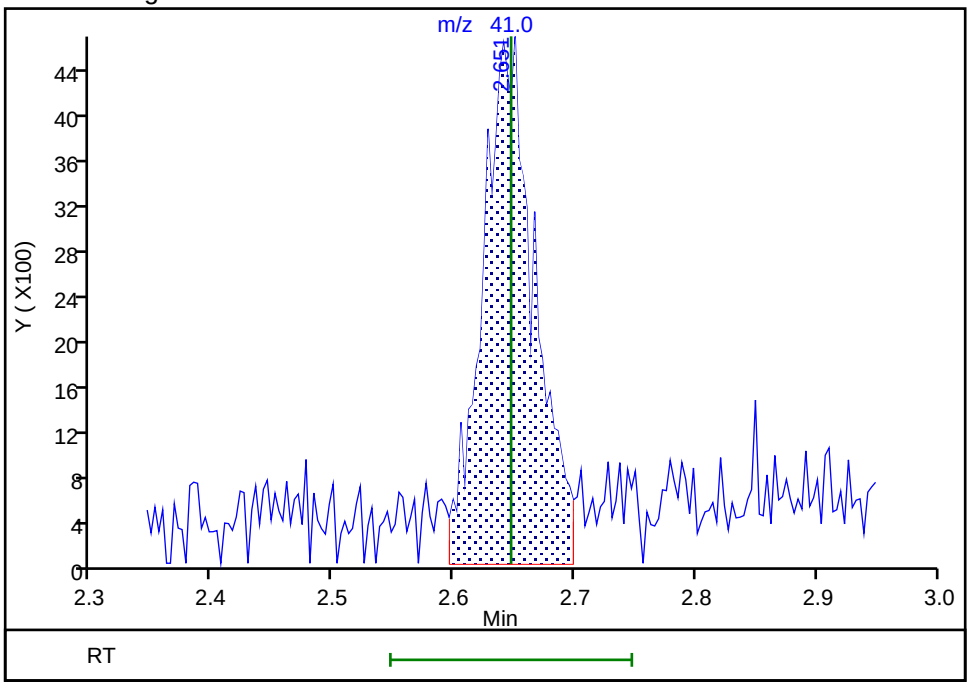
Processing Integration Results

RT: 2.65
Area: 13659
Amount: 1.077299
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 14018
Amount: 1.101160
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:30:14
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

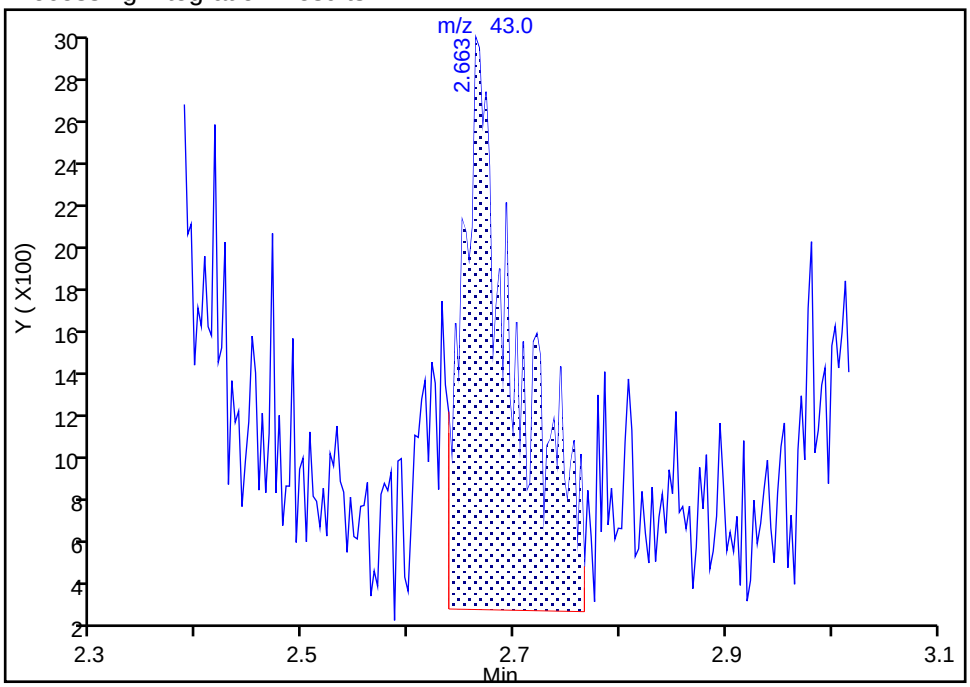
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

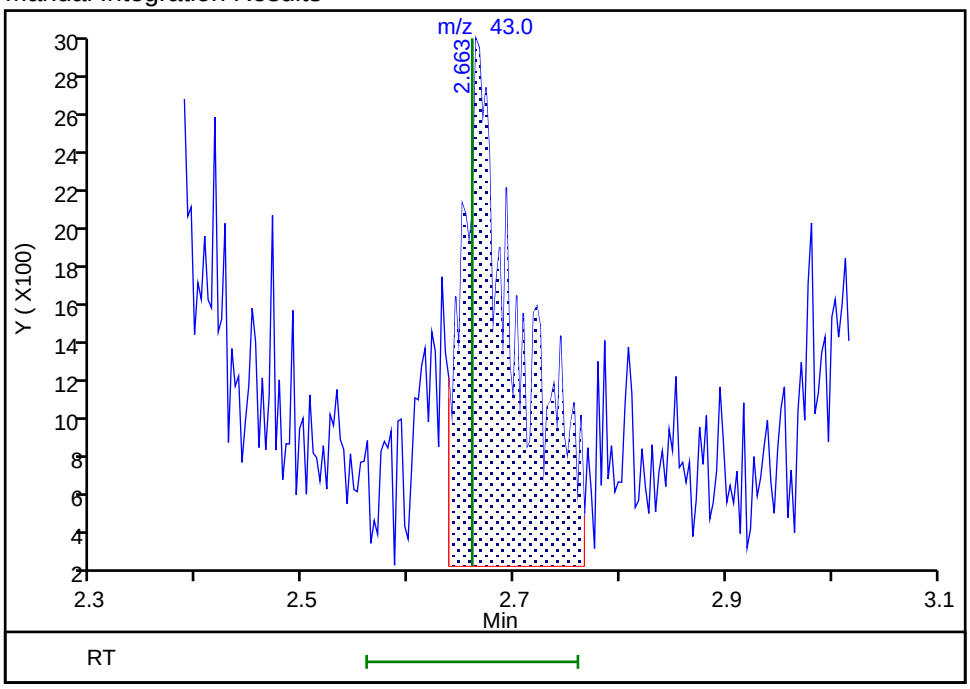
Processing Integration Results

RT: 2.66
Area: 9149
Amount: 0.915804
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 9497
Amount: 0.945931
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:30:27
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

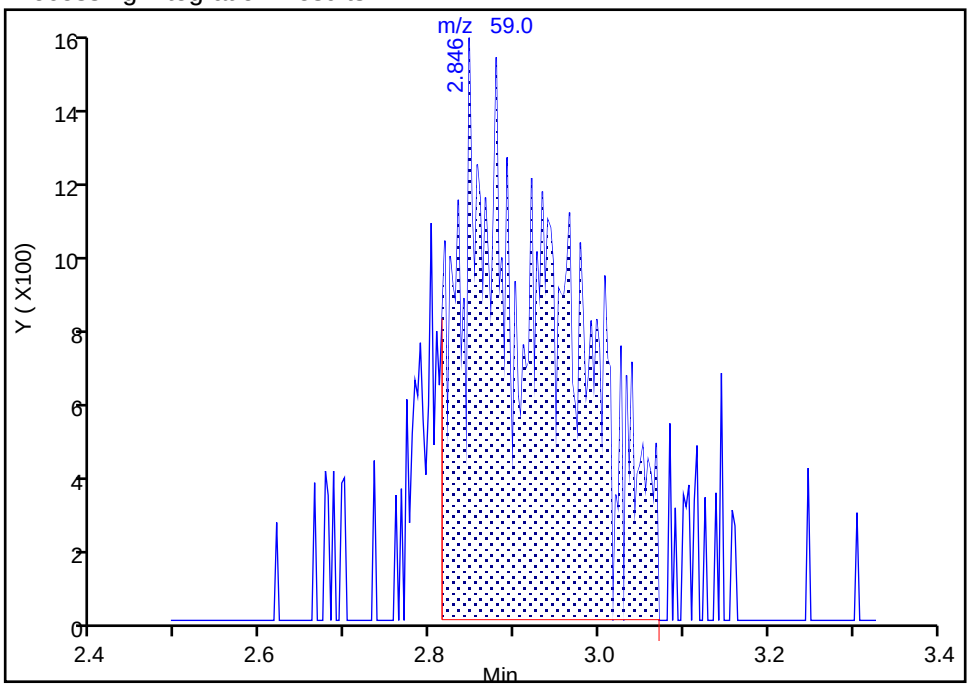
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

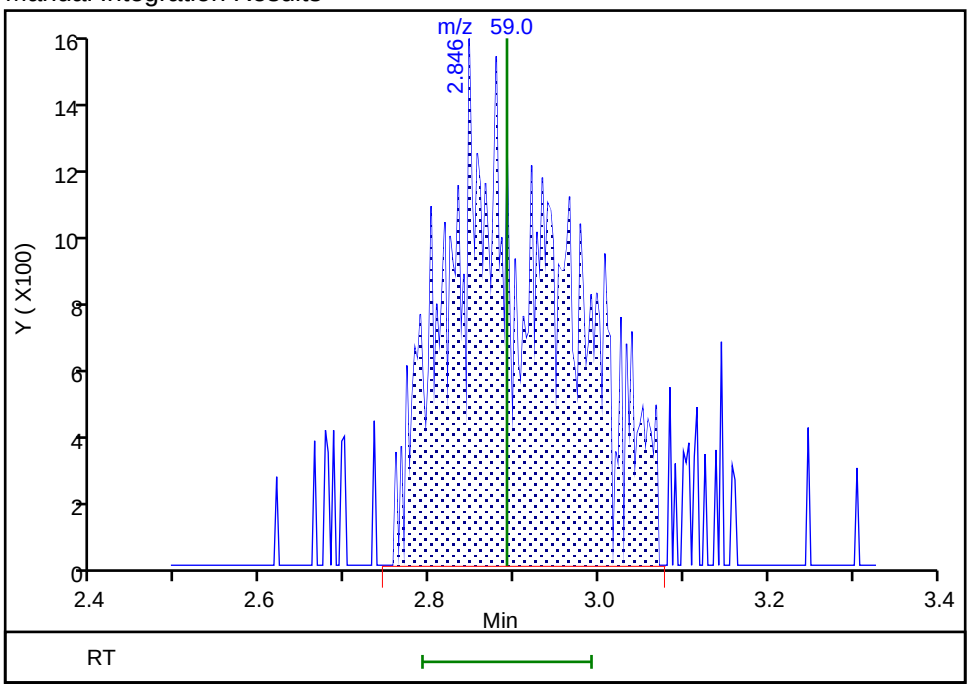
Processing Integration Results

RT: 2.85
Area: 11517
Amount: 4.922625
Amount Units: ug/l



Manual Integration Results

RT: 2.85
Area: 13141
Amount: 5.507531
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:30:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

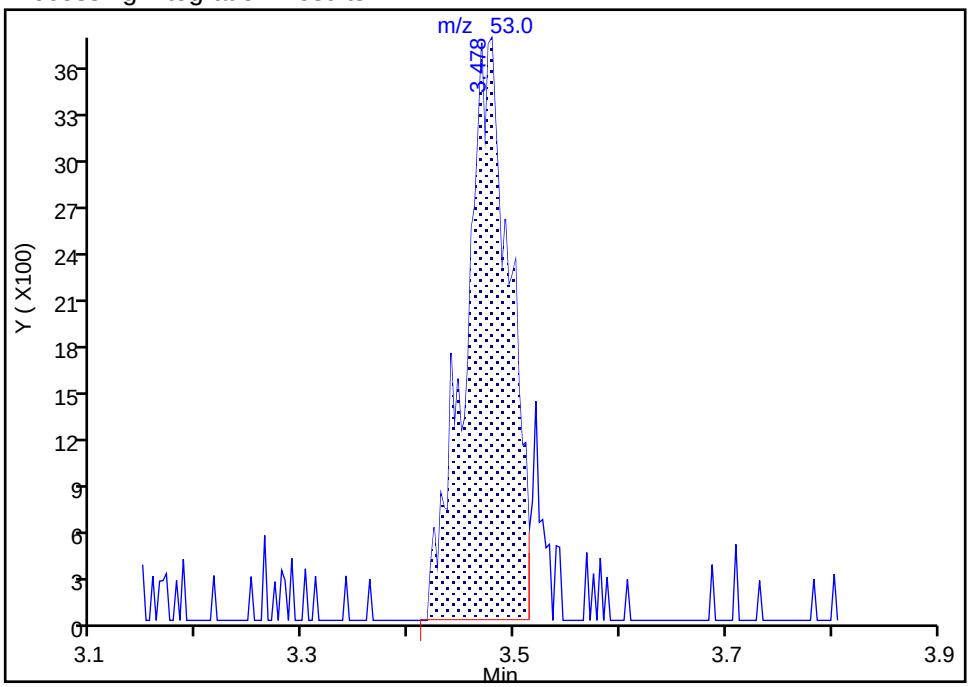
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

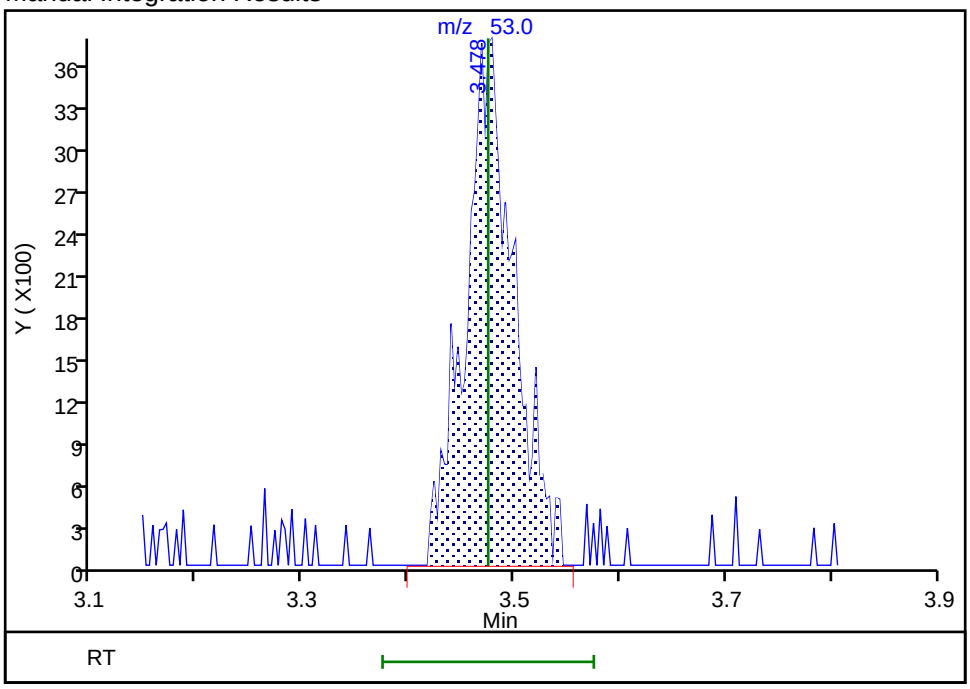
Processing Integration Results

RT: 3.48
Area: 10967
Amount: 0.883627
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 12007
Amount: 0.955978
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:30:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

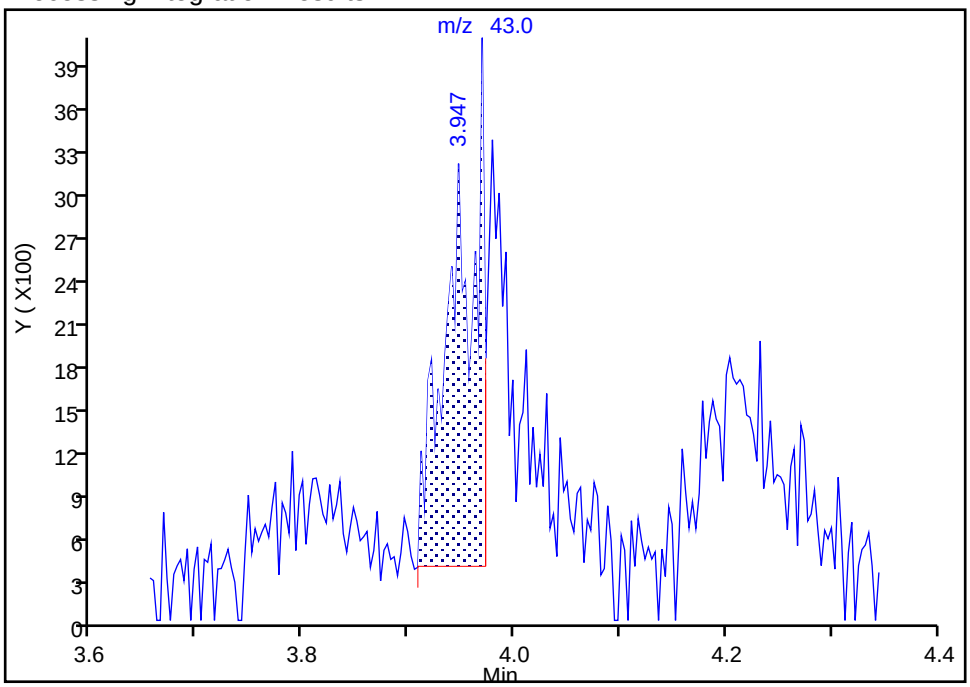
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

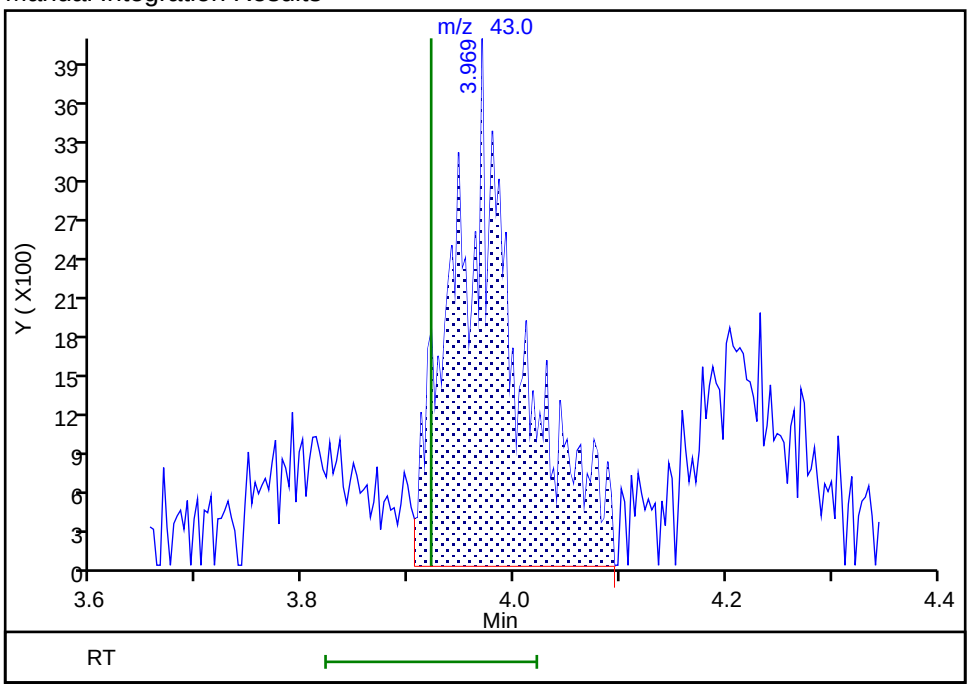
Processing Integration Results

RT: 3.95
Area: 6147
Amount: 1.981395
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 16330
Amount: 2.510549
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:31:04
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

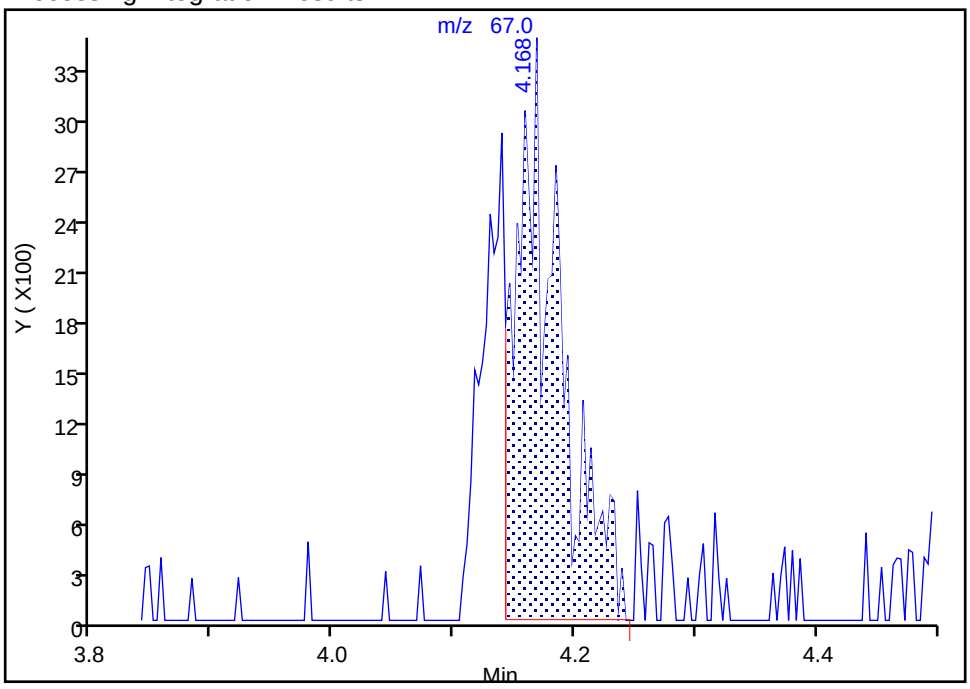
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

47 Methacrylonitrile, CAS: 126-98-7

Signal: 1

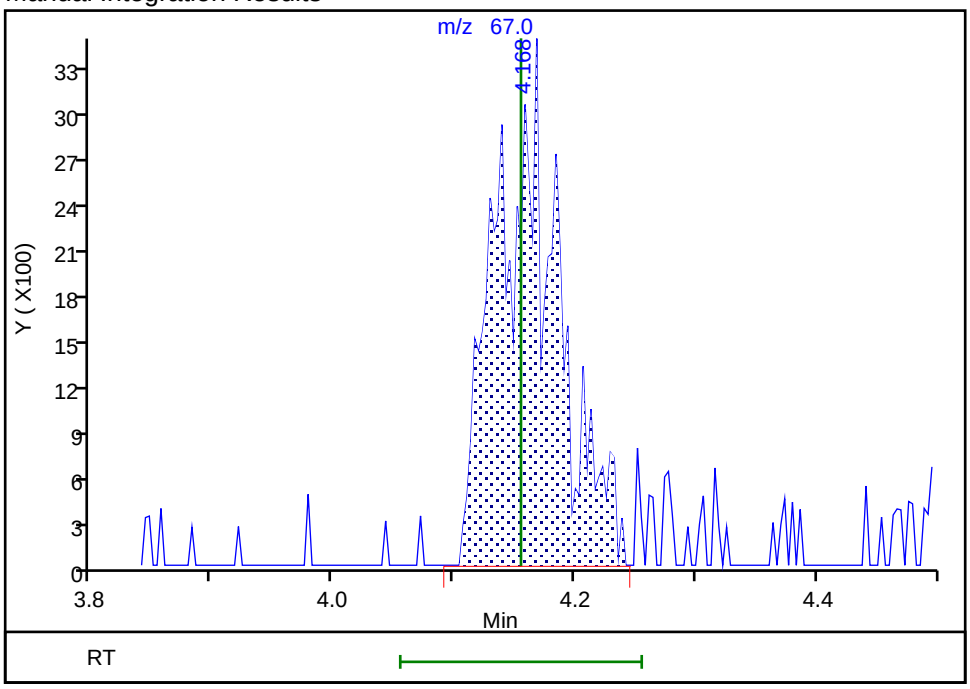
Processing Integration Results

RT: 4.17
Area: 8350
Amount: 1.857985
Amount Units: ug/l



Manual Integration Results

RT: 4.17
Area: 11723
Amount: 2.501248
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:31:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

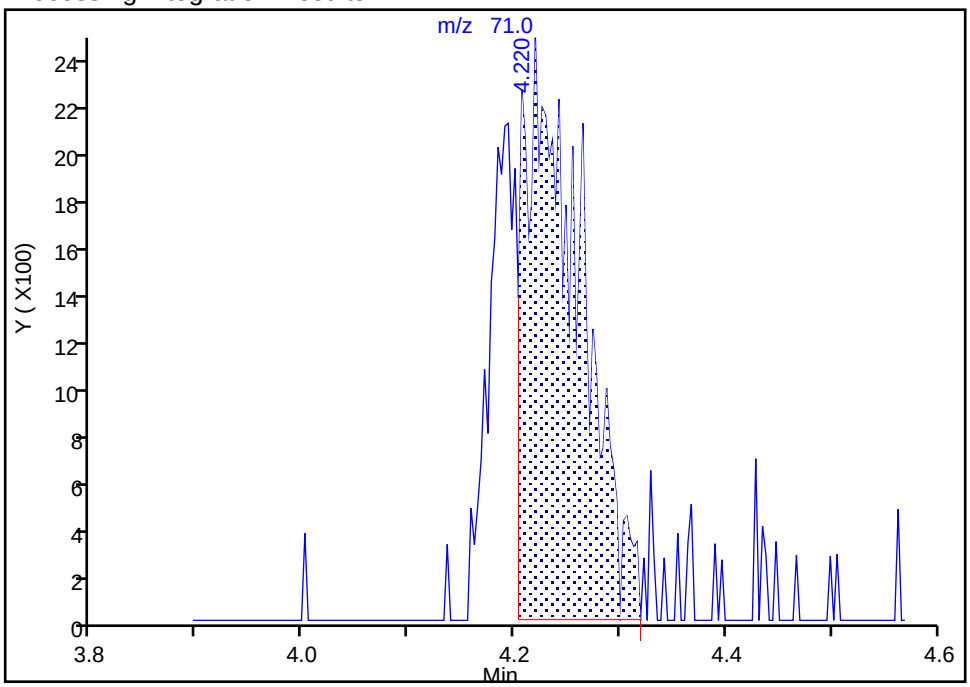
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

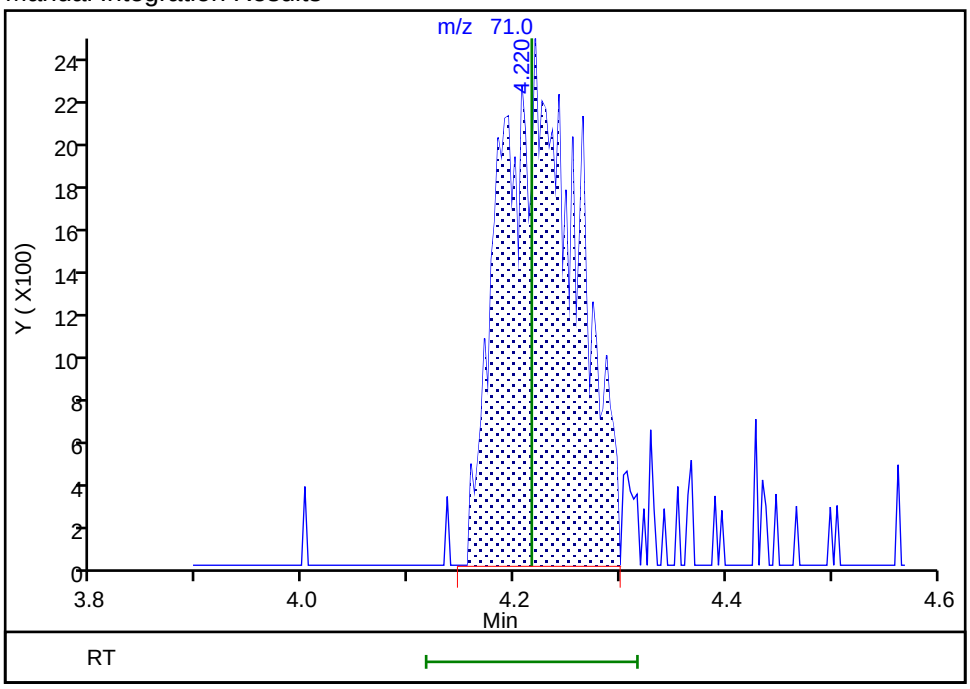
Processing Integration Results

RT: 4.22
Area: 9070
Amount: 4.952620
Amount Units: ug/l



Manual Integration Results

RT: 4.22
Area: 12283
Amount: 6.386905
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:31:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

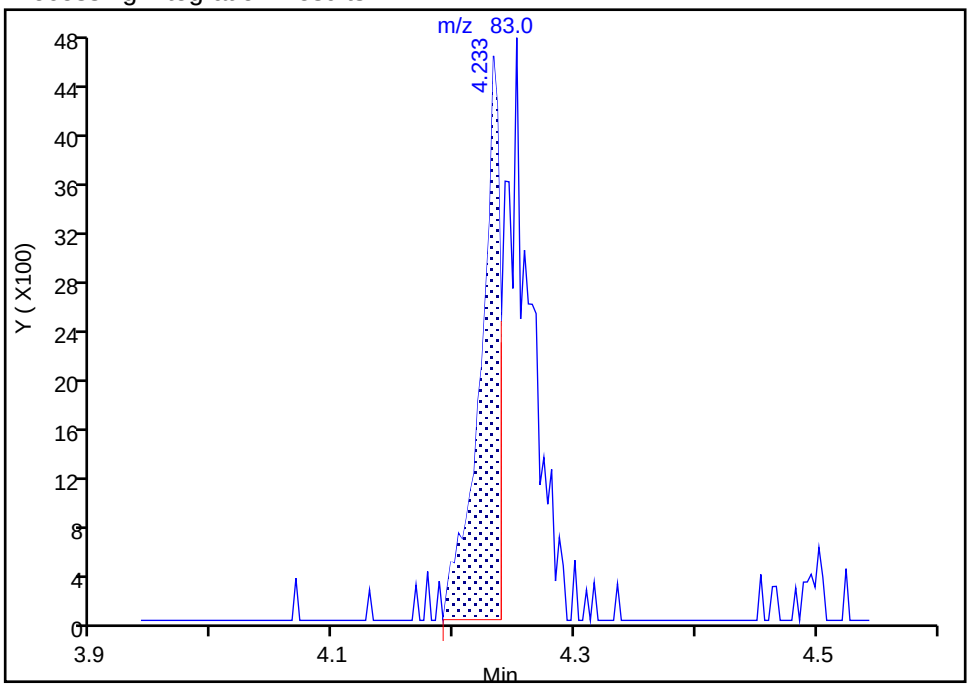
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

50 Chloroform, CAS: 67-66-3

Signal: 1

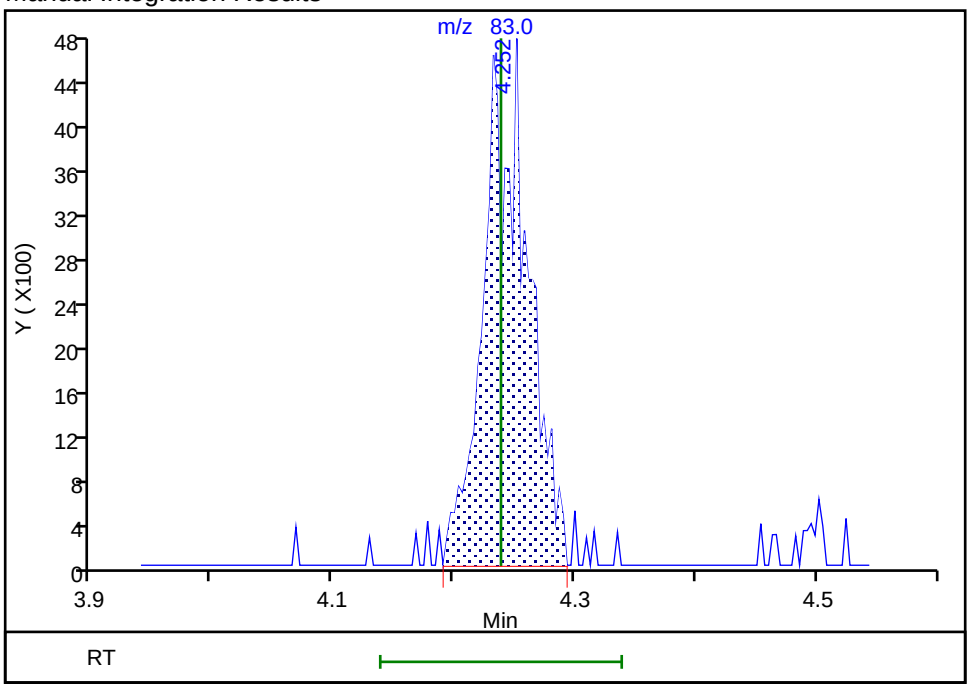
Processing Integration Results

RT: 4.23
Area: 5166
Amount: 0.957095
Amount Units: ug/l



Manual Integration Results

RT: 4.25
Area: 11714
Amount: 0.961330
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:31:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

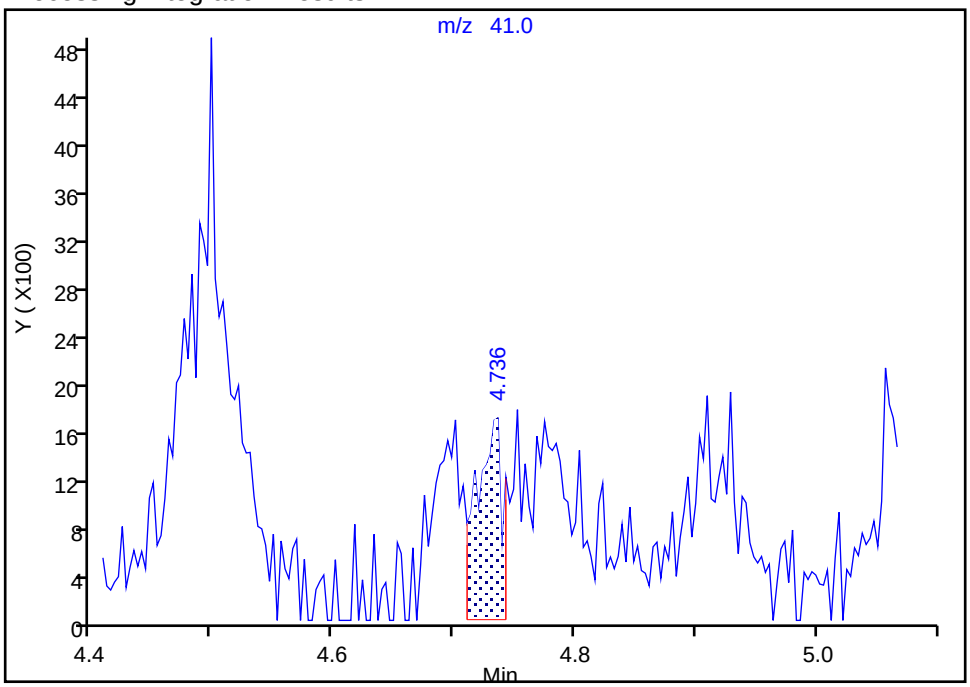
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

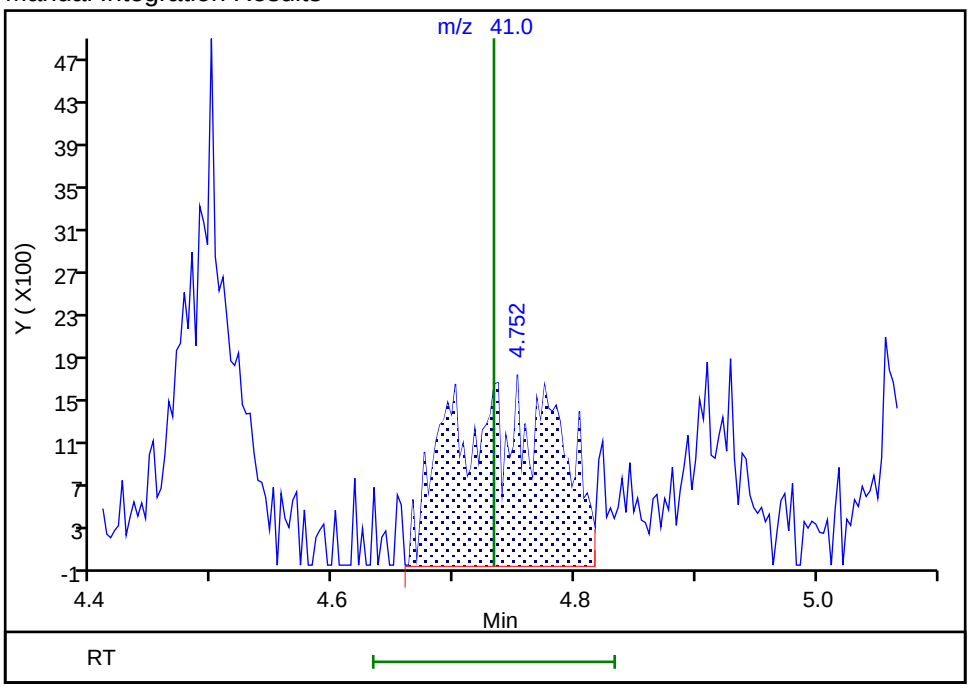
Processing Integration Results

RT: 4.74
Area: 2474
Amount: 9.654768
Amount Units: ug/l



Manual Integration Results

RT: 4.75
Area: 9951
Amount: 15.245253
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:31:45
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

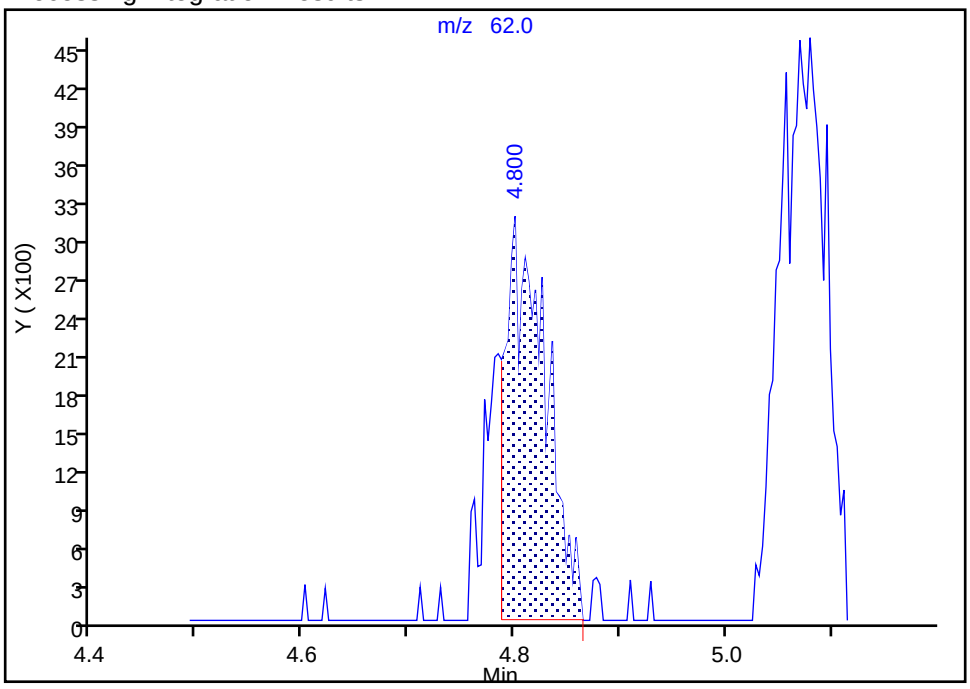
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

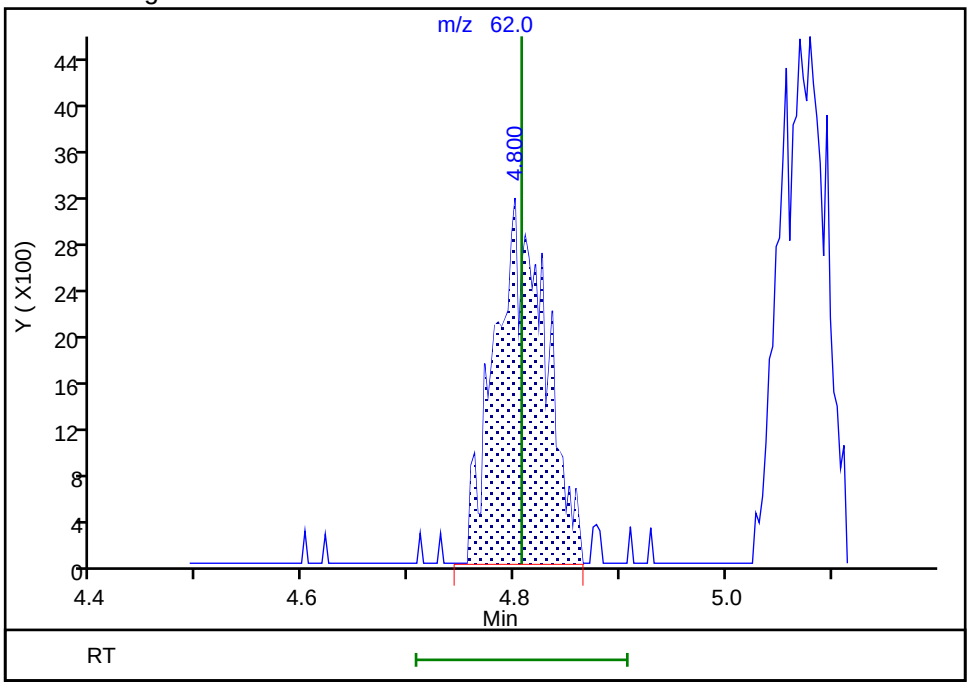
Processing Integration Results

RT: 4.80
Area: 8212
Amount: 0.873815
Amount Units: ug/l



Manual Integration Results

RT: 4.80
Area: 10471
Amount: 1.077199
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:31:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

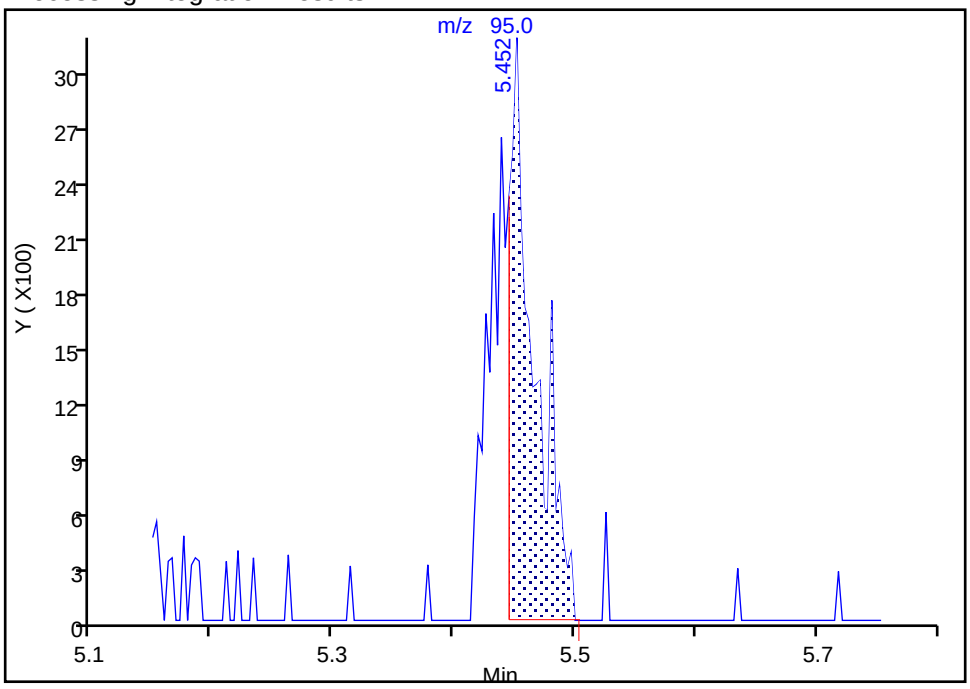
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

66 Trichloroethene, CAS: 79-01-6

Signal: 1

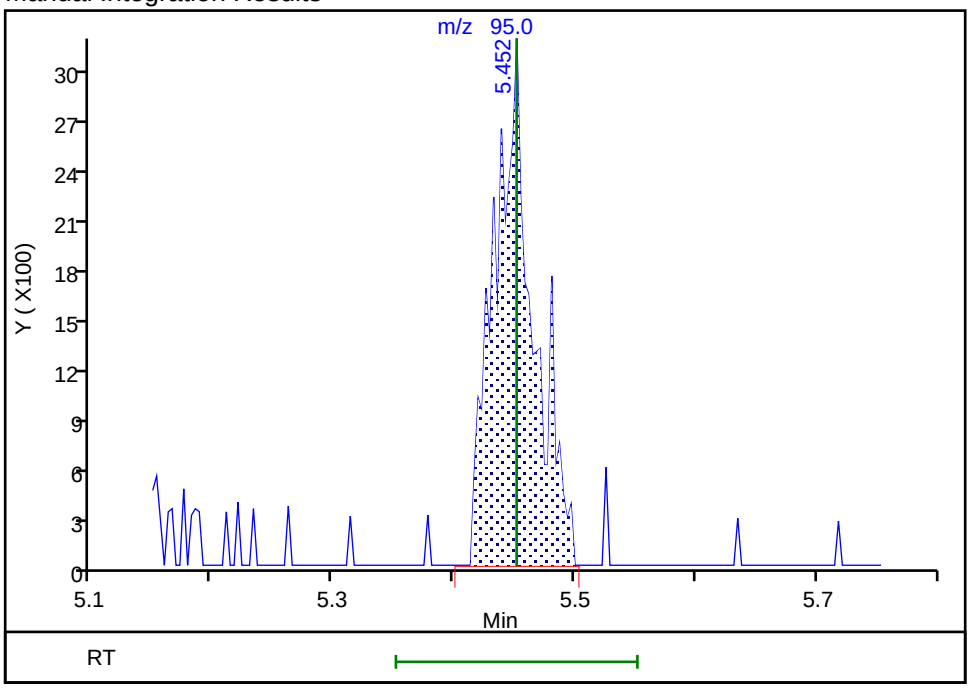
Processing Integration Results

RT: 5.45
Area: 4363
Amount: 0.615615
Amount Units: ug/l



Manual Integration Results

RT: 5.45
Area: 7025
Amount: 0.940743
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:32:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

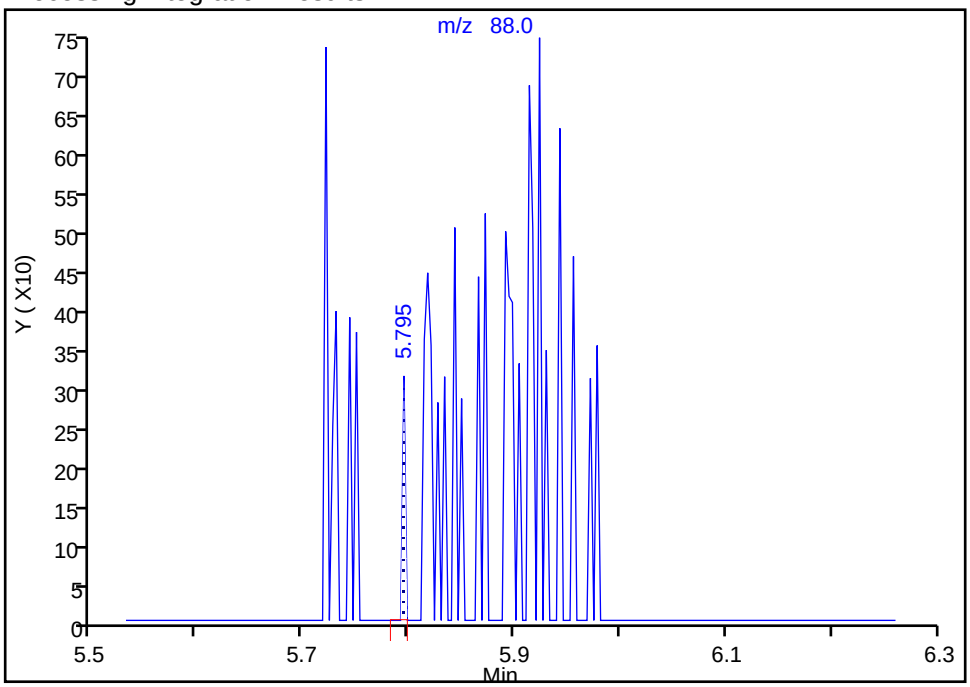
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

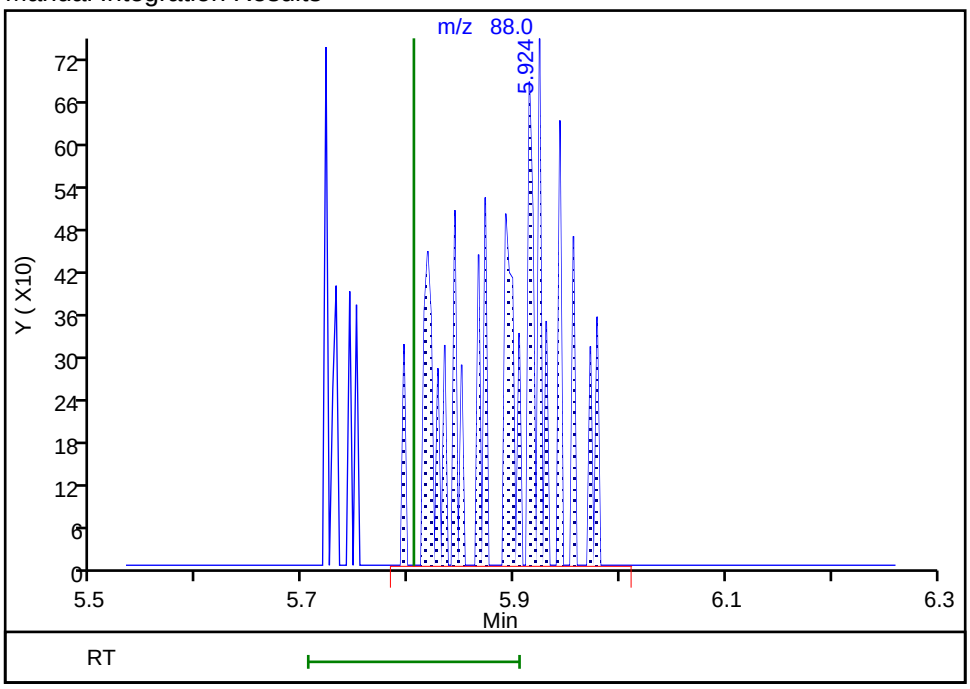
Processing Integration Results

RT: 5.80
Area: 60
Amount: 0.516312
Amount Units: ug/l



Manual Integration Results

RT: 5.92
Area: 1828
Amount: 13.400336
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:32:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

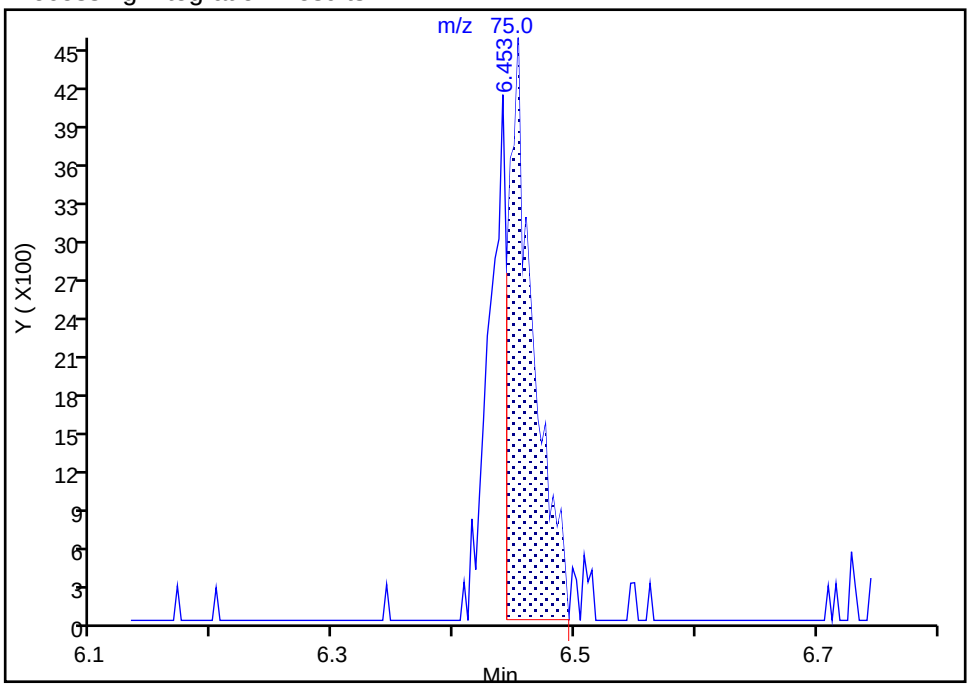
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

80 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

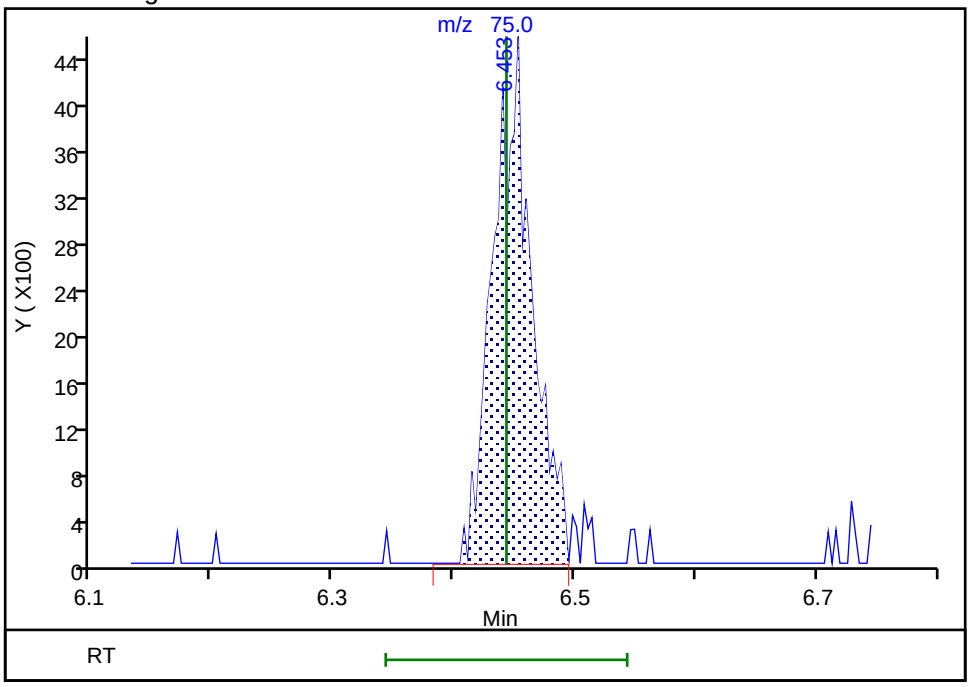
Processing Integration Results

RT: 6.45
Area: 6335
Amount: 0.602710
Amount Units: ug/l



Manual Integration Results

RT: 6.45
Area: 9895
Amount: 0.897960
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:32:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

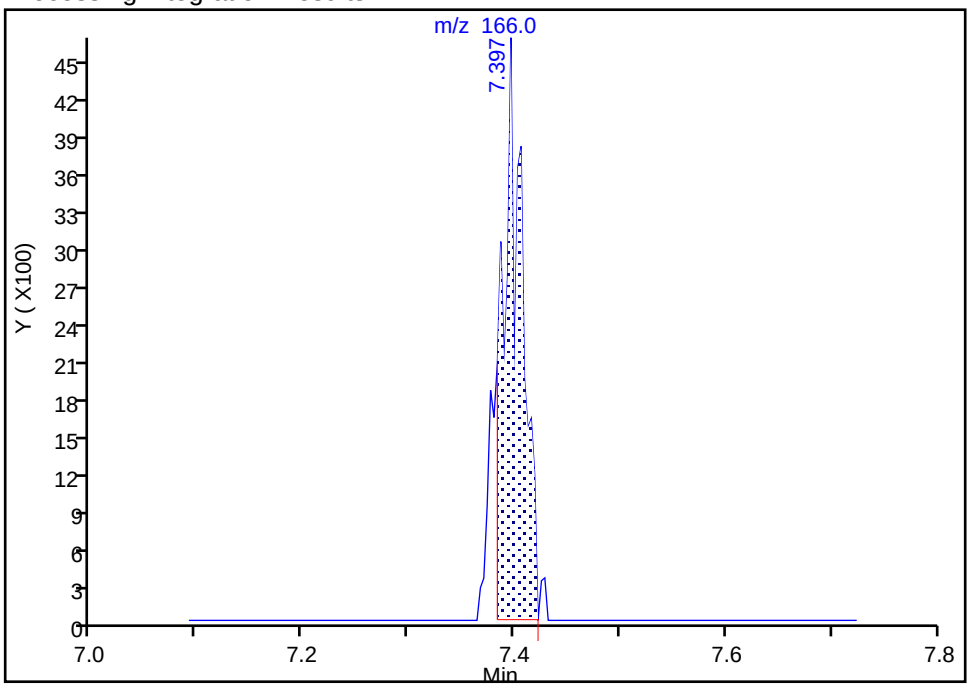
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

89 Tetrachloroethene, CAS: 127-18-4

Signal: 1

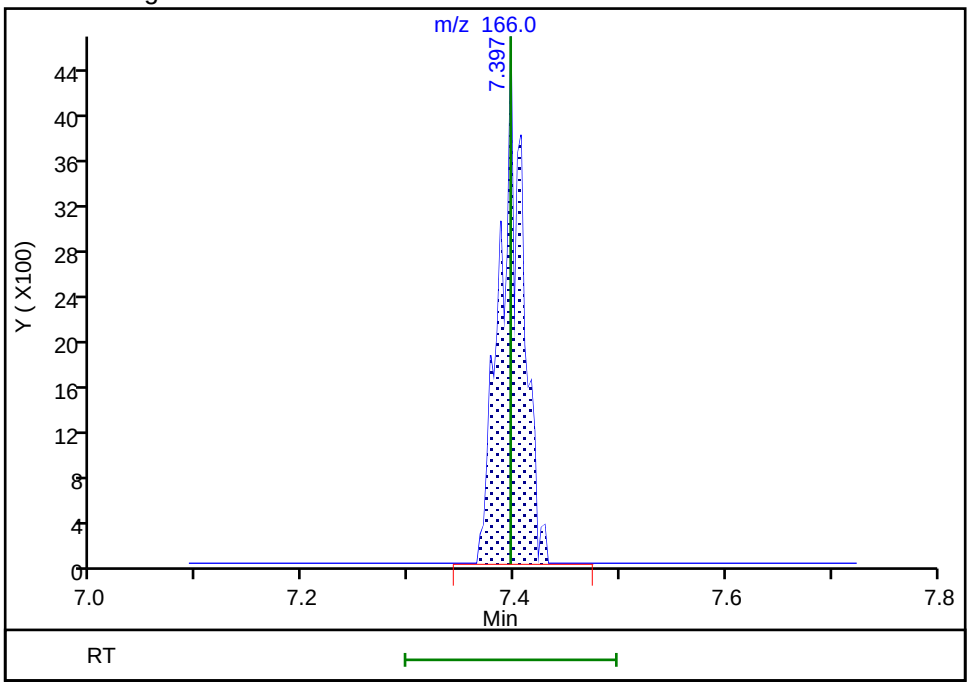
Processing Integration Results

RT: 7.40
Area: 5808
Amount: 0.814703
Amount Units: ug/l



Manual Integration Results

RT: 7.40
Area: 6894
Amount: 0.946442
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:32:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

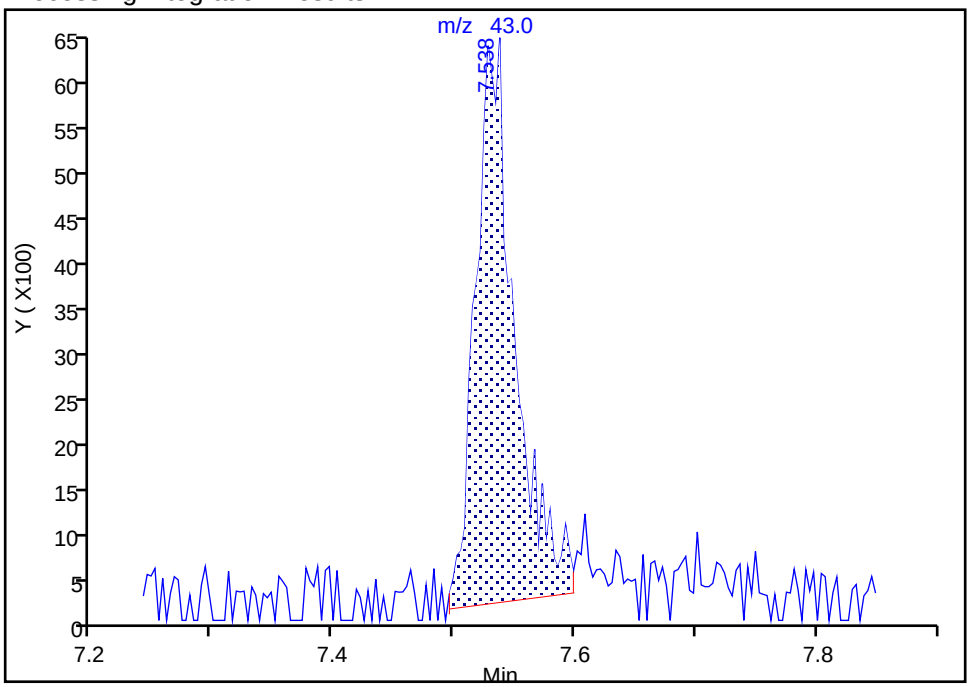
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

93 2-Hexanone, CAS: 591-78-6

Signal: 1

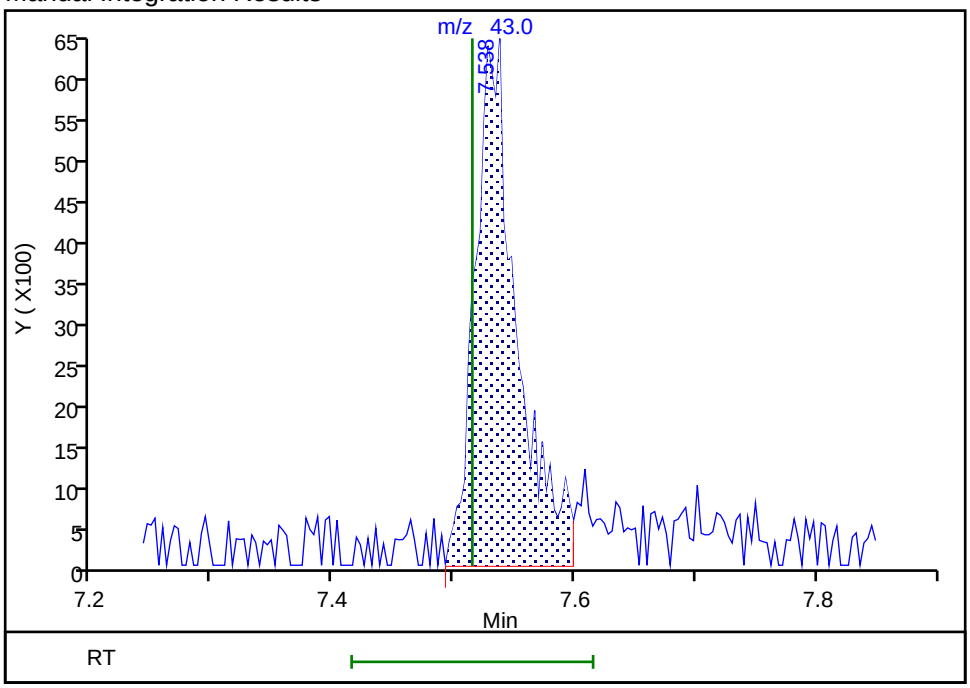
Processing Integration Results

RT: 7.54
Area: 14049
Amount: 1.670501
Amount Units: ug/l



Manual Integration Results

RT: 7.54
Area: 15394
Amount: 1.809755
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:32:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

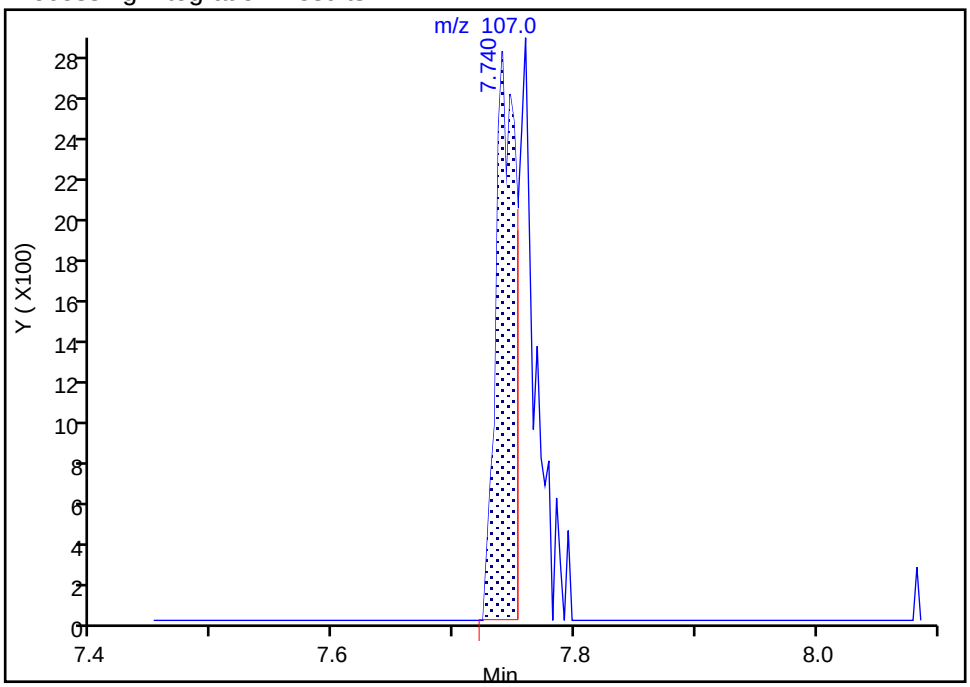
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

96 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

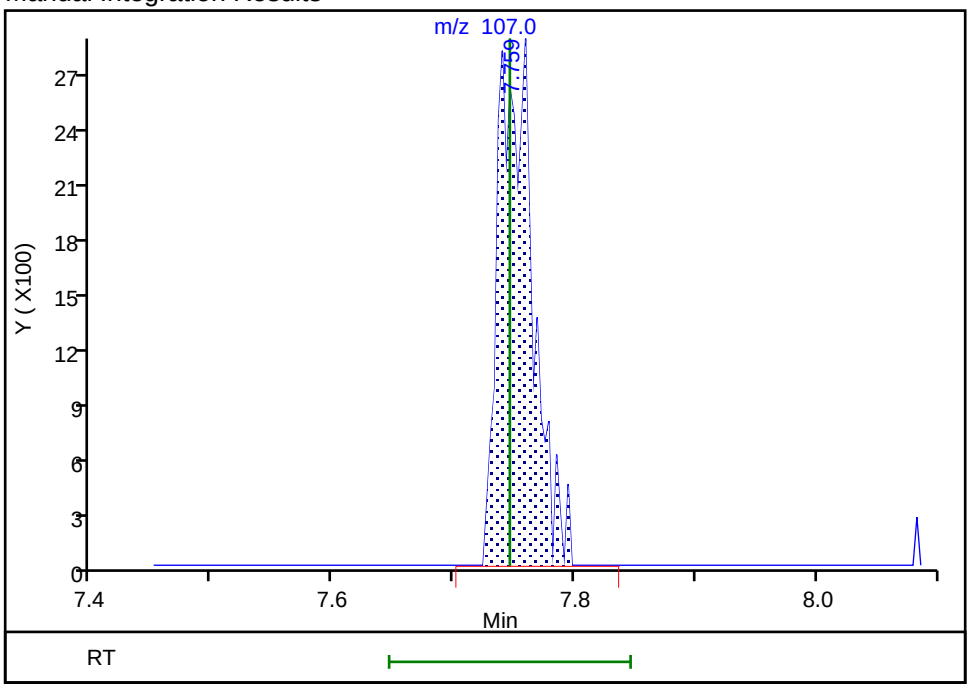
Processing Integration Results

RT: 7.74
Area: 3159
Amount: 0.985676
Amount Units: ug/l



Manual Integration Results

RT: 7.76
Area: 5663
Amount: 0.926883
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:33:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

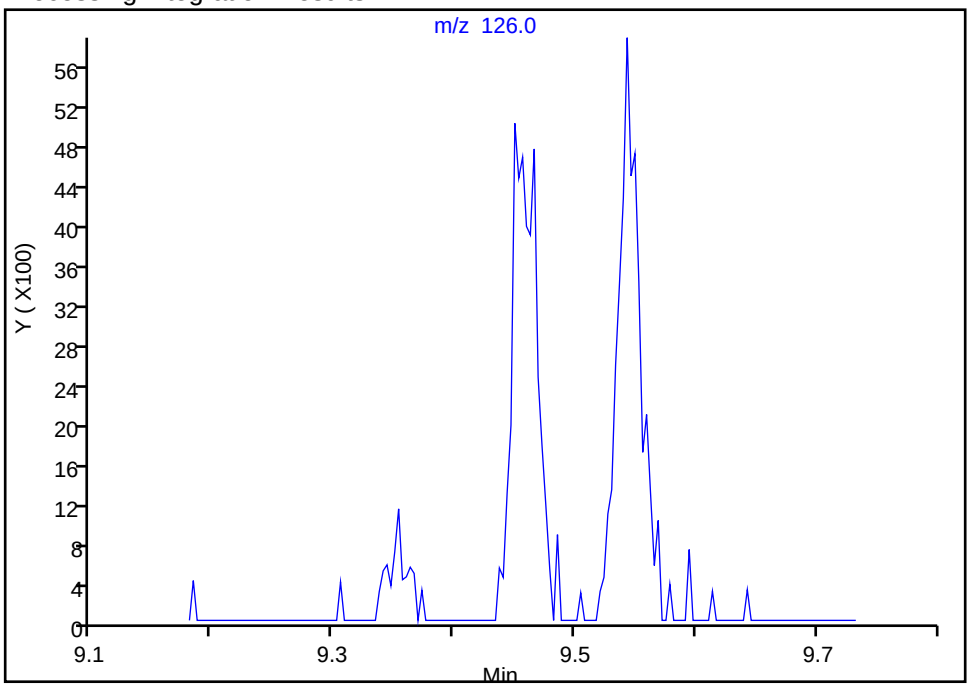
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D
Injection Date: 08-Mar-2023 21:27:30 Instrument ID: 9137
Lims ID: IC v1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

116 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

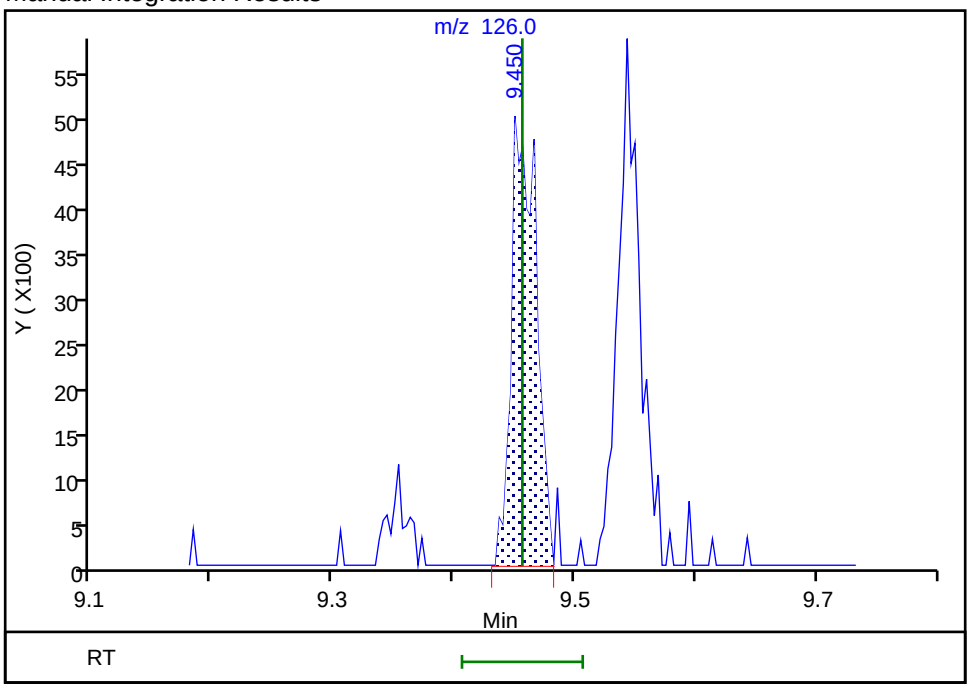
Not Detected
Expected RT: 9.46

Processing Integration Results



Manual Integration Results

RT: 9.45
Area: 7043
Amount: 0.863501
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:33:16
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

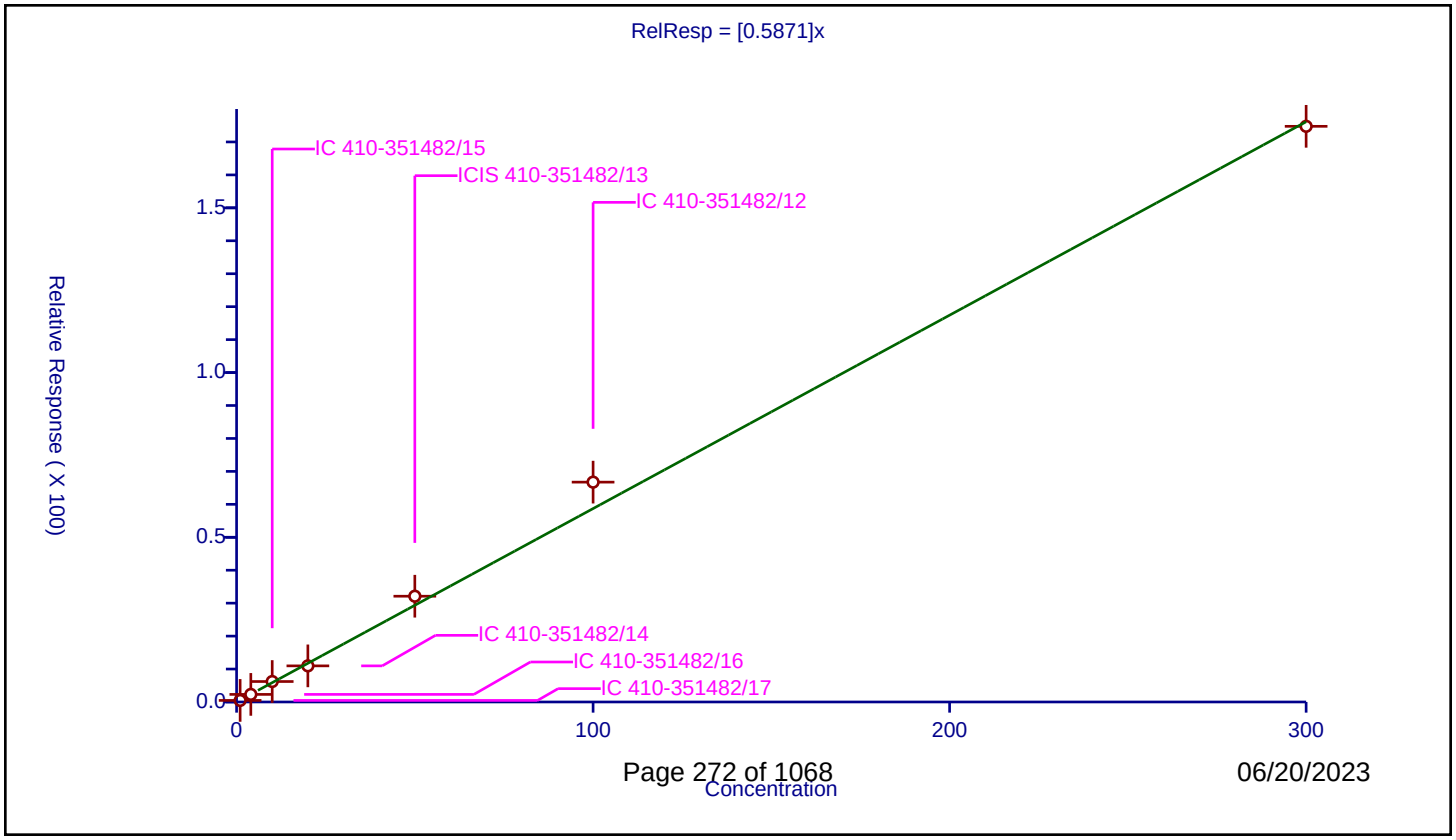
Curve Coefficients

Intercept:	0
Slope:	0.5871

Error Coefficients

Standard Error:	1880000
Relative Standard Error:	11.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.472042	50.0	1082424.0	0.472042	Y
2	IC 410-351482/16	4.0	2.304982	50.0	1086950.0	0.576245	Y
3	IC 410-351482/15	10.0	6.213301	50.0	1093187.0	0.62133	Y
4	IC 410-351482/14	20.0	10.961258	50.0	1154393.0	0.548063	Y
5	ICIS 410-351482/13	50.0	32.108985	50.0	1114062.0	0.64218	Y
6	IC 410-351482/12	100.0	66.734909	50.0	1149083.0	0.667349	Y
7	IC 410-351482/11	300.0	174.748438	50.0	1225643.0	0.582495	Y



06/20/2023

Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

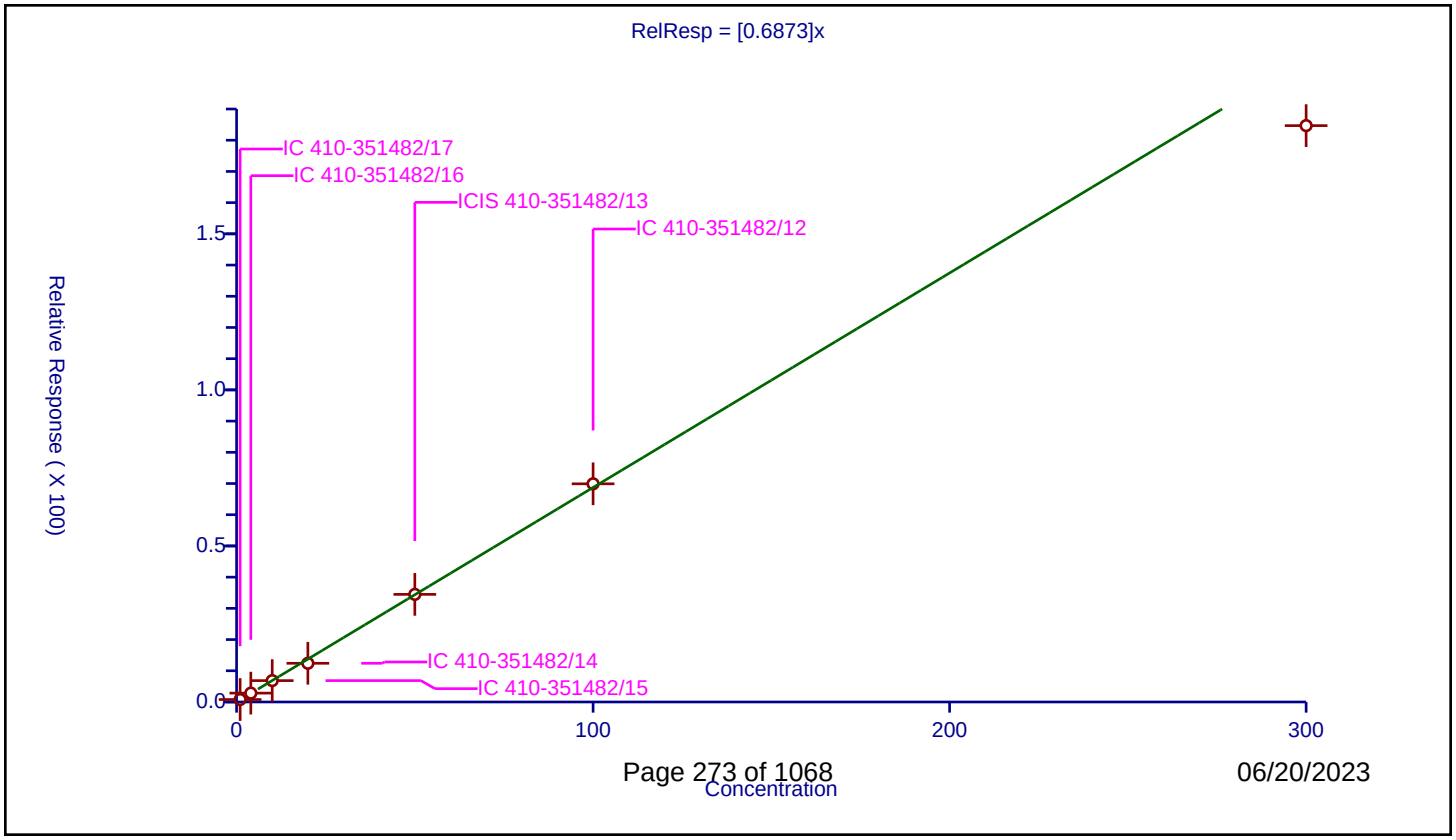
Curve Coefficients

Intercept:	0
Slope:	0.6873

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.792527	50.0	1082424.0	0.792527	Y
2	IC 410-351482/16	4.0	2.839183	50.0	1086950.0	0.709796	Y
3	IC 410-351482/15	10.0	6.844392	50.0	1093187.0	0.684439	Y
4	IC 410-351482/14	20.0	12.403272	50.0	1154393.0	0.620164	Y
5	ICIS 410-351482/13	50.0	34.480352	50.0	1114062.0	0.689607	Y
6	IC 410-351482/12	100.0	69.902914	50.0	1149083.0	0.699029	Y
7	IC 410-351482/11	300.0	184.673922	50.0	1225643.0	0.61558	Y



06/20/2023

Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

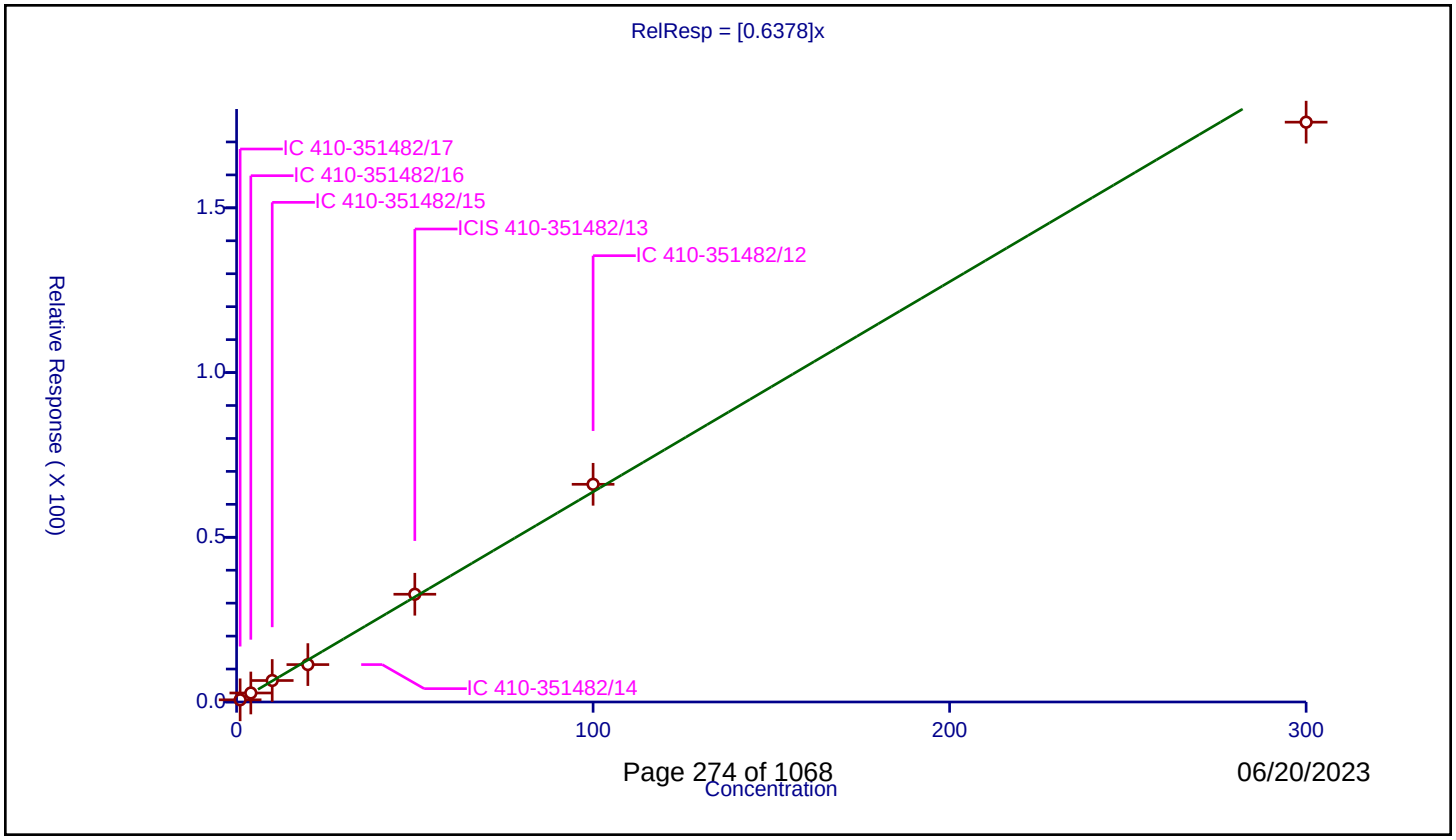
Curve Coefficients

Intercept:	0
Slope:	0.6378

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.66134	50.0	1082424.0	0.66134	Y
2	IC 410-351482/16	4.0	2.729196	50.0	1086950.0	0.682299	Y
3	IC 410-351482/15	10.0	6.520202	50.0	1093187.0	0.65202	Y
4	IC 410-351482/14	20.0	11.349861	50.0	1154393.0	0.567493	Y
5	ICIS 410-351482/13	50.0	32.709266	50.0	1114062.0	0.654185	Y
6	IC 410-351482/12	100.0	66.083564	50.0	1149083.0	0.660836	Y
7	IC 410-351482/11	300.0	176.012877	50.0	1225643.0	0.58671	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

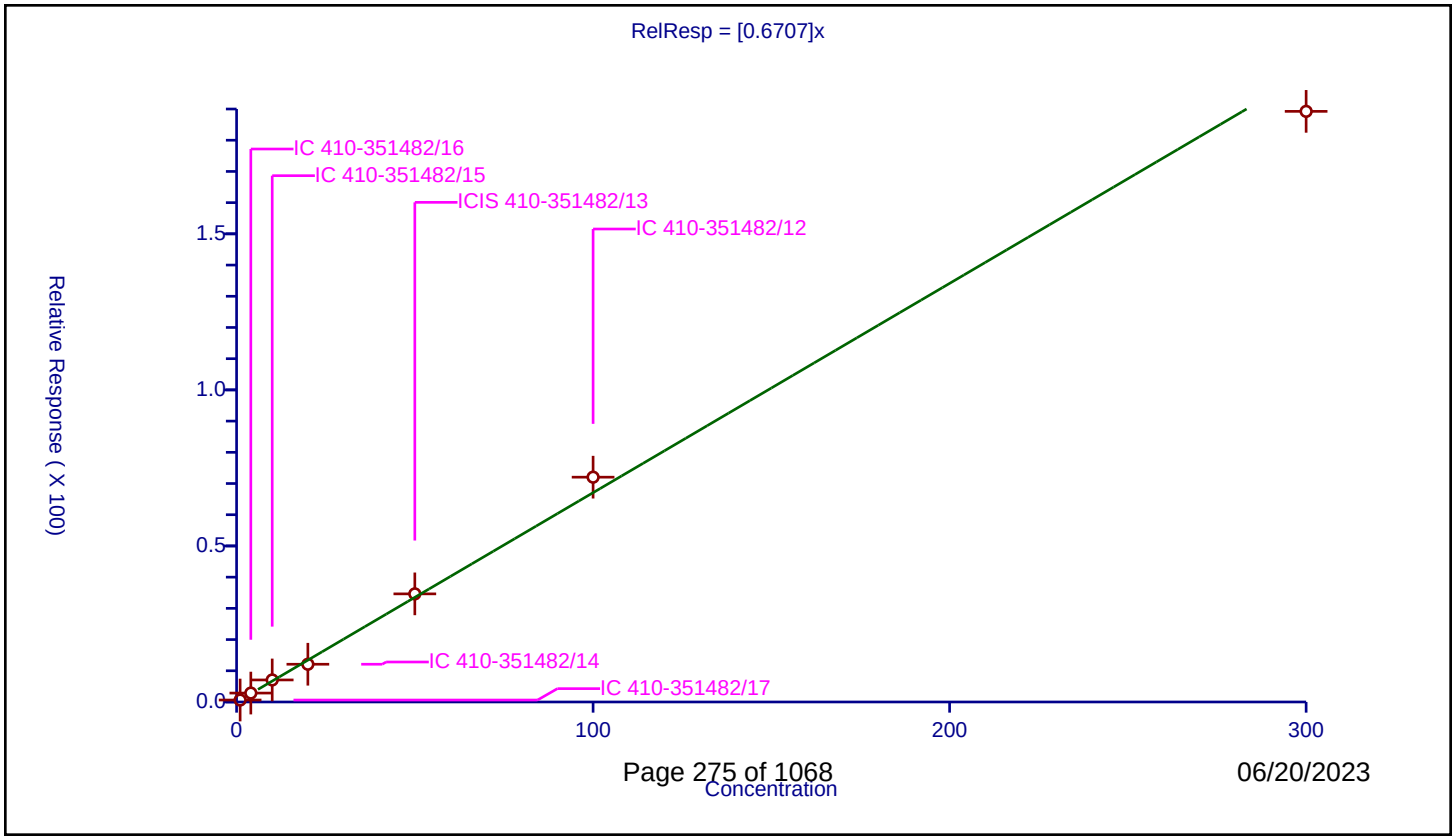
Curve Coefficients

Intercept:	0
Slope:	0.6707

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	7.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.624524	50.0	1082424.0	0.624524	Y
2	IC 410-351482/16	4.0	2.860711	50.0	1086950.0	0.715178	Y
3	IC 410-351482/15	10.0	7.058765	50.0	1093187.0	0.705876	Y
4	IC 410-351482/14	20.0	12.097786	50.0	1154393.0	0.604889	Y
5	ICIS 410-351482/13	50.0	34.645603	50.0	1114062.0	0.692912	Y
6	IC 410-351482/12	100.0	72.037834	50.0	1149083.0	0.720378	Y
7	IC 410-351482/11	300.0	189.250173	50.0	1225643.0	0.630834	Y



06/20/2023

Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

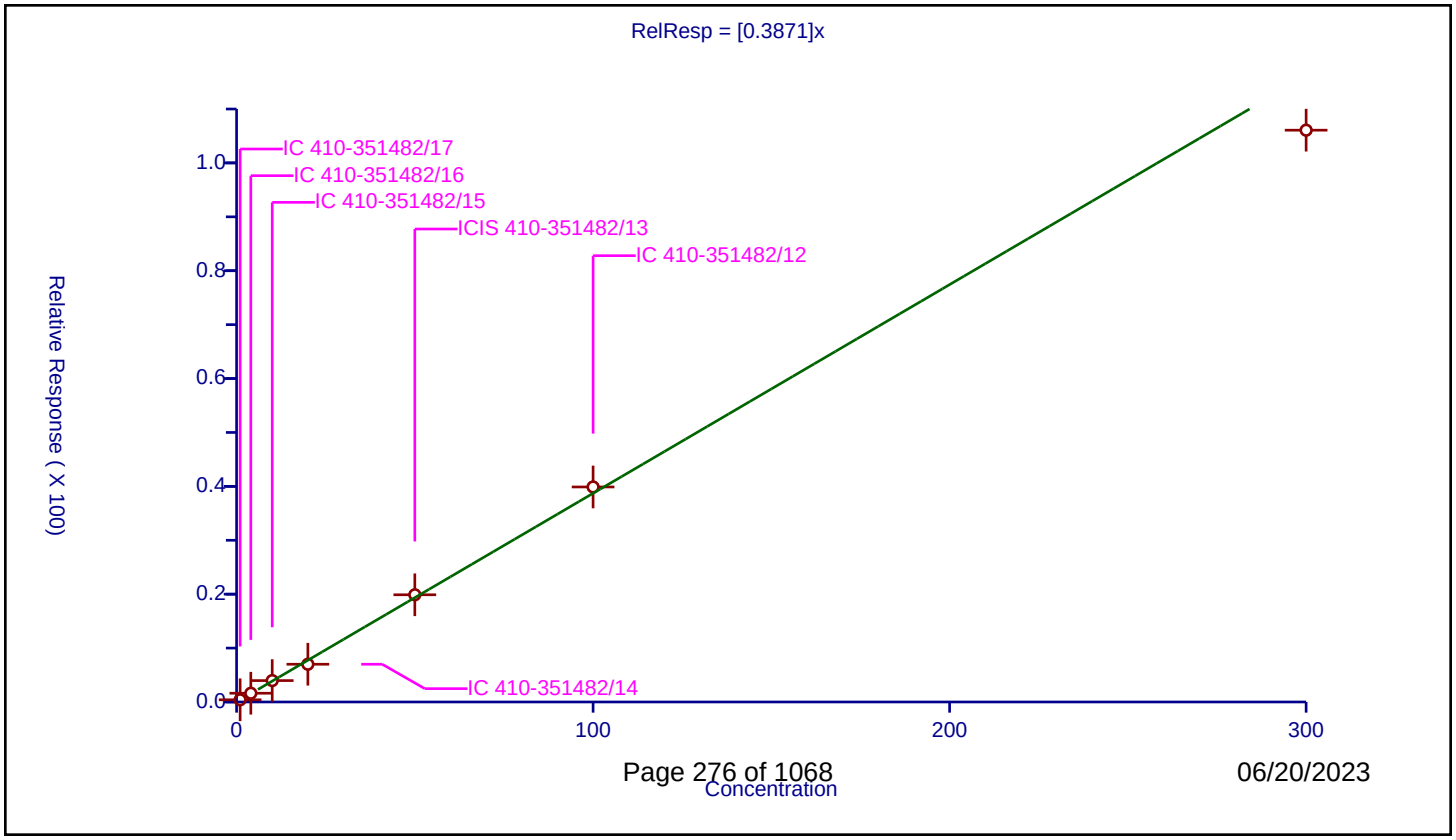
Curve Coefficients

Intercept:	0
Slope:	0.3871

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.406356	50.0	1082424.0	0.406356	Y
2	IC 410-351482/16	4.0	1.625236	50.0	1086950.0	0.406309	Y
3	IC 410-351482/15	10.0	3.970501	50.0	1093187.0	0.39705	Y
4	IC 410-351482/14	20.0	7.000519	50.0	1154393.0	0.350026	Y
5	ICIS 410-351482/13	50.0	19.889647	50.0	1114062.0	0.397793	Y
6	IC 410-351482/12	100.0	39.886892	50.0	1149083.0	0.398869	Y
7	IC 410-351482/11	300.0	106.073139	50.0	1225643.0	0.353577	Y



06/20/2023

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

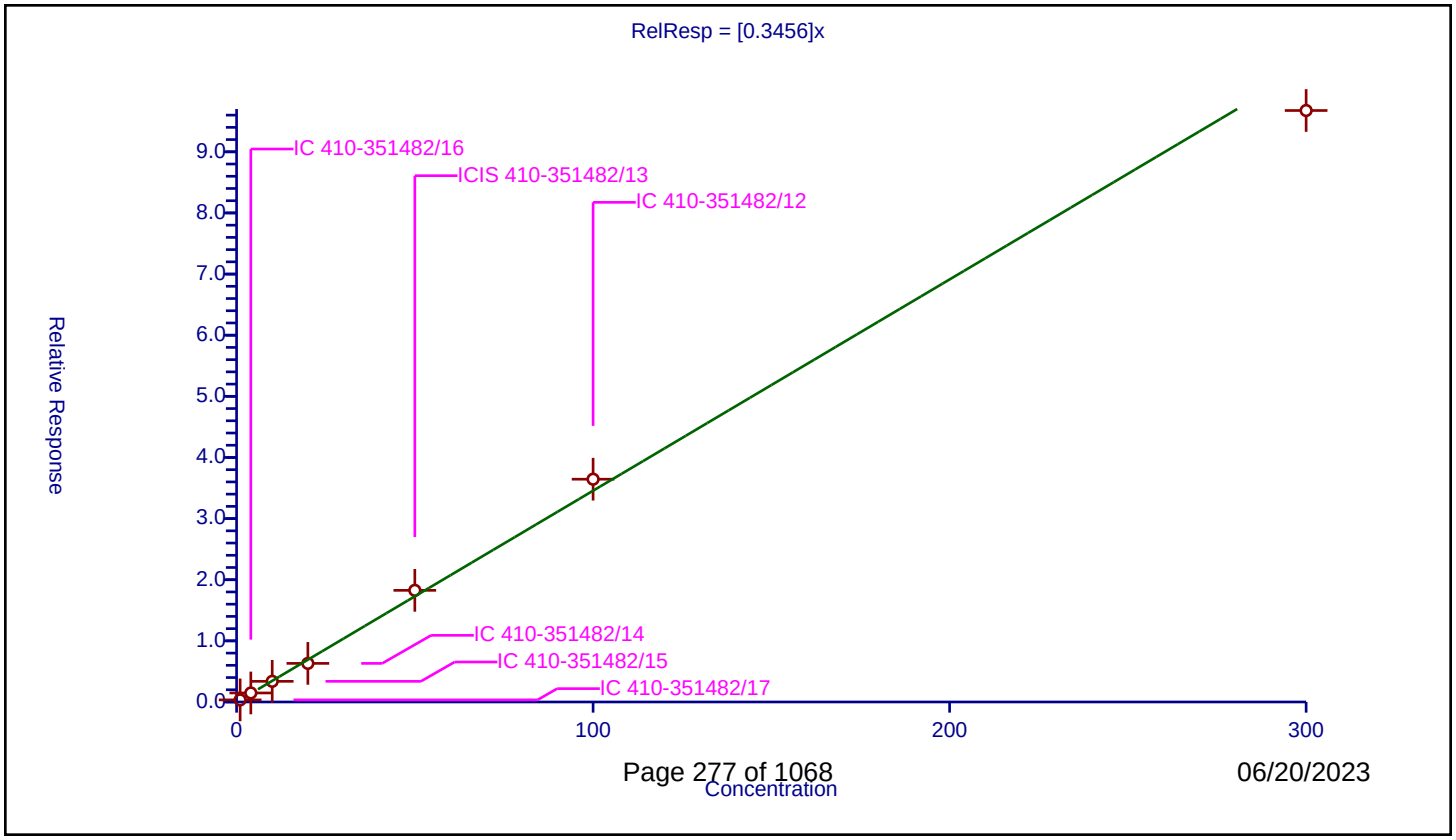
Curve Coefficients

Intercept:	0
Slope:	0.3456

Error Coefficients

Standard Error:	1040000
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	IC 410-351482/17	1.0	0.343719	50.0	1082424.0	0.343719	Y
2	IC 410-351482/16	4.0	1.478495	50.0	1086950.0	0.369624	Y
3	IC 410-351482/15	10.0	3.379157	50.0	1093187.0	0.337916	Y
4	IC 410-351482/14	20.0	6.316047	50.0	1154393.0	0.315802	Y
5	ICIS 410-351482/13	50.0	18.261147	50.0	1114062.0	0.365223	Y
6	IC 410-351482/12	100.0	36.444365	50.0	1149083.0	0.364444	Y
7	IC 410-351482/11	300.0	96.754194	50.0	1225643.0	0.322514	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

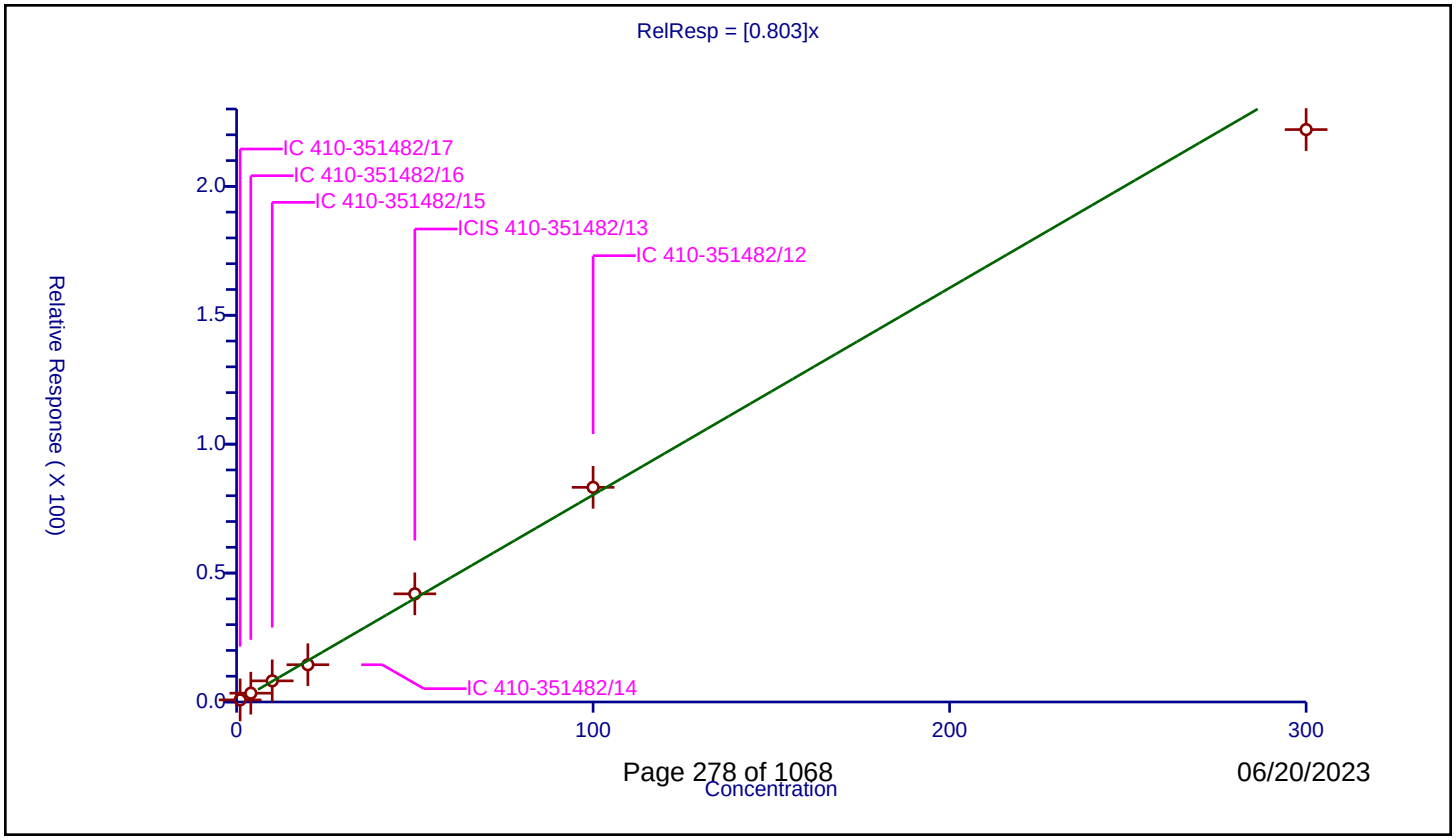
Curve Coefficients

Intercept:	0
Slope:	0.803

Error Coefficients

Standard Error:	2390000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.81299	50.0	1082424.0	0.81299	Y
2	IC 410-351482/16	4.0	3.416901	50.0	1086950.0	0.854225	Y
3	IC 410-351482/15	10.0	8.1991	50.0	1093187.0	0.81991	Y
4	IC 410-351482/14	20.0	14.450625	50.0	1154393.0	0.722531	Y
5	ICIS 410-351482/13	50.0	41.946319	50.0	1114062.0	0.838926	Y
6	IC 410-351482/12	100.0	83.257345	50.0	1149083.0	0.832573	Y
7	IC 410-351482/11	300.0	222.020605	50.0	1225643.0	0.740069	Y



06/20/2023

Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

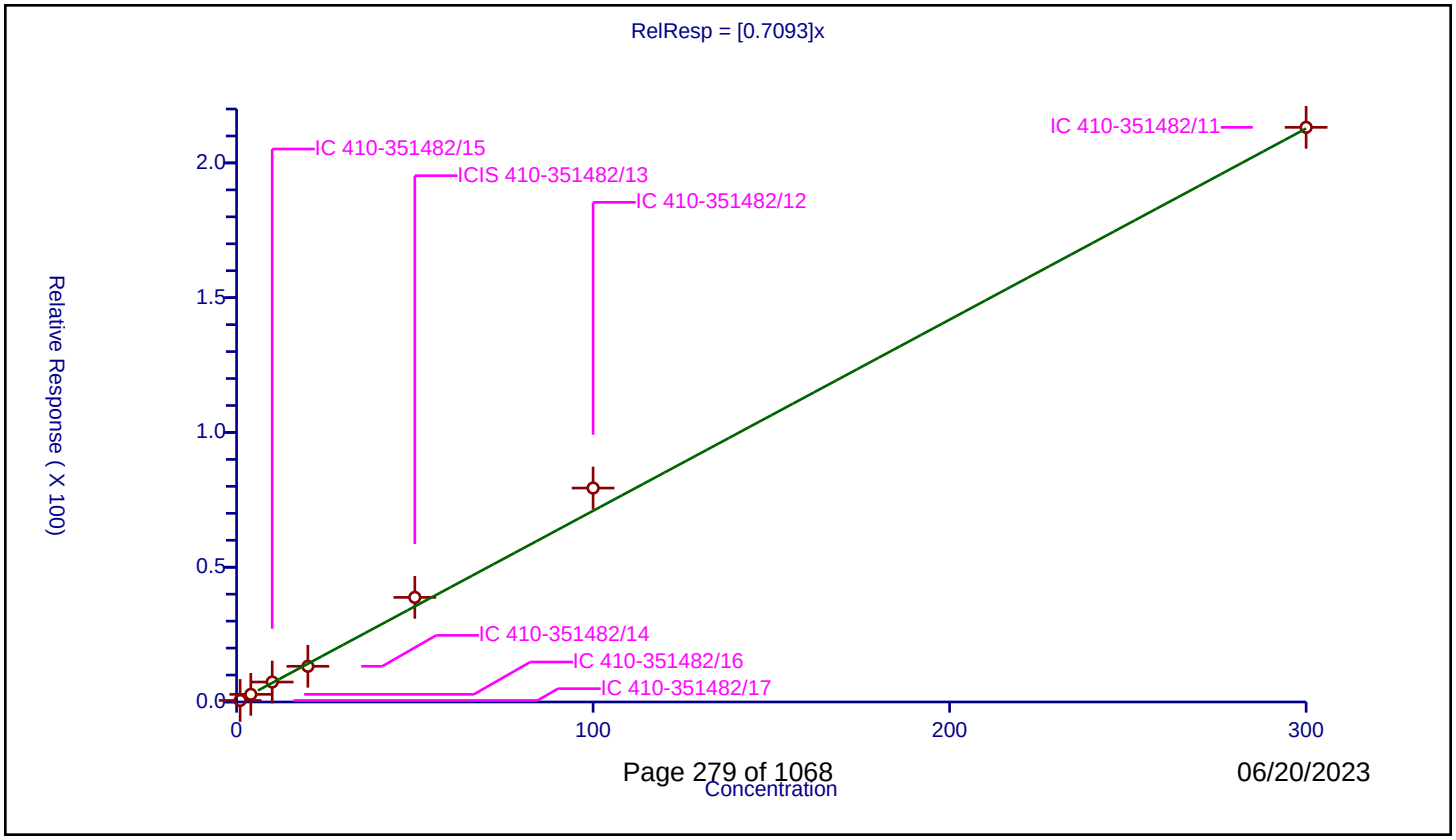
Curve Coefficients

Intercept:	0
Slope:	0.7093

Error Coefficients

Standard Error:	2290000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.573112	50.0	1082424.0	0.573112	Y
2	IC 410-351482/16	4.0	2.833479	50.0	1086950.0	0.70837	Y
3	IC 410-351482/15	10.0	7.406738	50.0	1093187.0	0.740674	Y
4	IC 410-351482/14	20.0	13.242111	50.0	1154393.0	0.662106	Y
5	ICIS 410-351482/13	50.0	38.804438	50.0	1114062.0	0.776089	Y
6	IC 410-351482/12	100.0	79.375554	50.0	1149083.0	0.793756	Y
7	IC 410-351482/11	300.0	213.199684	50.0	1225643.0	0.710666	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

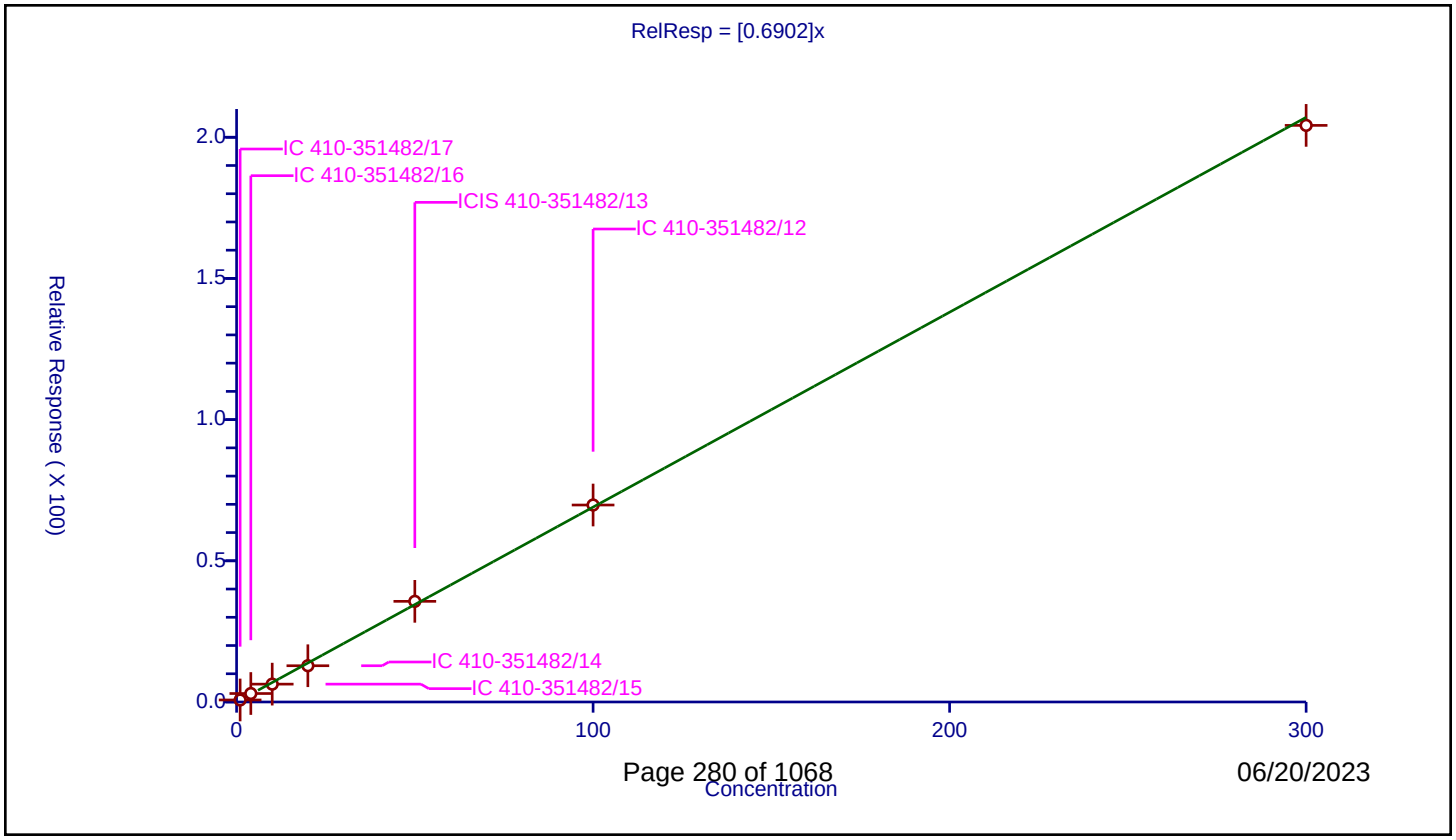
Curve Coefficients

Intercept:	0
Slope:	0.6902

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.717371	50.0	1082424.0	0.717371	Y
2	IC 410-351482/16	4.0	2.99448	50.0	1086950.0	0.74862	Y
3	IC 410-351482/15	10.0	6.320876	50.0	1093187.0	0.632088	Y
4	IC 410-351482/14	20.0	12.841251	50.0	1154393.0	0.642063	Y
5	ICIS 410-351482/13	50.0	35.641688	50.0	1114062.0	0.712834	Y
6	IC 410-351482/12	100.0	69.761888	50.0	1149083.0	0.697619	Y
7	IC 410-351482/11	300.0	204.201876	50.0	1225643.0	0.680673	Y



Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

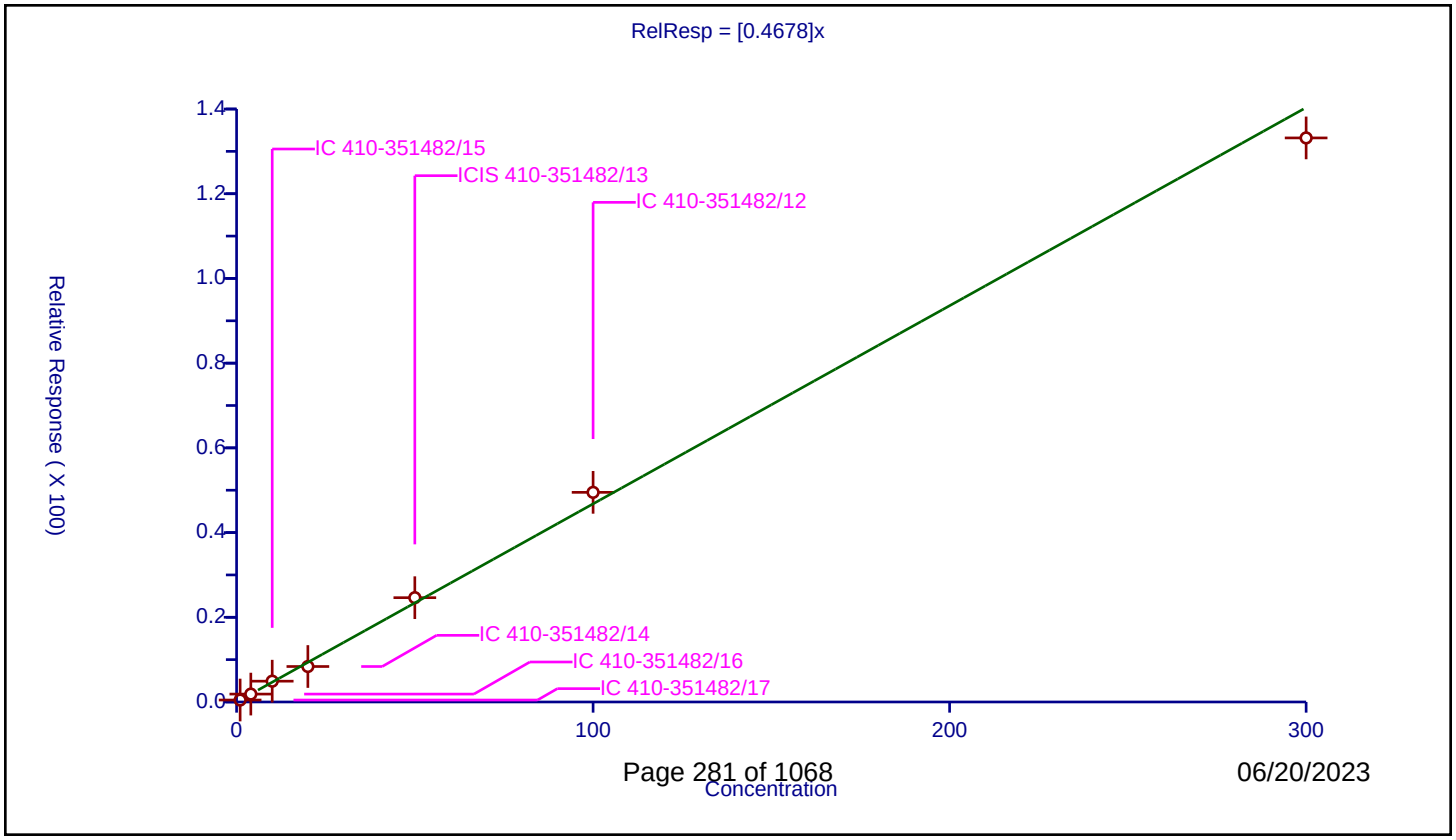
Curve Coefficients

Intercept:	0
Slope:	0.4678

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.465806	50.0	1082424.0	0.465806	Y
2	IC 410-351482/16	4.0	1.868393	50.0	1086950.0	0.467098	Y
3	IC 410-351482/15	10.0	4.914347	50.0	1093187.0	0.491435	Y
4	IC 410-351482/14	20.0	8.379252	50.0	1154393.0	0.418963	Y
5	ICIS 410-351482/13	50.0	24.624796	50.0	1114062.0	0.492496	Y
6	IC 410-351482/12	100.0	49.492856	50.0	1149083.0	0.494929	Y
7	IC 410-351482/11	300.0	133.177524	50.0	1225643.0	0.443925	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

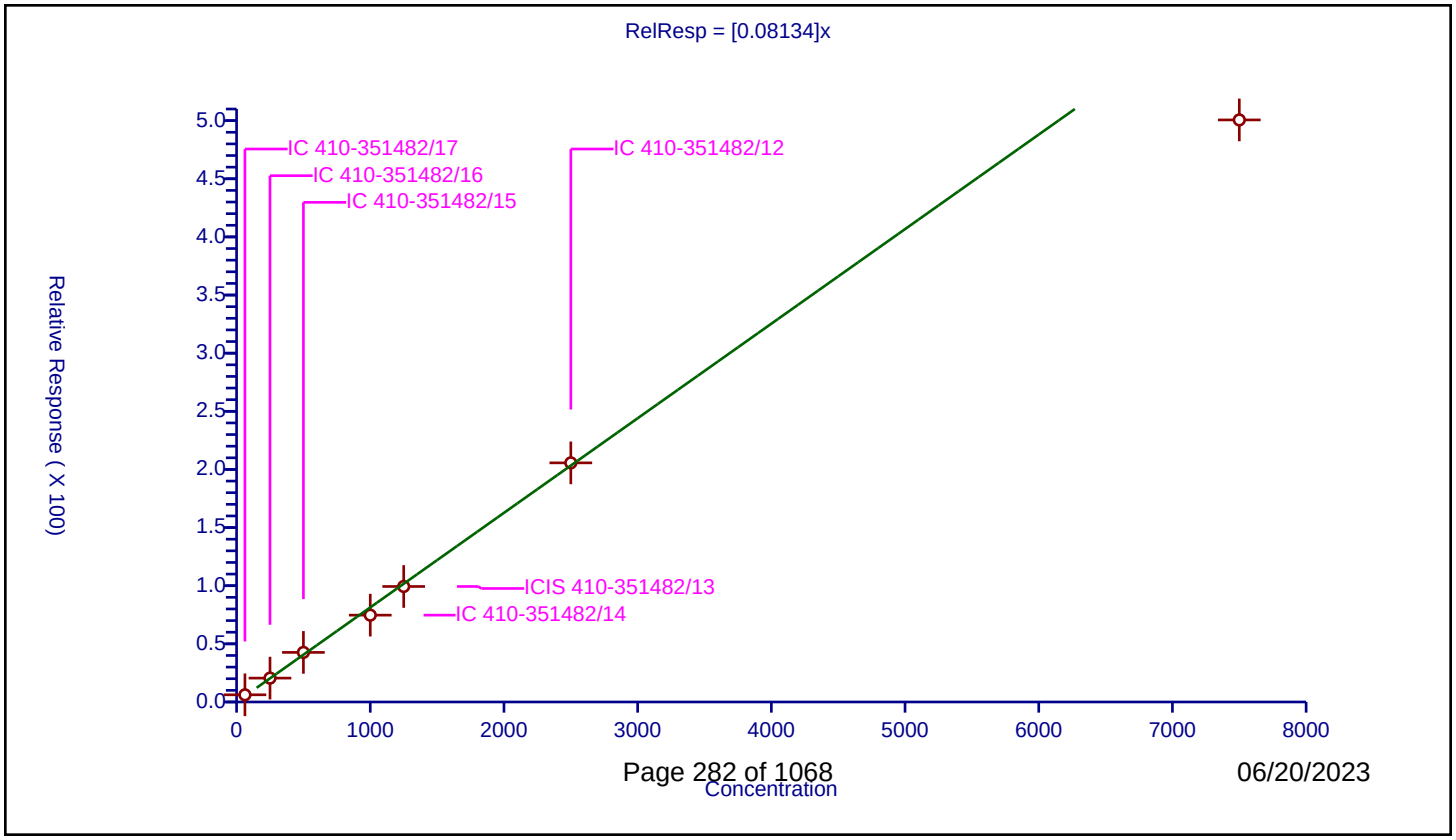
Curve Coefficients

Intercept:	0
Slope:	0.08134

Error Coefficients

Standard Error:	420000
Relative Standard Error:	12.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	62.50159	6.16943	250.0	430915.0	0.098708	Y
2	IC 410-351482/16	250.00636	20.547398	250.0	438036.0	0.082188	Y
3	IC 410-351482/15	500.01272	42.642082	250.0	446519.0	0.085282	Y
4	IC 410-351482/14	1000.02544	74.696627	250.0	476146.0	0.074695	Y
5	ICIS 410-351482/13	1250.0318	99.342442	250.0	463533.0	0.079472	Y
6	IC 410-351482/12	2500.0636	205.678715	250.0	463626.0	0.082269	Y
7	IC 410-351482/11	7500.1908	500.630162	250.0	461786.0	0.066749	Y



06/20/2023

Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

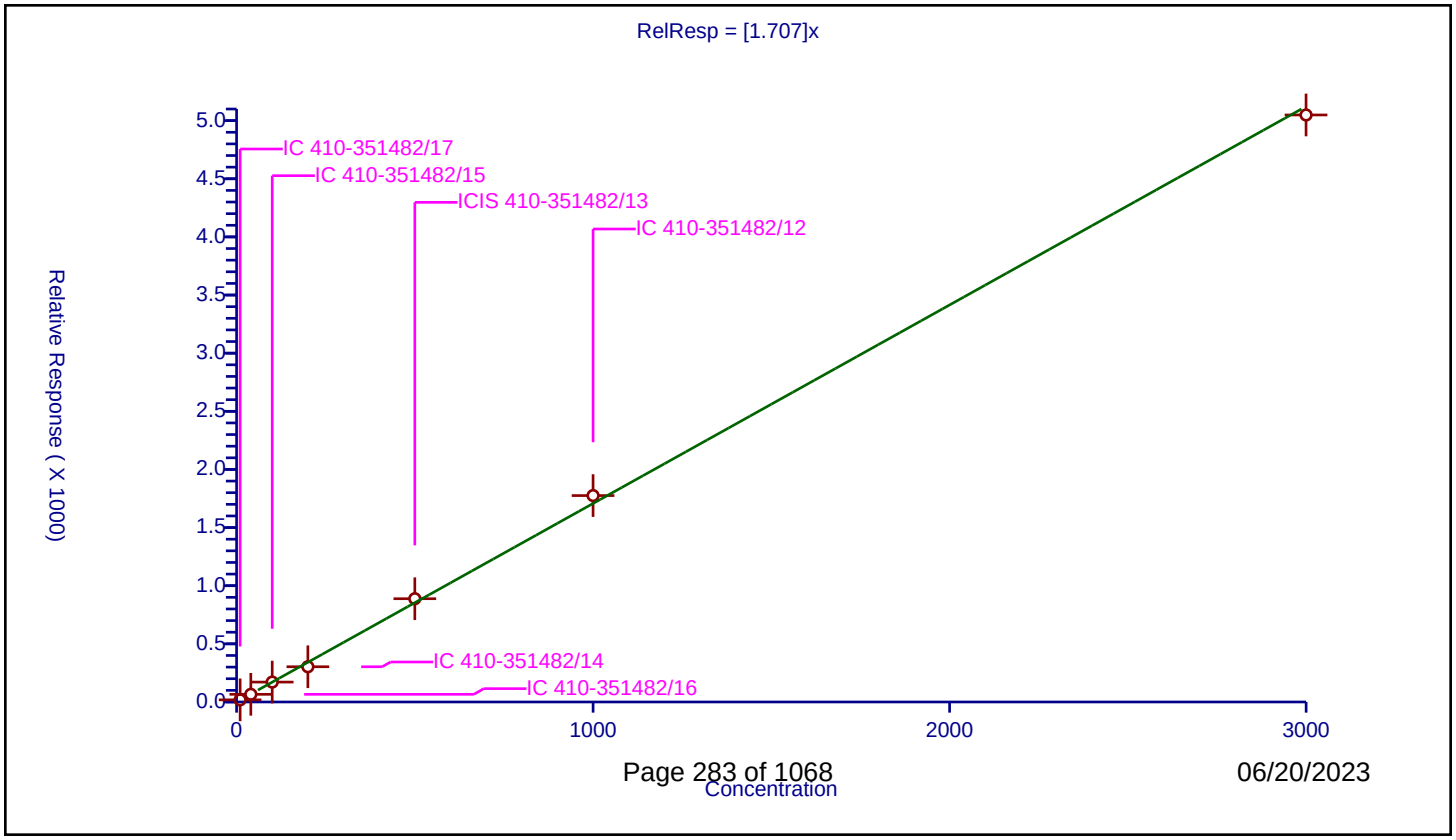
Curve Coefficients

Intercept:	0
Slope:	1.707

Error Coefficients

Standard Error:	4100000
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	IC 410-351482/17	9.999352	18.374854	250.0	430915.0	1.837604	Y
2	IC 410-351482/16	39.997407	66.0214	250.0	438036.0	1.650642	Y
3	IC 410-351482/15	99.993517	171.301781	250.0	446519.0	1.713129	Y
4	IC 410-351482/14	199.987035	303.140738	250.0	476146.0	1.515802	Y
5	ICIS 410-351482/13	499.967587	888.081323	250.0	463533.0	1.776278	Y
6	IC 410-351482/12	999.935173	1775.300566	250.0	463626.0	1.775416	Y
7	IC 410-351482/11	2999.80552	5048.754726	250.0	461786.0	1.683027	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

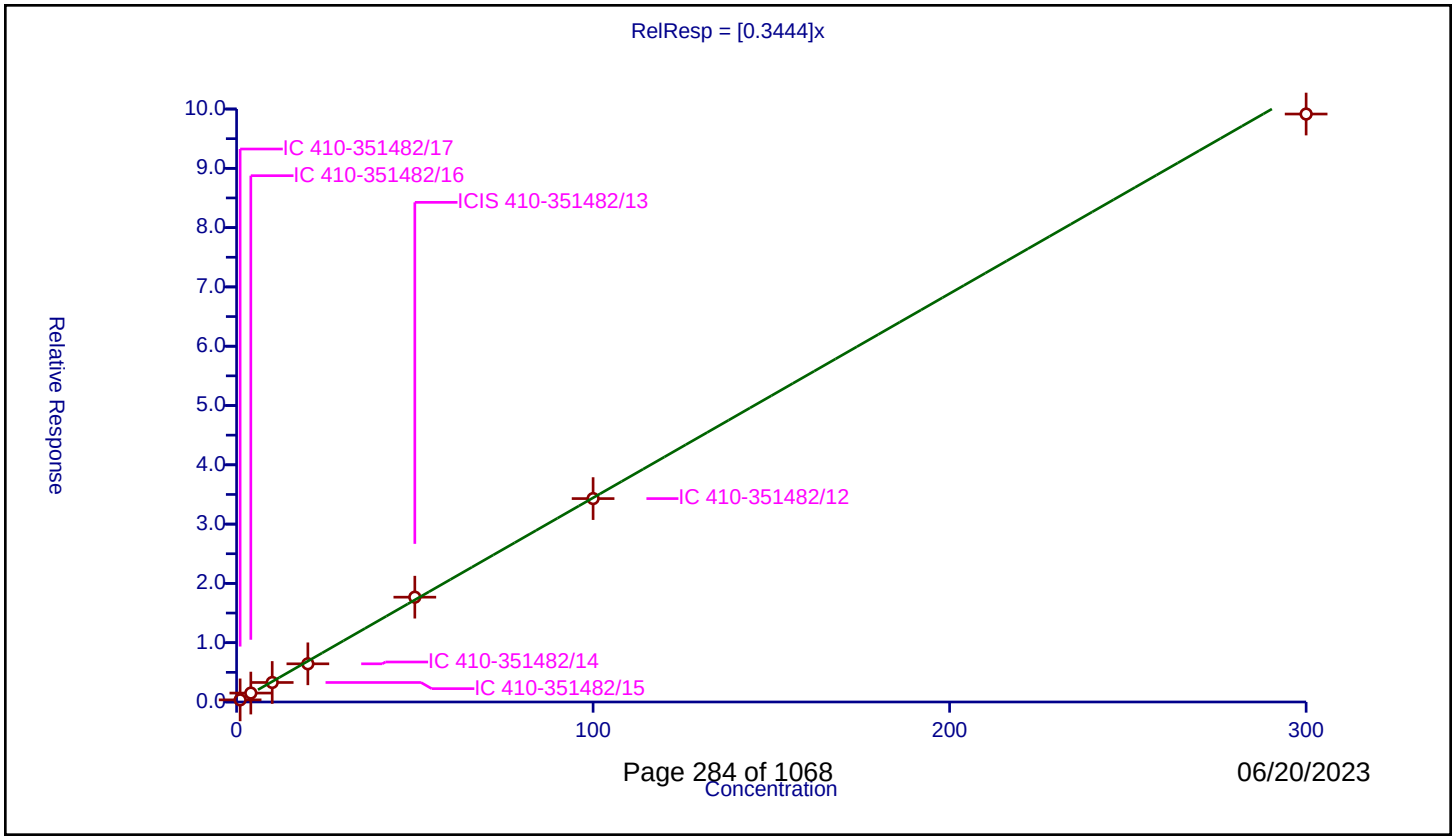
Curve Coefficients

Intercept:	0
Slope:	0.3444

Error Coefficients

Standard Error:	1060000
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	IC 410-351482/17	1.0	0.356376	50.0	1082424.0	0.356376	Y
2	IC 410-351482/16	4.0	1.506049	50.0	1086950.0	0.376512	Y
3	IC 410-351482/15	10.0	3.287498	50.0	1093187.0	0.32875	Y
4	IC 410-351482/14	20.0	6.435893	50.0	1154393.0	0.321795	Y
5	ICIS 410-351482/13	50.0	17.67469	50.0	1114062.0	0.353494	Y
6	IC 410-351482/12	100.0	34.301395	50.0	1149083.0	0.343014	Y
7	IC 410-351482/11	300.0	99.153465	50.0	1225643.0	0.330512	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

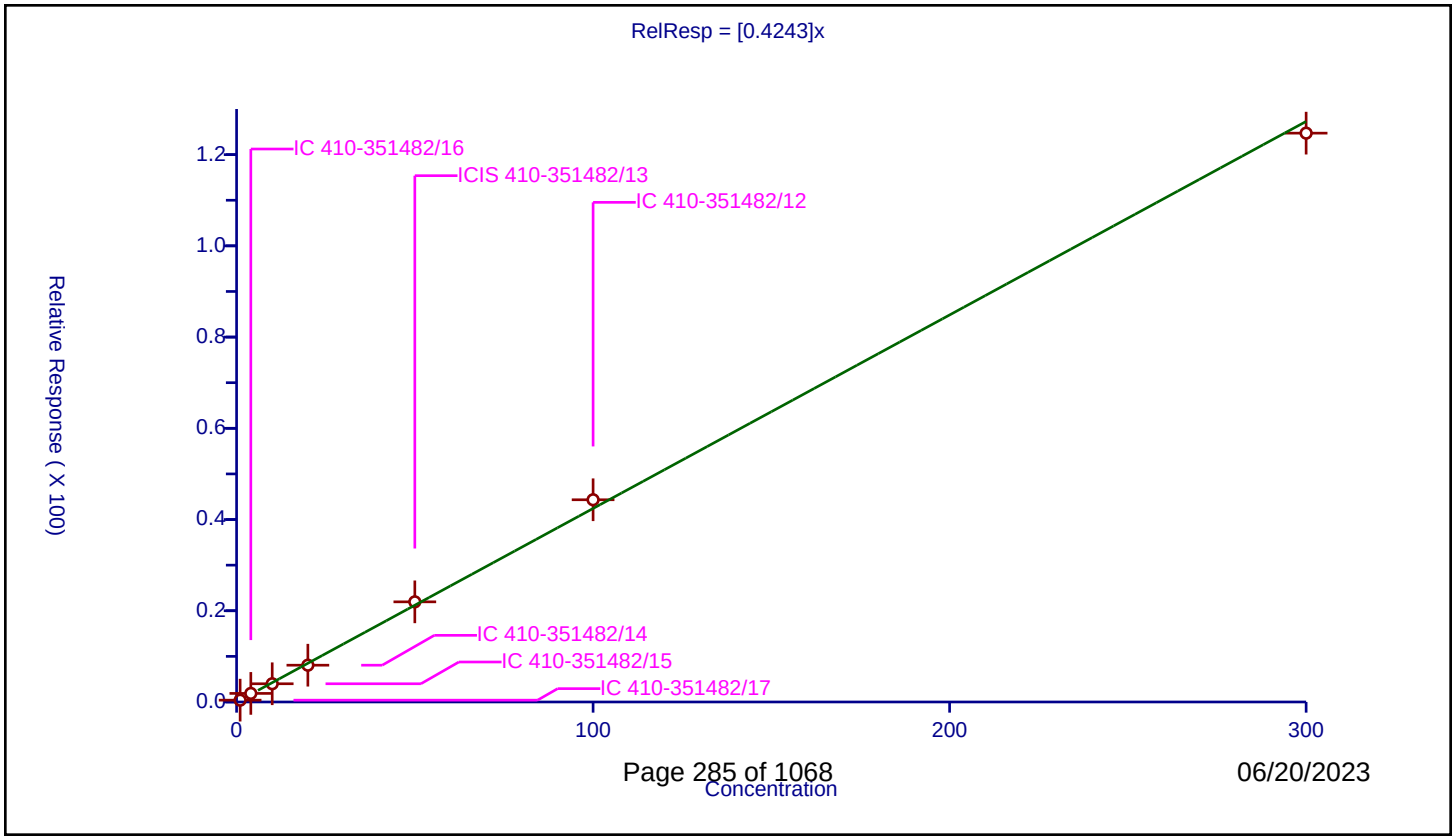
Curve Coefficients

Intercept:	0
Slope:	0.4243

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.398365	50.0	1082424.0	0.398365	Y
2	IC 410-351482/16	4.0	1.880859	50.0	1086950.0	0.470215	Y
3	IC 410-351482/15	10.0	3.996937	50.0	1093187.0	0.399694	Y
4	IC 410-351482/14	20.0	8.067053	50.0	1154393.0	0.403353	Y
5	ICIS 410-351482/13	50.0	21.957844	50.0	1114062.0	0.439157	Y
6	IC 410-351482/12	100.0	44.332959	50.0	1149083.0	0.44333	Y
7	IC 410-351482/11	300.0	124.709479	50.0	1225643.0	0.415698	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

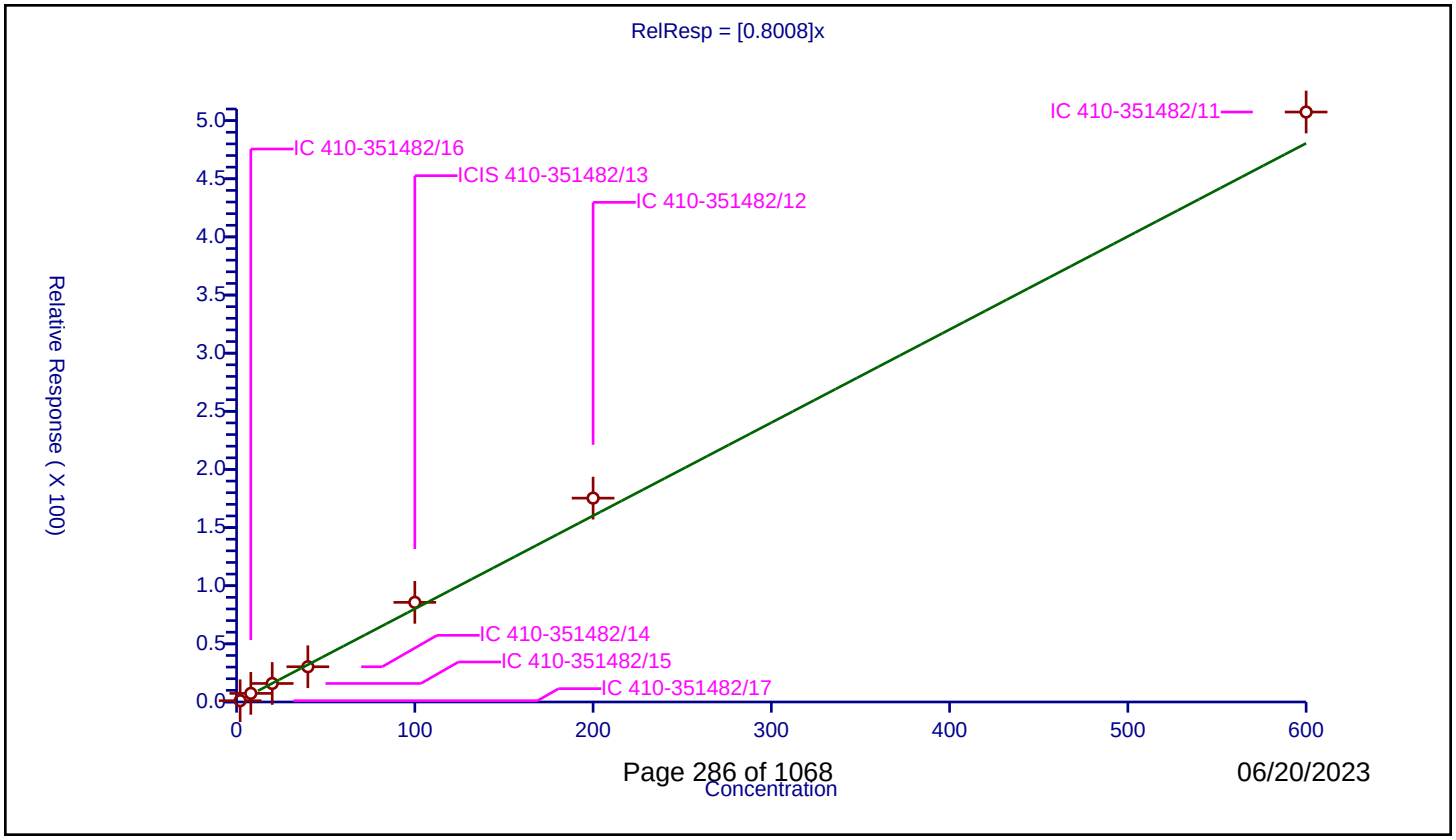
Curve Coefficients

Intercept:	0
Slope:	0.8008

Error Coefficients

Standard Error:	411000
Relative Standard Error:	15.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	2.0	1.091863	250.0	430915.0	0.545931	Y
2	IC 410-351482/16	8.0	7.405784	250.0	438036.0	0.925723	Y
3	IC 410-351482/15	20.0	15.939411	250.0	446519.0	0.796971	Y
4	IC 410-351482/14	40.0	30.316332	250.0	476146.0	0.757908	Y
5	ICIS 410-351482/13	100.0	85.692389	250.0	463533.0	0.856924	Y
6	IC 410-351482/12	200.0	175.324507	250.0	463626.0	0.876623	Y
7	IC 410-351482/11	600.0	507.409818	250.0	461786.0	0.845683	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

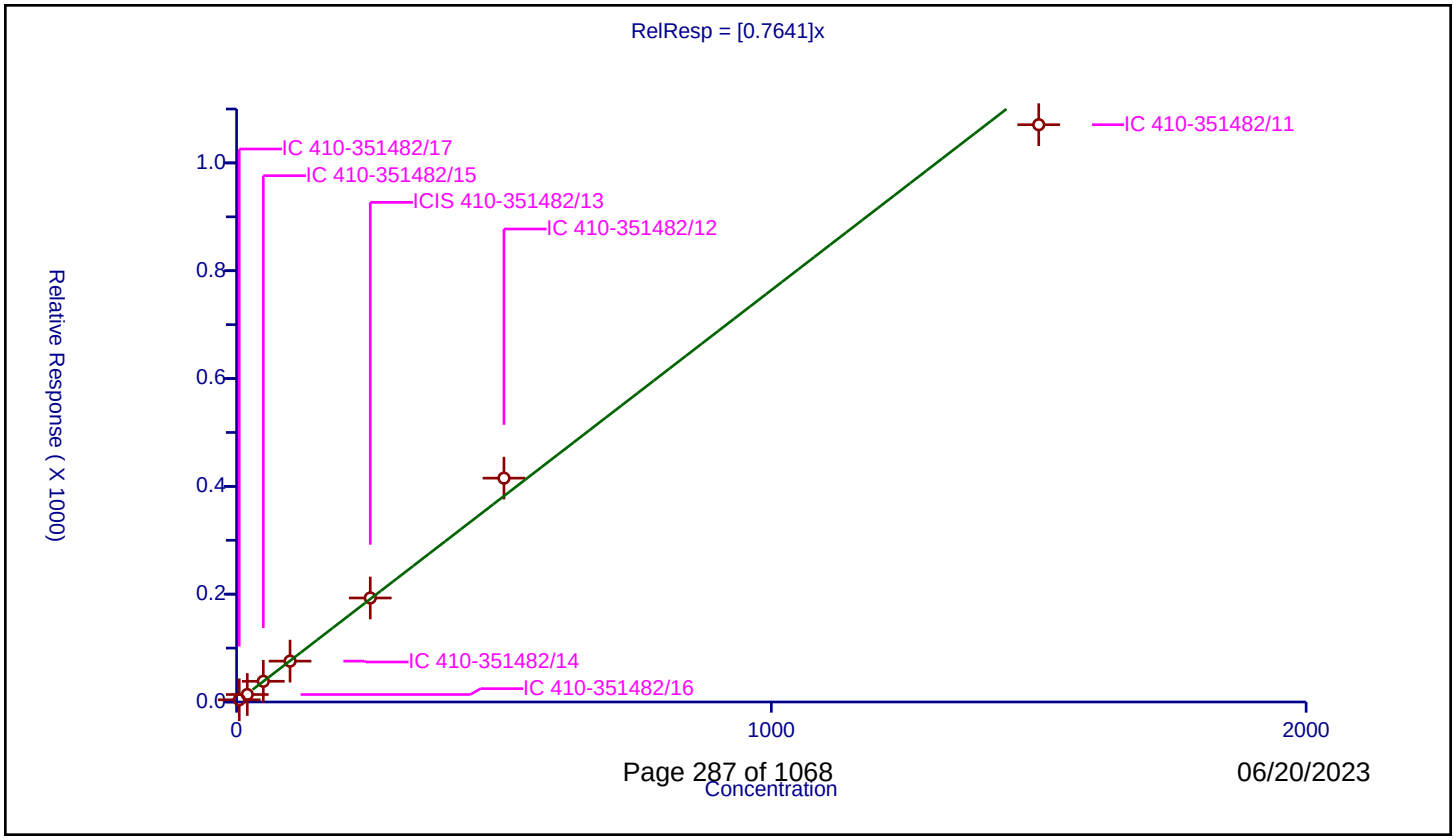
Curve Coefficients

Intercept:	0
Slope:	0.7641

Error Coefficients

Standard Error:	881000
Relative Standard Error:	6.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	5.0	4.065767	250.0	430915.0	0.813153	Y
2	IC 410-351482/16	20.0	13.863587	250.0	438036.0	0.693179	Y
3	IC 410-351482/15	50.0	38.393663	250.0	446519.0	0.767873	Y
4	IC 410-351482/14	100.0	75.790829	250.0	476146.0	0.757908	Y
5	ICIS 410-351482/13	250.0	192.956596	250.0	463533.0	0.771826	Y
6	IC 410-351482/12	500.0	415.245802	250.0	463626.0	0.830492	Y
7	IC 410-351482/11	1500.0	1070.893228	250.0	461786.0	0.713929	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

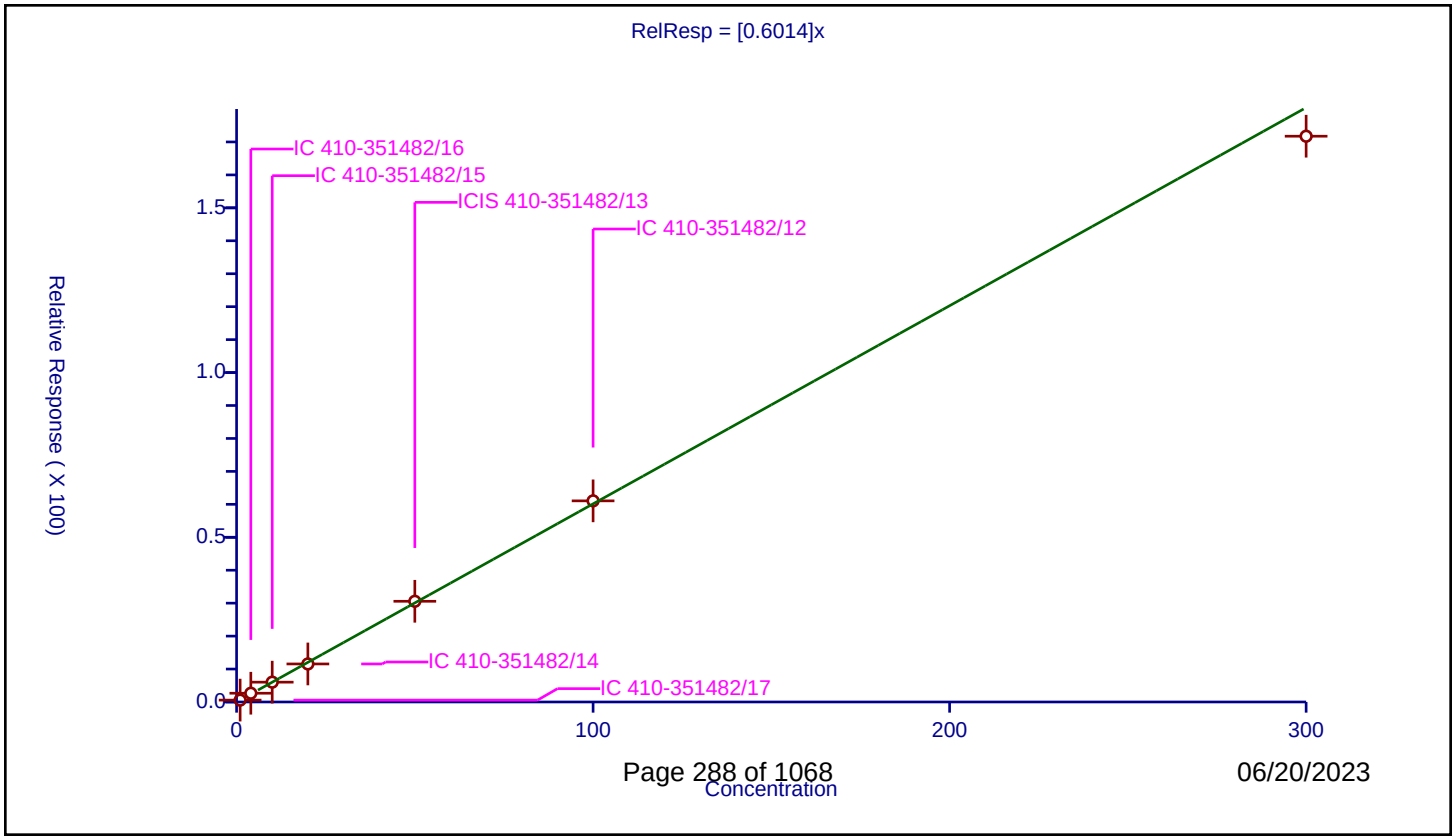
Curve Coefficients

Intercept:	0
Slope:	0.6014

Error Coefficients

Standard Error:	1840000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.571264	50.0	1082424.0	0.571264	Y
2	IC 410-351482/16	4.0	2.658448	50.0	1086950.0	0.664612	Y
3	IC 410-351482/15	10.0	6.021843	50.0	1093187.0	0.602184	Y
4	IC 410-351482/14	20.0	11.54806	50.0	1154393.0	0.577403	Y
5	ICIS 410-351482/13	50.0	30.572401	50.0	1114062.0	0.611448	Y
6	IC 410-351482/12	100.0	61.051726	50.0	1149083.0	0.610517	Y
7	IC 410-351482/11	300.0	171.743852	50.0	1225643.0	0.57248	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

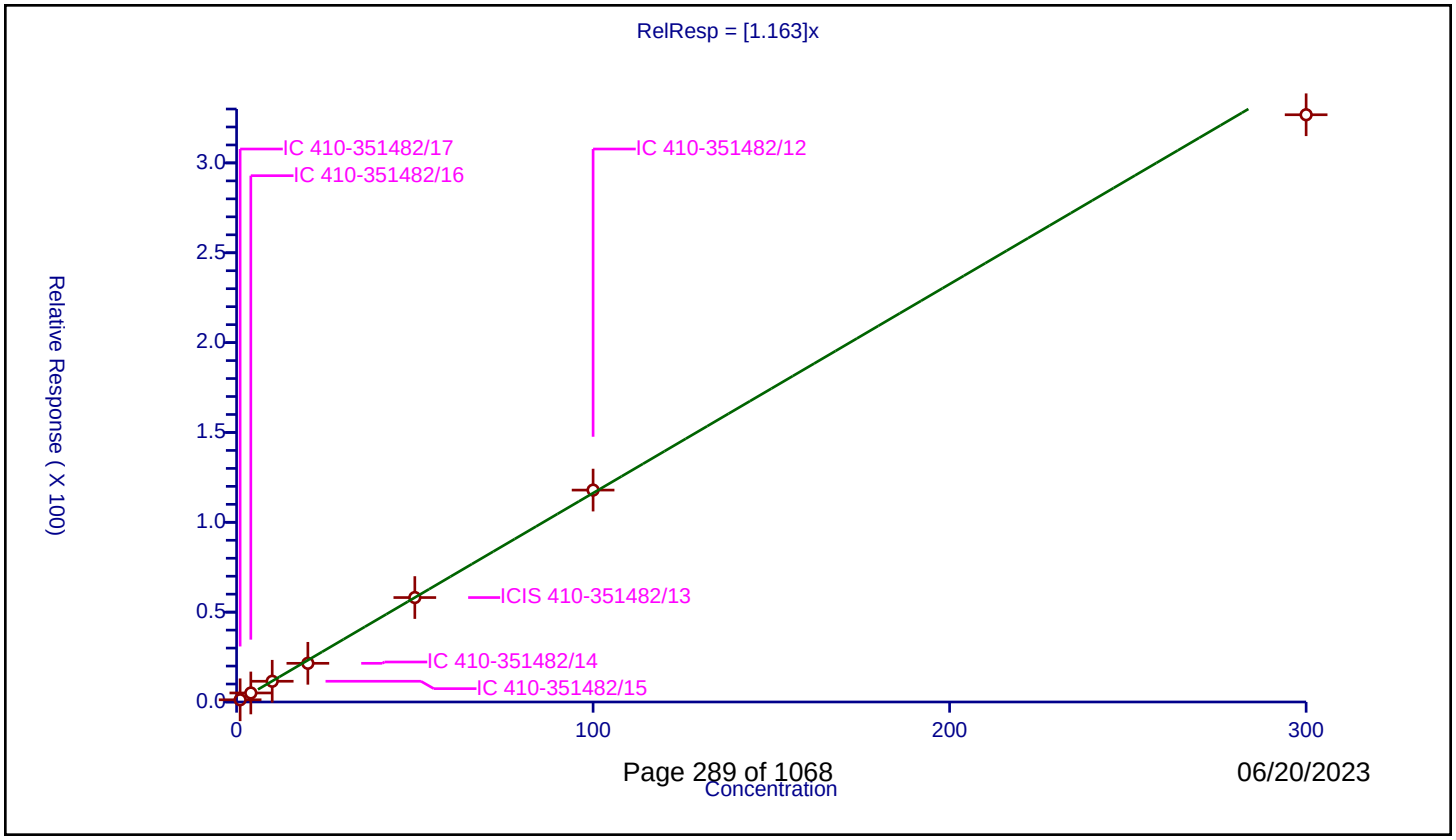
Curve Coefficients

Intercept:	0
Slope:	1.163

Error Coefficients

Standard Error:	3500000
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	IC 410-351482/17	1.0	1.224705	50.0	1082424.0	1.224705	Y
2	IC 410-351482/16	4.0	5.015962	50.0	1086950.0	1.253991	Y
3	IC 410-351482/15	10.0	11.534852	50.0	1093187.0	1.153485	Y
4	IC 410-351482/14	20.0	21.519968	50.0	1154393.0	1.075998	Y
5	ICIS 410-351482/13	50.0	58.122169	50.0	1114062.0	1.162443	Y
6	IC 410-351482/12	100.0	117.929514	50.0	1149083.0	1.179295	Y
7	IC 410-351482/11	300.0	326.805726	50.0	1225643.0	1.089352	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

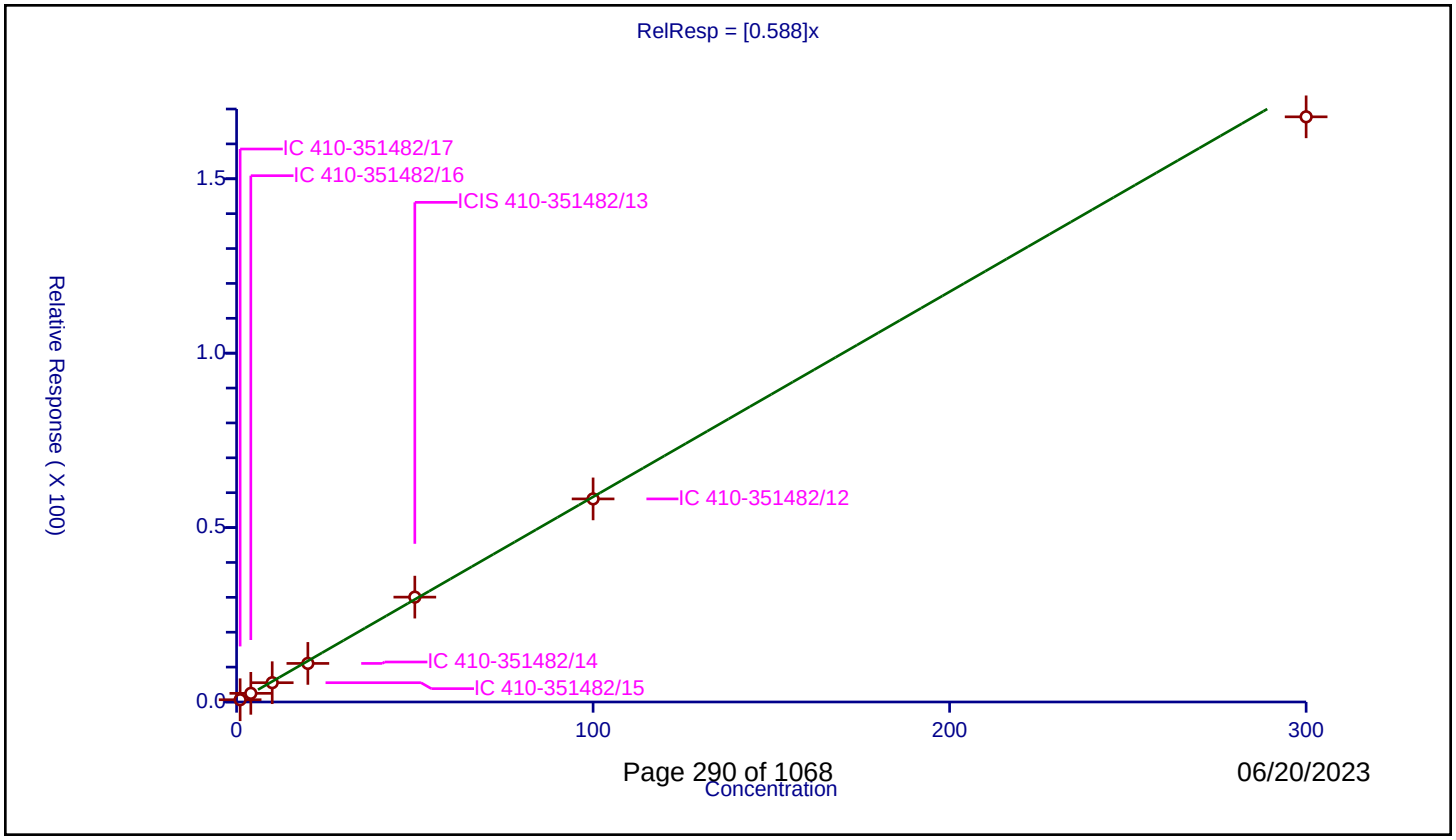
Curve Coefficients

Intercept:	0
Slope:	0.588

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.647528	50.0	1082424.0	0.647528	Y
2	IC 410-351482/16	4.0	2.479507	50.0	1086950.0	0.619877	Y
3	IC 410-351482/15	10.0	5.533408	50.0	1093187.0	0.553341	Y
4	IC 410-351482/14	20.0	11.05698	50.0	1154393.0	0.552849	Y
5	ICIS 410-351482/13	50.0	30.062869	50.0	1114062.0	0.601257	Y
6	IC 410-351482/12	100.0	58.223688	50.0	1149083.0	0.582237	Y
7	IC 410-351482/11	300.0	167.761575	50.0	1225643.0	0.559205	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

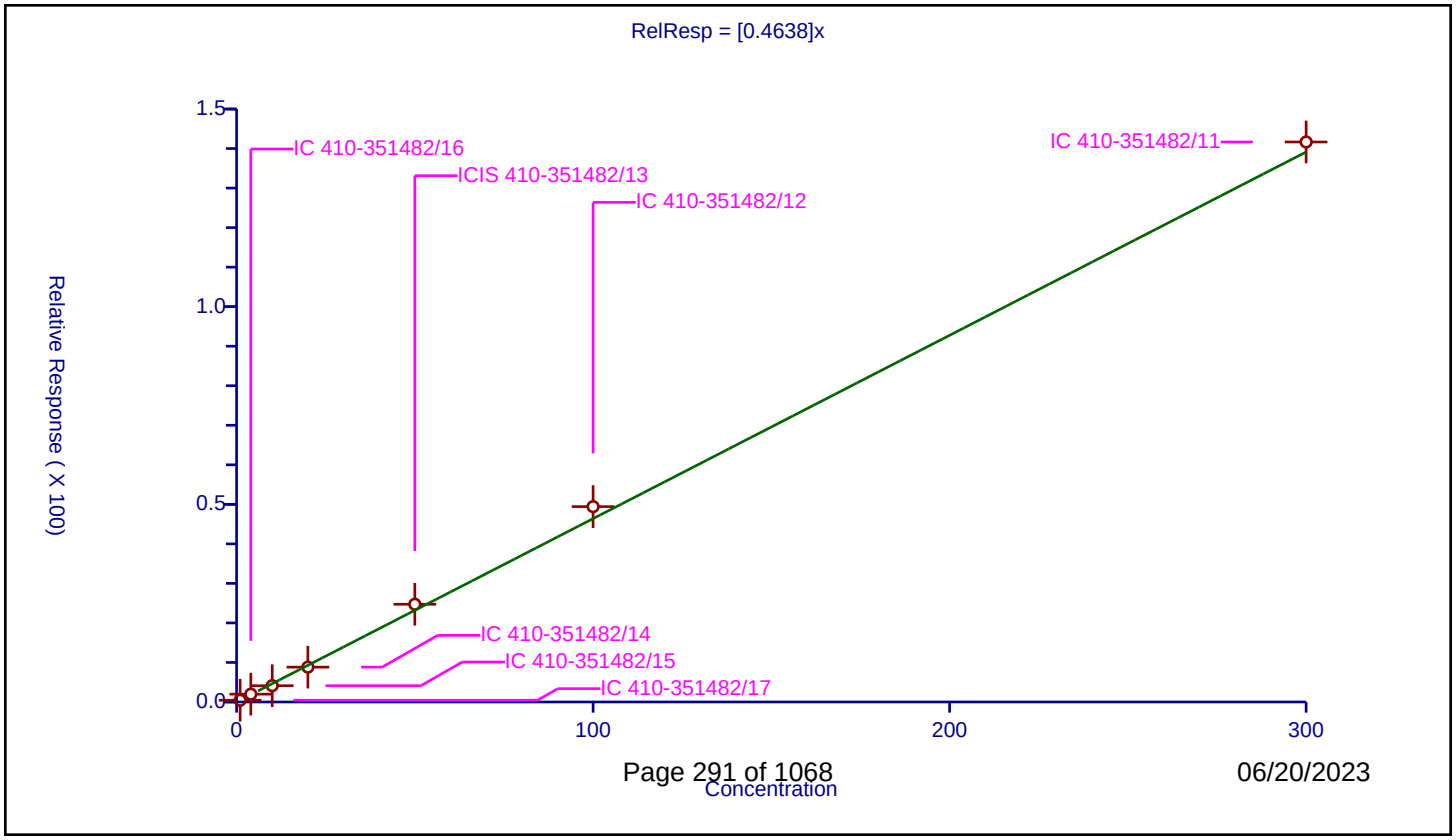
Curve Coefficients

Intercept:	0
Slope:	0.4638

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.438691	50.0	1082424.0	0.438691	Y
2	IC 410-351482/16	4.0	1.977368	50.0	1086950.0	0.494342	Y
3	IC 410-351482/15	10.0	4.118188	50.0	1093187.0	0.411819	Y
4	IC 410-351482/14	20.0	8.81264	50.0	1154393.0	0.440632	Y
5	ICIS 410-351482/13	50.0	24.721515	50.0	1114062.0	0.49443	Y
6	IC 410-351482/12	100.0	49.424759	50.0	1149083.0	0.494248	Y
7	IC 410-351482/11	300.0	141.661805	50.0	1225643.0	0.472206	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

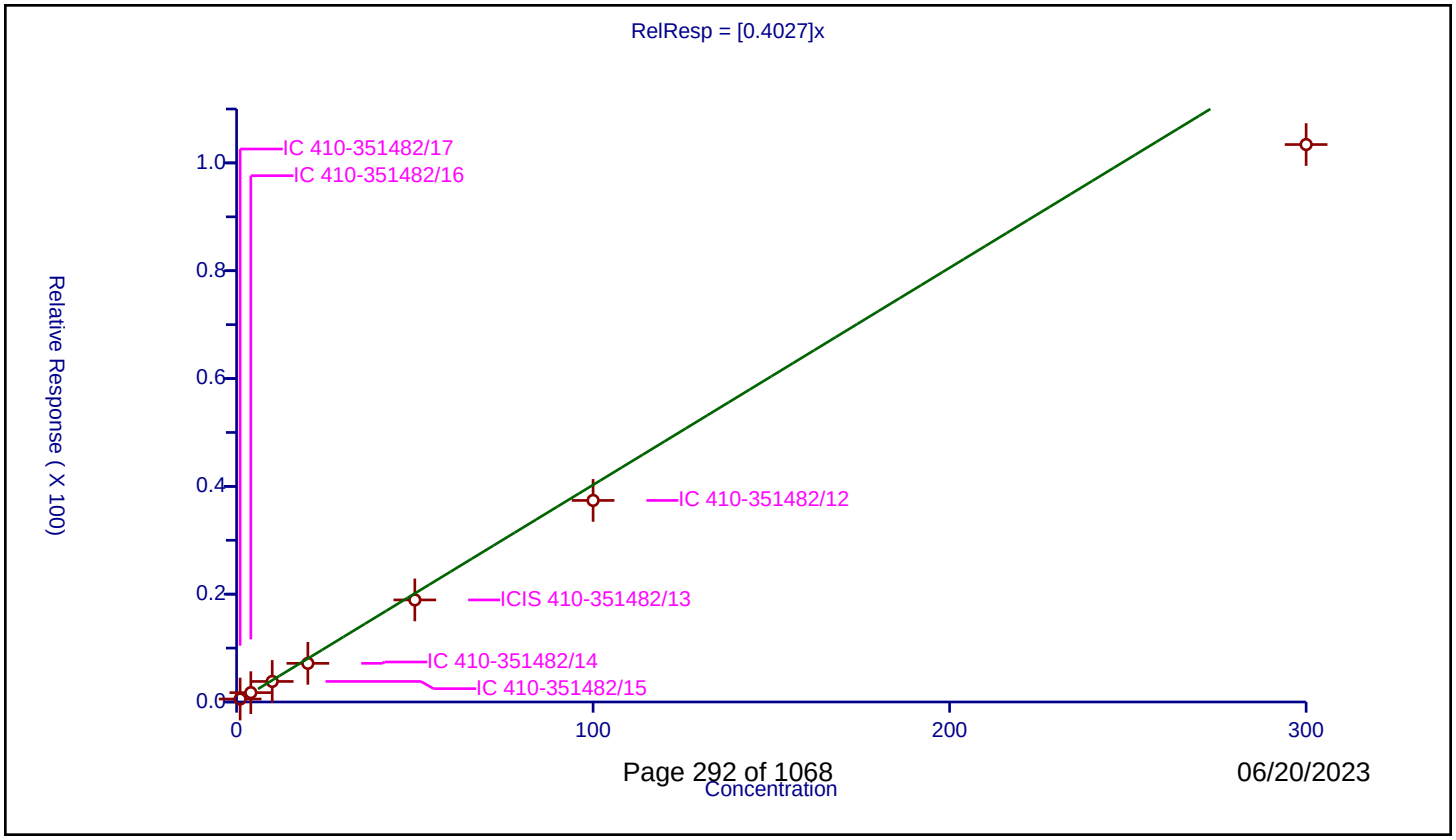
Curve Coefficients

Intercept:	0
Slope:	0.4027

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	17.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.548399	50.0	1082424.0	0.548399	Y
2	IC 410-351482/16	4.0	1.736234	50.0	1086950.0	0.434059	Y
3	IC 410-351482/15	10.0	3.809412	50.0	1093187.0	0.380941	Y
4	IC 410-351482/14	20.0	7.168616	50.0	1154393.0	0.358431	Y
5	ICIS 410-351482/13	50.0	18.932564	50.0	1114062.0	0.378651	Y
6	IC 410-351482/12	100.0	37.390902	50.0	1149083.0	0.373909	Y
7	IC 410-351482/11	300.0	103.411271	50.0	1225643.0	0.344704	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

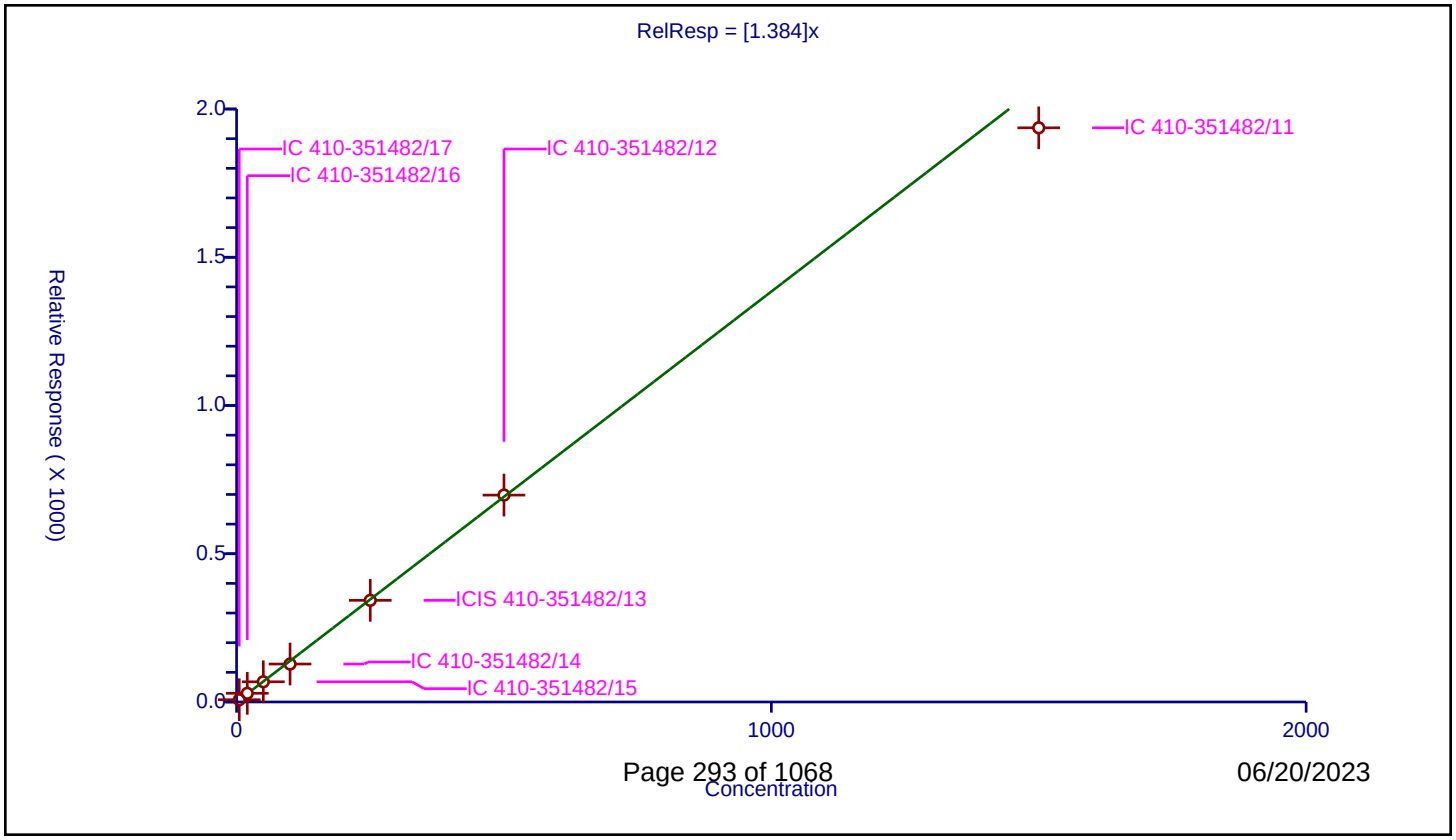
Curve Coefficients

Intercept:	0
Slope:	1.384

Error Coefficients

Standard Error:	1580000
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	IC 410-351482/17	5.0	7.623893	250.0	430915.0	1.524779	Y
2	IC 410-351482/16	20.0	29.278415	250.0	438036.0	1.463921	Y
3	IC 410-351482/15	50.0	68.154995	250.0	446519.0	1.3631	Y
4	IC 410-351482/14	100.0	127.99383	250.0	476146.0	1.279938	Y
5	ICIS 410-351482/13	250.0	342.853152	250.0	463533.0	1.371413	Y
6	IC 410-351482/12	500.0	697.822167	250.0	463626.0	1.395644	Y
7	IC 410-351482/11	1500.0	1936.611331	250.0	461786.0	1.291074	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

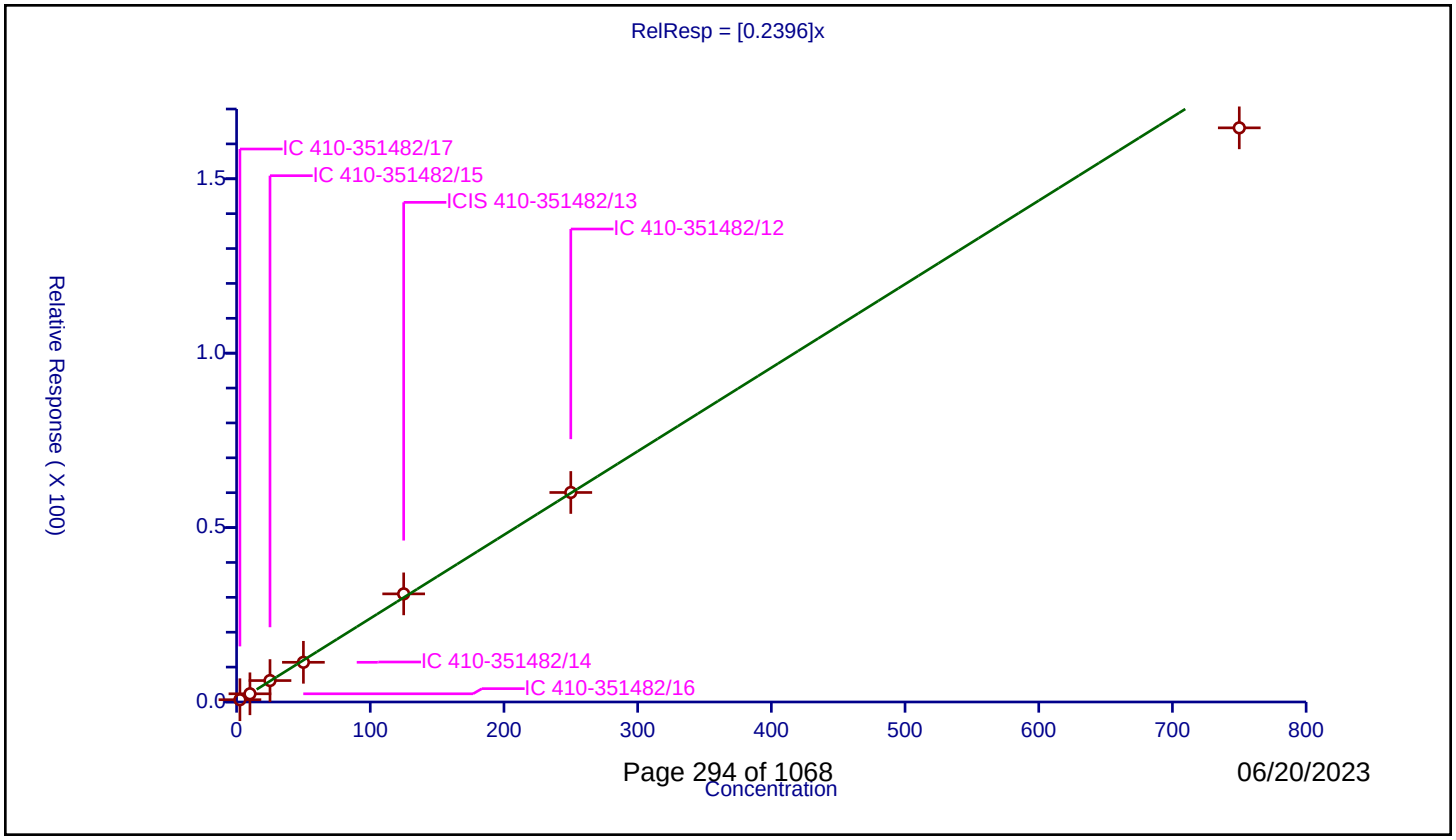
Curve Coefficients

Intercept:	0
Slope:	0.2396

Error Coefficients

Standard Error:	1770000
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	IC 410-351482/17	2.5	0.652332	50.0	1082424.0	0.260933	Y
2	IC 410-351482/16	10.0	2.350476	50.0	1086950.0	0.235048	Y
3	IC 410-351482/15	25.0	6.143825	50.0	1093187.0	0.245753	Y
4	IC 410-351482/14	50.0	11.376152	50.0	1154393.0	0.227523	Y
5	ICIS 410-351482/13	125.0	30.99805	50.0	1114062.0	0.247984	Y
6	IC 410-351482/12	250.0	60.065374	50.0	1149083.0	0.240261	Y
7	IC 410-351482/11	750.0	164.601764	50.0	1225643.0	0.219469	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

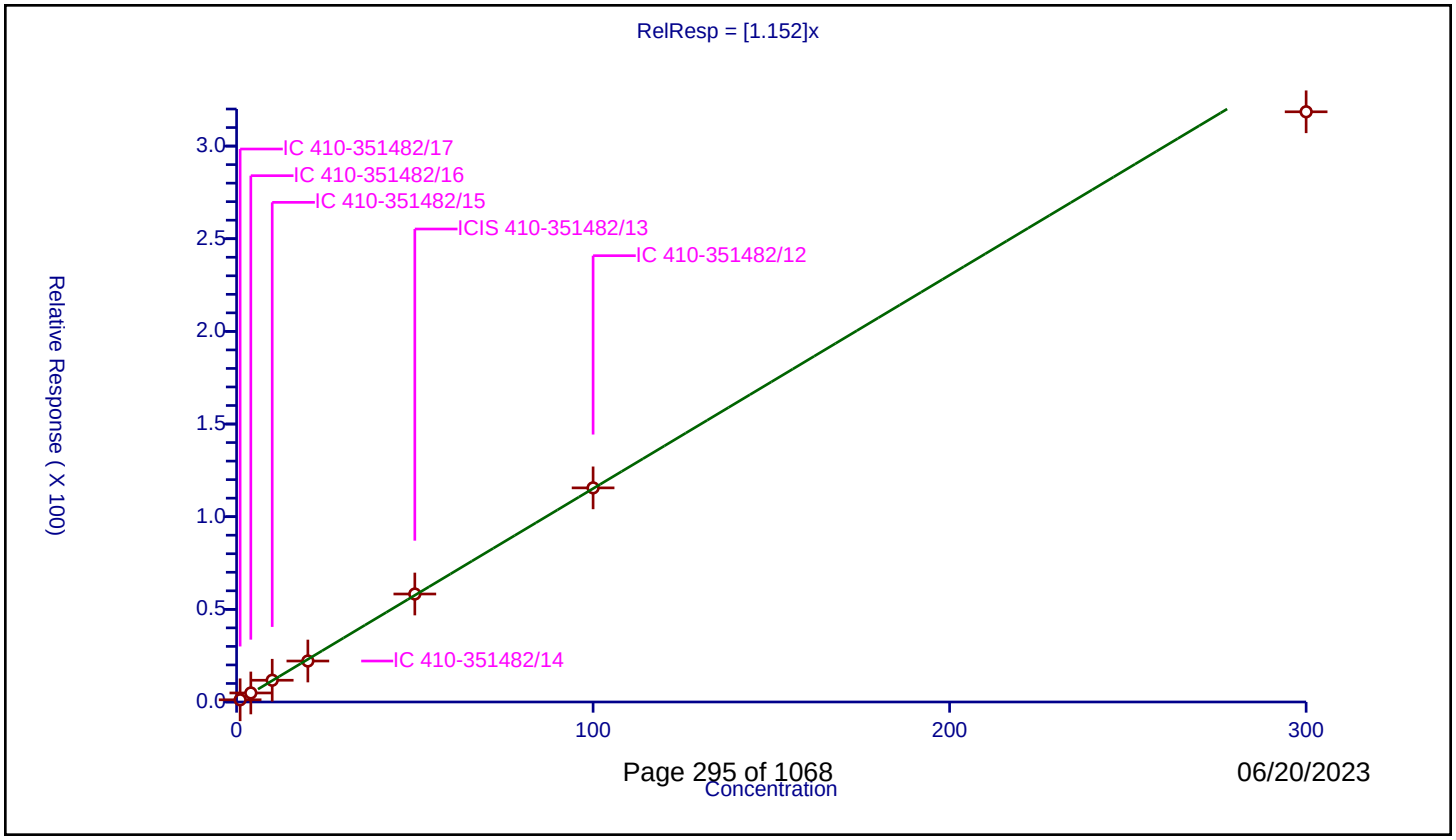
Curve Coefficients

Intercept:	0
Slope:	1.152

Error Coefficients

Standard Error:	3420000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.180406	50.0	1082424.0	1.180406	Y
2	IC 410-351482/16	4.0	4.876627	50.0	1086950.0	1.219157	Y
3	IC 410-351482/15	10.0	11.737608	50.0	1093187.0	1.173761	Y
4	IC 410-351482/14	20.0	22.118421	50.0	1154393.0	1.105921	Y
5	ICIS 410-351482/13	50.0	58.279207	50.0	1114062.0	1.165584	Y
6	IC 410-351482/12	100.0	115.551096	50.0	1149083.0	1.155511	Y
7	IC 410-351482/11	300.0	318.509713	50.0	1225643.0	1.061699	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

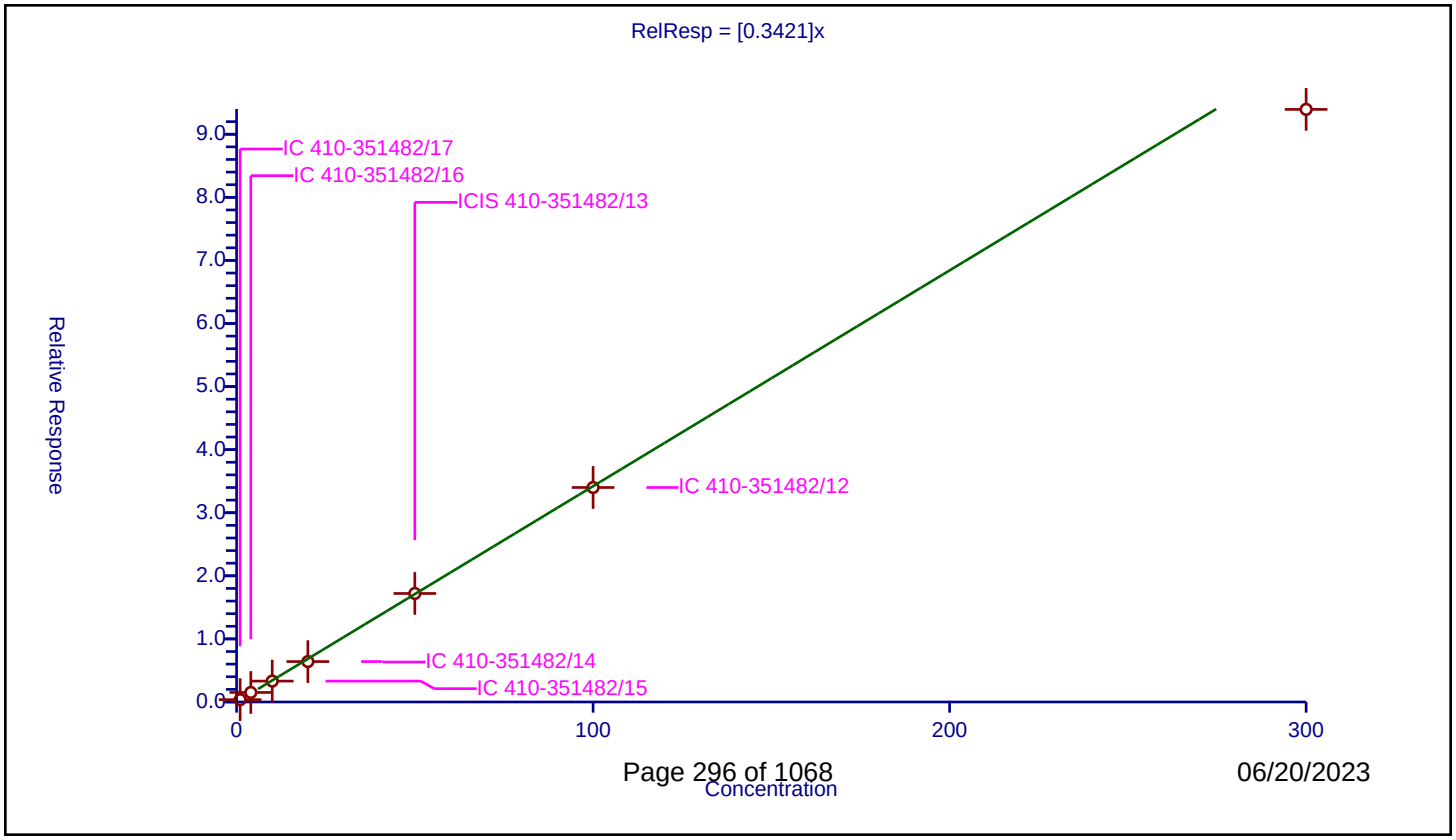
Curve Coefficients

Intercept:	0
Slope:	0.3421

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.368294	50.0	1082424.0	0.368294	Y
2	IC 410-351482/16	4.0	1.511247	50.0	1086950.0	0.377812	Y
3	IC 410-351482/15	10.0	3.310687	50.0	1093187.0	0.331069	Y
4	IC 410-351482/14	20.0	6.404838	50.0	1154393.0	0.320242	Y
5	ICIS 410-351482/13	50.0	17.201601	50.0	1114062.0	0.344032	Y
6	IC 410-351482/12	100.0	34.000764	50.0	1149083.0	0.340008	Y
7	IC 410-351482/11	300.0	93.941262	50.0	1225643.0	0.313138	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

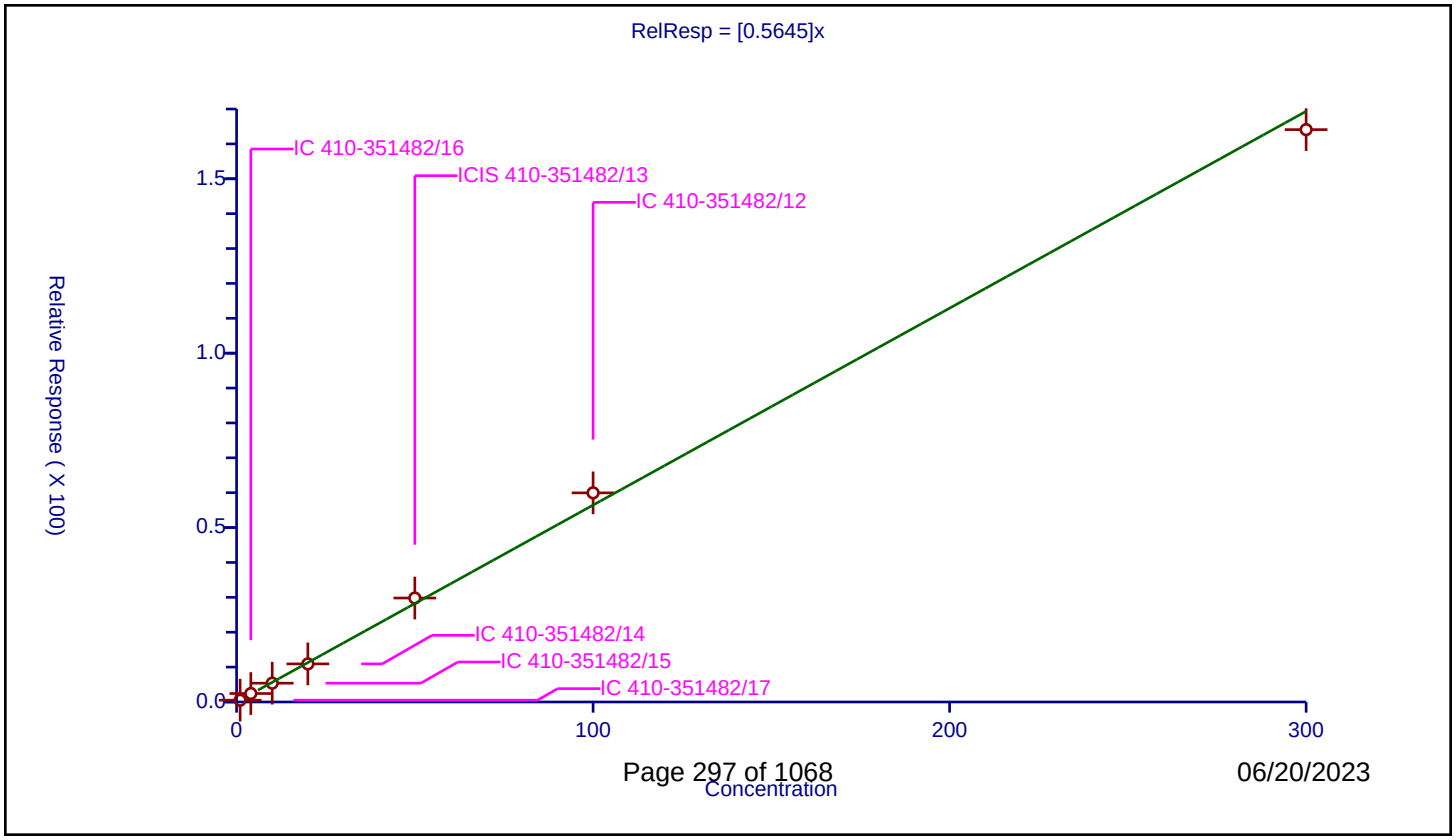
Curve Coefficients

Intercept:	0
Slope:	0.5645

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.517126	50.0	1082424.0	0.517126	Y
2	IC 410-351482/16	4.0	2.425871	50.0	1086950.0	0.606468	Y
3	IC 410-351482/15	10.0	5.390523	50.0	1093187.0	0.539052	Y
4	IC 410-351482/14	20.0	10.921411	50.0	1154393.0	0.546071	Y
5	ICIS 410-351482/13	50.0	29.80099	50.0	1114062.0	0.59602	Y
6	IC 410-351482/12	100.0	59.956461	50.0	1149083.0	0.599565	Y
7	IC 410-351482/11	300.0	164.092358	50.0	1225643.0	0.546975	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

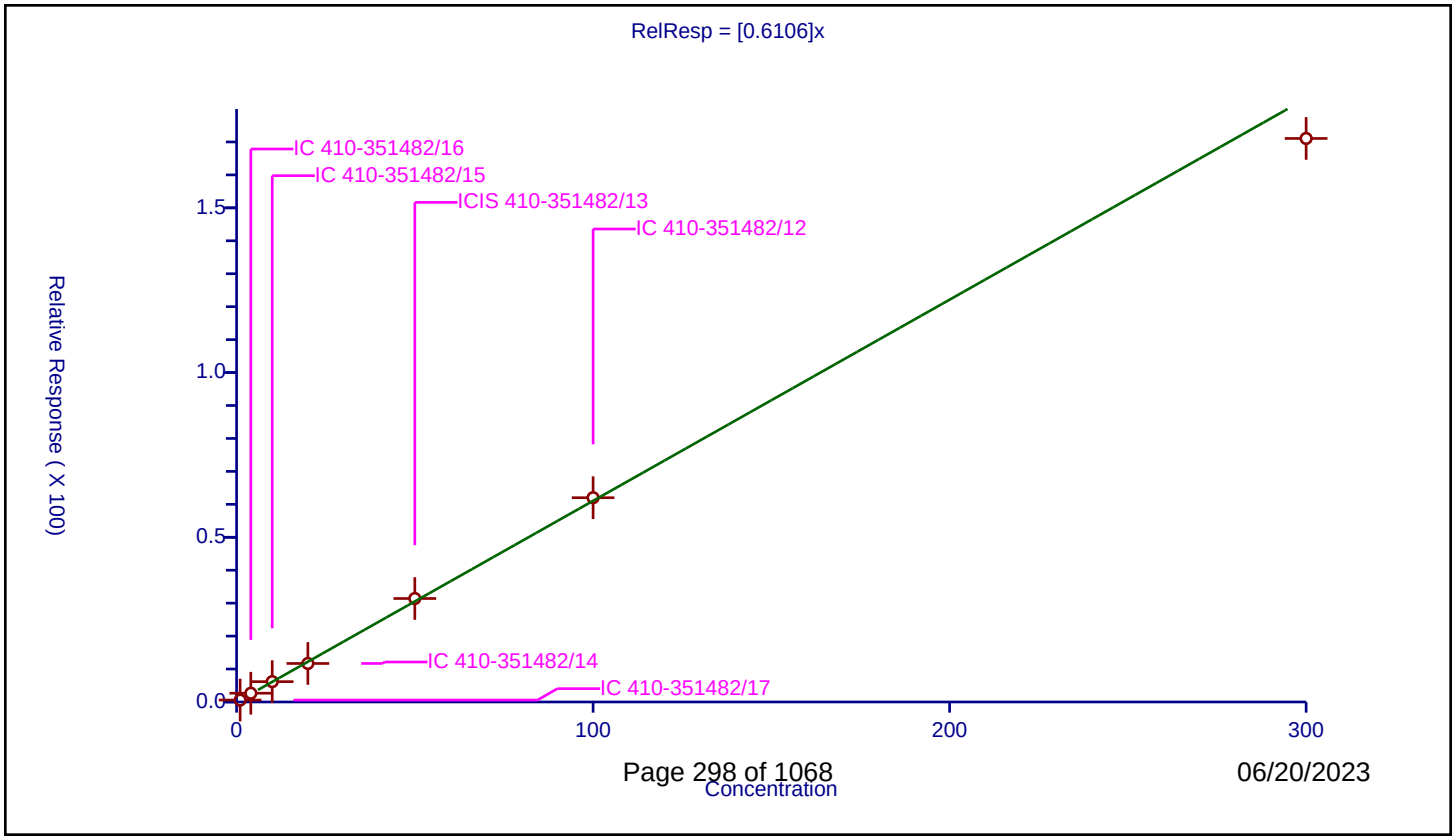
Curve Coefficients

Intercept:	0
Slope:	0.6106

Error Coefficients

Standard Error:	1830000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.589002	50.0	1082424.0	0.589002	Y
2	IC 410-351482/16	4.0	2.658356	50.0	1086950.0	0.664589	Y
3	IC 410-351482/15	10.0	6.176116	50.0	1093187.0	0.617612	Y
4	IC 410-351482/14	20.0	11.693765	50.0	1154393.0	0.584688	Y
5	ICIS 410-351482/13	50.0	31.408261	50.0	1114062.0	0.628165	Y
6	IC 410-351482/12	100.0	62.006879	50.0	1149083.0	0.620069	Y
7	IC 410-351482/11	300.0	171.064576	50.0	1225643.0	0.570215	Y



06/20/2023

Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

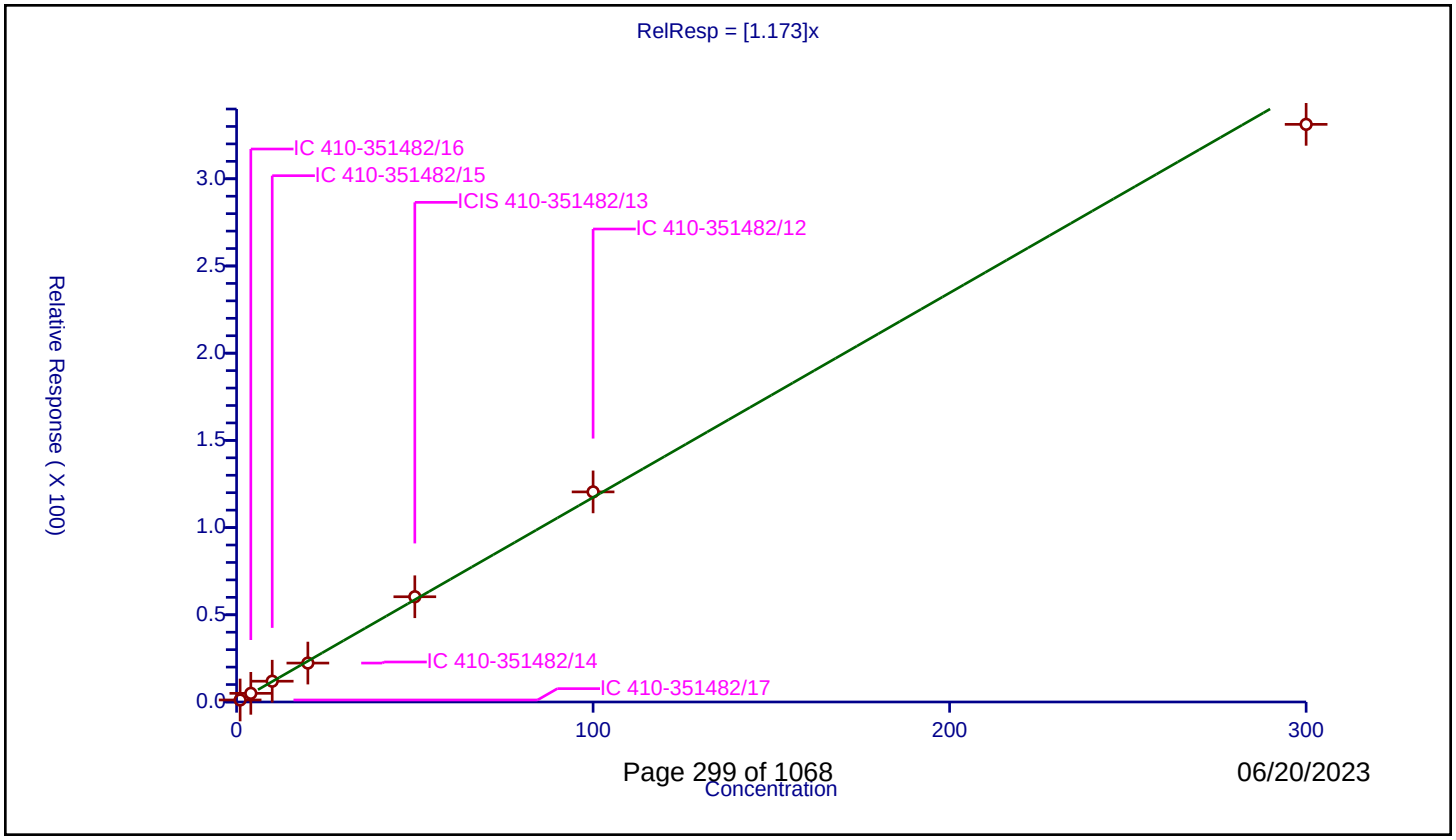
Curve Coefficients

Intercept:	0
Slope:	1.173

Error Coefficients

Standard Error:	3550000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.146732	50.0	1082424.0	1.146732	Y
2	IC 410-351482/16	4.0	4.957082	50.0	1086950.0	1.23927	Y
3	IC 410-351482/15	10.0	11.92591	50.0	1093187.0	1.192591	Y
4	IC 410-351482/14	20.0	22.31753	50.0	1154393.0	1.115876	Y
5	ICIS 410-351482/13	50.0	60.336274	50.0	1114062.0	1.206725	Y
6	IC 410-351482/12	100.0	120.4574	50.0	1149083.0	1.204574	Y
7	IC 410-351482/11	300.0	331.212596	50.0	1225643.0	1.104042	Y



06/20/2023

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

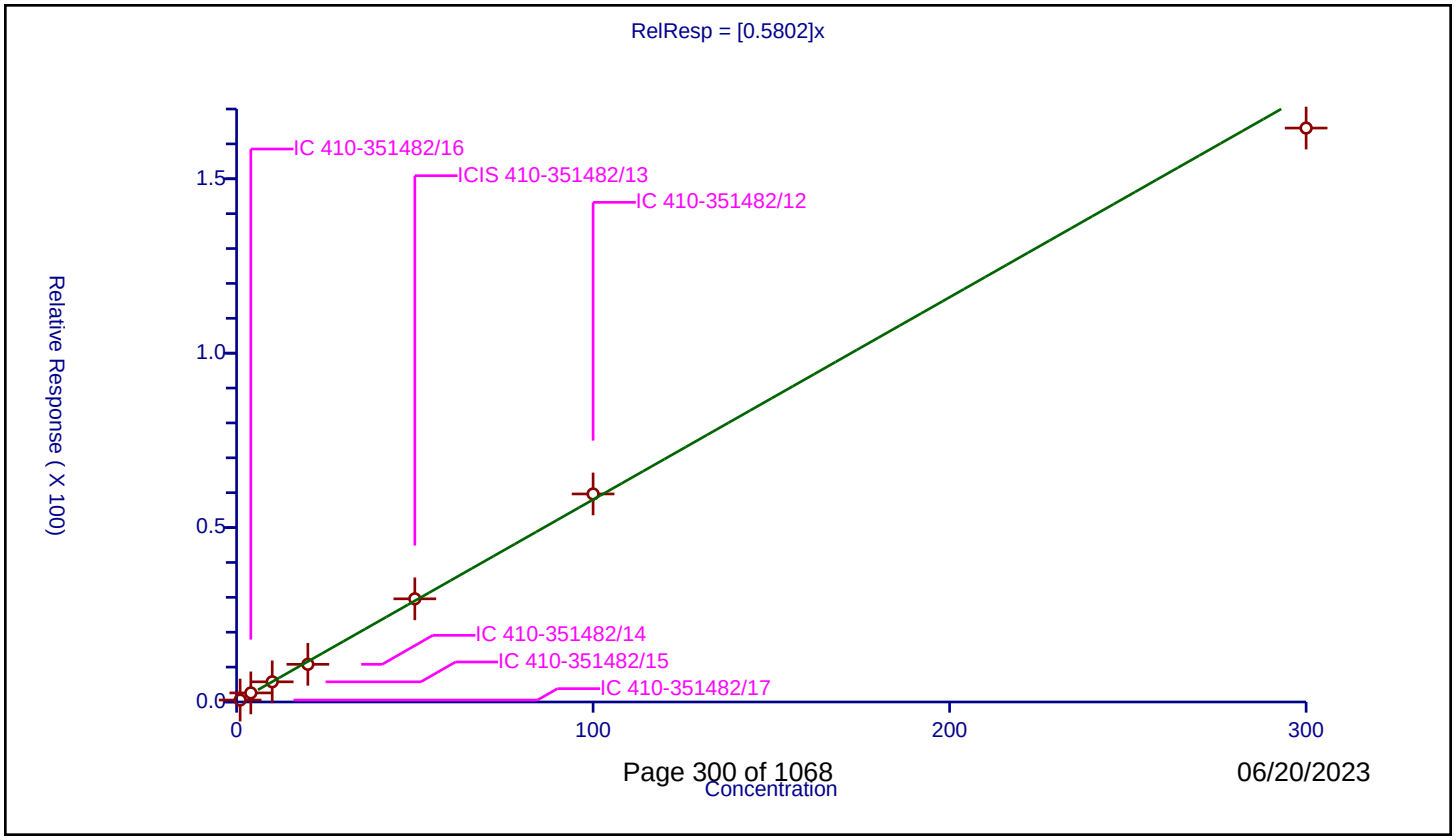
Curve Coefficients

Intercept:	0
Slope:	0.5802

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.554635	50.0	1082424.0	0.554635	Y
2	IC 410-351482/16	4.0	2.605916	50.0	1086950.0	0.651479	Y
3	IC 410-351482/15	10.0	5.786796	50.0	1093187.0	0.57868	Y
4	IC 410-351482/14	20.0	10.800265	50.0	1154393.0	0.540013	Y
5	ICIS 410-351482/13	50.0	29.575867	50.0	1114062.0	0.591517	Y
6	IC 410-351482/12	100.0	59.642602	50.0	1149083.0	0.596426	Y
7	IC 410-351482/11	300.0	164.543468	50.0	1225643.0	0.548478	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

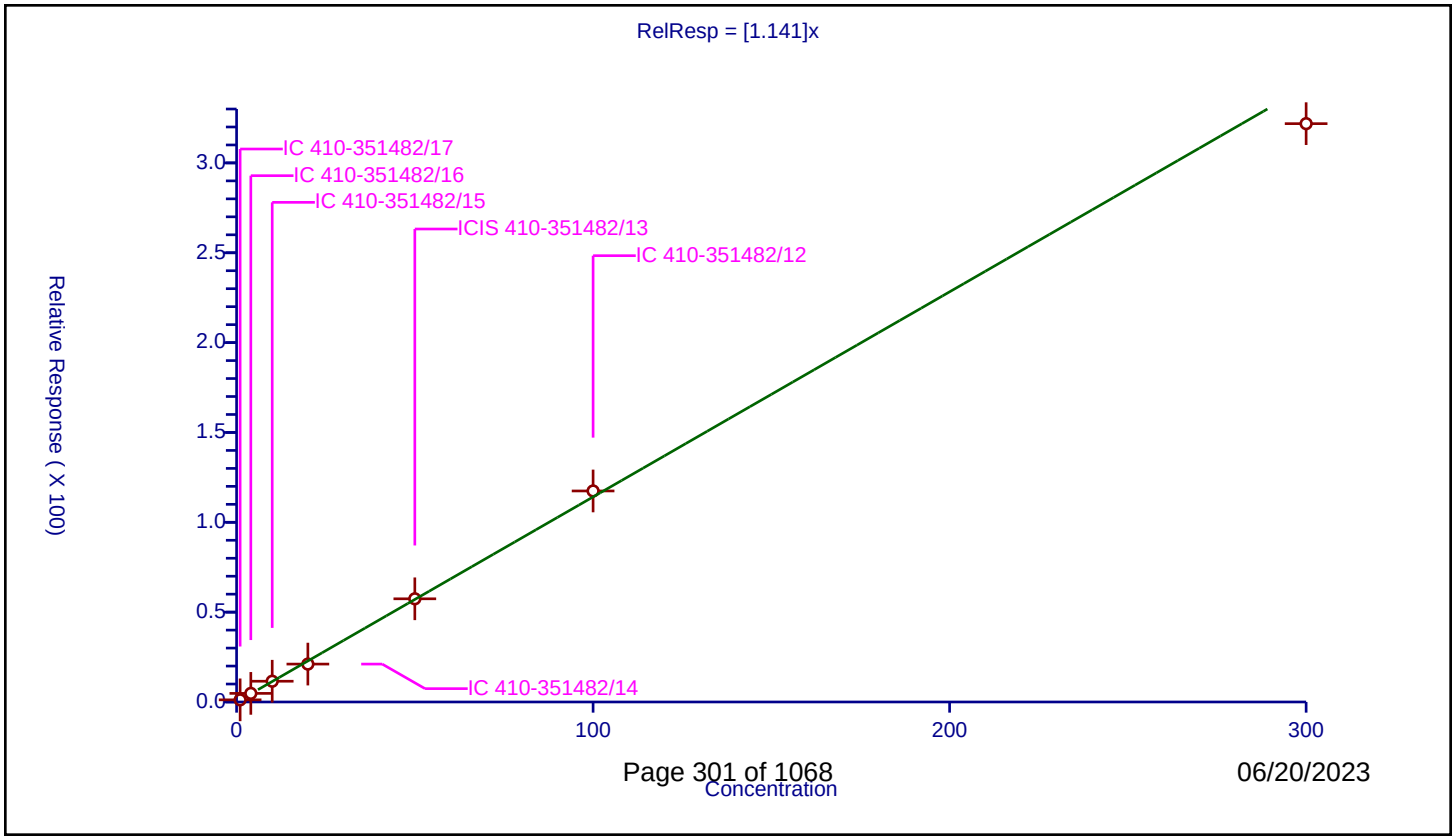
Curve Coefficients

Intercept:	0
Slope:	1.141

Error Coefficients

Standard Error:	3450000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.188259	50.0	1082424.0	1.188259	Y
2	IC 410-351482/16	4.0	4.780947	50.0	1086950.0	1.195237	Y
3	IC 410-351482/15	10.0	11.55397	50.0	1093187.0	1.155397	Y
4	IC 410-351482/14	20.0	21.090738	50.0	1154393.0	1.054537	Y
5	ICIS 410-351482/13	50.0	57.432127	50.0	1114062.0	1.148643	Y
6	IC 410-351482/12	100.0	117.432814	50.0	1149083.0	1.174328	Y
7	IC 410-351482/11	300.0	321.854406	50.0	1225643.0	1.072848	Y



06/20/2023

Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

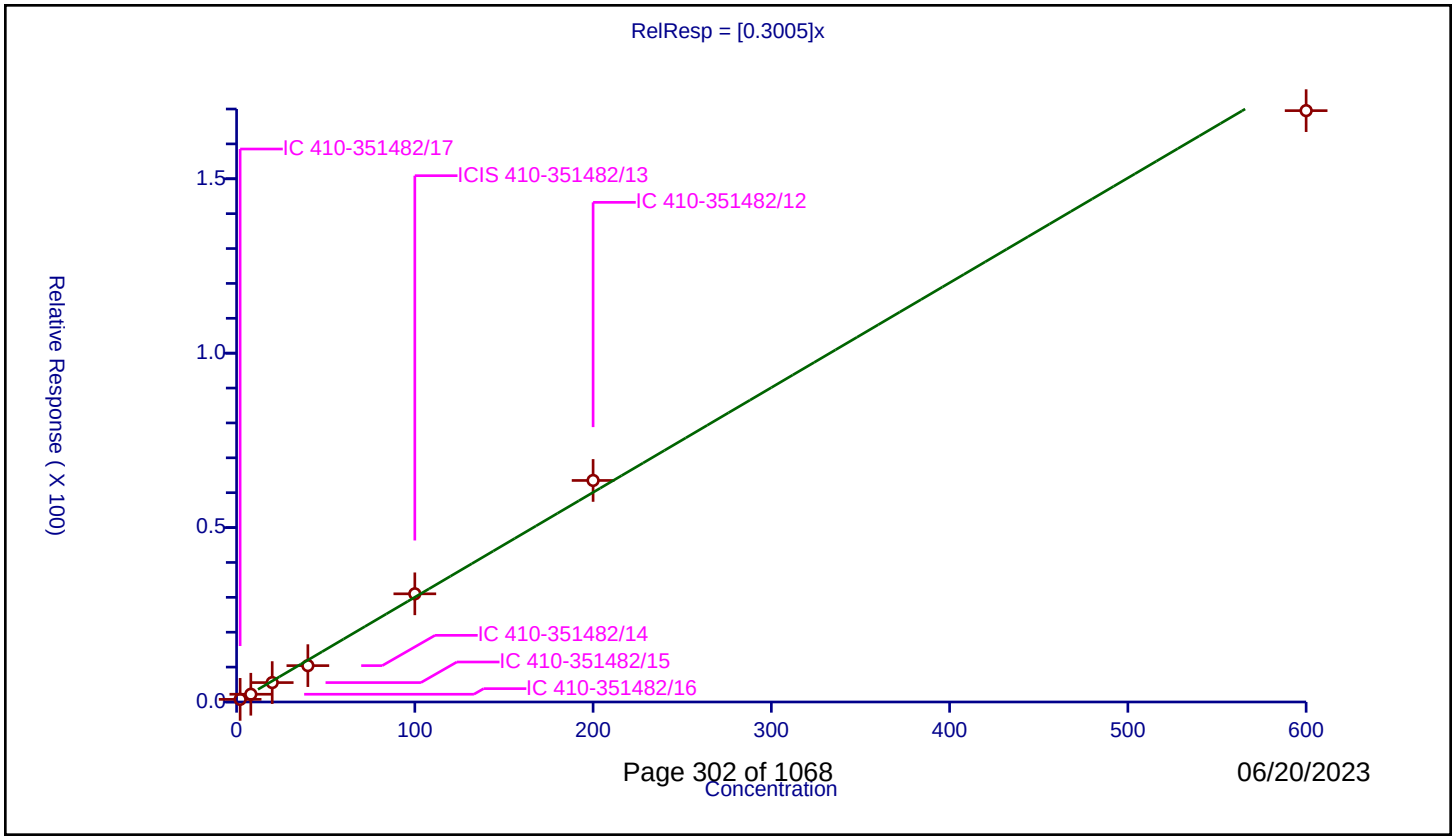
Curve Coefficients

Intercept:	0
Slope:	0.3005

Error Coefficients

Standard Error:	1820000
Relative Standard Error:	13.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	2.0	0.754325	50.0	1082424.0	0.377163	Y
2	IC 410-351482/16	8.0	2.217443	50.0	1086950.0	0.27718	Y
3	IC 410-351482/15	20.0	5.559433	50.0	1093187.0	0.277972	Y
4	IC 410-351482/14	40.0	10.426692	50.0	1154393.0	0.260667	Y
5	ICIS 410-351482/13	100.0	31.013759	50.0	1114062.0	0.310138	Y
6	IC 410-351482/12	200.0	63.512383	50.0	1149083.0	0.317562	Y
7	IC 410-351482/11	600.0	169.533012	50.0	1225643.0	0.282555	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

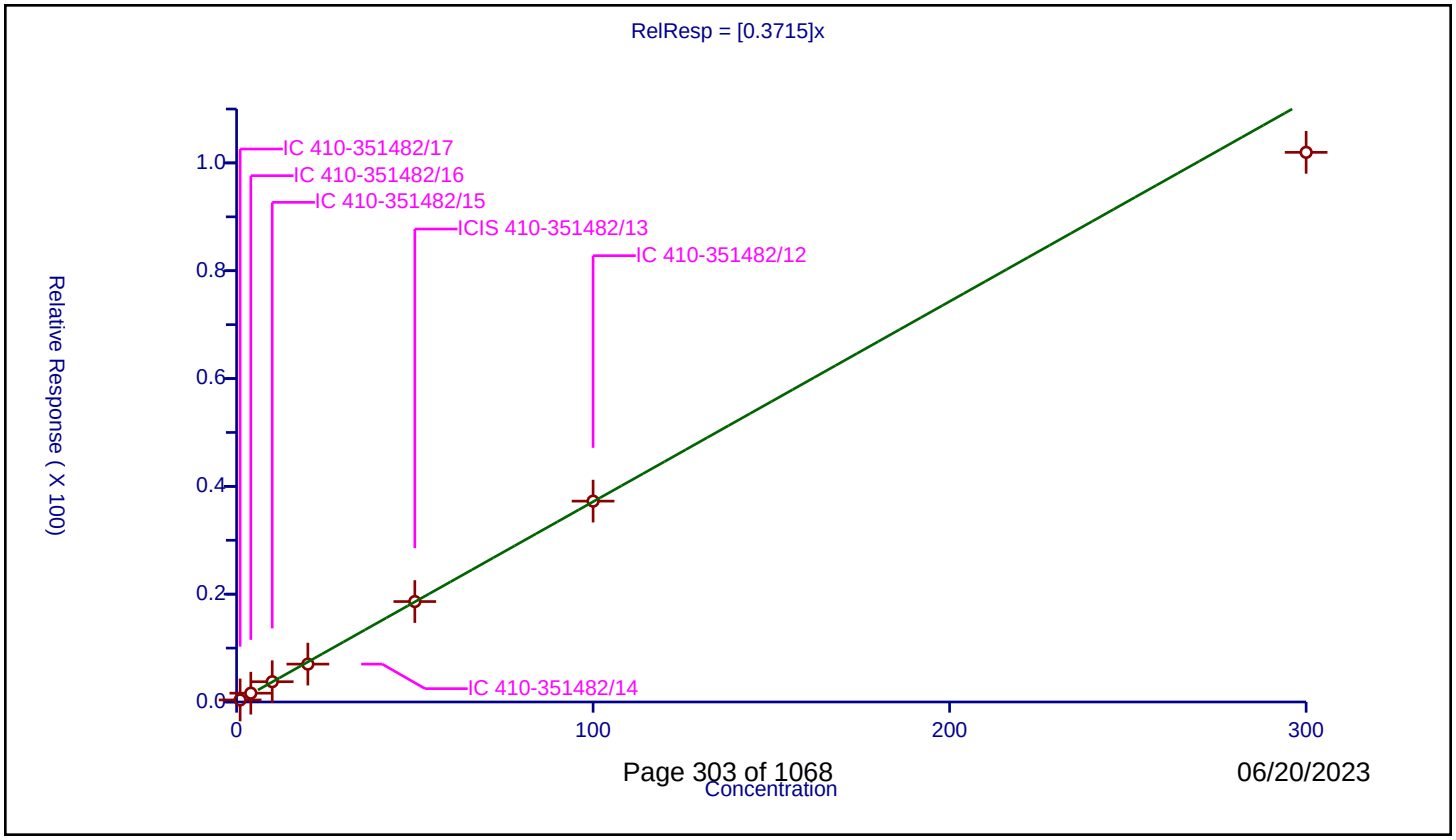
Curve Coefficients

Intercept:	0
Slope:	0.3715

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.378733	50.0	1082424.0	0.378733	Y
2	IC 410-351482/16	4.0	1.63623	50.0	1086950.0	0.409057	Y
3	IC 410-351482/15	10.0	3.761799	50.0	1093187.0	0.37618	Y
4	IC 410-351482/14	20.0	7.028586	50.0	1154393.0	0.351429	Y
5	ICIS 410-351482/13	50.0	18.631728	50.0	1114062.0	0.372635	Y
6	IC 410-351482/12	100.0	37.261843	50.0	1149083.0	0.372618	Y
7	IC 410-351482/11	300.0	101.962317	50.0	1225643.0	0.339874	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

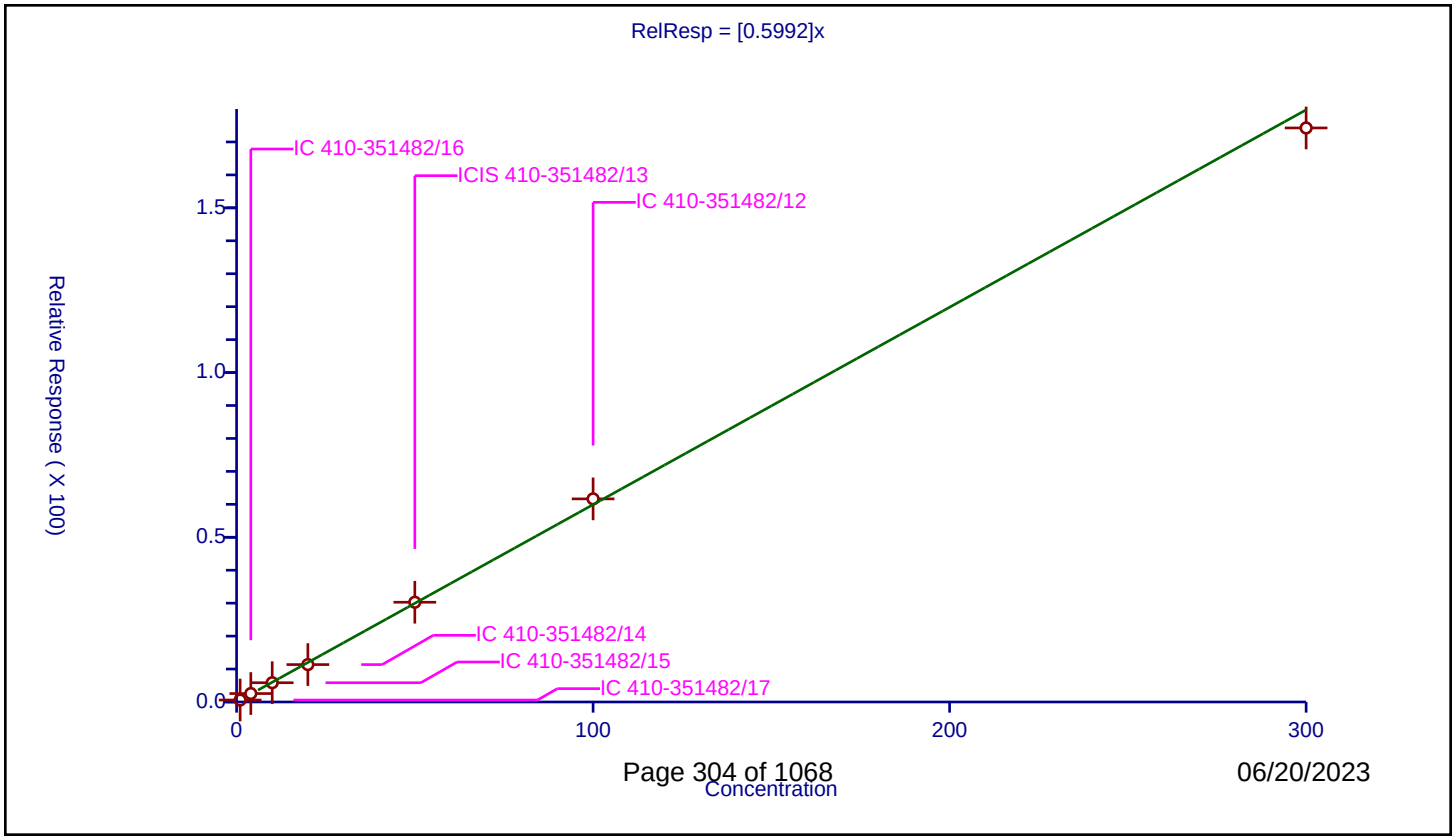
Curve Coefficients

Intercept:	0
Slope:	0.5992

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.598425	50.0	1082424.0	0.598425	Y
2	IC 410-351482/16	4.0	2.562353	50.0	1086950.0	0.640588	Y
3	IC 410-351482/15	10.0	5.845386	50.0	1093187.0	0.584539	Y
4	IC 410-351482/14	20.0	11.353629	50.0	1154393.0	0.567681	Y
5	ICIS 410-351482/13	50.0	30.279868	50.0	1114062.0	0.605597	Y
6	IC 410-351482/12	100.0	61.651595	50.0	1149083.0	0.616516	Y
7	IC 410-351482/11	300.0	174.251842	50.0	1225643.0	0.580839	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

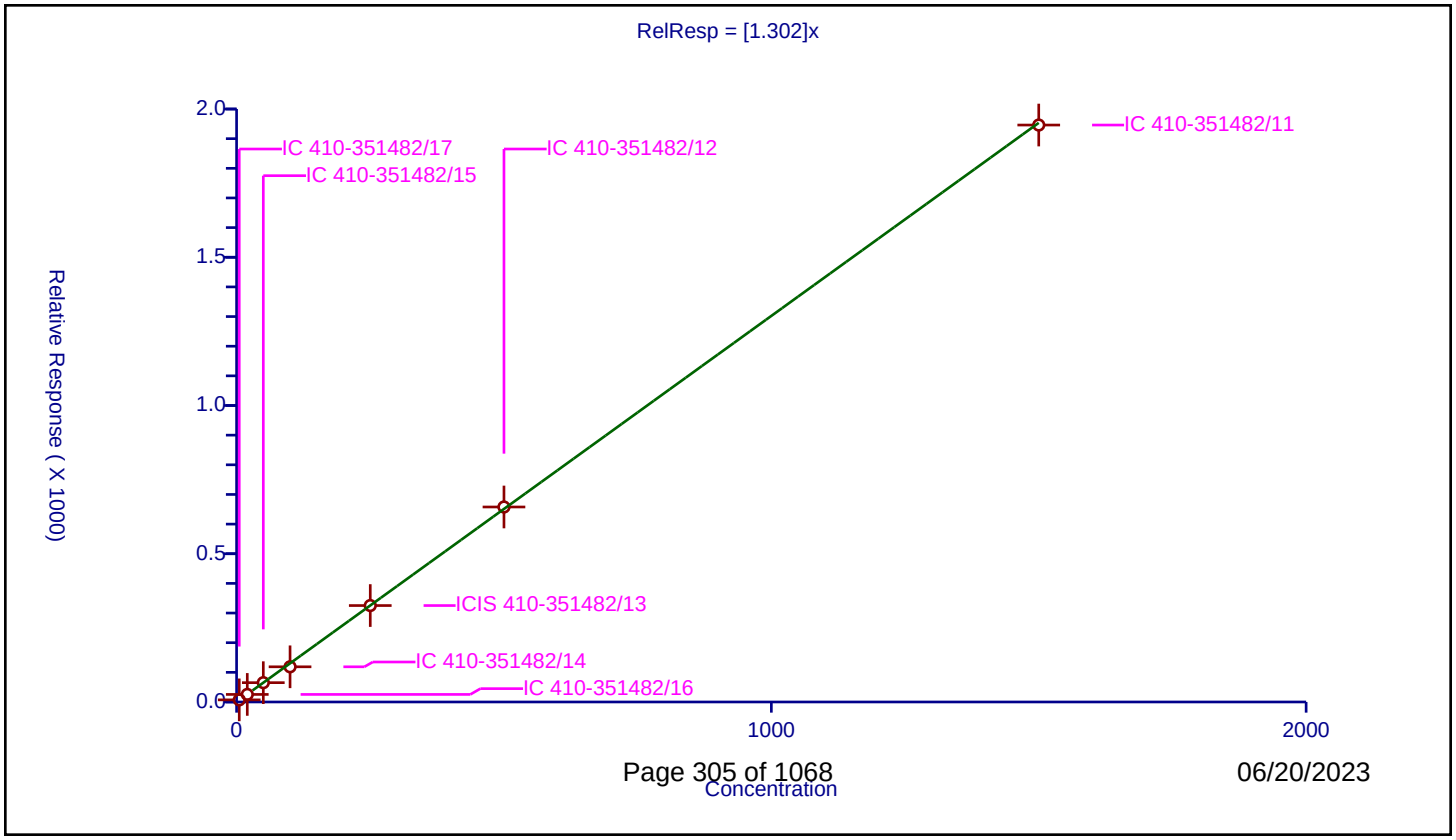
Curve Coefficients

Intercept:	0
Slope:	1.302

Error Coefficients

Standard Error:	1570000
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	IC 410-351482/17	5.0	7.18007	250.0	430915.0	1.436014	Y
2	IC 410-351482/16	20.0	25.513885	250.0	438036.0	1.275694	Y
3	IC 410-351482/15	50.0	65.162401	250.0	446519.0	1.303248	Y
4	IC 410-351482/14	100.0	118.67946	250.0	476146.0	1.186795	Y
5	ICIS 410-351482/13	250.0	325.253542	250.0	463533.0	1.301014	Y
6	IC 410-351482/12	500.0	657.673966	250.0	463626.0	1.315348	Y
7	IC 410-351482/11	1500.0	1945.979306	250.0	461786.0	1.29732	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

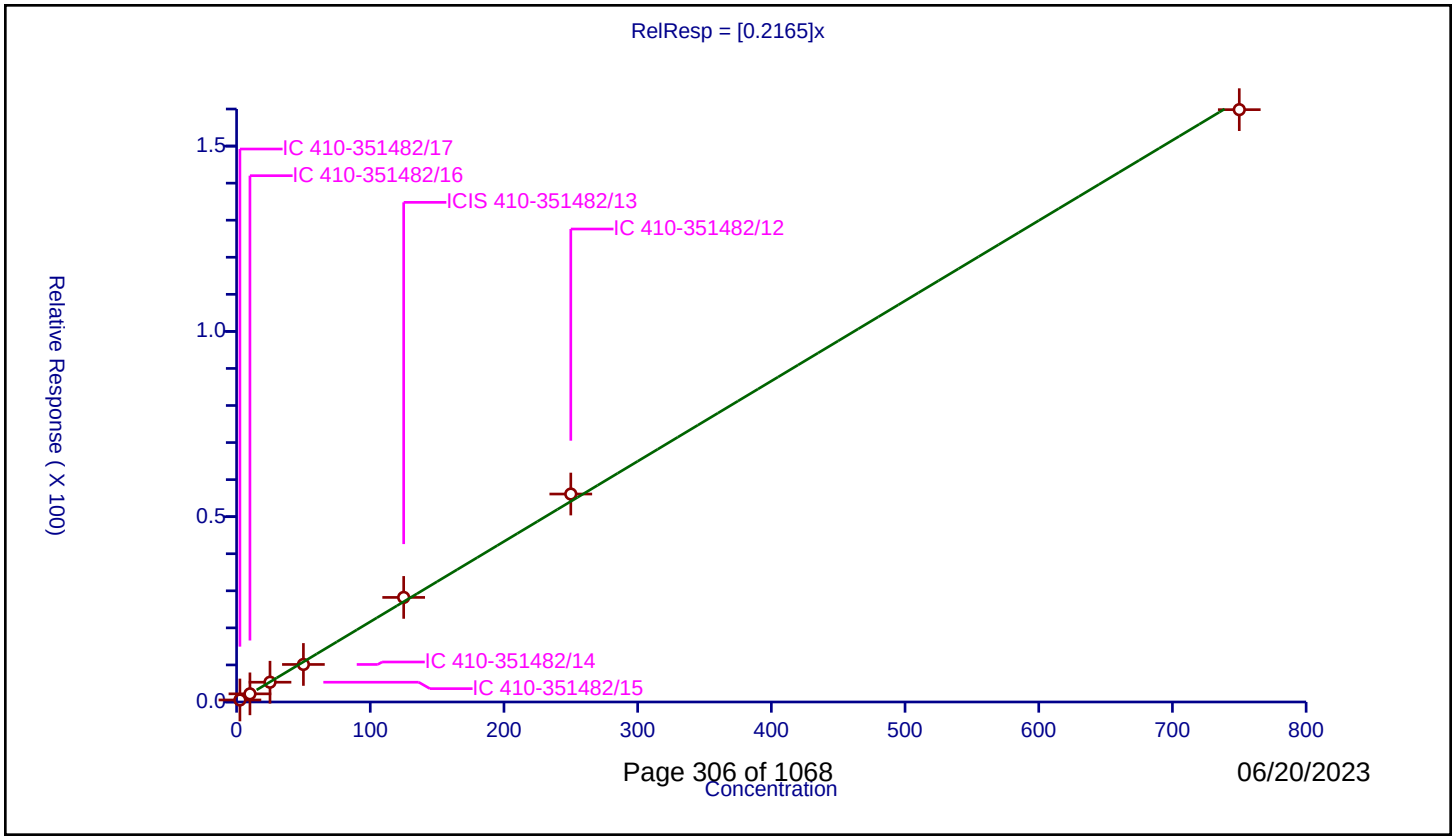
Curve Coefficients

Intercept:	0
Slope:	0.2165

Error Coefficients

Standard Error:	1710000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	2.5	0.541516	50.0	1082424.0	0.216606	Y
2	IC 410-351482/16	10.0	2.197893	50.0	1086950.0	0.219789	Y
3	IC 410-351482/15	25.0	5.332802	50.0	1093187.0	0.213312	Y
4	IC 410-351482/14	50.0	10.124542	50.0	1154393.0	0.202491	Y
5	ICIS 410-351482/13	125.0	28.216293	50.0	1114062.0	0.22573	Y
6	IC 410-351482/12	250.0	56.113484	50.0	1149083.0	0.224454	Y
7	IC 410-351482/11	750.0	159.829045	50.0	1225643.0	0.213105	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

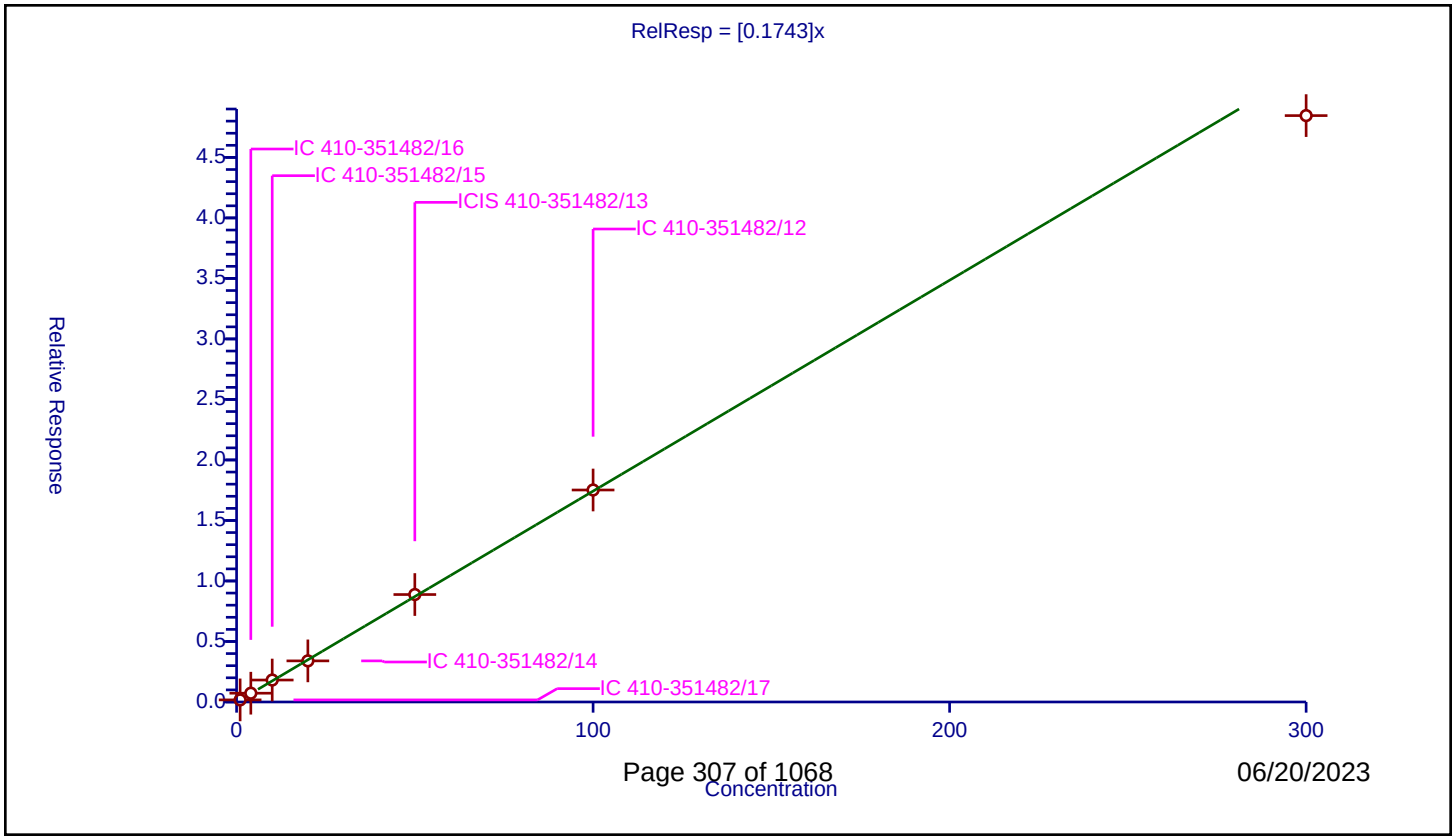
Curve Coefficients

Intercept:	0
Slope:	0.1743

Error Coefficients

Standard Error:	520000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.172437	50.0	1082424.0	0.172437	Y
2	IC 410-351482/16	4.0	0.726712	50.0	1086950.0	0.181678	Y
3	IC 410-351482/15	10.0	1.815106	50.0	1093187.0	0.181511	Y
4	IC 410-351482/14	20.0	3.39789	50.0	1154393.0	0.169894	Y
5	ICIS 410-351482/13	50.0	8.878276	50.0	1114062.0	0.177566	Y
6	IC 410-351482/12	100.0	17.517925	50.0	1149083.0	0.175179	Y
7	IC 410-351482/11	300.0	48.456688	50.0	1225643.0	0.161522	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

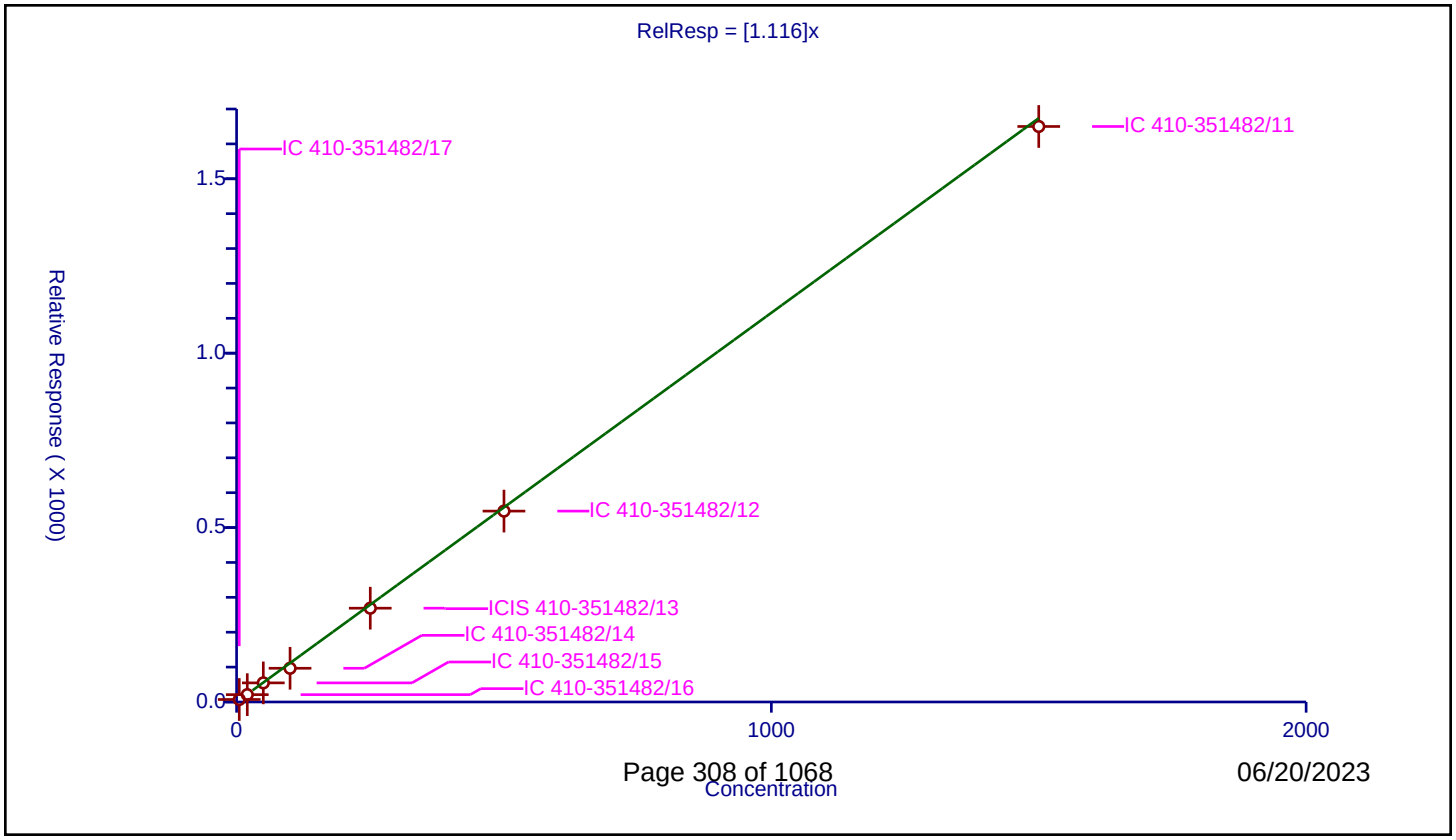
Curve Coefficients

Intercept:	0
Slope:	1.116

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	12.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	5.0	7.126115	250.0	430915.0	1.425223	Y
2	IC 410-351482/16	20.0	21.029664	250.0	438036.0	1.051483	Y
3	IC 410-351482/15	50.0	54.814017	250.0	446519.0	1.09628	Y
4	IC 410-351482/14	100.0	96.694606	250.0	476146.0	0.966946	Y
5	ICIS 410-351482/13	250.0	268.92314	250.0	463533.0	1.075693	Y
6	IC 410-351482/12	500.0	547.2989	250.0	463626.0	1.094598	Y
7	IC 410-351482/11	1500.0	1649.919551	250.0	461786.0	1.099946	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

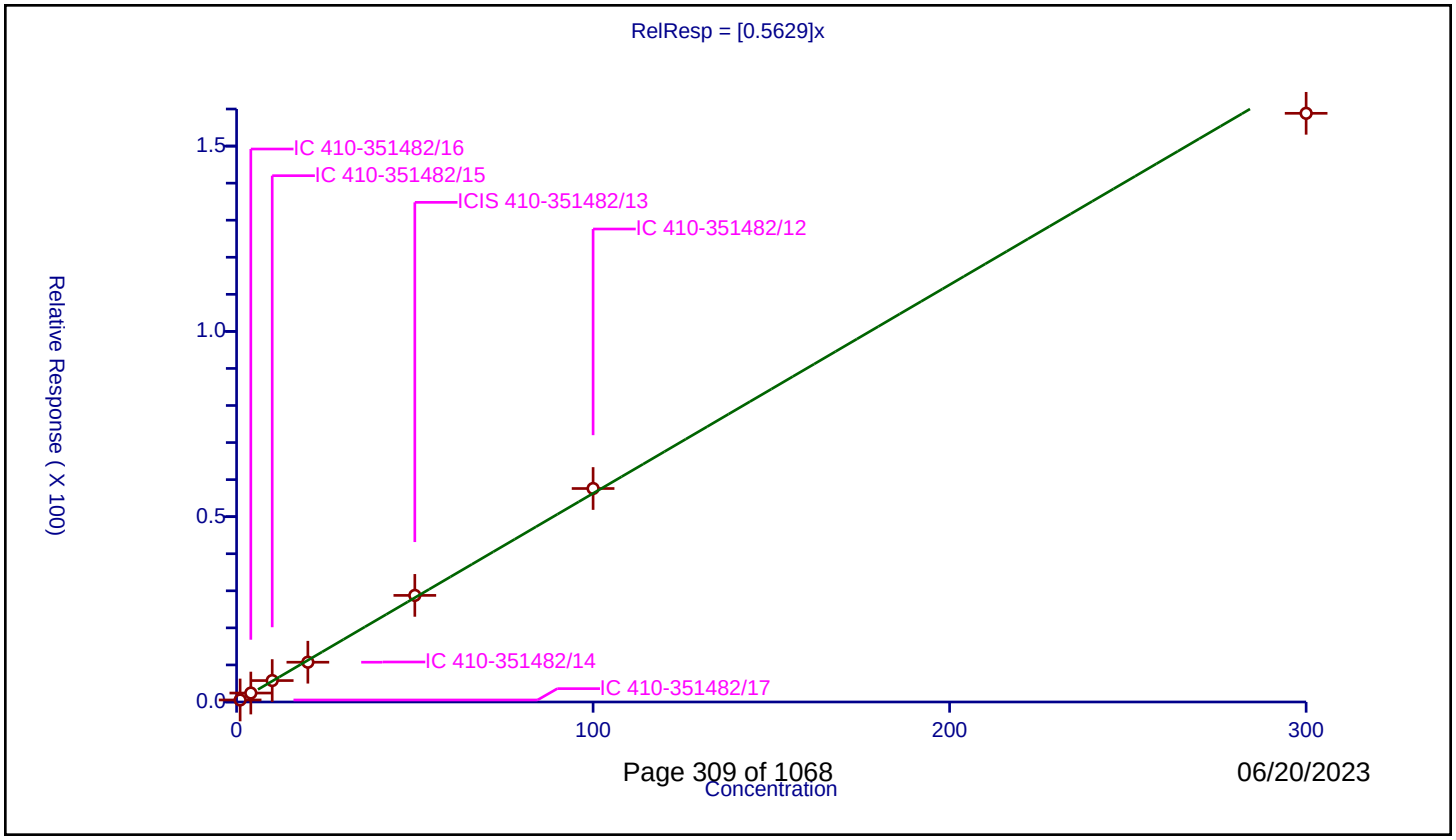
Curve Coefficients

Intercept:	0
Slope:	0.5629

Error Coefficients

Standard Error:	1700000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.5411	50.0	1082424.0	0.5411	Y
2	IC 410-351482/16	4.0	2.414416	50.0	1086950.0	0.603604	Y
3	IC 410-351482/15	10.0	5.779752	50.0	1093187.0	0.577975	Y
4	IC 410-351482/14	20.0	10.733043	50.0	1154393.0	0.536652	Y
5	ICIS 410-351482/13	50.0	28.762762	50.0	1114062.0	0.575255	Y
6	IC 410-351482/12	100.0	57.600017	50.0	1149083.0	0.576	Y
7	IC 410-351482/11	300.0	158.843848	50.0	1225643.0	0.529479	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

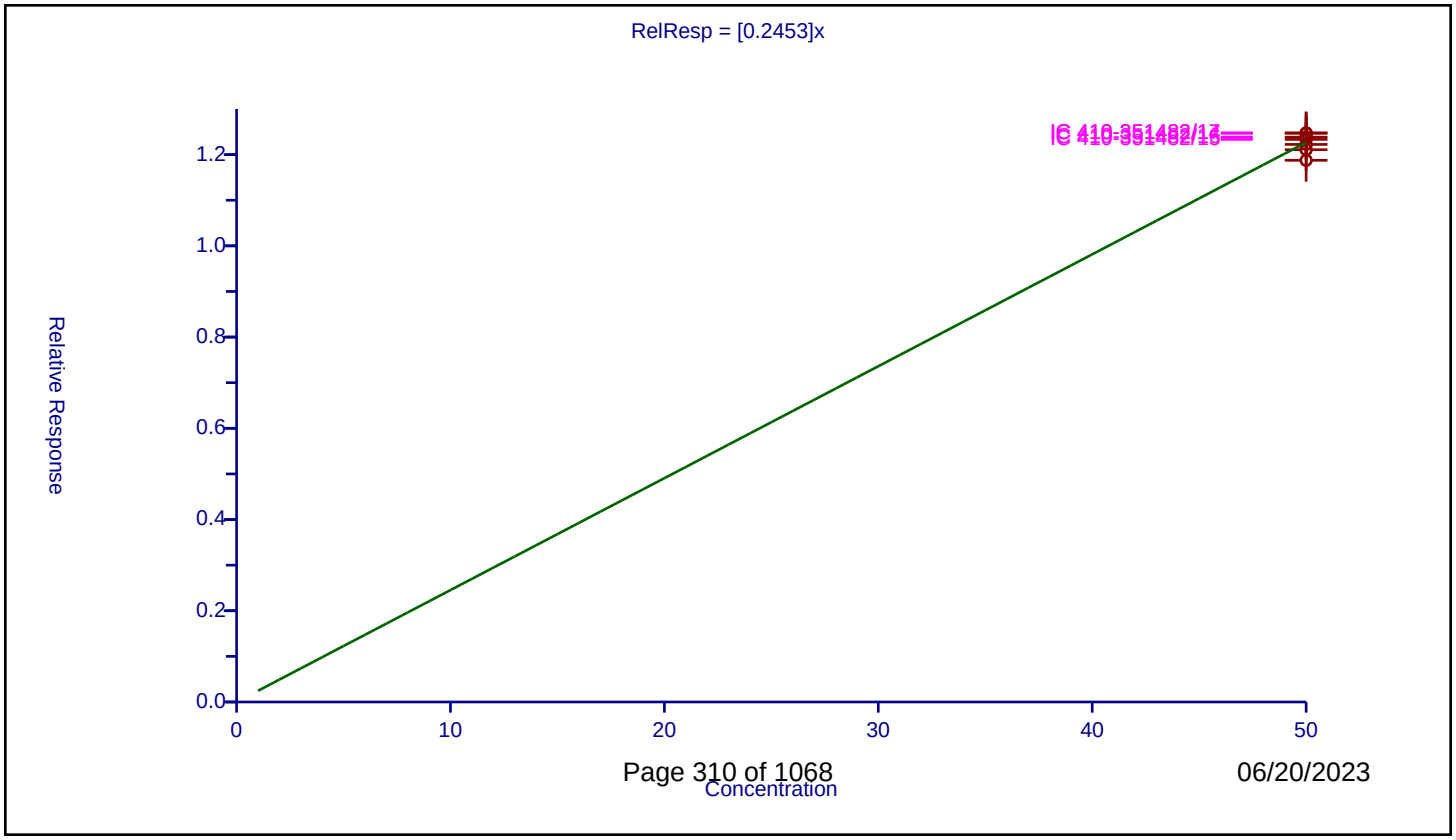
Curve Coefficients

Intercept:	0
Slope:	0.2453

Error Coefficients

Standard Error:	299000
Relative Standard Error:	1.8
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/11	50.0	11.875726	50.0	1225643.0	0.237515	Y
2	IC 410-351482/12	50.0	12.107655	50.0	1149083.0	0.242153	Y
3	ICIS 410-351482/13	50.0	12.223557	50.0	1114062.0	0.244471	Y
4	IC 410-351482/14	50.0	12.476774	50.0	1154393.0	0.249535	Y
5	IC 410-351482/15	50.0	12.3338	50.0	1093187.0	0.246676	Y
6	IC 410-351482/16	50.0	12.383228	50.0	1086950.0	0.247665	Y
7	IC 410-351482/17	50.0	12.46845	50.0	1082424.0	0.249369	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

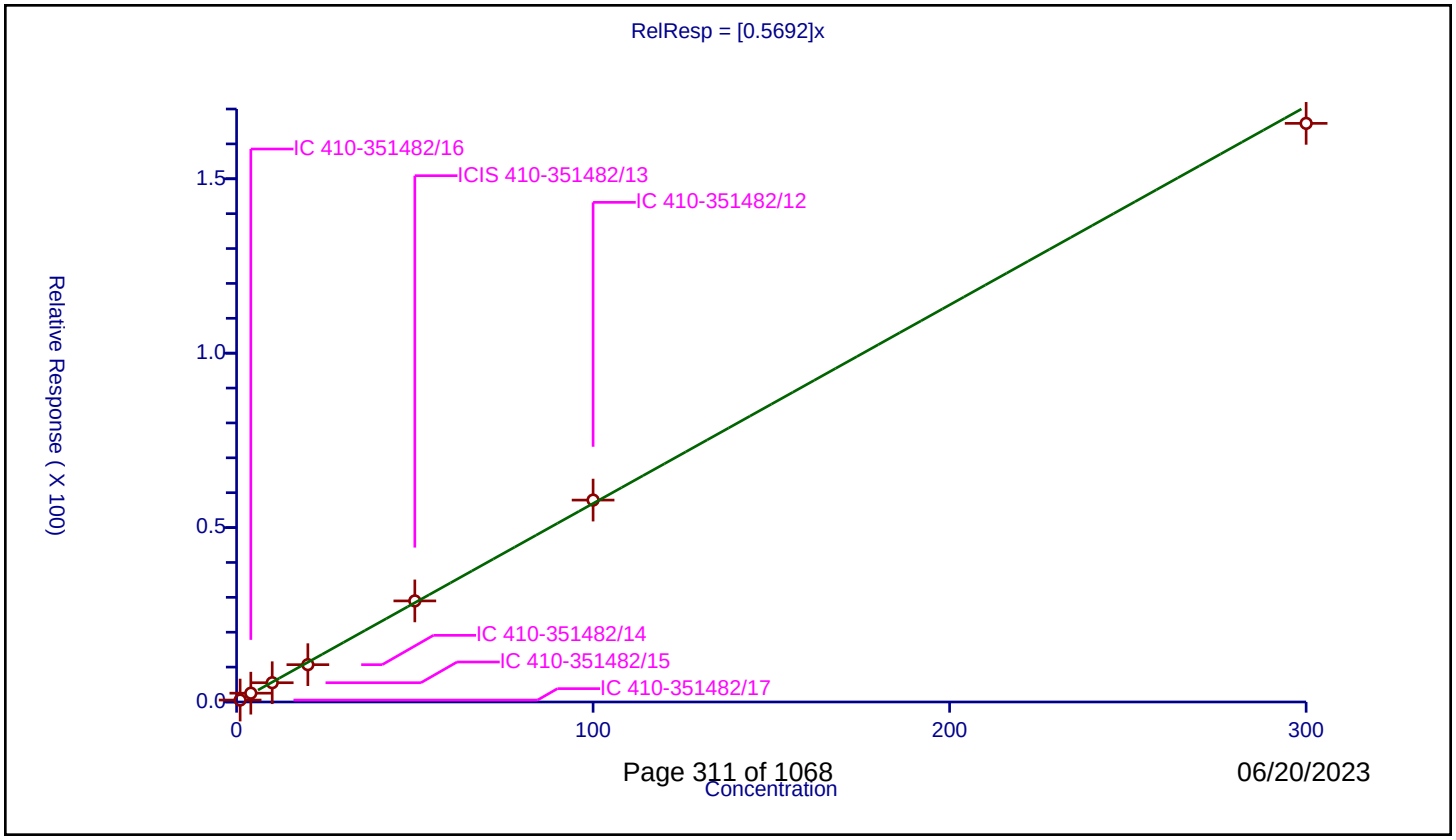
Curve Coefficients

Intercept:	0
Slope:	0.5692

Error Coefficients

Standard Error:	1770000
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	IC 410-351482/17	1.0	0.553388	50.0	1082424.0	0.553388	Y
2	IC 410-351482/16	4.0	2.528221	50.0	1086950.0	0.632055	Y
3	IC 410-351482/15	10.0	5.523666	50.0	1093187.0	0.552367	Y
4	IC 410-351482/14	20.0	10.697787	50.0	1154393.0	0.534889	Y
5	ICIS 410-351482/13	50.0	28.981197	50.0	1114062.0	0.579624	Y
6	IC 410-351482/12	100.0	57.884635	50.0	1149083.0	0.578846	Y
7	IC 410-351482/11	300.0	165.883214	50.0	1225643.0	0.552944	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

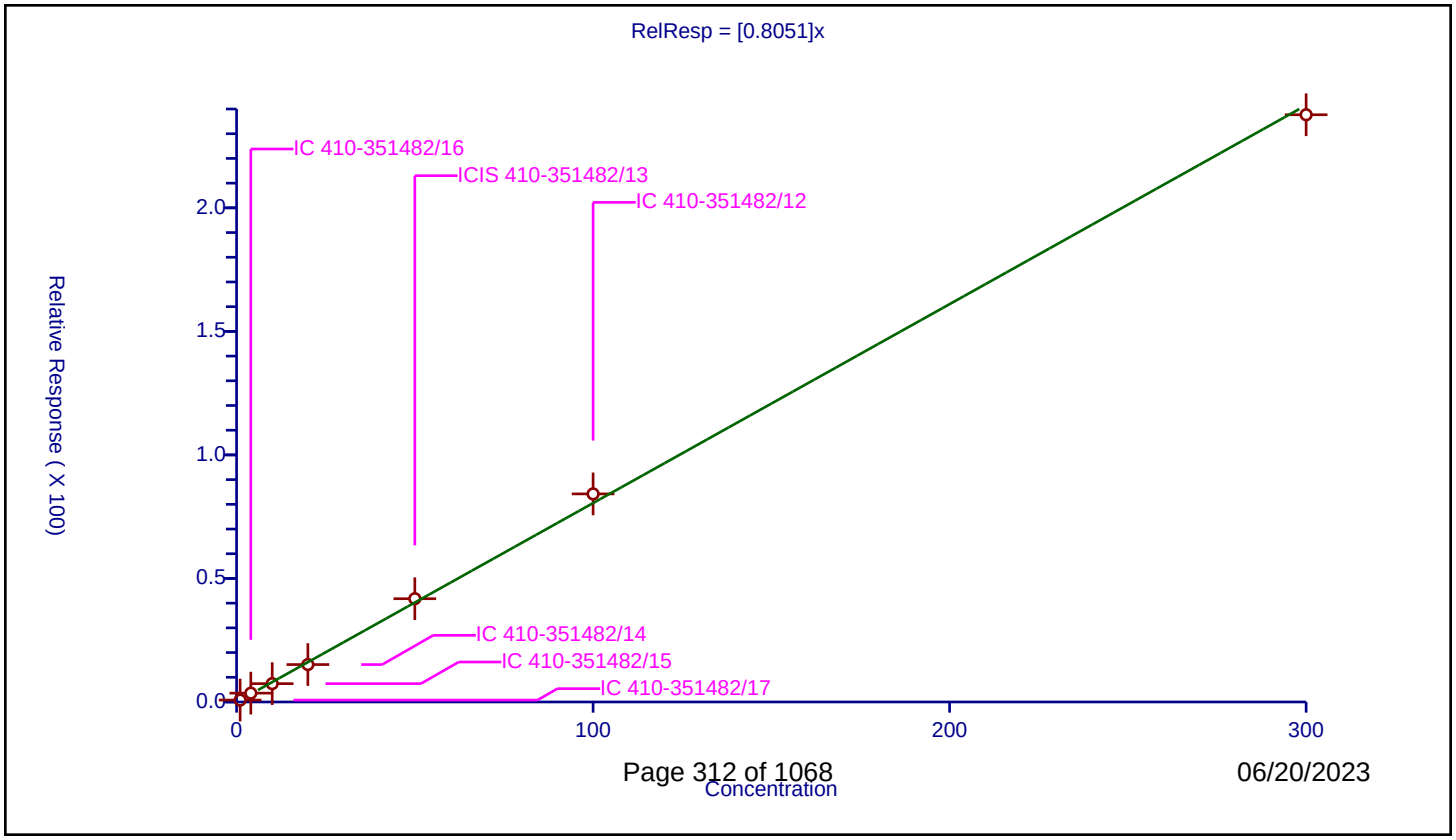
Curve Coefficients

Intercept:	0
Slope:	0.8051

Error Coefficients

Standard Error:	2540000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.772803	50.0	1082424.0	0.772803	Y
2	IC 410-351482/16	4.0	3.574175	50.0	1086950.0	0.893544	Y
3	IC 410-351482/15	10.0	7.4152	50.0	1093187.0	0.74152	Y
4	IC 410-351482/14	20.0	15.148481	50.0	1154393.0	0.757424	Y
5	ICIS 410-351482/13	50.0	41.798347	50.0	1114062.0	0.835967	Y
6	IC 410-351482/12	100.0	84.221984	50.0	1149083.0	0.84222	Y
7	IC 410-351482/11	300.0	237.681364	50.0	1225643.0	0.792271	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

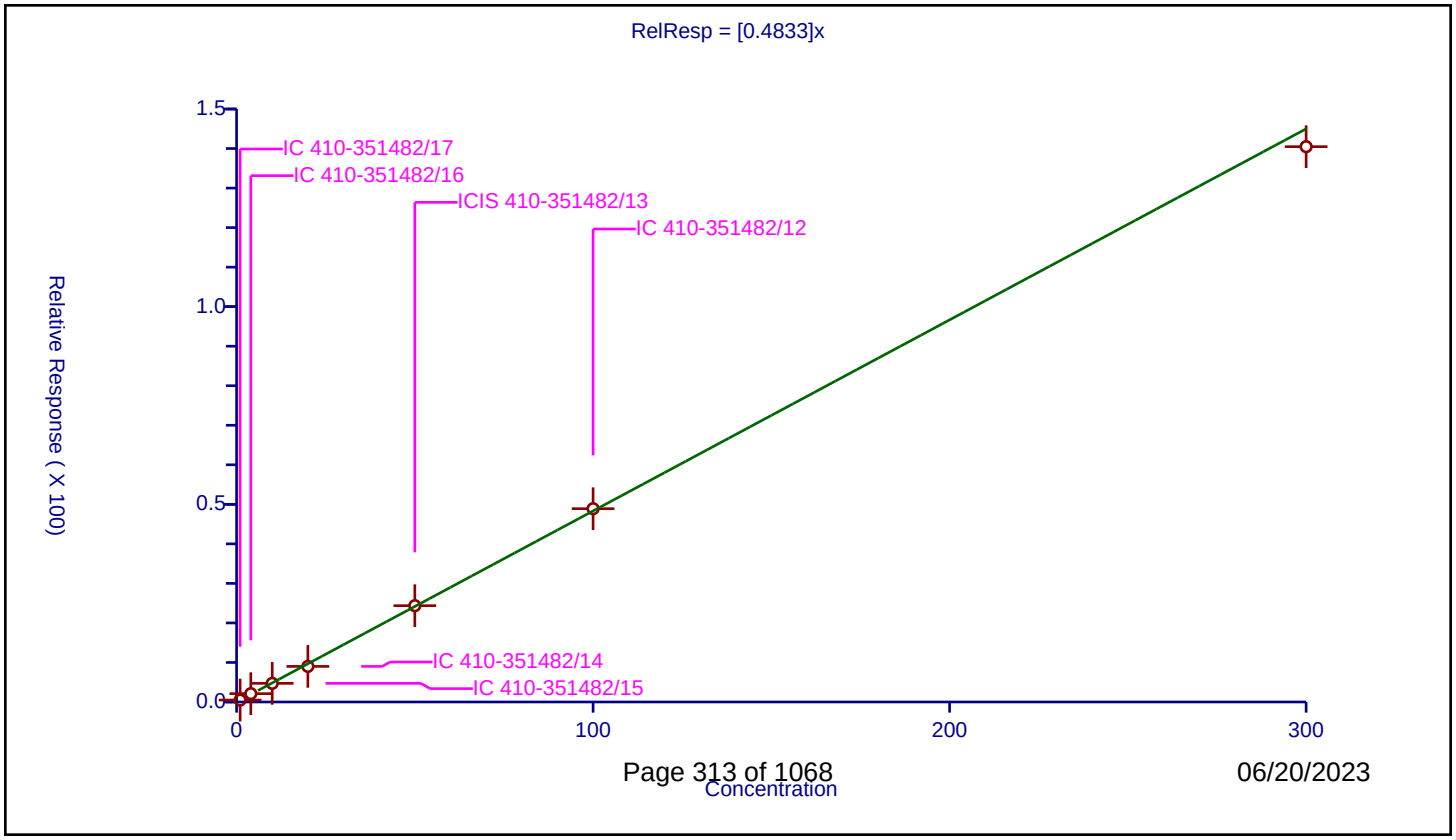
Curve Coefficients

Intercept:	0
Slope:	0.4833

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.490519	50.0	1082424.0	0.490519	Y
2	IC 410-351482/16	4.0	2.105479	50.0	1086950.0	0.52637	Y
3	IC 410-351482/15	10.0	4.714976	50.0	1093187.0	0.471498	Y
4	IC 410-351482/14	20.0	9.005252	50.0	1154393.0	0.450263	Y
5	ICIS 410-351482/13	50.0	24.361705	50.0	1114062.0	0.487234	Y
6	IC 410-351482/12	100.0	48.892987	50.0	1149083.0	0.48893	Y
7	IC 410-351482/11	300.0	140.473205	50.0	1225643.0	0.468244	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

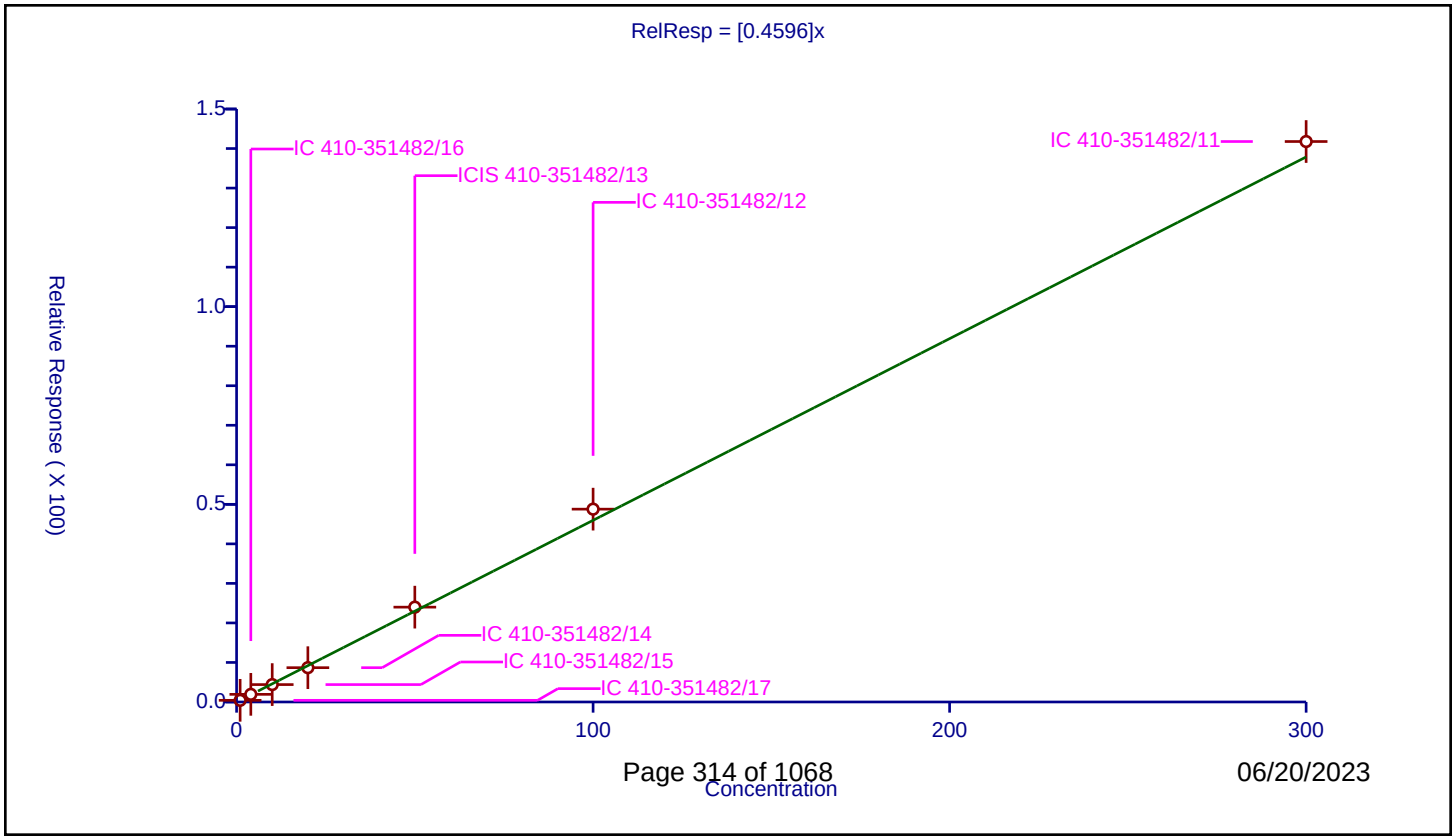
Curve Coefficients

Intercept:	0
Slope:	0.4596

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.419337	50.0	1082424.0	0.419337	Y
2	IC 410-351482/16	4.0	1.934496	50.0	1086950.0	0.483624	Y
3	IC 410-351482/15	10.0	4.398516	50.0	1093187.0	0.439852	Y
4	IC 410-351482/14	20.0	8.676335	50.0	1154393.0	0.433817	Y
5	ICIS 410-351482/13	50.0	23.993817	50.0	1114062.0	0.479876	Y
6	IC 410-351482/12	100.0	48.782594	50.0	1149083.0	0.487826	Y
7	IC 410-351482/11	300.0	141.777296	50.0	1225643.0	0.472591	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

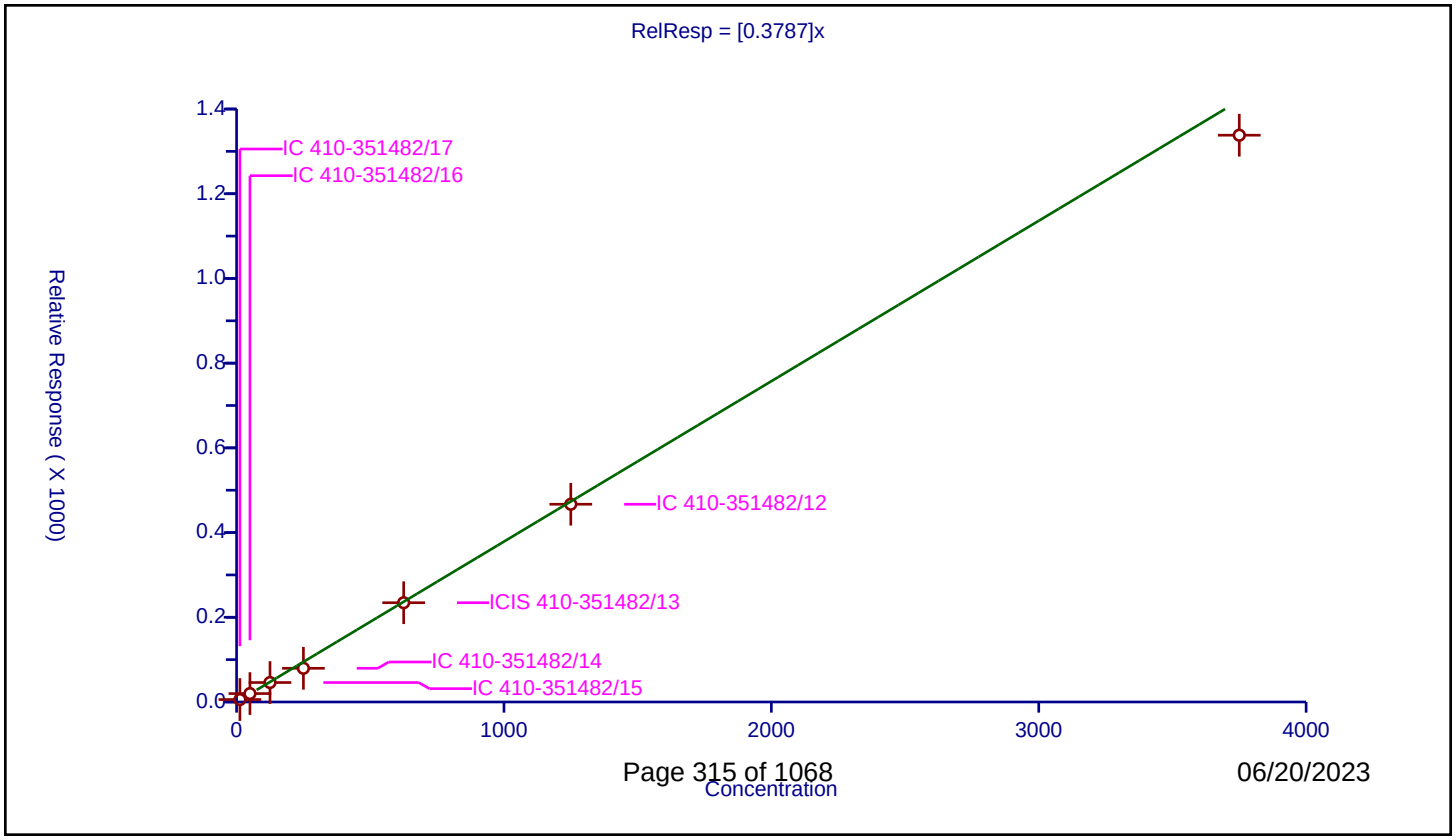
Curve Coefficients

Intercept:	0
Slope:	0.3787

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	12.5	5.77318	250.0	430915.0	0.461854	Y
2	IC 410-351482/16	50.0	19.886493	250.0	438036.0	0.39773	Y
3	IC 410-351482/15	125.0	45.947093	250.0	446519.0	0.367577	Y
4	IC 410-351482/14	250.0	79.573282	250.0	476146.0	0.318293	Y
5	ICIS 410-351482/13	625.0	234.375978	250.0	463533.0	0.375002	Y
6	IC 410-351482/12	1250.0	466.887103	250.0	463626.0	0.37351	Y
7	IC 410-351482/11	3750.0	1338.165297	250.0	461786.0	0.356844	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

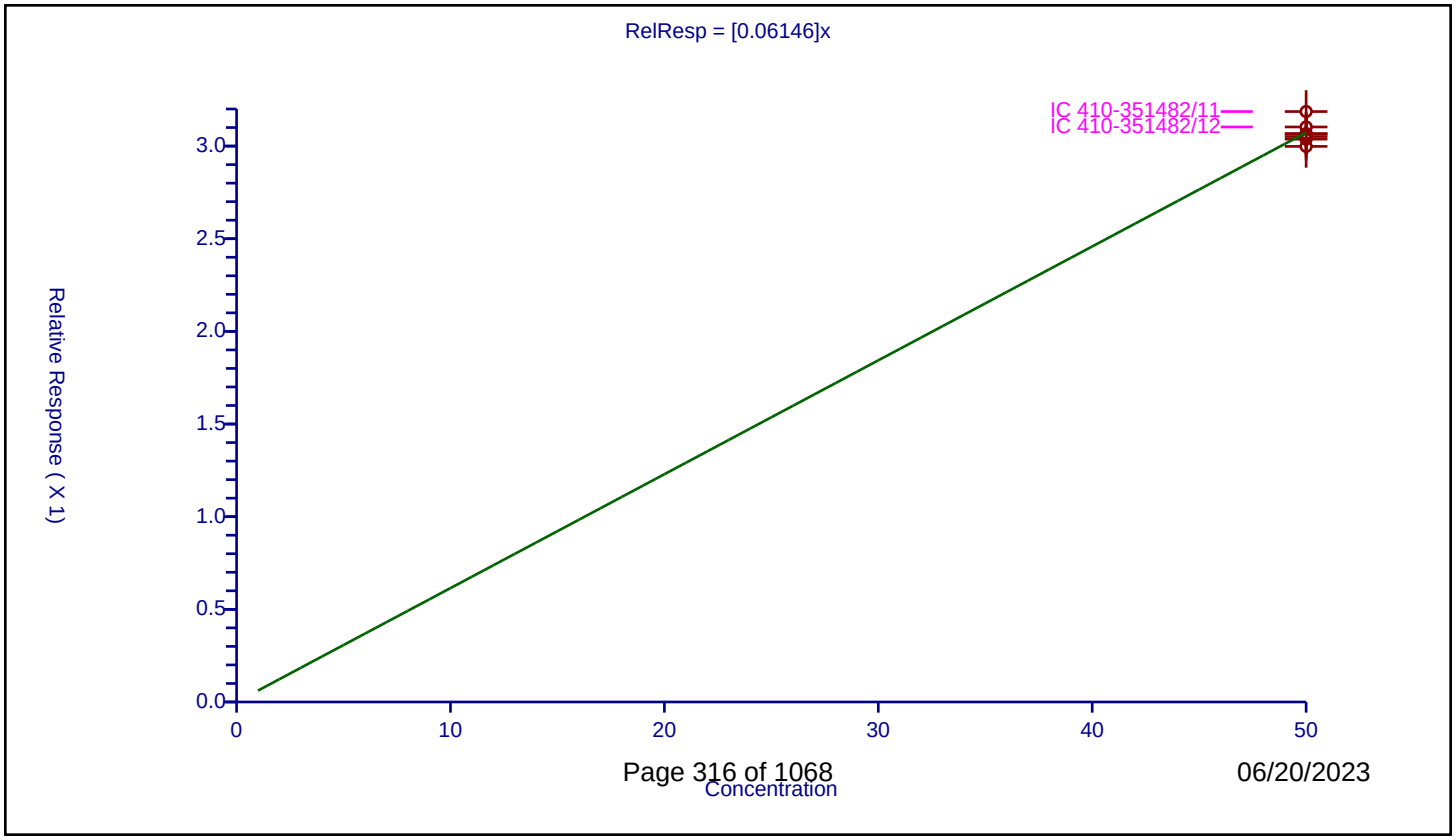
Curve Coefficients

Intercept:	0
Slope:	0.06146

Error Coefficients

Standard Error:	75100
Relative Standard Error:	1.9
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/11	50.0	3.186368	50.0	1225643.0	0.063727	Y
2	IC 410-351482/12	50.0	3.10317	50.0	1149083.0	0.062063	Y
3	ICIS 410-351482/13	50.0	3.037443	50.0	1114062.0	0.060749	Y
4	IC 410-351482/14	50.0	2.998199	50.0	1154393.0	0.059964	Y
5	IC 410-351482/15	50.0	3.066676	50.0	1093187.0	0.061334	Y
6	IC 410-351482/16	50.0	3.066148	50.0	1086950.0	0.061323	Y
7	IC 410-351482/17	50.0	3.051669	50.0	1082424.0	0.061033	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

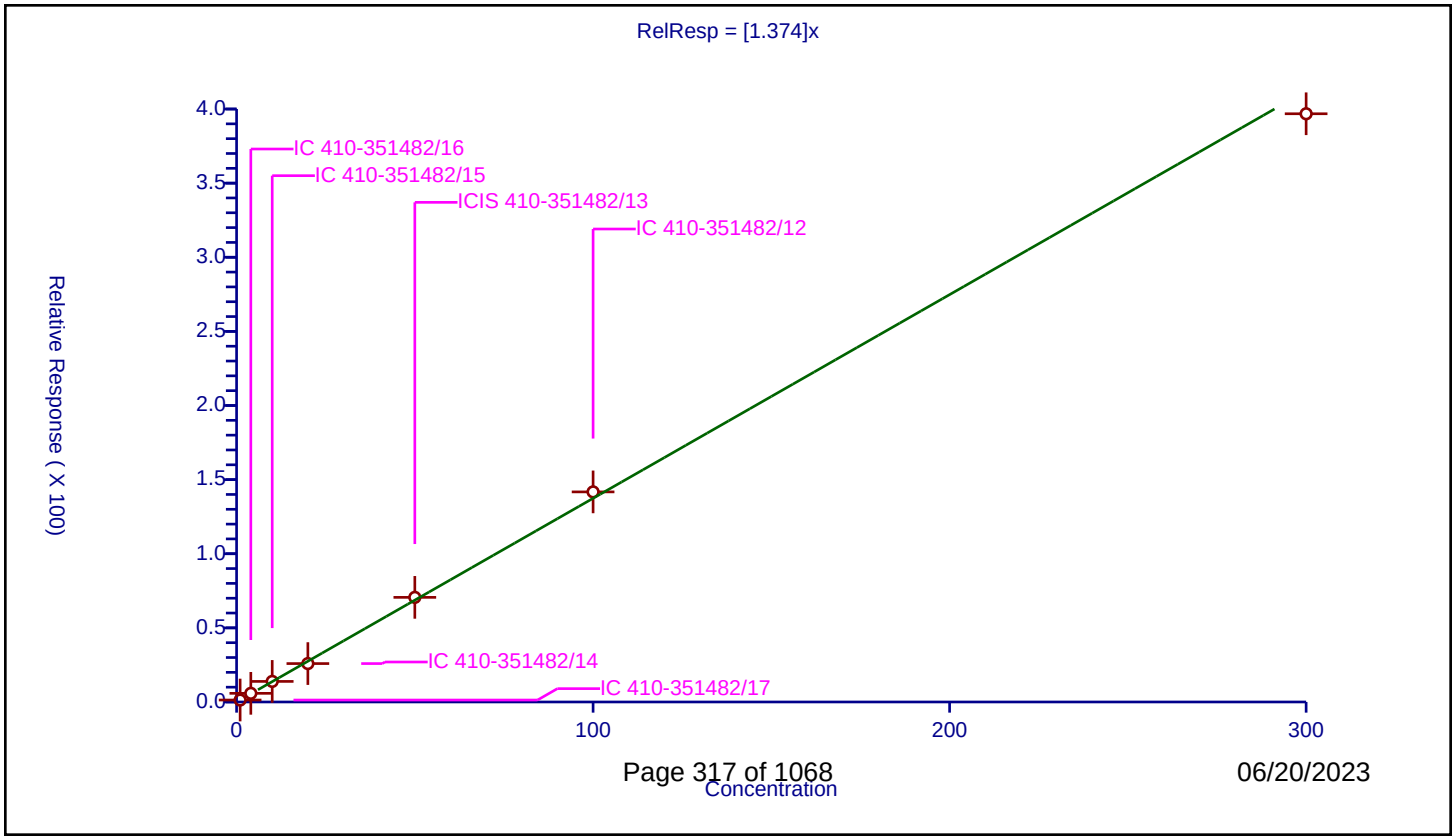
Curve Coefficients

Intercept:	0
Slope:	1.374

Error Coefficients

Standard Error:	4250000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.325959	50.0	1082424.0	1.325959	Y
2	IC 410-351482/16	4.0	5.828281	50.0	1086950.0	1.45707	Y
3	IC 410-351482/15	10.0	13.879327	50.0	1093187.0	1.387933	Y
4	IC 410-351482/14	20.0	25.910284	50.0	1154393.0	1.295514	Y
5	ICIS 410-351482/13	50.0	70.570713	50.0	1114062.0	1.411414	Y
6	IC 410-351482/12	100.0	141.727578	50.0	1149083.0	1.417276	Y
7	IC 410-351482/11	300.0	396.79662	50.0	1225643.0	1.322655	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

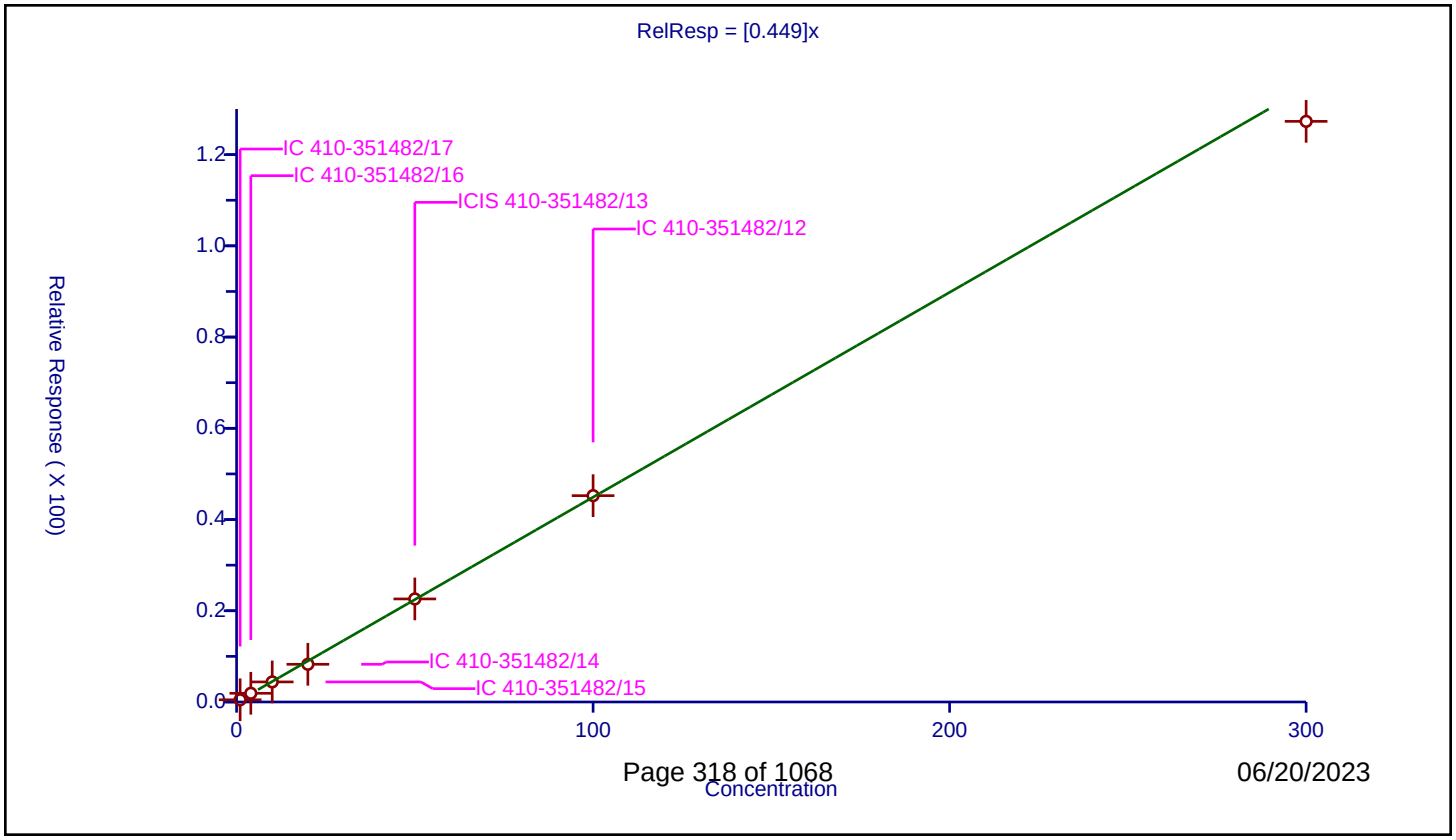
Curve Coefficients

Intercept:	0
Slope:	0.449

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.483683	50.0	1082424.0	0.483683	Y
2	IC 410-351482/16	4.0	1.911357	50.0	1086950.0	0.477839	Y
3	IC 410-351482/15	10.0	4.397647	50.0	1093187.0	0.439765	Y
4	IC 410-351482/14	20.0	8.265686	50.0	1154393.0	0.413284	Y
5	ICIS 410-351482/13	50.0	22.595017	50.0	1114062.0	0.4519	Y
6	IC 410-351482/12	100.0	45.235418	50.0	1149083.0	0.452354	Y
7	IC 410-351482/11	300.0	127.292327	50.0	1225643.0	0.424308	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

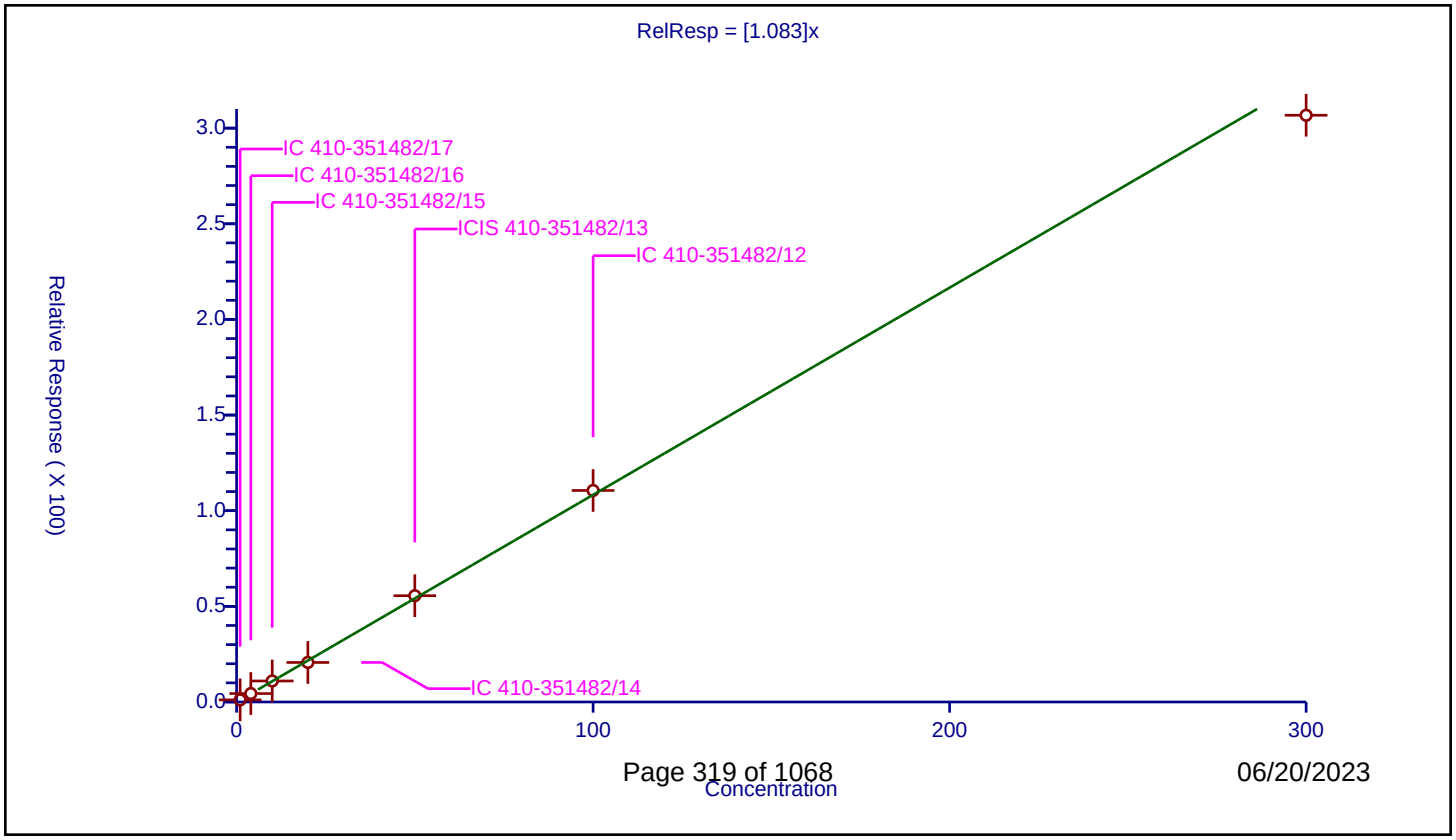
Curve Coefficients

Intercept:	0
Slope:	1.083

Error Coefficients

Standard Error:	3290000
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	IC 410-351482/17	1.0	1.10756	50.0	1082424.0	1.10756	Y
2	IC 410-351482/16	4.0	4.41	50.0	1086950.0	1.1025	Y
3	IC 410-351482/15	10.0	10.976942	50.0	1093187.0	1.097694	Y
4	IC 410-351482/14	20.0	20.672553	50.0	1154393.0	1.033628	Y
5	ICIS 410-351482/13	50.0	55.561629	50.0	1114062.0	1.111233	Y
6	IC 410-351482/12	100.0	110.575607	50.0	1149083.0	1.105756	Y
7	IC 410-351482/11	300.0	306.739524	50.0	1225643.0	1.022465	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

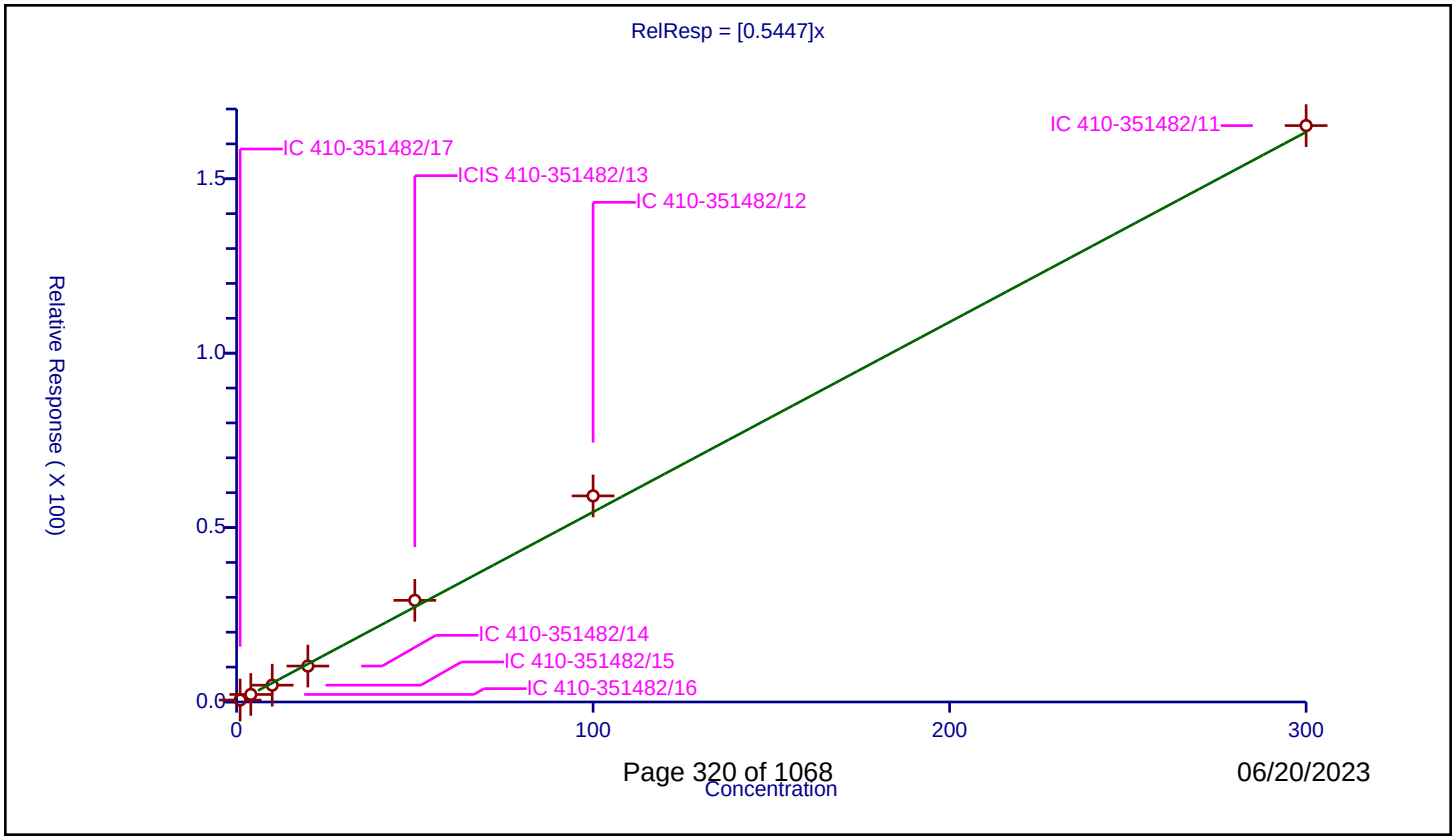
Curve Coefficients

Intercept:	0
Slope:	0.5447

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.551725	50.0	1082424.0	0.551725	Y
2	IC 410-351482/16	4.0	2.156447	50.0	1086950.0	0.539112	Y
3	IC 410-351482/15	10.0	4.823511	50.0	1093187.0	0.482351	Y
4	IC 410-351482/14	20.0	10.298529	50.0	1154393.0	0.514926	Y
5	ICIS 410-351482/13	50.0	29.140838	50.0	1114062.0	0.582817	Y
6	IC 410-351482/12	100.0	59.085767	50.0	1149083.0	0.590858	Y
7	IC 410-351482/11	300.0	165.244325	50.0	1225643.0	0.550814	Y



Calibration / n-Butanol

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

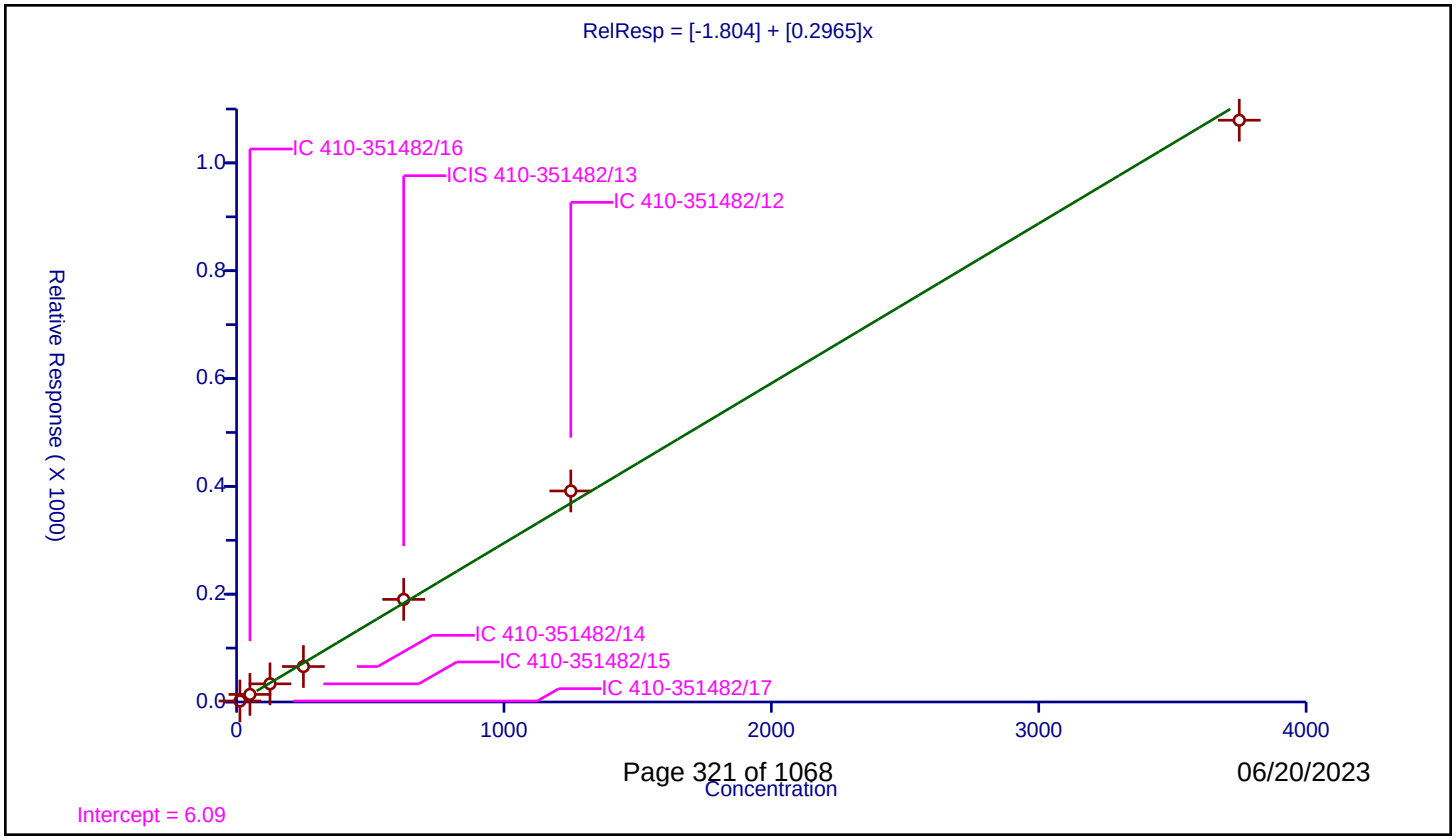
Curve Coefficients

Intercept:	-1.804
Slope:	0.2965

Error Coefficients

Standard Error:	963000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	12.5	1.863477	250.0	430915.0	0.149078	Y
2	IC 410-351482/16	50.0	14.074186	250.0	438036.0	0.281484	Y
3	IC 410-351482/15	125.0	33.662061	250.0	446519.0	0.269296	Y
4	IC 410-351482/14	250.0	65.774993	250.0	476146.0	0.2631	Y
5	ICIS 410-351482/13	625.0	190.32194	250.0	463533.0	0.304515	Y
6	IC 410-351482/12	1250.0	391.449681	250.0	463626.0	0.31316	Y
7	IC 410-351482/11	3750.0	1079.223926	250.0	461786.0	0.287793	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

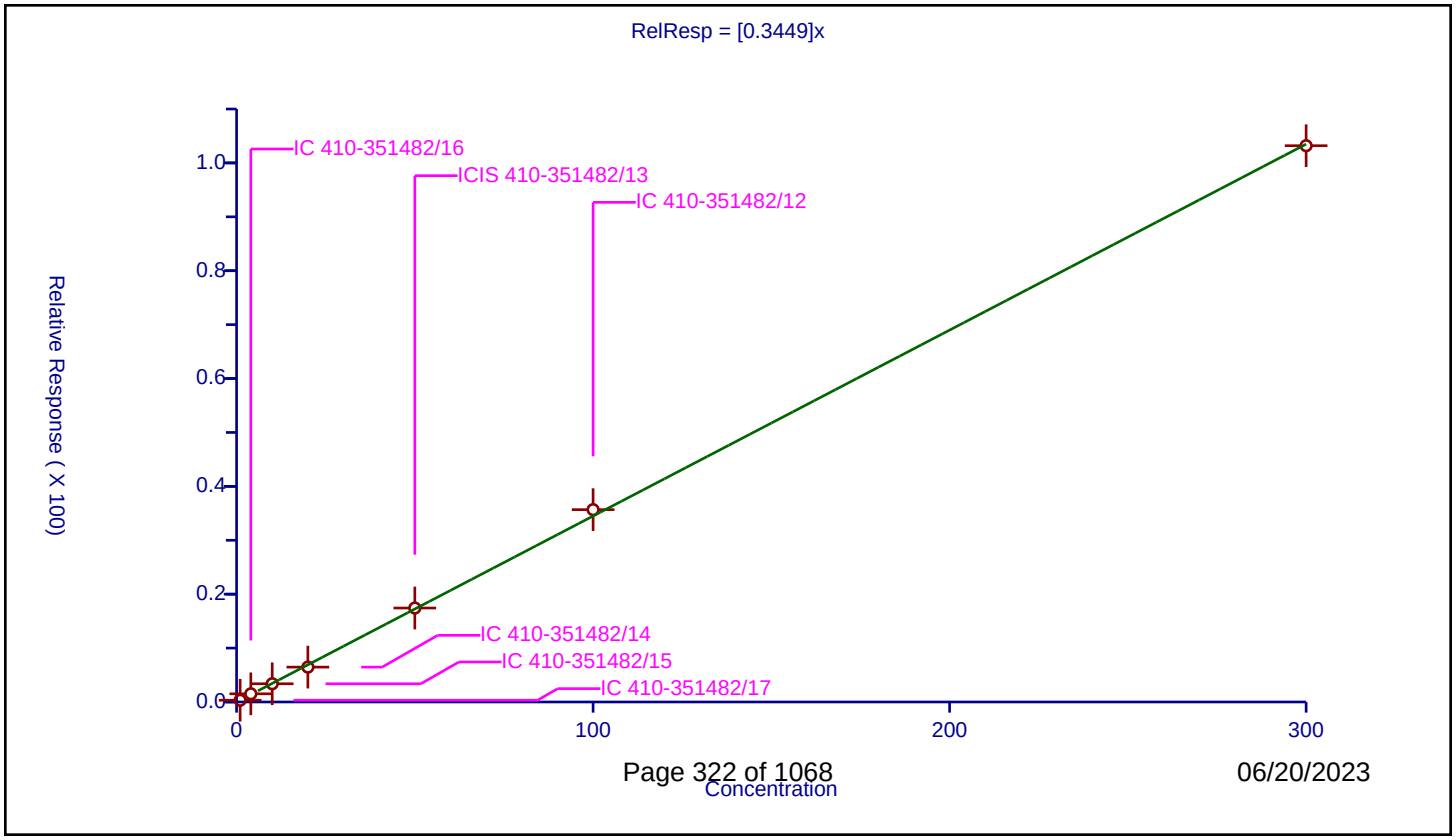
Curve Coefficients

Intercept:	0
Slope:	0.3449

Error Coefficients

Standard Error:	1100000
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	IC 410-351482/17	1.0	0.324503	50.0	1082424.0	0.324503	Y
2	IC 410-351482/16	4.0	1.516583	50.0	1086950.0	0.379146	Y
3	IC 410-351482/15	10.0	3.381947	50.0	1093187.0	0.338195	Y
4	IC 410-351482/14	20.0	6.467598	50.0	1154393.0	0.32338	Y
5	ICIS 410-351482/13	50.0	17.432109	50.0	1114062.0	0.348642	Y
6	IC 410-351482/12	100.0	35.676753	50.0	1149083.0	0.356768	Y
7	IC 410-351482/11	300.0	103.191631	50.0	1225643.0	0.343972	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

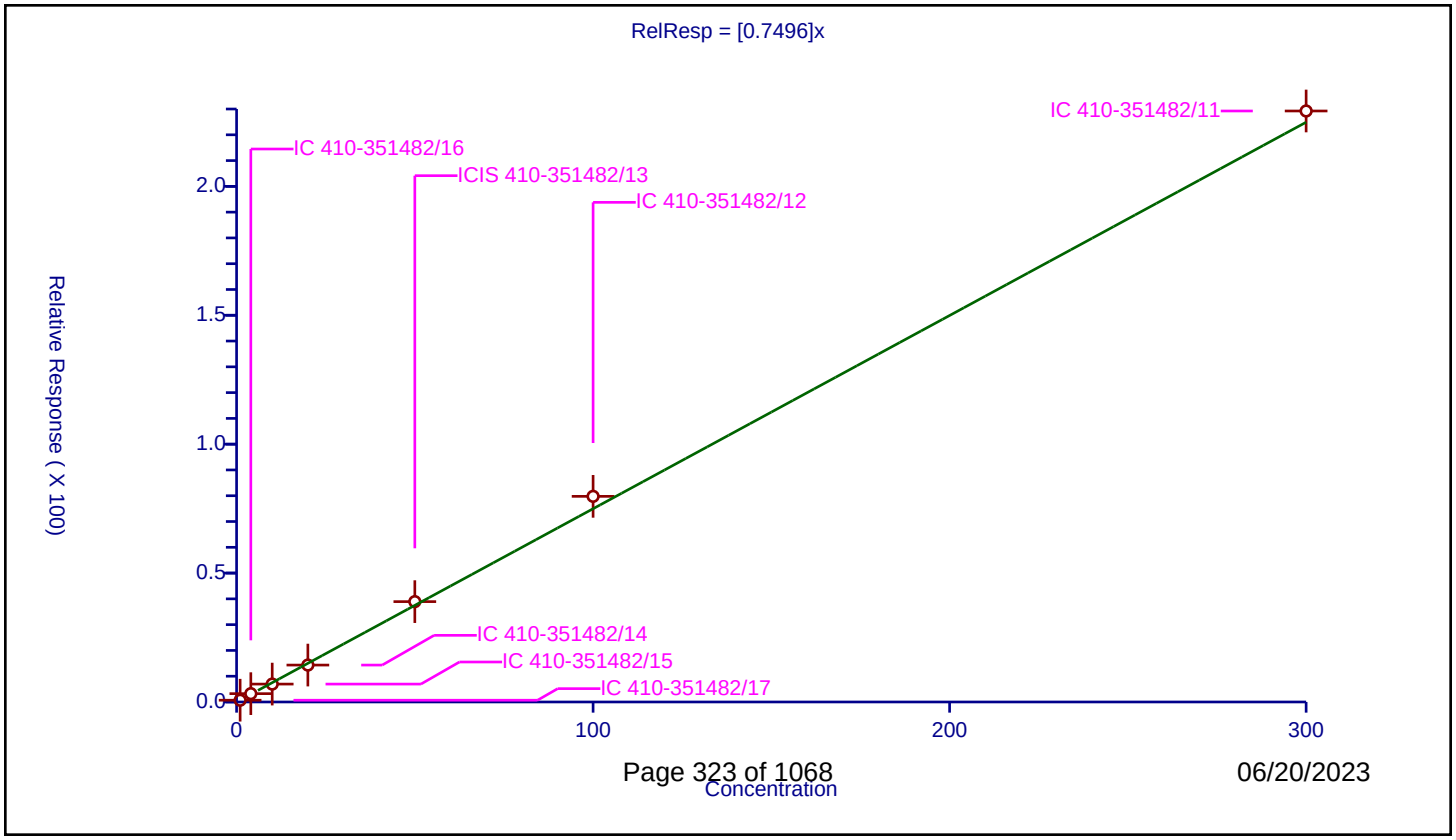
Curve Coefficients

Intercept:	0
Slope:	0.7496

Error Coefficients

Standard Error:	2440000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.68924	50.0	1082424.0	0.68924	Y
2	IC 410-351482/16	4.0	3.227701	50.0	1086950.0	0.806925	Y
3	IC 410-351482/15	10.0	6.946661	50.0	1093187.0	0.694666	Y
4	IC 410-351482/14	20.0	14.316398	50.0	1154393.0	0.71582	Y
5	ICIS 410-351482/13	50.0	38.930419	50.0	1114062.0	0.778608	Y
6	IC 410-351482/12	100.0	79.767606	50.0	1149083.0	0.797676	Y
7	IC 410-351482/11	300.0	229.234165	50.0	1225643.0	0.764114	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

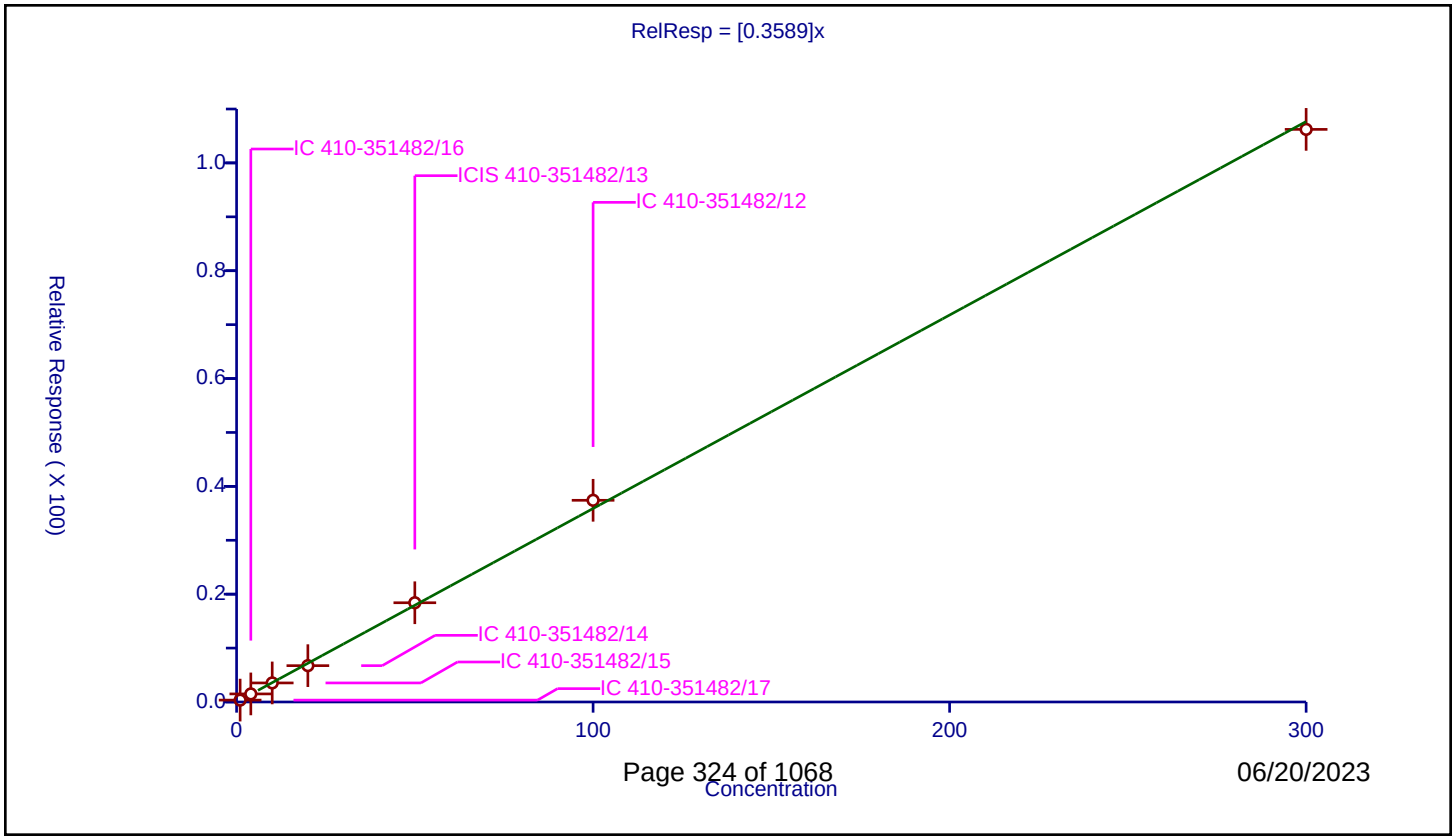
Curve Coefficients

Intercept:	0
Slope:	0.3589

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.350925	50.0	1082424.0	0.350925	Y
2	IC 410-351482/16	4.0	1.498137	50.0	1086950.0	0.374534	Y
3	IC 410-351482/15	10.0	3.535488	50.0	1093187.0	0.353549	Y
4	IC 410-351482/14	20.0	6.739039	50.0	1154393.0	0.336952	Y
5	ICIS 410-351482/13	50.0	18.410062	50.0	1114062.0	0.368201	Y
6	IC 410-351482/12	100.0	37.416618	50.0	1149083.0	0.374166	Y
7	IC 410-351482/11	300.0	106.218573	50.0	1225643.0	0.354062	Y



Calibration / 2-ethoxy-2-methyl butane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

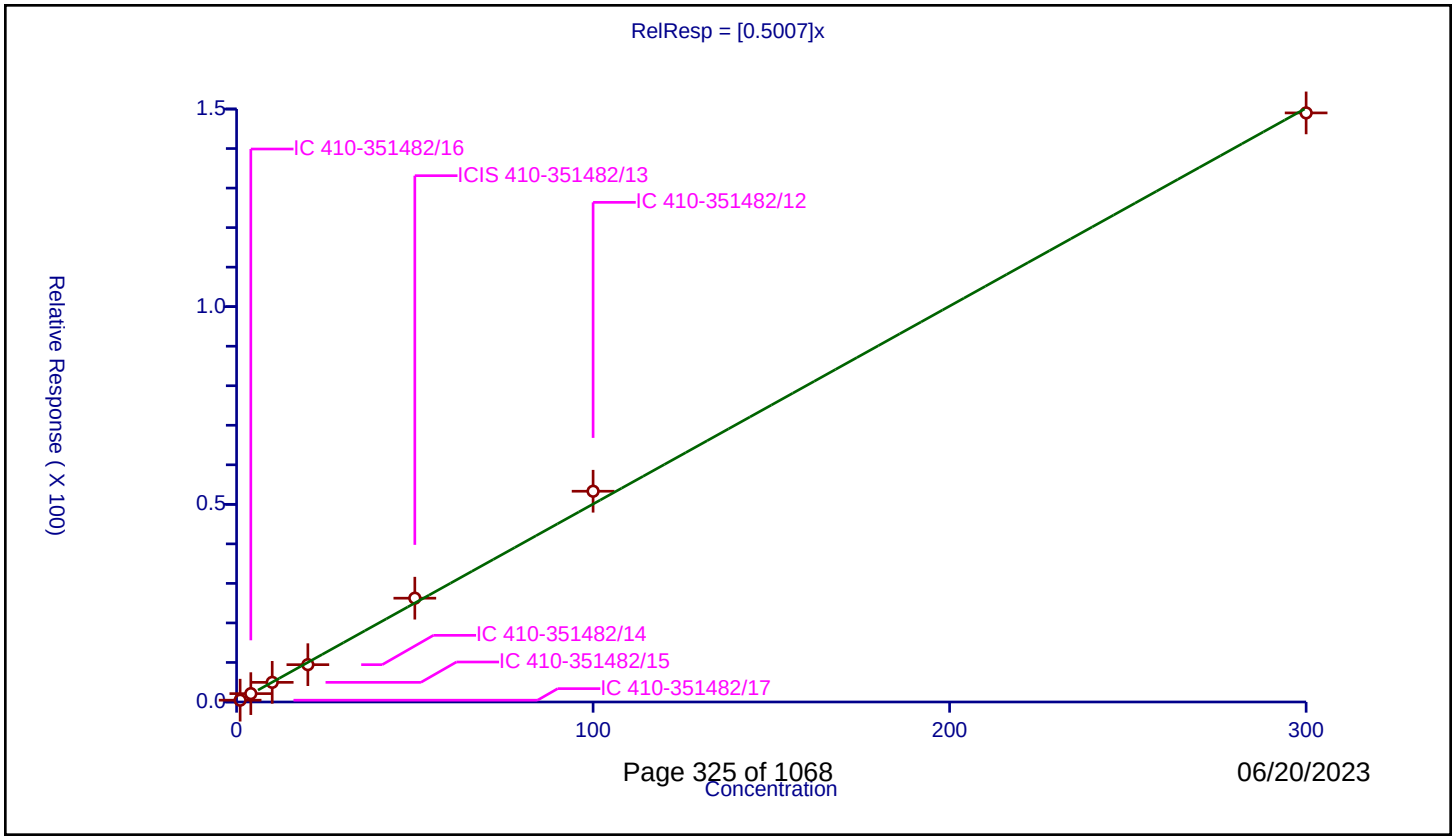
Curve Coefficients

Intercept:	0
Slope:	0.5007

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.453011	50.0	1082424.0	0.453011	Y
2	IC 410-351482/16	4.0	2.113069	50.0	1086950.0	0.528267	Y
3	IC 410-351482/15	10.0	4.967357	50.0	1093187.0	0.496736	Y
4	IC 410-351482/14	20.0	9.438813	50.0	1154393.0	0.471941	Y
5	ICIS 410-351482/13	50.0	26.25949	50.0	1114062.0	0.52519	Y
6	IC 410-351482/12	100.0	53.312511	50.0	1149083.0	0.533125	Y
7	IC 410-351482/11	300.0	149.015333	50.0	1225643.0	0.496718	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

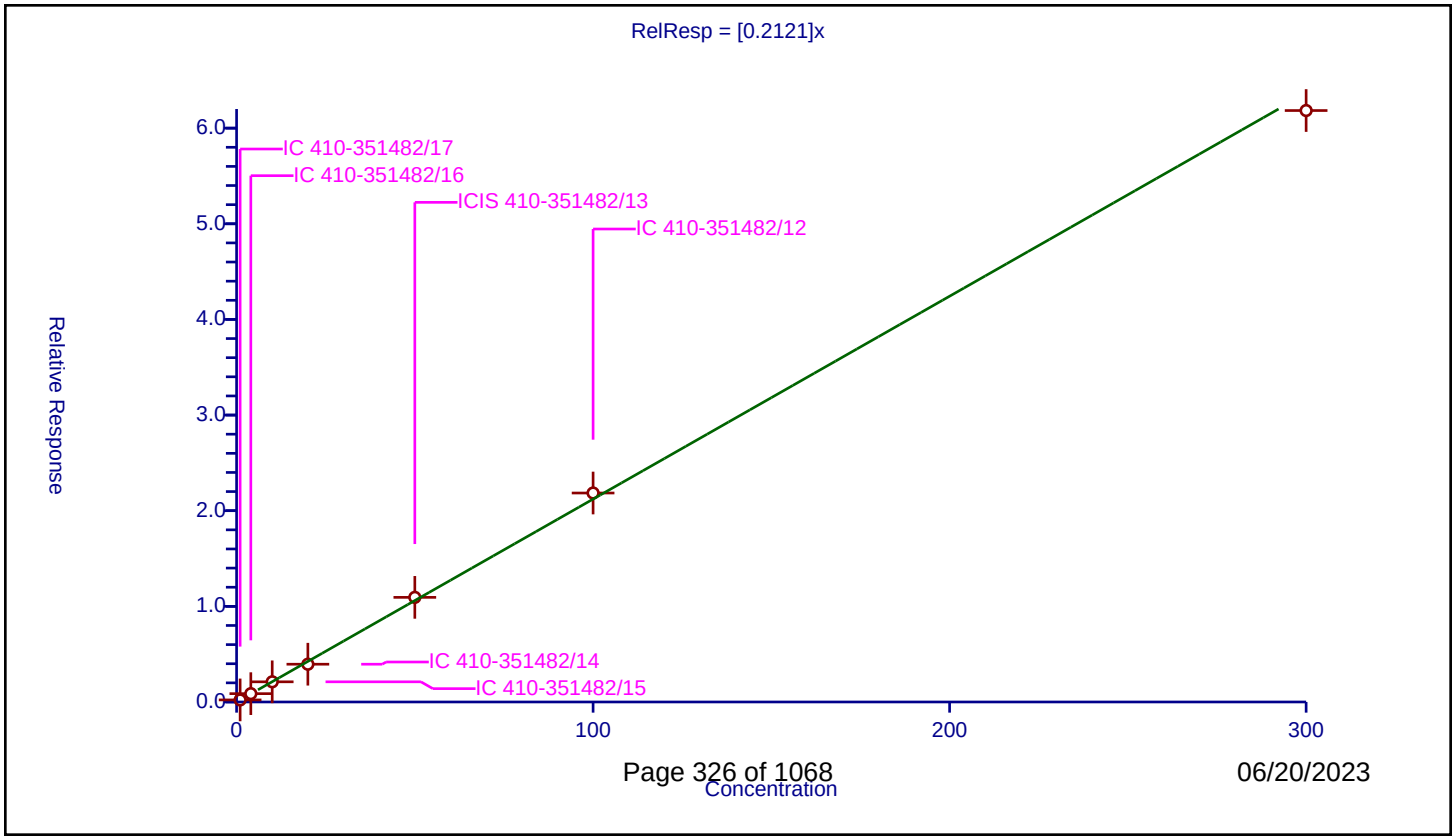
Curve Coefficients

Intercept:	0
Slope:	0.2121

Error Coefficients

Standard Error:	661000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.215396	50.0	1082424.0	0.215396	Y
2	IC 410-351482/16	4.0	0.870601	50.0	1086950.0	0.21765	Y
3	IC 410-351482/15	10.0	2.110298	50.0	1093187.0	0.21103	Y
4	IC 410-351482/14	20.0	3.948265	50.0	1154393.0	0.197413	Y
5	ICIS 410-351482/13	50.0	10.94028	50.0	1114062.0	0.218806	Y
6	IC 410-351482/12	100.0	21.851033	50.0	1149083.0	0.21851	Y
7	IC 410-351482/11	300.0	61.840275	50.0	1225643.0	0.206134	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

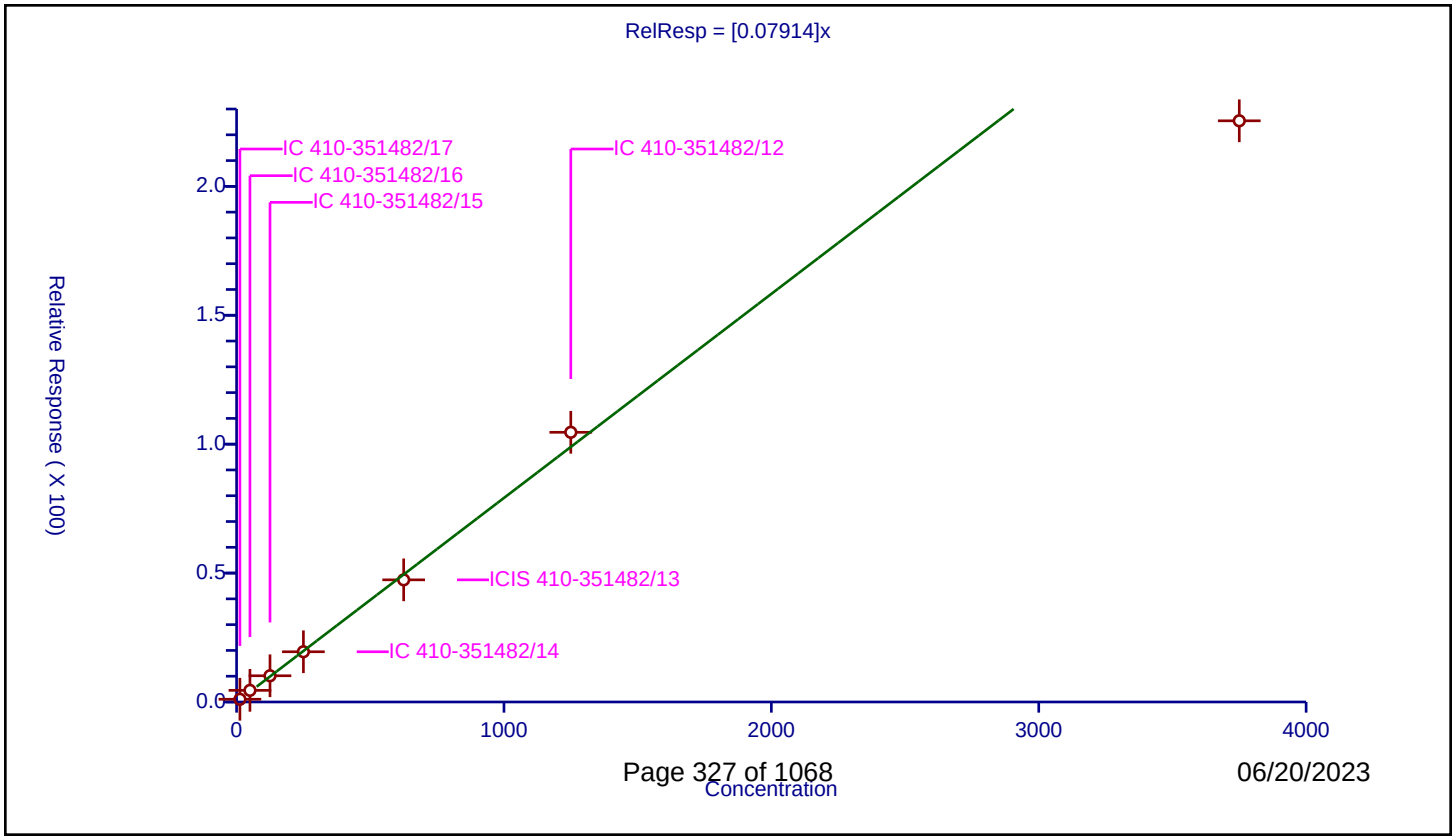
Curve Coefficients

Intercept:	0
Slope:	0.07914

Error Coefficients

Standard Error:	192000
Relative Standard Error:	12.2
Correlation Coefficient:	0.983
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	12.5	1.060534	250.0	430915.0	0.084843	Y
2	IC 410-351482/16	50.0	4.512757	250.0	438036.0	0.090255	Y
3	IC 410-351482/15	125.0	10.16978	250.0	446519.0	0.081358	Y
4	IC 410-351482/14	250.0	19.48562	250.0	476146.0	0.077942	Y
5	ICIS 410-351482/13	625.0	47.374189	250.0	463533.0	0.075799	Y
6	IC 410-351482/12	1250.0	104.605328	250.0	463626.0	0.083684	Y
7	IC 410-351482/11	3750.0	225.430719	250.0	461786.0	0.060115	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

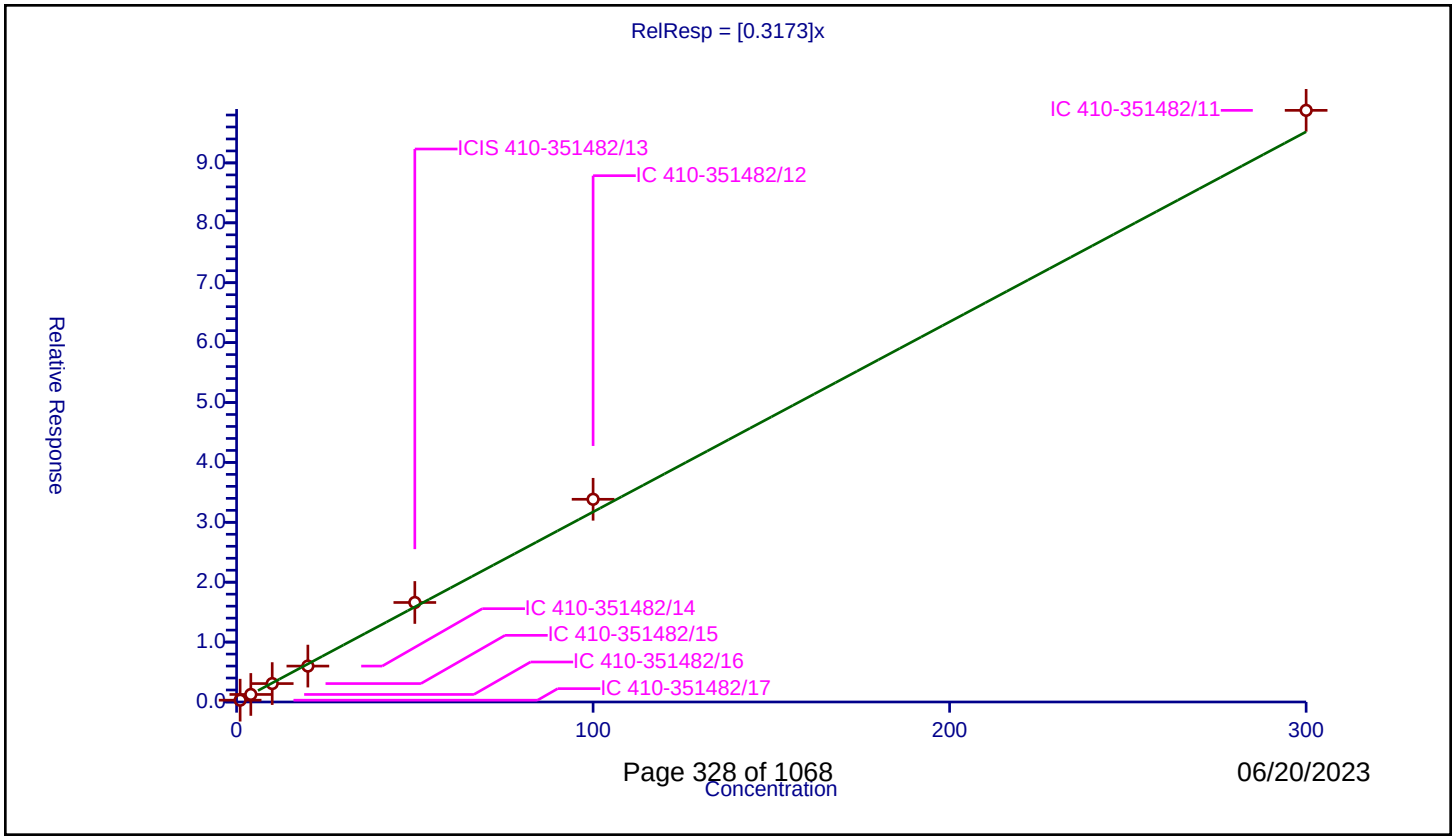
Curve Coefficients

Intercept:	0
Slope:	0.3173

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.300298	50.0	1082424.0	0.300298	Y
2	IC 410-351482/16	4.0	1.256084	50.0	1086950.0	0.314021	Y
3	IC 410-351482/15	10.0	3.07285	50.0	1093187.0	0.307285	Y
4	IC 410-351482/14	20.0	5.996571	50.0	1154393.0	0.299829	Y
5	ICIS 410-351482/13	50.0	16.614291	50.0	1114062.0	0.332286	Y
6	IC 410-351482/12	100.0	33.840767	50.0	1149083.0	0.338408	Y
7	IC 410-351482/11	300.0	98.776683	50.0	1225643.0	0.329256	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

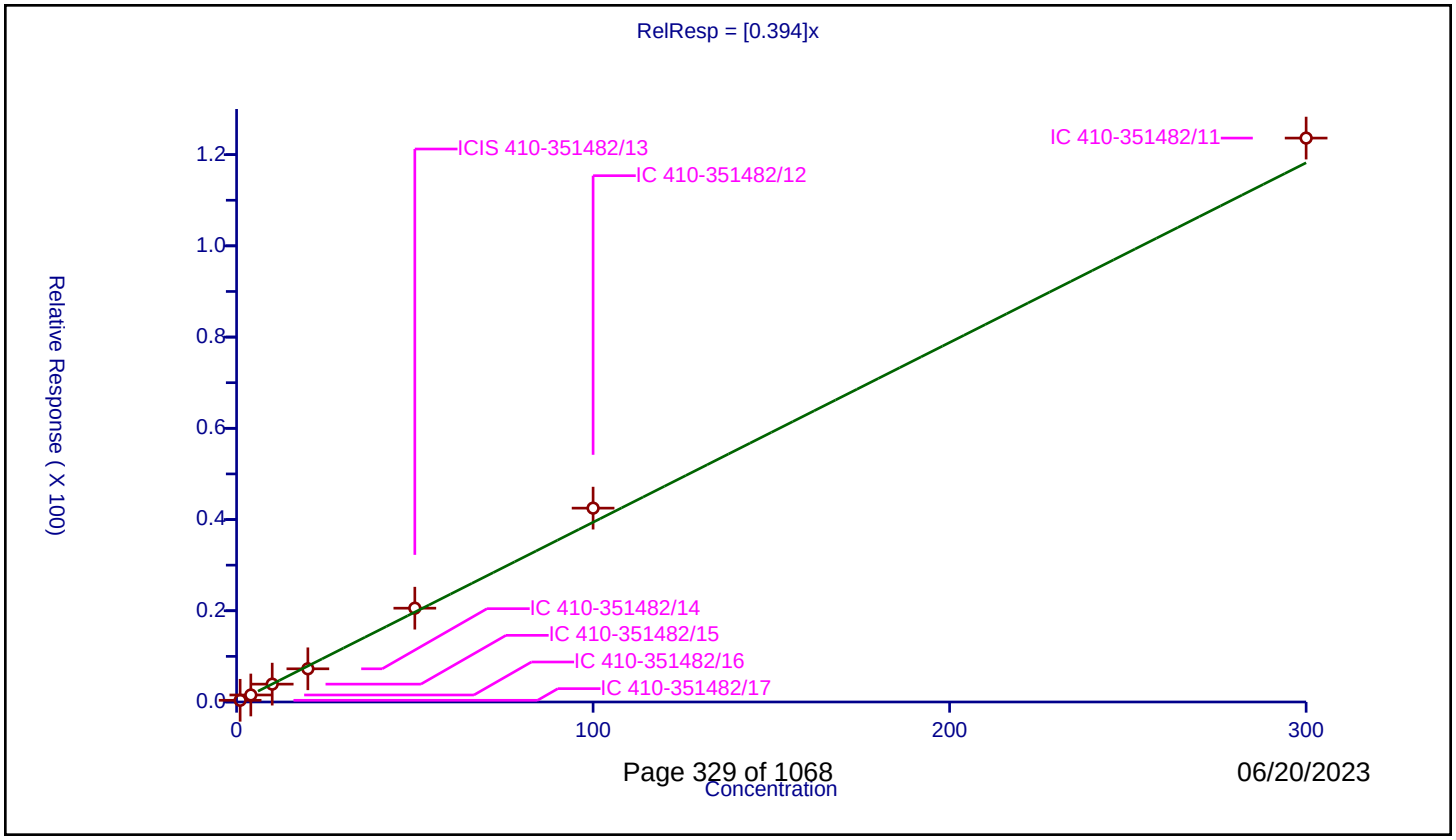
Curve Coefficients

Intercept:	0
Slope:	0.394

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.371112	50.0	1082424.0	0.371112	Y
2	IC 410-351482/16	4.0	1.533833	50.0	1086950.0	0.383458	Y
3	IC 410-351482/15	10.0	3.914335	50.0	1093187.0	0.391433	Y
4	IC 410-351482/14	20.0	7.278457	50.0	1154393.0	0.363923	Y
5	ICIS 410-351482/13	50.0	20.563532	50.0	1114062.0	0.411271	Y
6	IC 410-351482/12	100.0	42.501934	50.0	1149083.0	0.425019	Y
7	IC 410-351482/11	300.0	123.629067	50.0	1225643.0	0.412097	Y



06/20/2023

Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

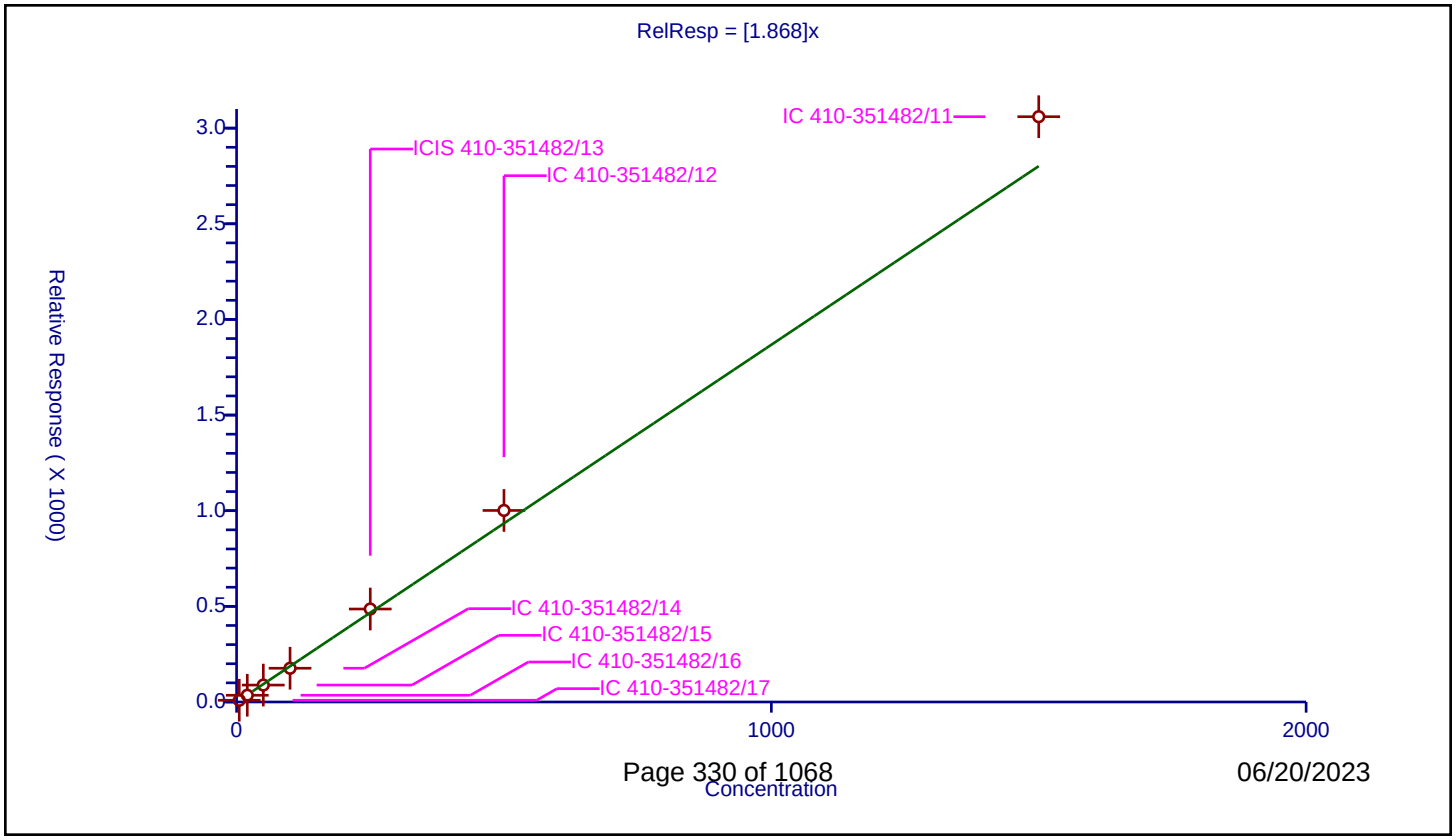
Curve Coefficients

Intercept:	0
Slope:	1.868

Error Coefficients

Standard Error:	2460000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	5.0	8.953622	250.0	430915.0	1.790724	Y
2	IC 410-351482/16	20.0	35.26822	250.0	438036.0	1.763411	Y
3	IC 410-351482/15	50.0	88.396015	250.0	446519.0	1.76792	Y
4	IC 410-351482/14	100.0	176.382874	250.0	476146.0	1.763829	Y
5	ICIS 410-351482/13	250.0	486.080818	250.0	463533.0	1.944323	Y
6	IC 410-351482/12	500.0	1001.379884	250.0	463626.0	2.00276	Y
7	IC 410-351482/11	1500.0	3059.880551	250.0	461786.0	2.03992	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

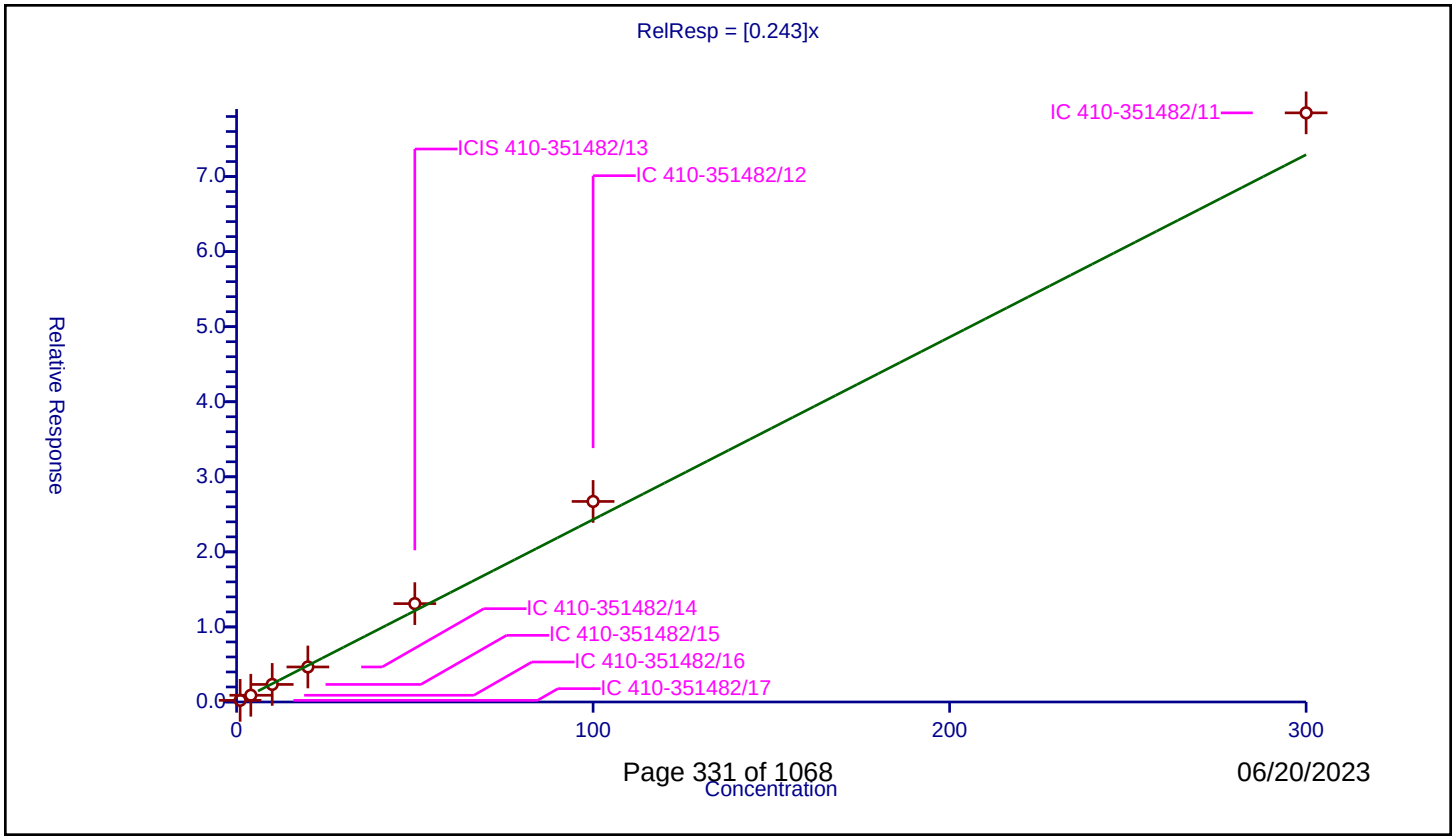
Curve Coefficients

Intercept:	0
Slope:	0.243

Error Coefficients

Standard Error:	834000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.218583	50.0	1082424.0	0.218583	Y
2	IC 410-351482/16	4.0	0.897925	50.0	1086950.0	0.224481	Y
3	IC 410-351482/15	10.0	2.340085	50.0	1093187.0	0.234008	Y
4	IC 410-351482/14	20.0	4.666912	50.0	1154393.0	0.233346	Y
5	ICIS 410-351482/13	50.0	13.104612	50.0	1114062.0	0.262092	Y
6	IC 410-351482/12	100.0	26.717913	50.0	1149083.0	0.267179	Y
7	IC 410-351482/11	300.0	78.487537	50.0	1225643.0	0.261625	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

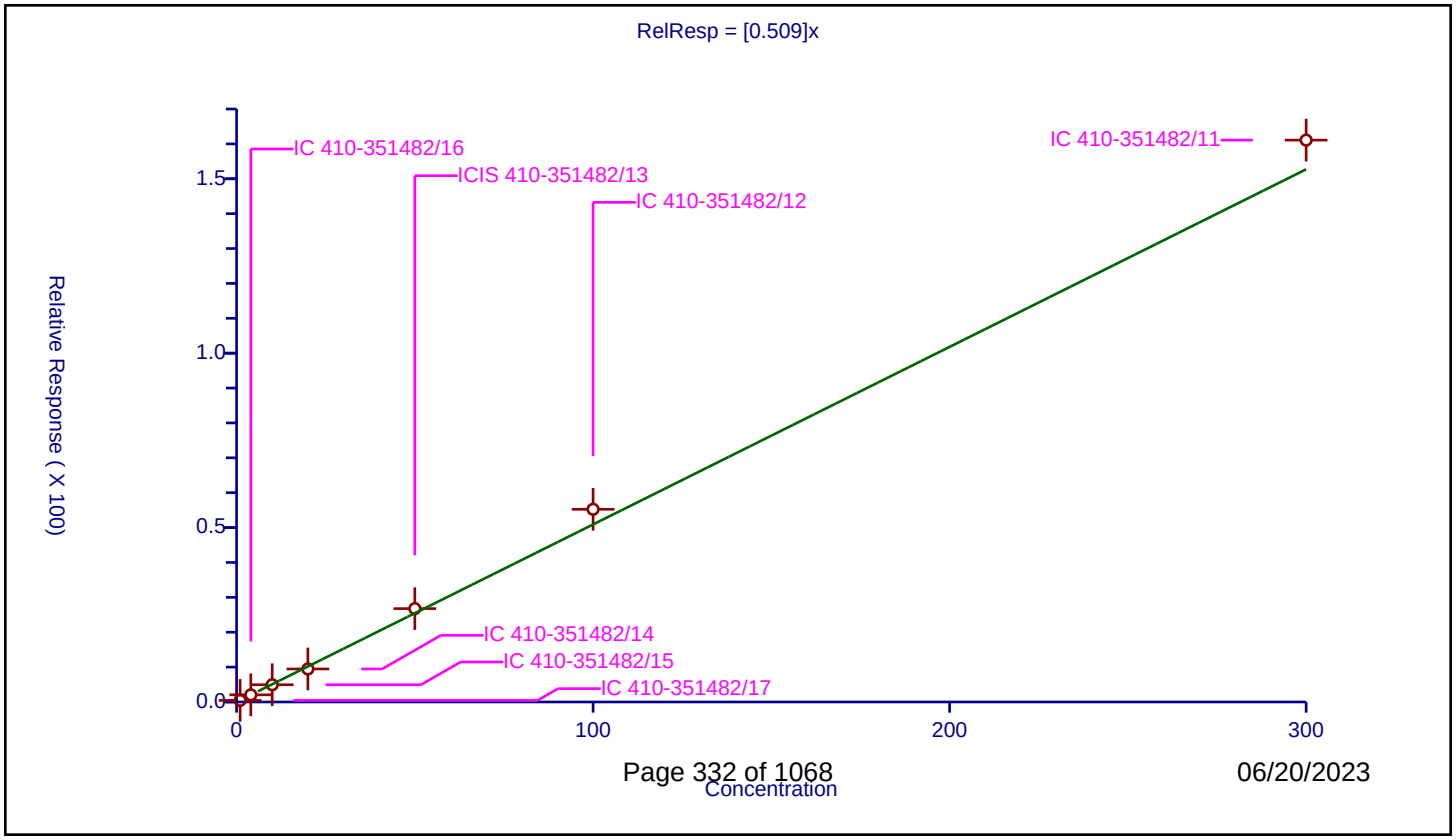
Curve Coefficients

Intercept:	0
Slope:	0.509

Error Coefficients

Standard Error:	1710000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.457076	50.0	1082424.0	0.457076	Y
2	IC 410-351482/16	4.0	2.054234	50.0	1086950.0	0.513559	Y
3	IC 410-351482/15	10.0	4.941195	50.0	1093187.0	0.494119	Y
4	IC 410-351482/14	20.0	9.471168	50.0	1154393.0	0.473558	Y
5	ICIS 410-351482/13	50.0	26.76772	50.0	1114062.0	0.535354	Y
6	IC 410-351482/12	100.0	55.248925	50.0	1149083.0	0.552489	Y
7	IC 410-351482/11	300.0	161.087078	50.0	1225643.0	0.536957	Y



06/20/2023

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

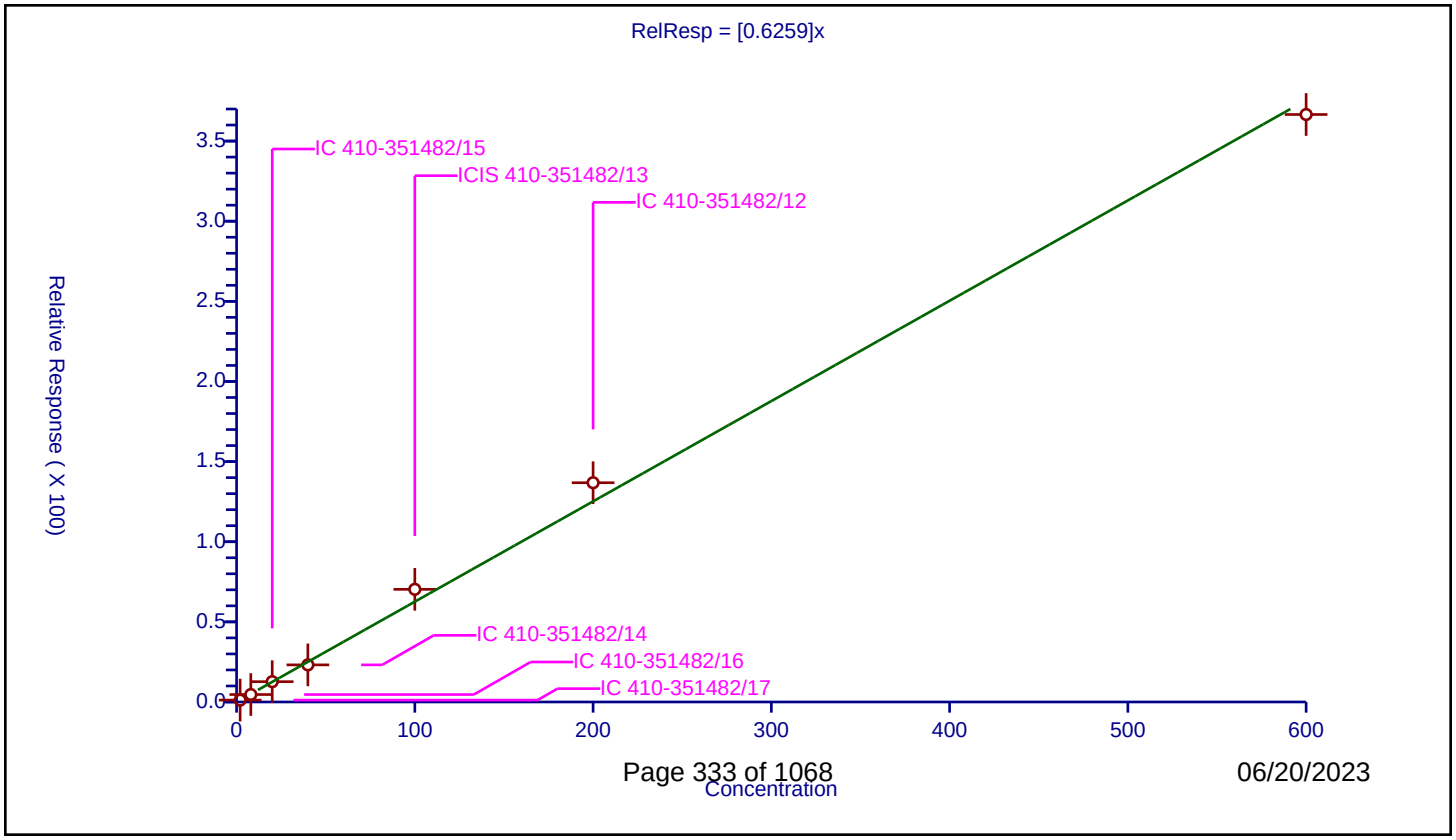
Curve Coefficients

Intercept:	0
Slope:	0.6259

Error Coefficients

Standard Error:	3950000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	2.0	1.17976	50.0	1082424.0	0.58988	Y
2	IC 410-351482/16	8.0	4.647132	50.0	1086950.0	0.580891	Y
3	IC 410-351482/15	20.0	12.671986	50.0	1093187.0	0.633599	Y
4	IC 410-351482/14	40.0	23.151128	50.0	1154393.0	0.578778	Y
5	ICIS 410-351482/13	100.0	70.294562	50.0	1114062.0	0.702946	Y
6	IC 410-351482/12	200.0	136.812658	50.0	1149083.0	0.684063	Y
7	IC 410-351482/11	600.0	366.575667	50.0	1225643.0	0.610959	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

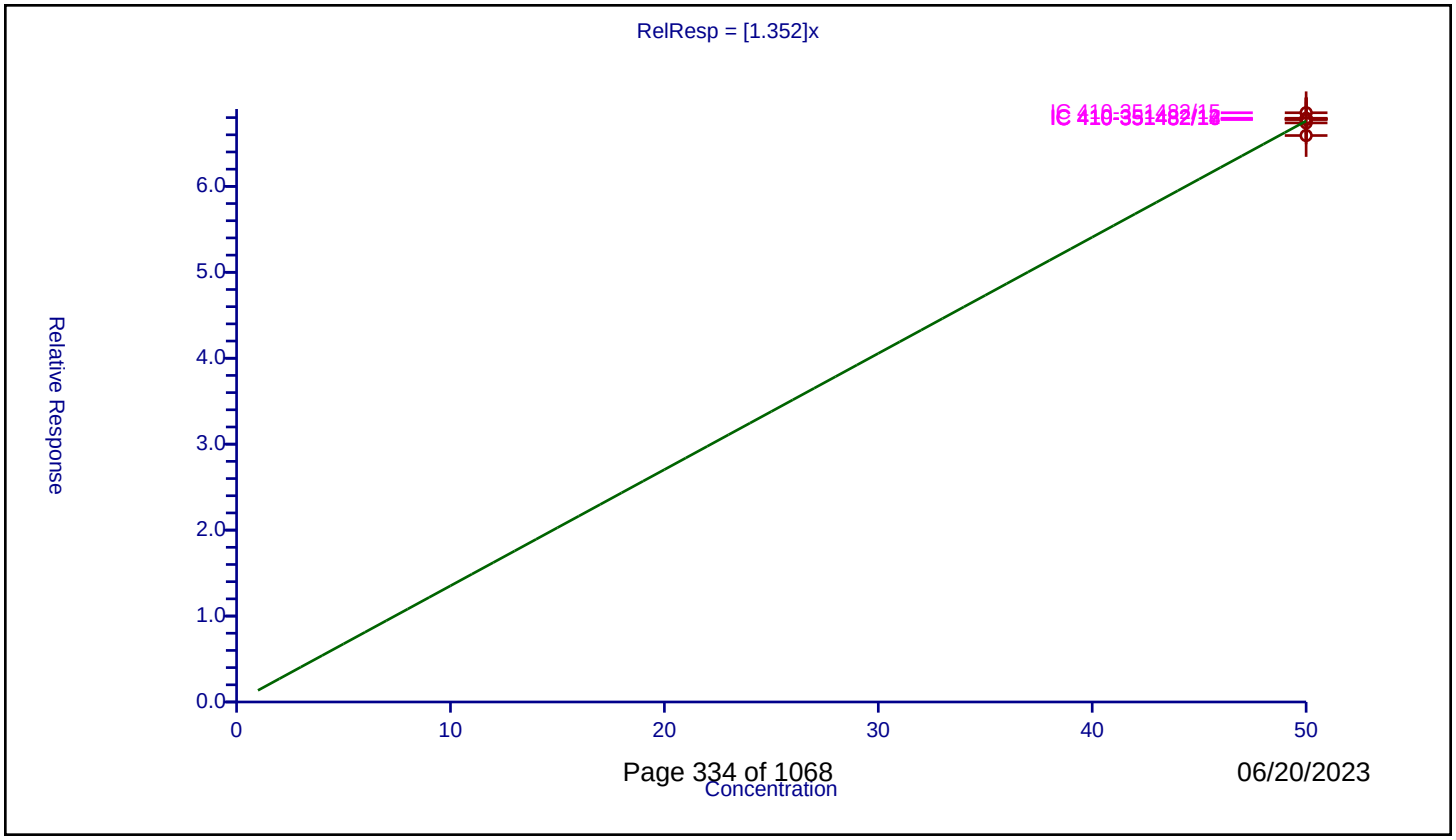
Curve Coefficients

Intercept:	0
Slope:	1.352

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	1.2
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/11	50.0	65.916933	50.0	951694.0	1.318339	Y
2	IC 410-351482/12	50.0	67.92478	50.0	842677.0	1.358496	Y
3	ICIS 410-351482/13	50.0	67.38372	50.0	813166.0	1.347674	Y
4	IC 410-351482/14	50.0	67.782341	50.0	832008.0	1.355647	Y
5	IC 410-351482/15	50.0	68.564488	50.0	774748.0	1.37129	Y
6	IC 410-351482/16	50.0	67.814593	50.0	762128.0	1.356292	Y
7	IC 410-351482/17	50.0	67.850155	50.0	760534.0	1.357003	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

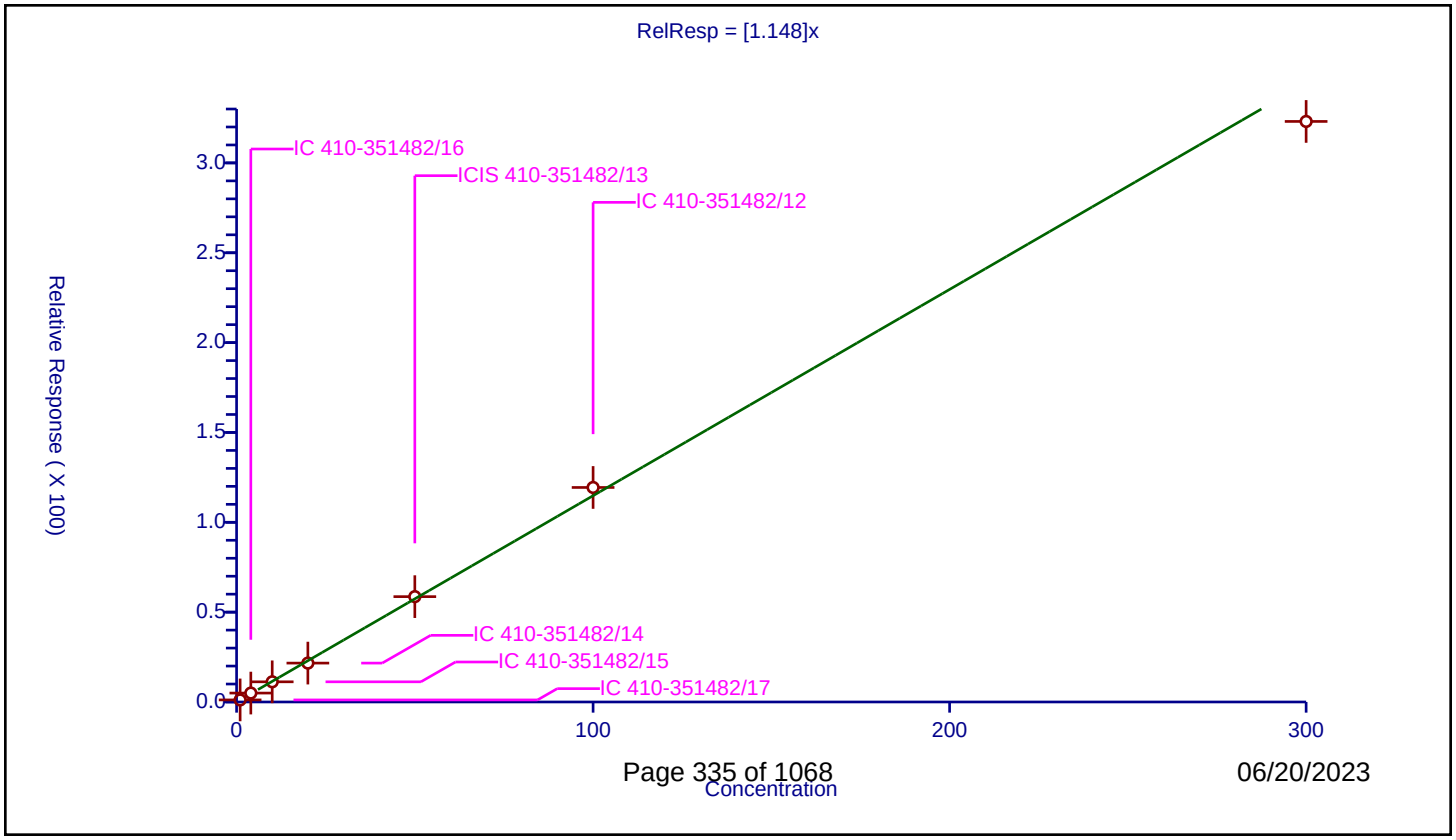
Curve Coefficients

Intercept:	0
Slope:	1.148

Error Coefficients

Standard Error:	2680000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.145642	50.0	760534.0	1.145642	Y
2	IC 410-351482/16	4.0	4.967669	50.0	762128.0	1.241917	Y
3	IC 410-351482/15	10.0	11.23191	50.0	774748.0	1.123191	Y
4	IC 410-351482/14	20.0	21.641138	50.0	832008.0	1.082057	Y
5	ICIS 410-351482/13	50.0	58.622717	50.0	813166.0	1.172454	Y
6	IC 410-351482/12	100.0	119.378125	50.0	842677.0	1.193781	Y
7	IC 410-351482/11	300.0	323.085729	50.0	951694.0	1.076952	Y



06/20/2023

Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

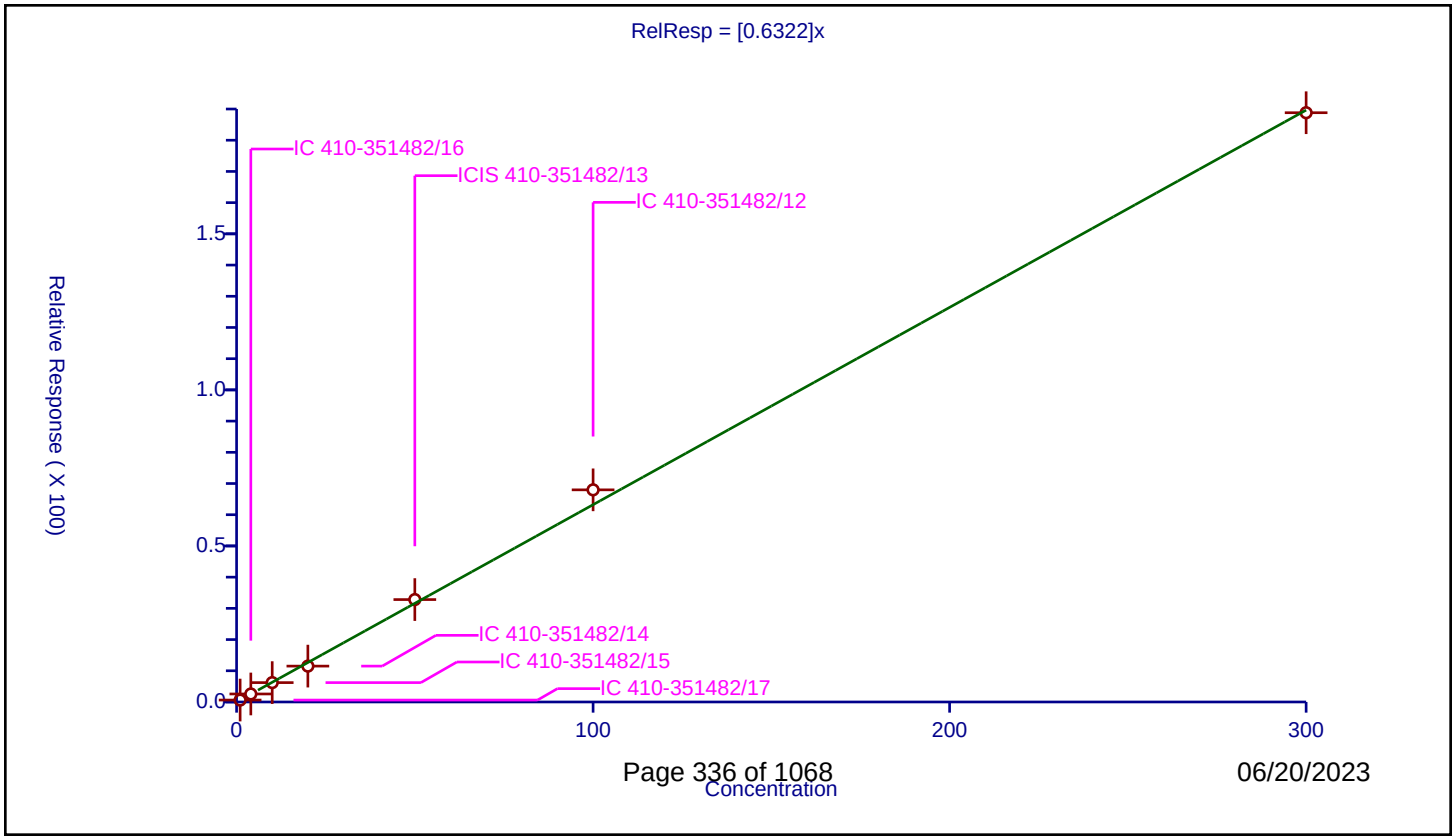
Curve Coefficients

Intercept:	0
Slope:	0.6322

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.622655	50.0	760534.0	0.622655	Y
2	IC 410-351482/16	4.0	2.566367	50.0	762128.0	0.641592	Y
3	IC 410-351482/15	10.0	6.208664	50.0	774748.0	0.620866	Y
4	IC 410-351482/14	20.0	11.493399	50.0	832008.0	0.57467	Y
5	ICIS 410-351482/13	50.0	32.814395	50.0	813166.0	0.656288	Y
6	IC 410-351482/12	100.0	67.974087	50.0	842677.0	0.679741	Y
7	IC 410-351482/11	300.0	188.815207	50.0	951694.0	0.629384	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

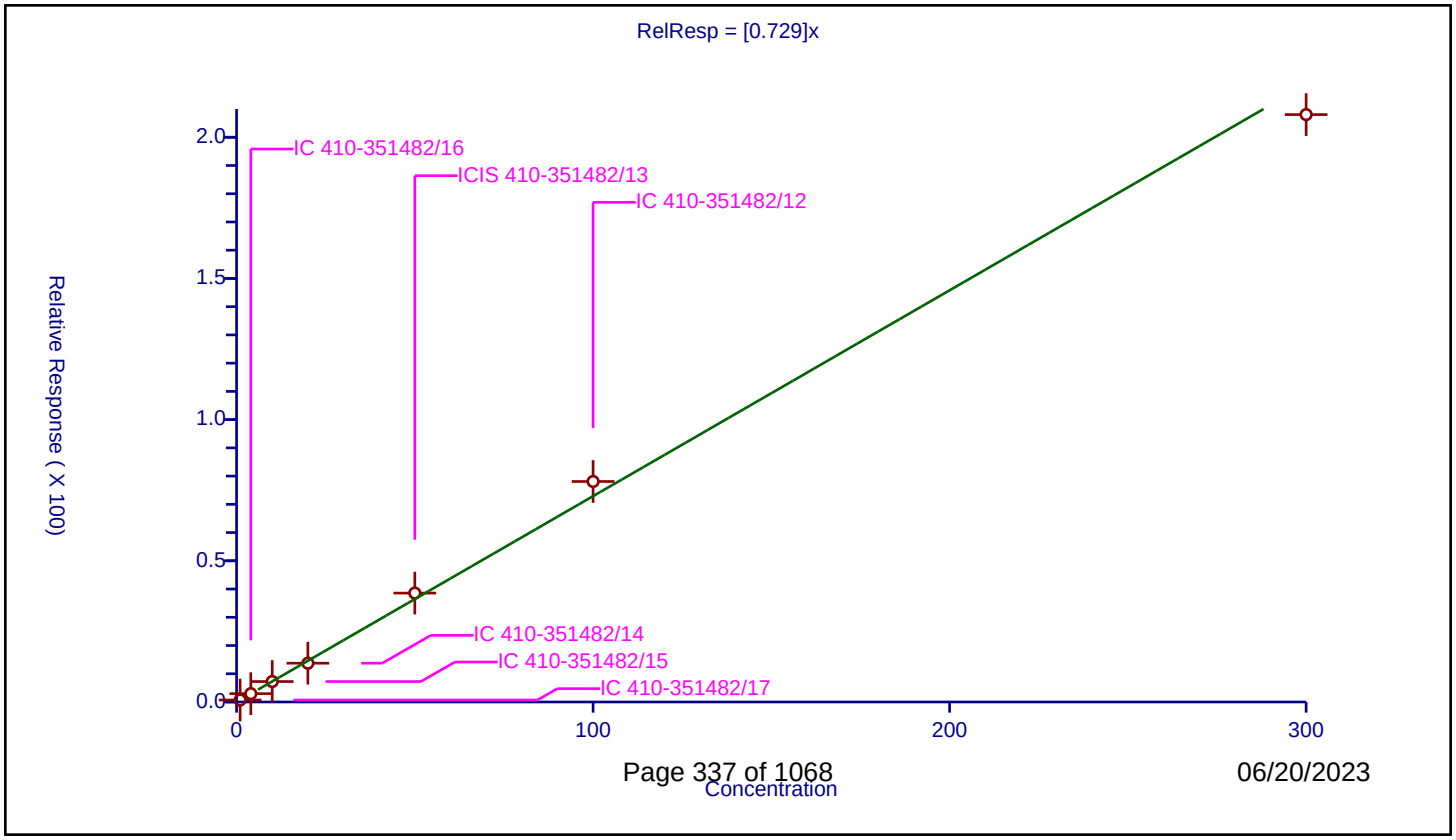
Curve Coefficients

Intercept:	0
Slope:	0.729

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.707924	50.0	760534.0	0.707924	Y
2	IC 410-351482/16	4.0	2.954031	50.0	762128.0	0.738508	Y
3	IC 410-351482/15	10.0	7.242355	50.0	774748.0	0.724235	Y
4	IC 410-351482/14	20.0	13.7322	50.0	832008.0	0.68661	Y
5	ICIS 410-351482/13	50.0	38.564574	50.0	813166.0	0.771291	Y
6	IC 410-351482/12	100.0	78.084308	50.0	842677.0	0.780843	Y
7	IC 410-351482/11	300.0	208.029051	50.0	951694.0	0.69343	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

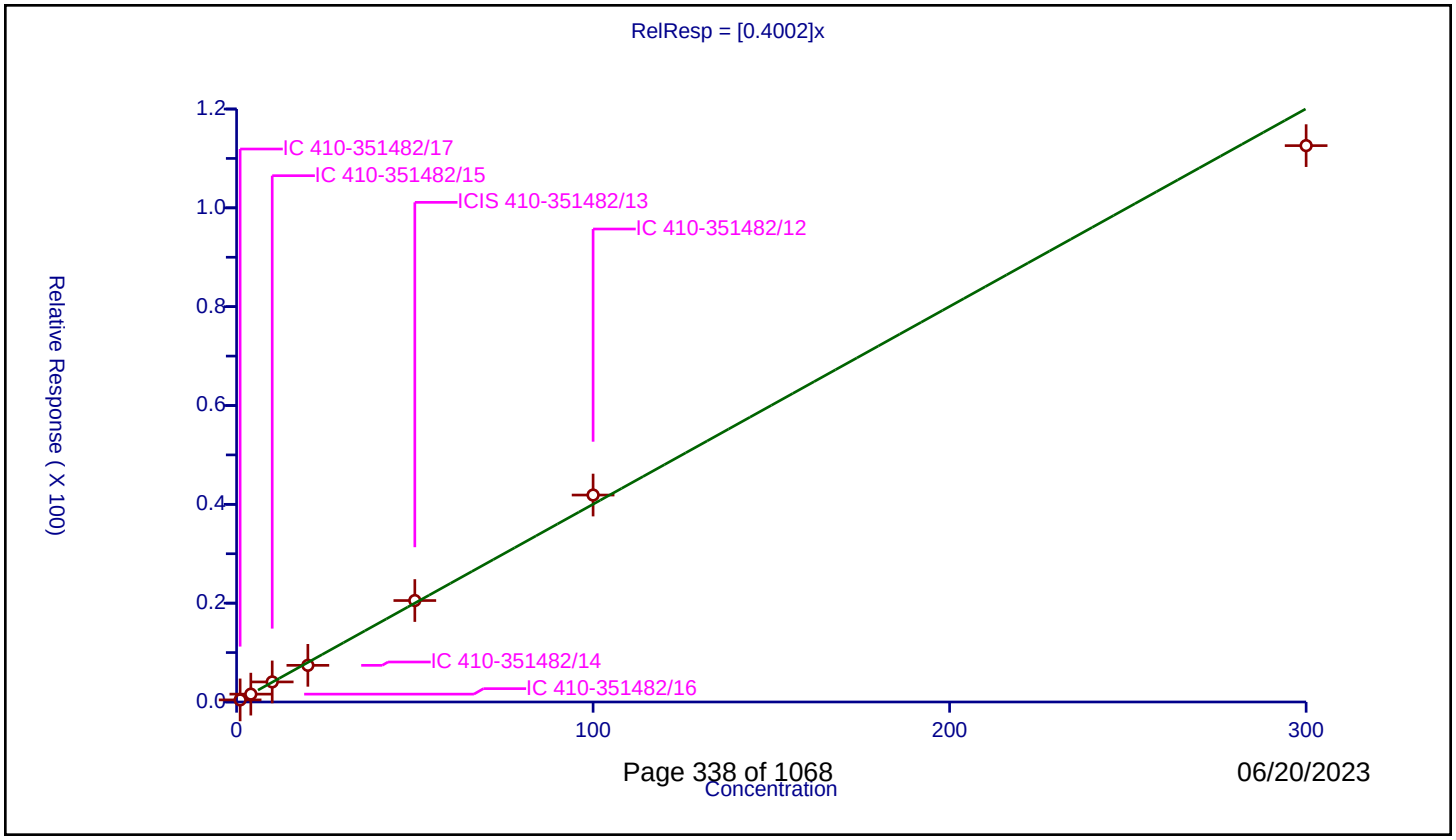
Curve Coefficients

Intercept:	0
Slope:	0.4002

Error Coefficients

Standard Error:	933000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.42194	50.0	760534.0	0.42194	Y
2	IC 410-351482/16	4.0	1.590415	50.0	762128.0	0.397604	Y
3	IC 410-351482/15	10.0	4.062805	50.0	774748.0	0.40628	Y
4	IC 410-351482/14	20.0	7.418799	50.0	832008.0	0.37094	Y
5	ICIS 410-351482/13	50.0	20.529203	50.0	813166.0	0.410584	Y
6	IC 410-351482/12	100.0	41.882062	50.0	842677.0	0.418821	Y
7	IC 410-351482/11	300.0	112.593071	50.0	951694.0	0.37531	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

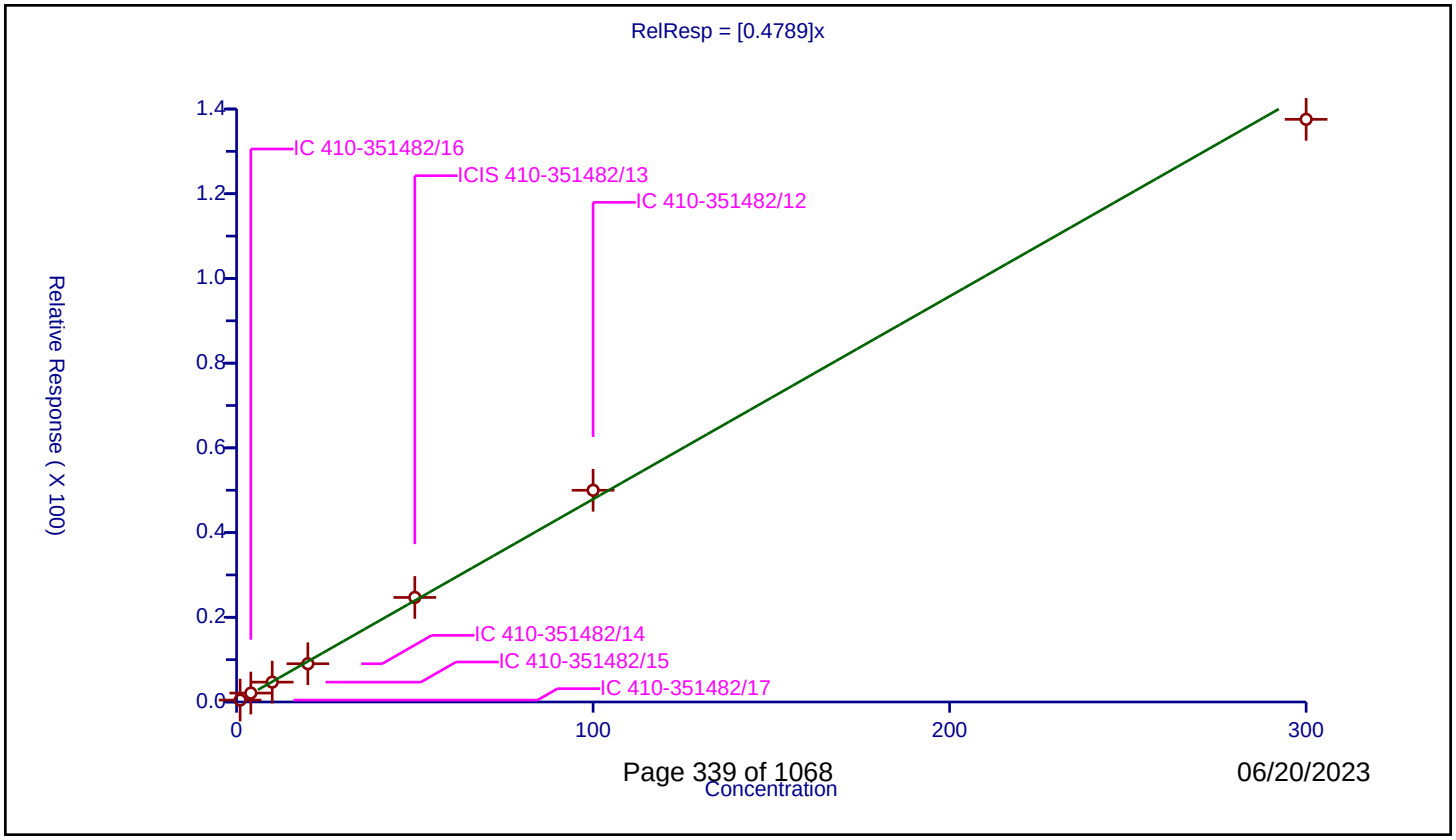
Curve Coefficients

Intercept:	0
Slope:	0.4789

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.453234	50.0	760534.0	0.453234	Y
2	IC 410-351482/16	4.0	2.10588	50.0	762128.0	0.52647	Y
3	IC 410-351482/15	10.0	4.68804	50.0	774748.0	0.468804	Y
4	IC 410-351482/14	20.0	9.030081	50.0	832008.0	0.451504	Y
5	ICIS 410-351482/13	50.0	24.686103	50.0	813166.0	0.493722	Y
6	IC 410-351482/12	100.0	49.988548	50.0	842677.0	0.499885	Y
7	IC 410-351482/11	300.0	137.566119	50.0	951694.0	0.458554	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

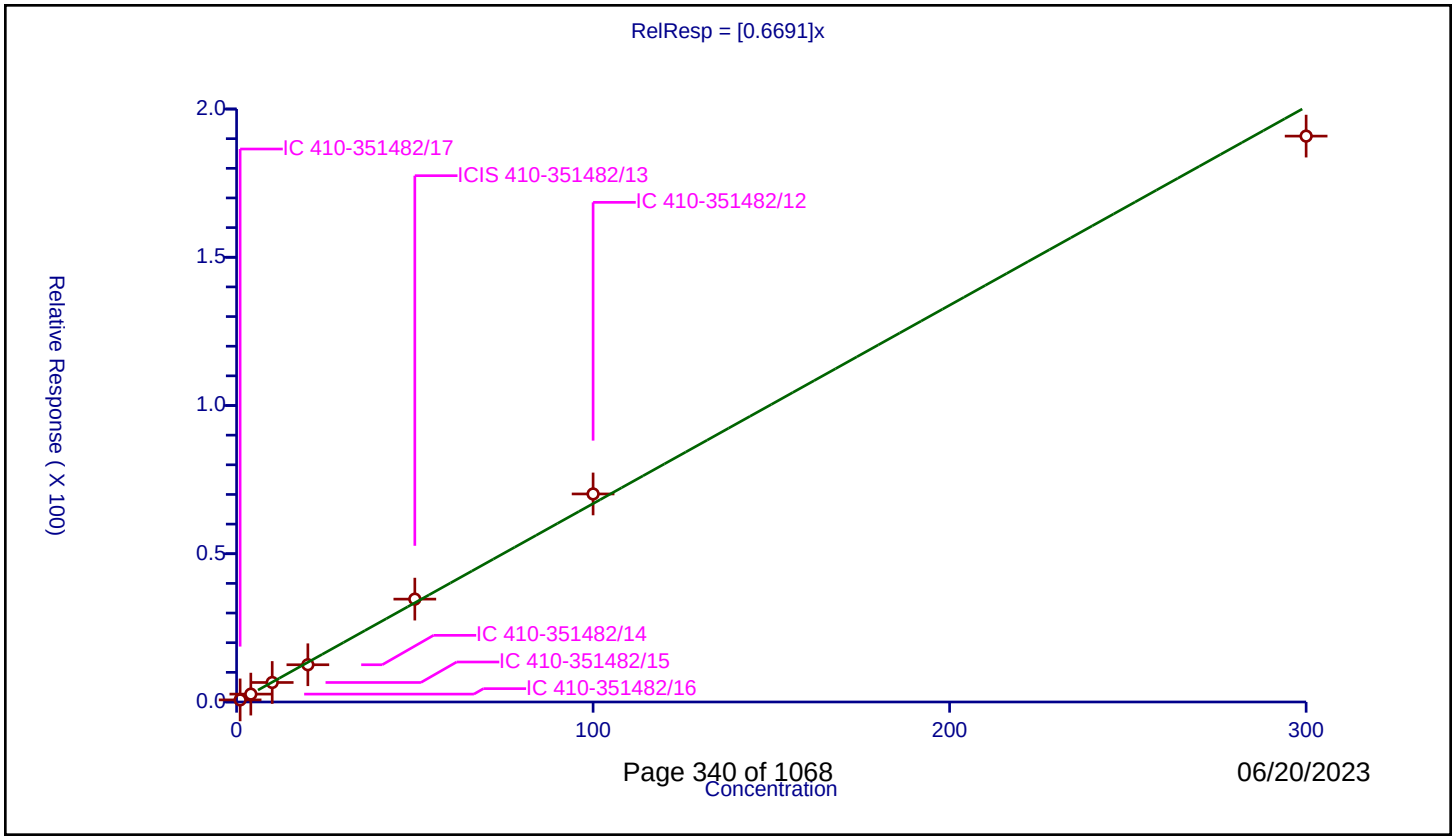
Curve Coefficients

Intercept:	0
Slope:	0.6691

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.701612	50.0	760534.0	0.701612	Y
2	IC 410-351482/16	4.0	2.65605	50.0	762128.0	0.664012	Y
3	IC 410-351482/15	10.0	6.581947	50.0	774748.0	0.658195	Y
4	IC 410-351482/14	20.0	12.560937	50.0	832008.0	0.628047	Y
5	ICIS 410-351482/13	50.0	34.696913	50.0	813166.0	0.693938	Y
6	IC 410-351482/12	100.0	70.167098	50.0	842677.0	0.701671	Y
7	IC 410-351482/11	300.0	190.863923	50.0	951694.0	0.636213	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

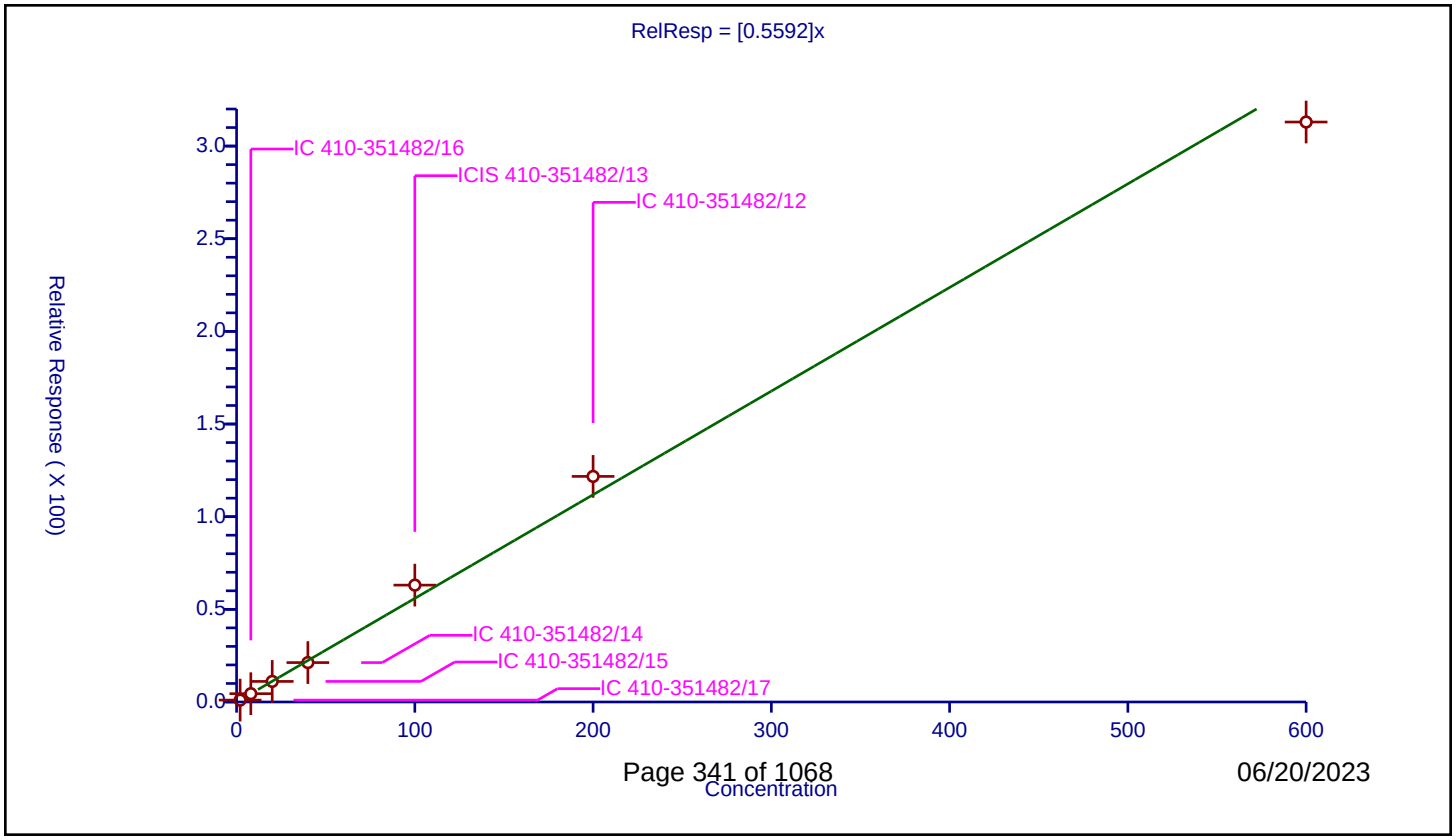
Curve Coefficients

Intercept:	0
Slope:	0.5592

Error Coefficients

Standard Error:	2610000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	2.0	1.012052	50.0	760534.0	0.506026	Y
2	IC 410-351482/16	8.0	4.485533	50.0	762128.0	0.560692	Y
3	IC 410-351482/15	20.0	11.106321	50.0	774748.0	0.555316	Y
4	IC 410-351482/14	40.0	21.261635	50.0	832008.0	0.531541	Y
5	ICIS 410-351482/13	100.0	63.067443	50.0	813166.0	0.630674	Y
6	IC 410-351482/12	200.0	121.734484	50.0	842677.0	0.608672	Y
7	IC 410-351482/11	600.0	312.972657	50.0	951694.0	0.521621	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

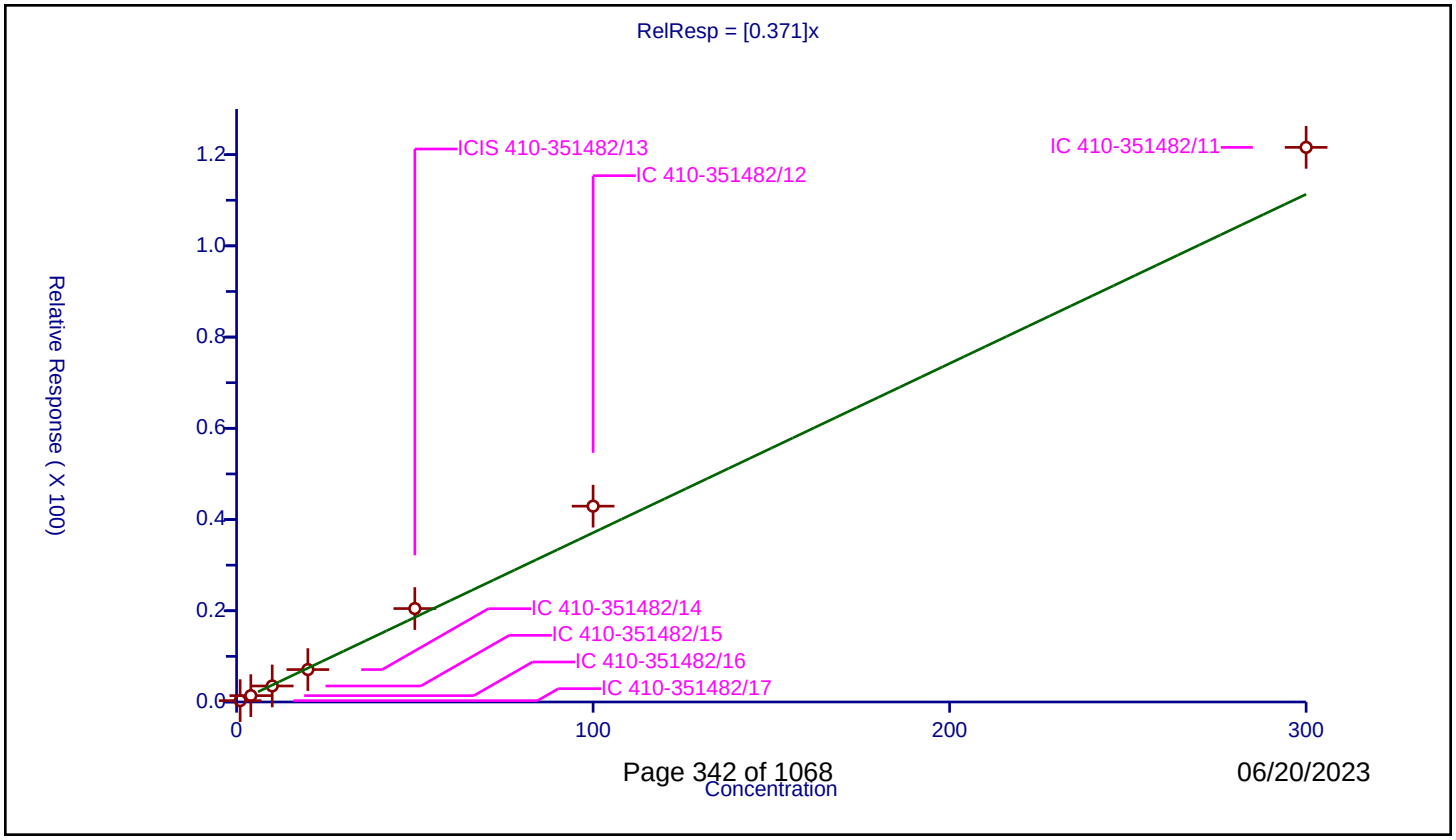
Curve Coefficients

Intercept:	0
Slope:	0.371

Error Coefficients

Standard Error:	1000000
Relative Standard Error:	12.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.297423	50.0	760534.0	0.297423	Y
2	IC 410-351482/16	4.0	1.396222	50.0	762128.0	0.349056	Y
3	IC 410-351482/15	10.0	3.513271	50.0	774748.0	0.351327	Y
4	IC 410-351482/14	20.0	7.104199	50.0	832008.0	0.35521	Y
5	ICIS 410-351482/13	50.0	20.481796	50.0	813166.0	0.409636	Y
6	IC 410-351482/12	100.0	42.932167	50.0	842677.0	0.429322	Y
7	IC 410-351482/11	300.0	121.590868	50.0	951694.0	0.405303	Y



06/20/2023

Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

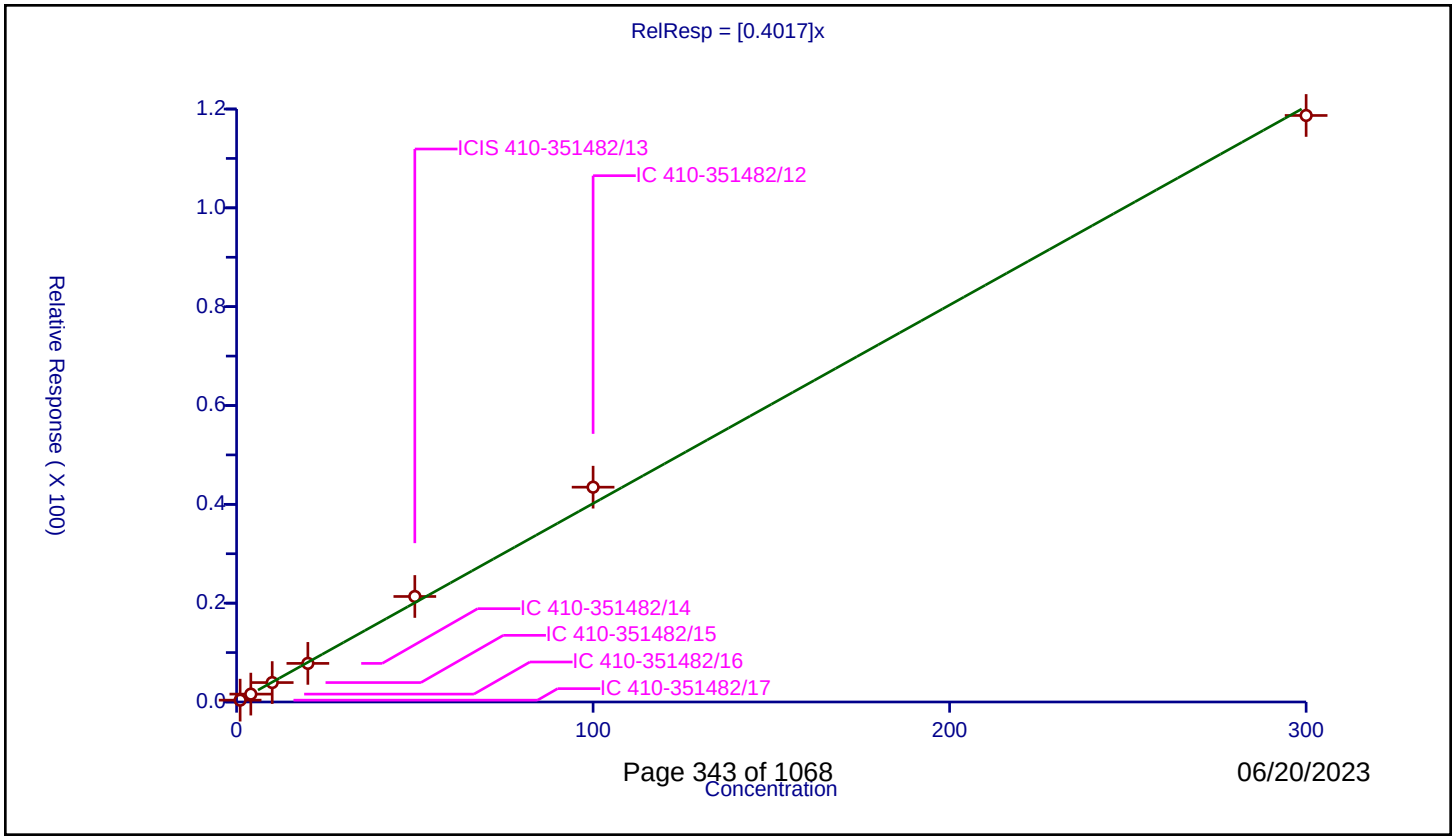
Curve Coefficients

Intercept:	0
Slope:	0.4017

Error Coefficients

Standard Error:	982000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.372304	50.0	760534.0	0.372304	Y
2	IC 410-351482/16	4.0	1.592974	50.0	762128.0	0.398243	Y
3	IC 410-351482/15	10.0	3.933343	50.0	774748.0	0.393334	Y
4	IC 410-351482/14	20.0	7.809841	50.0	832008.0	0.390492	Y
5	ICIS 410-351482/13	50.0	21.348777	50.0	813166.0	0.426976	Y
6	IC 410-351482/12	100.0	43.470986	50.0	842677.0	0.43471	Y
7	IC 410-351482/11	300.0	118.696503	50.0	951694.0	0.395655	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

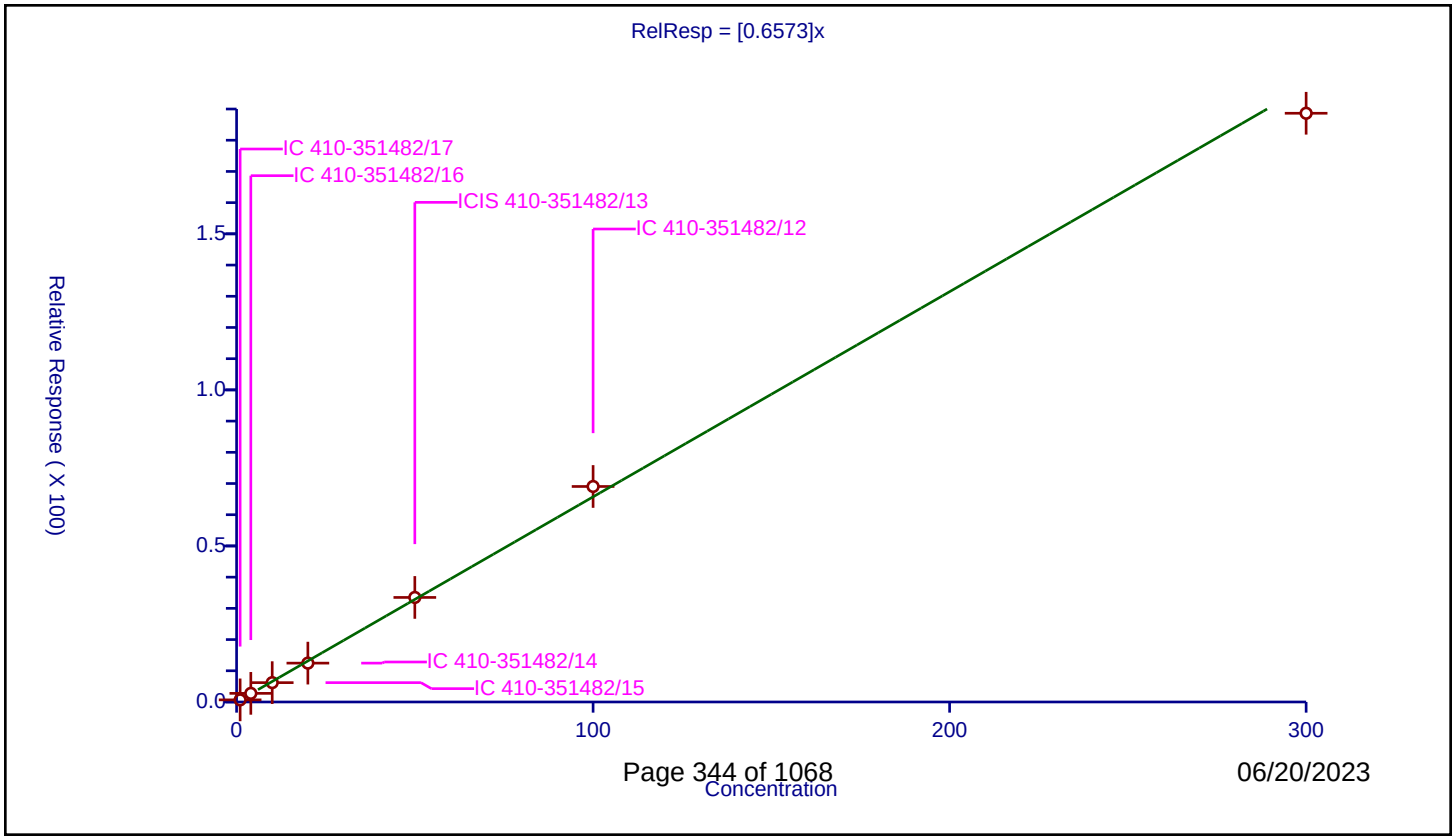
Curve Coefficients

Intercept:	0
Slope:	0.6573

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.679062	50.0	760534.0	0.679062	Y
2	IC 410-351482/16	4.0	2.761019	50.0	762128.0	0.690255	Y
3	IC 410-351482/15	10.0	6.1995	50.0	774748.0	0.61995	Y
4	IC 410-351482/14	20.0	12.453005	50.0	832008.0	0.62265	Y
5	ICIS 410-351482/13	50.0	33.499556	50.0	813166.0	0.669991	Y
6	IC 410-351482/12	100.0	69.050538	50.0	842677.0	0.690505	Y
7	IC 410-351482/11	300.0	188.642831	50.0	951694.0	0.628809	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

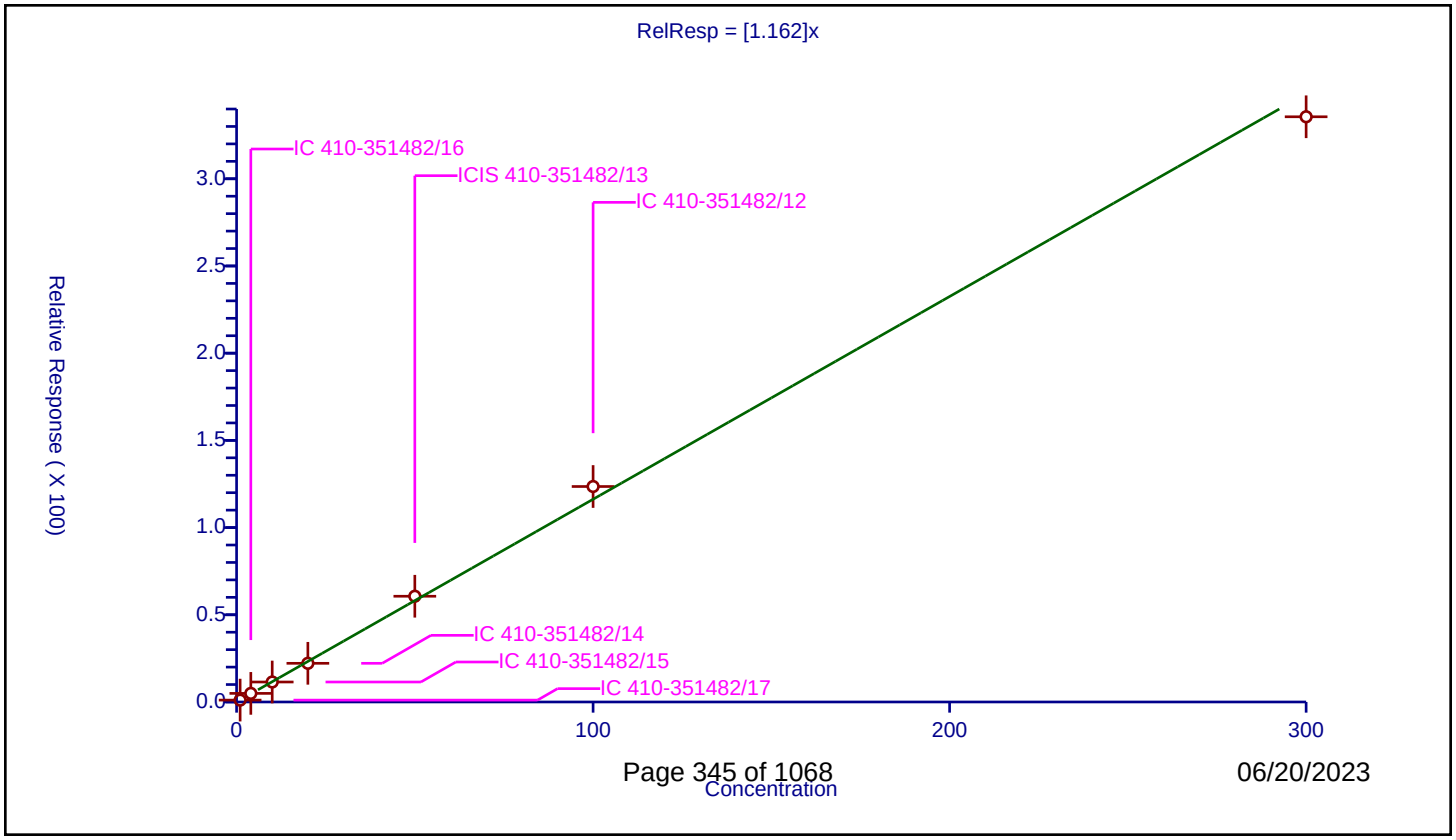
Curve Coefficients

Intercept:	0
Slope:	1.162

Error Coefficients

Standard Error:	2780000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.084501	50.0	760534.0	1.084501	Y
2	IC 410-351482/16	4.0	4.924173	50.0	762128.0	1.231043	Y
3	IC 410-351482/15	10.0	11.455467	50.0	774748.0	1.145547	Y
4	IC 410-351482/14	20.0	22.183561	50.0	832008.0	1.109178	Y
5	ICIS 410-351482/13	50.0	60.639095	50.0	813166.0	1.212782	Y
6	IC 410-351482/12	100.0	123.555467	50.0	842677.0	1.235555	Y
7	IC 410-351482/11	300.0	335.545091	50.0	951694.0	1.118484	Y



06/20/2023

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

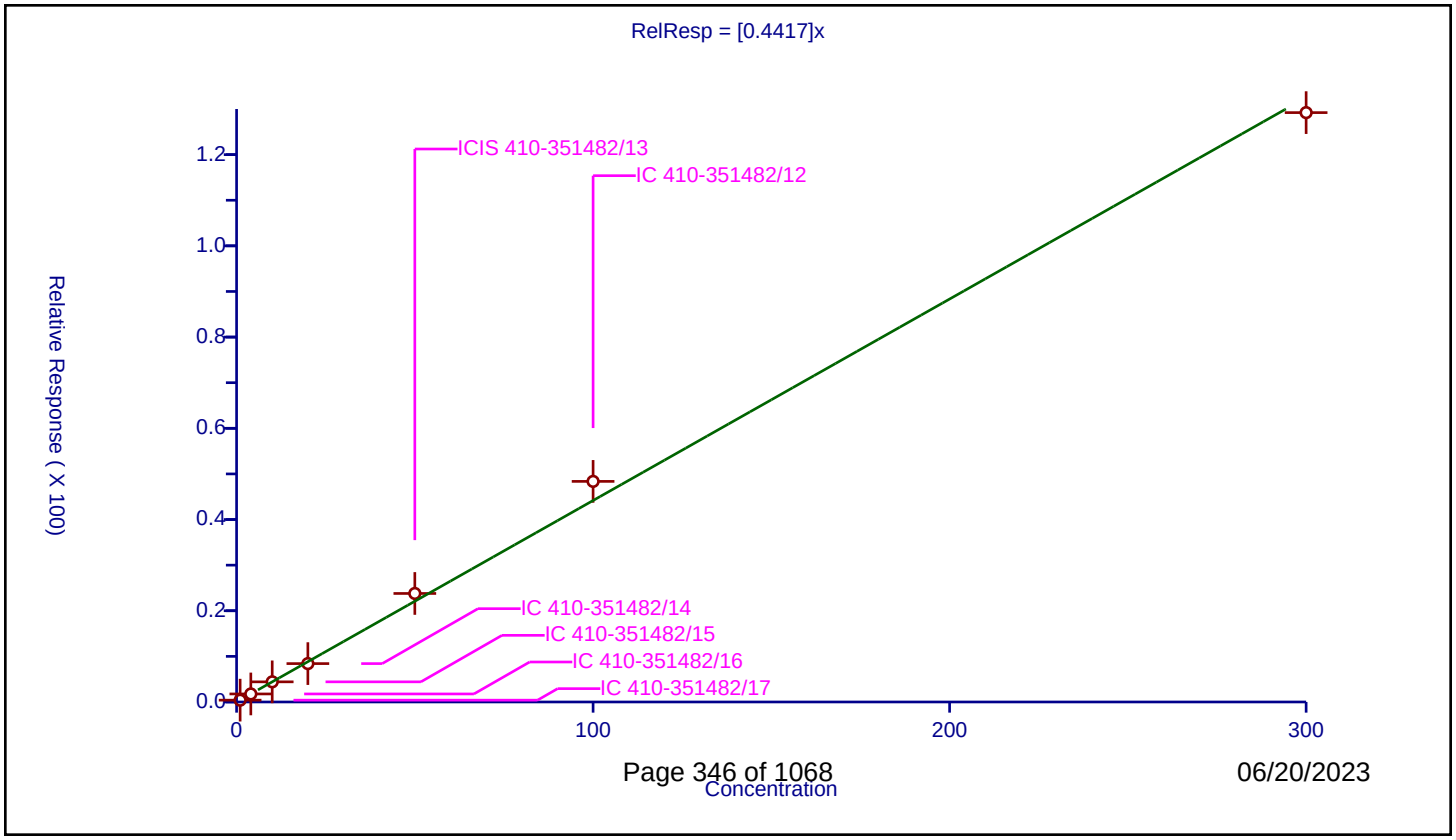
Curve Coefficients

Intercept:	0
Slope:	0.4417

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.399325	50.0	760534.0	0.399325	Y
2	IC 410-351482/16	4.0	1.760006	50.0	762128.0	0.440002	Y
3	IC 410-351482/15	10.0	4.416985	50.0	774748.0	0.441698	Y
4	IC 410-351482/14	20.0	8.414282	50.0	832008.0	0.420714	Y
5	ICIS 410-351482/13	50.0	23.793235	50.0	813166.0	0.475865	Y
6	IC 410-351482/12	100.0	48.36165	50.0	842677.0	0.483616	Y
7	IC 410-351482/11	300.0	129.208338	50.0	951694.0	0.430694	Y



06/20/2023

Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

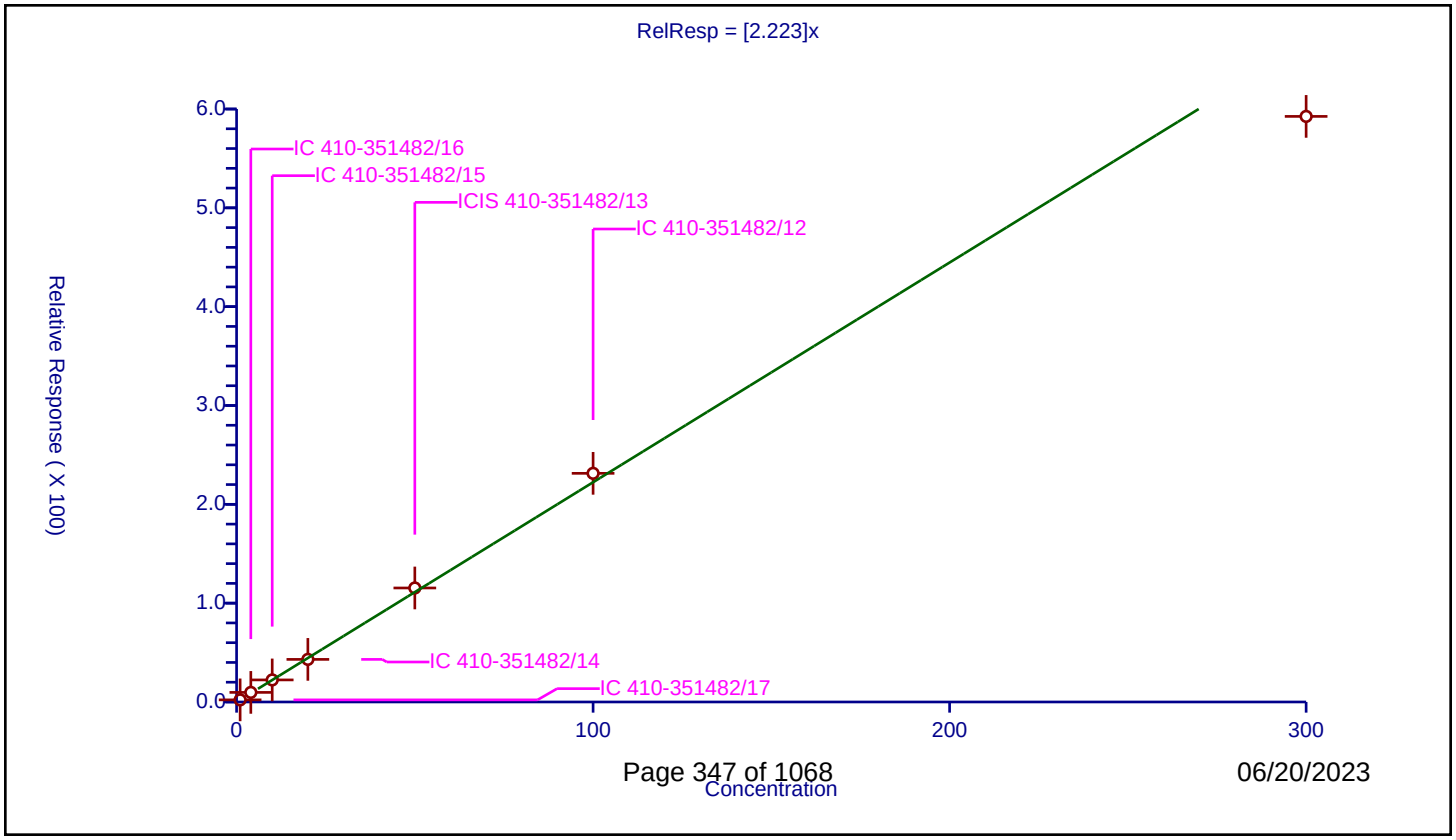
Curve Coefficients

Intercept:	0
Slope:	2.223

Error Coefficients

Standard Error:	4940000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	2.1573	50.0	760534.0	2.1573	Y
2	IC 410-351482/16	4.0	9.690498	50.0	762128.0	2.422625	Y
3	IC 410-351482/15	10.0	22.318547	50.0	774748.0	2.231855	Y
4	IC 410-351482/14	20.0	43.100427	50.0	832008.0	2.155021	Y
5	ICIS 410-351482/13	50.0	115.367772	50.0	813166.0	2.307355	Y
6	IC 410-351482/12	100.0	231.370501	50.0	842677.0	2.313705	Y
7	IC 410-351482/11	300.0	592.537675	50.0	951694.0	1.975126	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

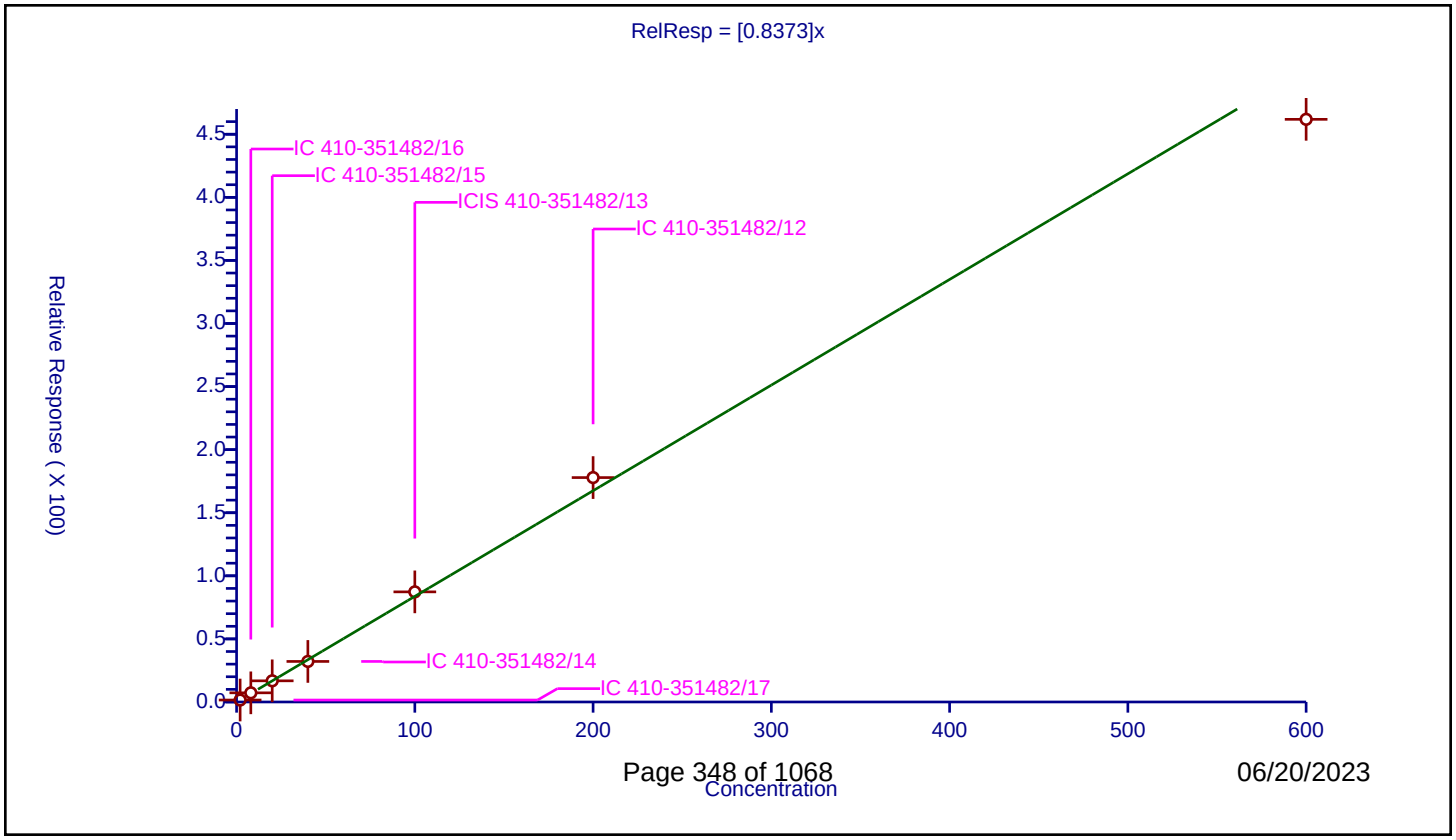
Curve Coefficients

Intercept:	0
Slope:	0.8373

Error Coefficients

Standard Error:	3840000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	2.0	1.556472	50.0	760534.0	0.778236	Y
2	IC 410-351482/16	8.0	7.268792	50.0	762128.0	0.908599	Y
3	IC 410-351482/15	20.0	16.775197	50.0	774748.0	0.83876	Y
4	IC 410-351482/14	40.0	32.133886	50.0	832008.0	0.803347	Y
5	ICIS 410-351482/13	100.0	87.277075	50.0	813166.0	0.872771	Y
6	IC 410-351482/12	200.0	177.874025	50.0	842677.0	0.88937	Y
7	IC 410-351482/11	600.0	461.816088	50.0	951694.0	0.769693	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

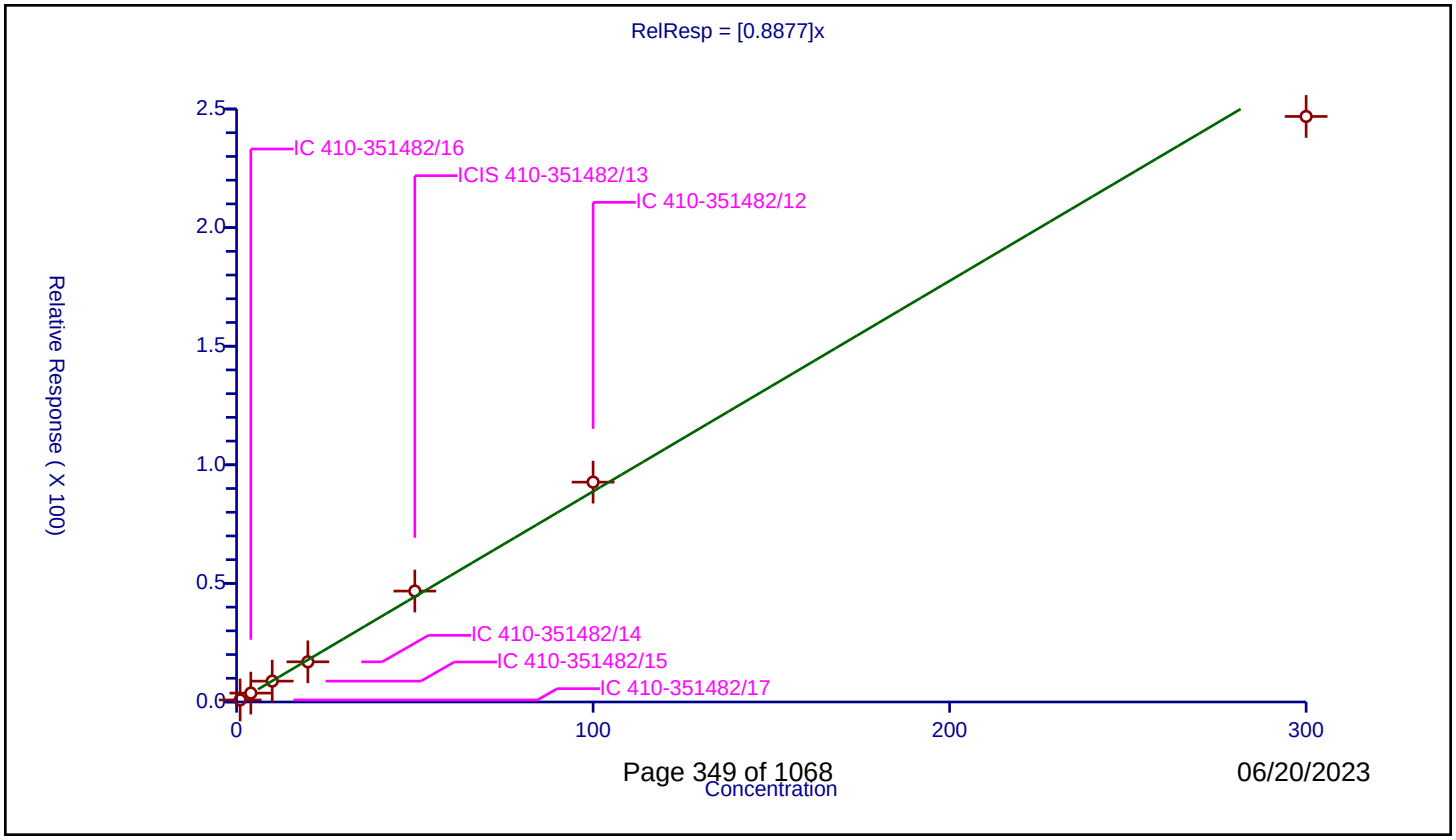
Curve Coefficients

Intercept:	0
Slope:	0.8877

Error Coefficients

Standard Error:	2050000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.864064	50.0	760534.0	0.864064	Y
2	IC 410-351482/16	4.0	3.753044	50.0	762128.0	0.938261	Y
3	IC 410-351482/15	10.0	8.79486	50.0	774748.0	0.879486	Y
4	IC 410-351482/14	20.0	16.936015	50.0	832008.0	0.846801	Y
5	ICIS 410-351482/13	50.0	46.765175	50.0	813166.0	0.935303	Y
6	IC 410-351482/12	100.0	92.692277	50.0	842677.0	0.926923	Y
7	IC 410-351482/11	300.0	246.858707	50.0	951694.0	0.822862	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

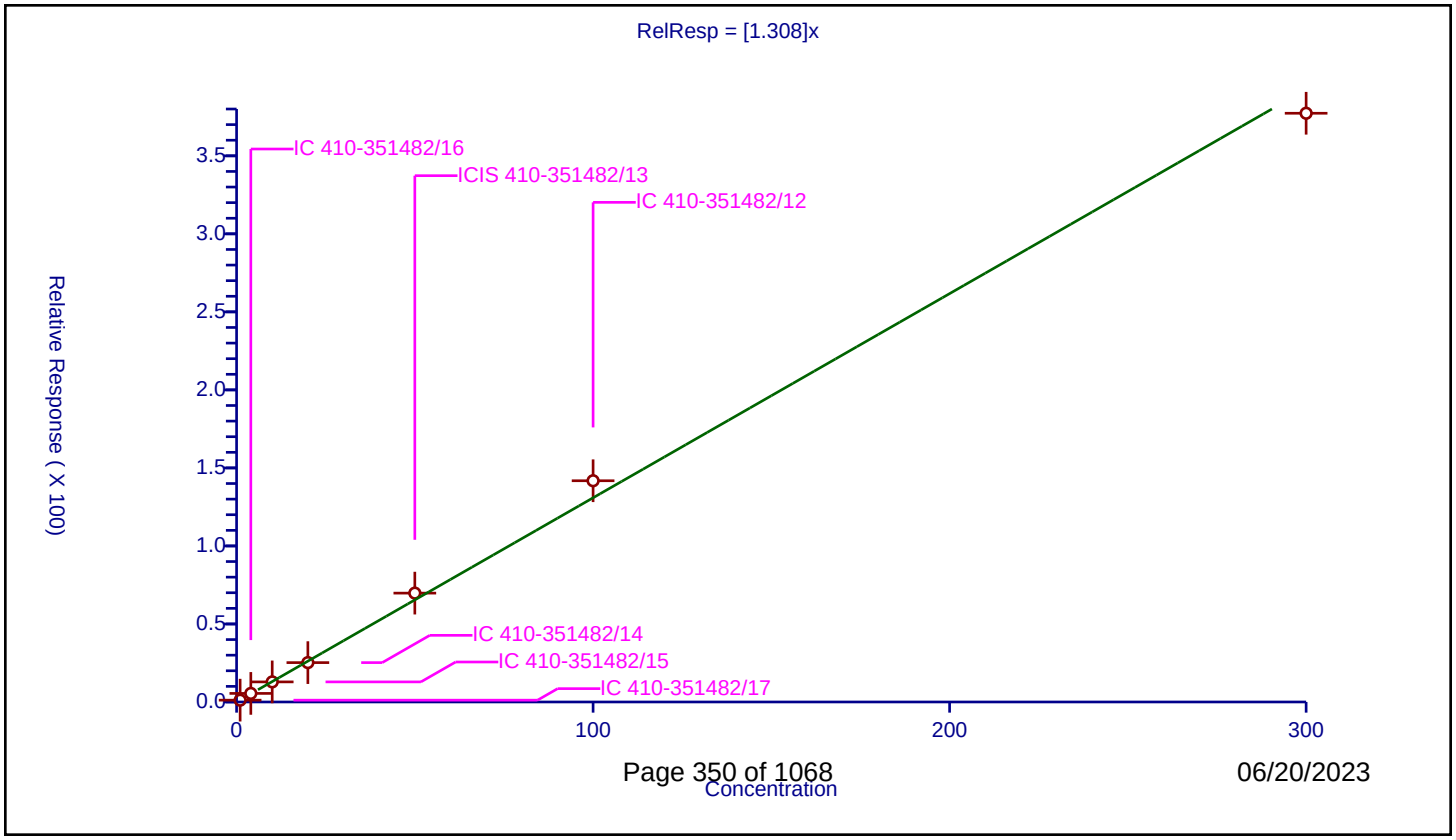
Curve Coefficients

Intercept:	0
Slope:	1.308

Error Coefficients

Standard Error:	3130000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.166877	50.0	760534.0	1.166877	Y
2	IC 410-351482/16	4.0	5.490416	50.0	762128.0	1.372604	Y
3	IC 410-351482/15	10.0	12.874251	50.0	774748.0	1.287425	Y
4	IC 410-351482/14	20.0	25.236236	50.0	832008.0	1.261812	Y
5	ICIS 410-351482/13	50.0	69.768534	50.0	813166.0	1.395371	Y
6	IC 410-351482/12	100.0	141.773123	50.0	842677.0	1.417731	Y
7	IC 410-351482/11	300.0	377.288866	50.0	951694.0	1.25763	Y



Calibration / Bromoform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

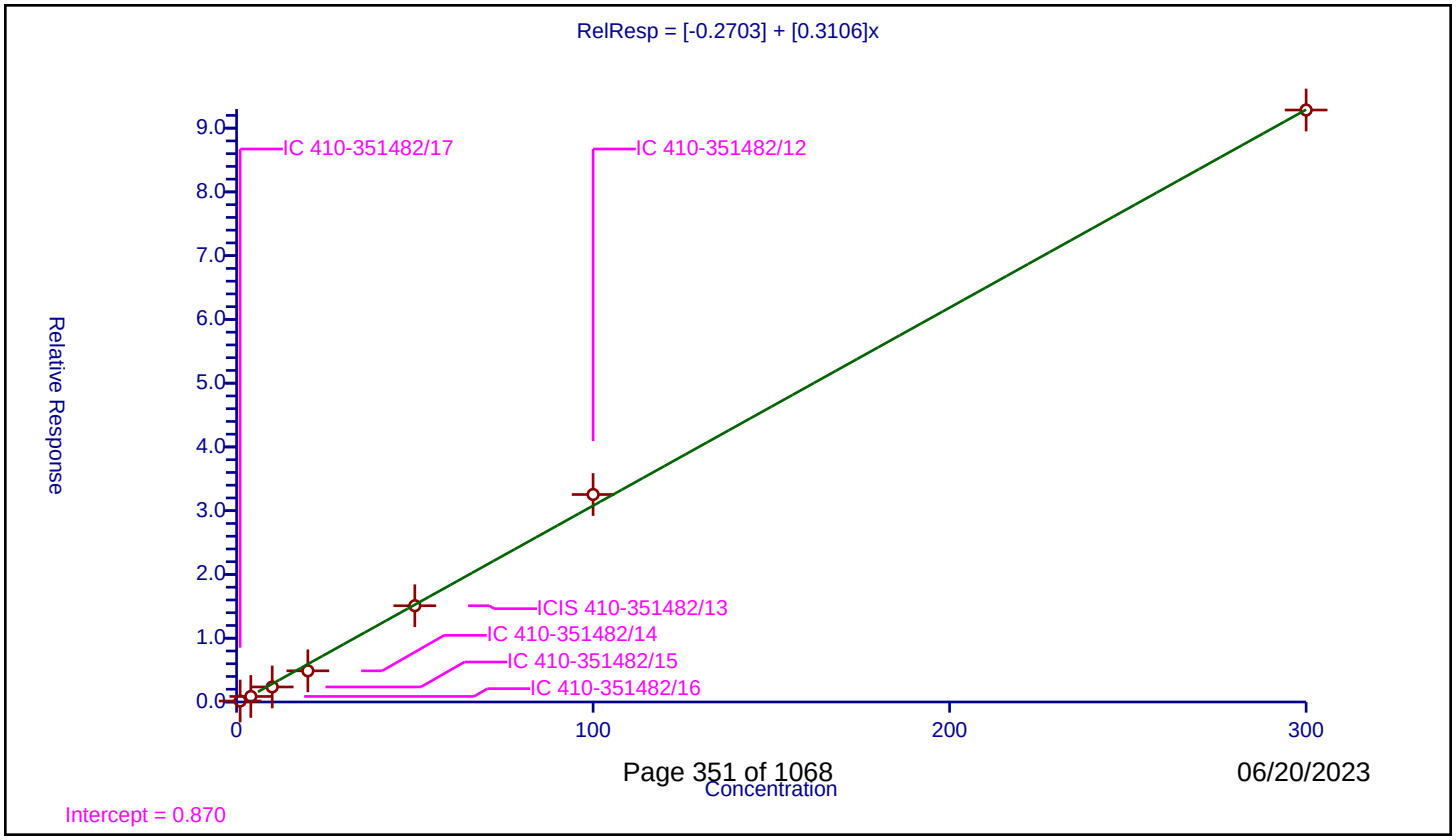
Curve Coefficients

Intercept:	-0.2703
Slope:	0.3106

Error Coefficients

Standard Error:	836000
Relative Standard Error:	19.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.153379	50.0	760534.0	0.153379	Y
2	IC 410-351482/16	4.0	0.866259	50.0	762128.0	0.216565	Y
3	IC 410-351482/15	10.0	2.35625	50.0	774748.0	0.235625	Y
4	IC 410-351482/14	20.0	4.88529	50.0	832008.0	0.244264	Y
5	ICIS 410-351482/13	50.0	15.097778	50.0	813166.0	0.301956	Y
6	IC 410-351482/12	100.0	32.540404	50.0	842677.0	0.325404	Y
7	IC 410-351482/11	300.0	92.83919	50.0	951694.0	0.309464	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

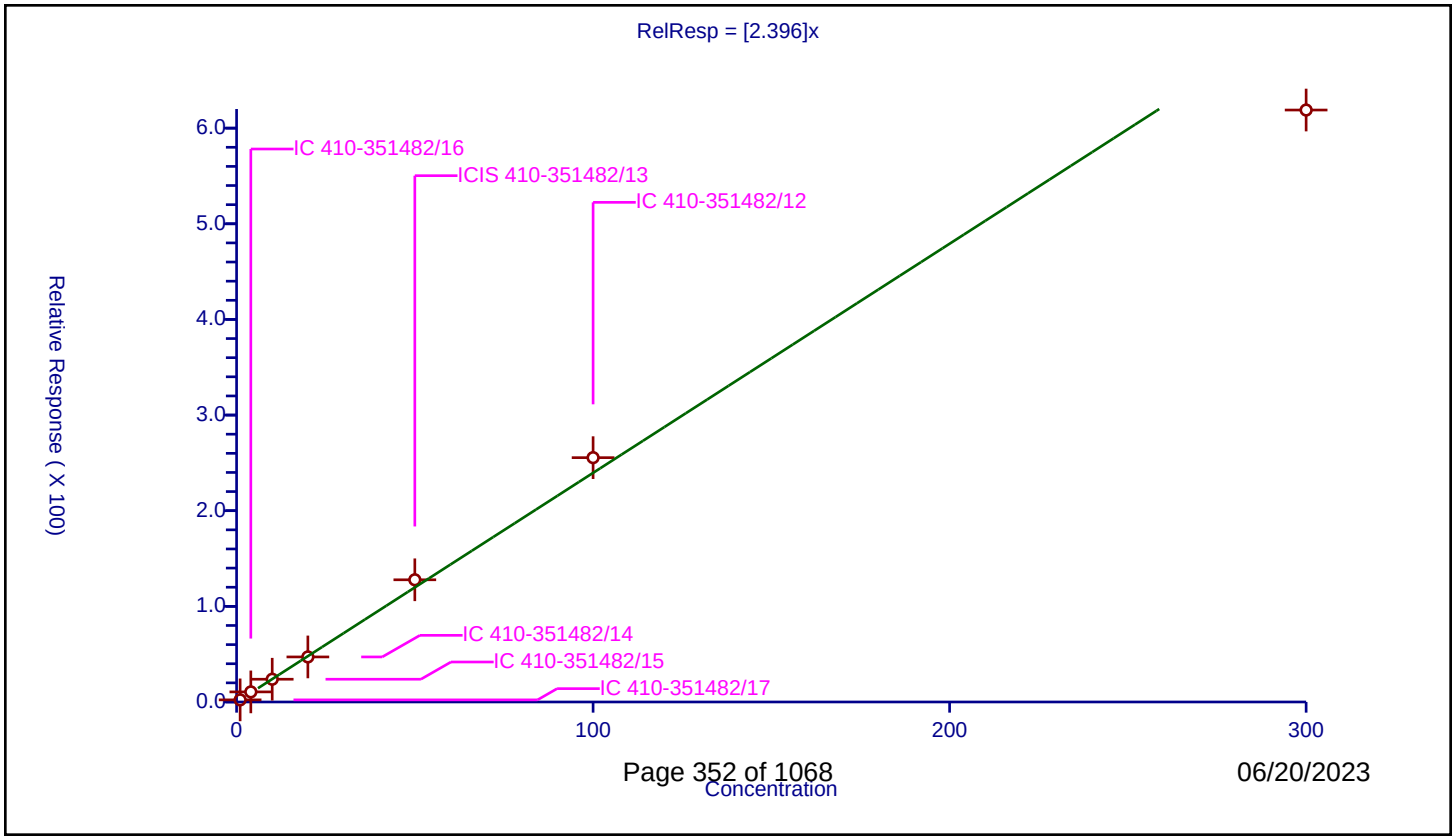
Curve Coefficients

Intercept:	0
Slope:	2.396

Error Coefficients

Standard Error:	5200000
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	2.221926	50.0	760534.0	2.221926	Y
2	IC 410-351482/16	4.0	10.56089	50.0	762128.0	2.640223	Y
3	IC 410-351482/15	10.0	23.790962	50.0	774748.0	2.379096	Y
4	IC 410-351482/14	20.0	47.102191	50.0	832008.0	2.35511	Y
5	ICIS 410-351482/13	50.0	127.764442	50.0	813166.0	2.555289	Y
6	IC 410-351482/12	100.0	255.477366	50.0	842677.0	2.554774	Y
7	IC 410-351482/11	300.0	618.940962	50.0	951694.0	2.063137	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

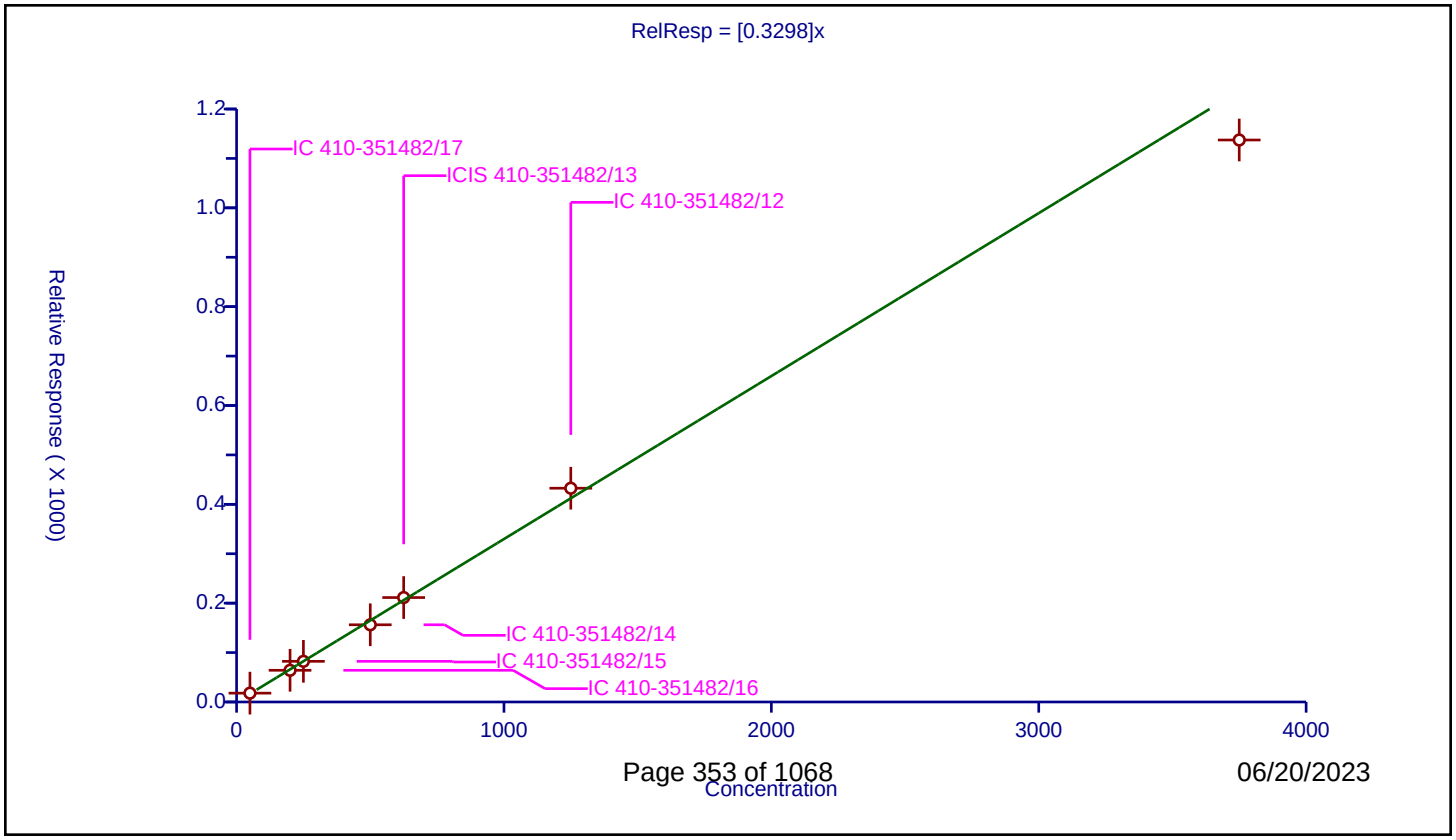
Curve Coefficients

Intercept:	0
Slope:	0.3298

Error Coefficients

Standard Error:	942000
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	IC 410-351482/17	49.998	17.915366	250.0	430915.0	0.358322	Y
2	IC 410-351482/16	199.992	64.140276	250.0	438036.0	0.320714	Y
3	IC 410-351482/15	249.99	82.285412	250.0	446519.0	0.329155	Y
4	IC 410-351482/14	499.98	156.276646	250.0	476146.0	0.312566	Y
5	ICIS 410-351482/13	624.975	211.354424	250.0	463533.0	0.338181	Y
6	IC 410-351482/12	1249.95	432.588444	250.0	463626.0	0.346085	Y
7	IC 410-351482/11	3749.85	1137.291949	250.0	461786.0	0.30329	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

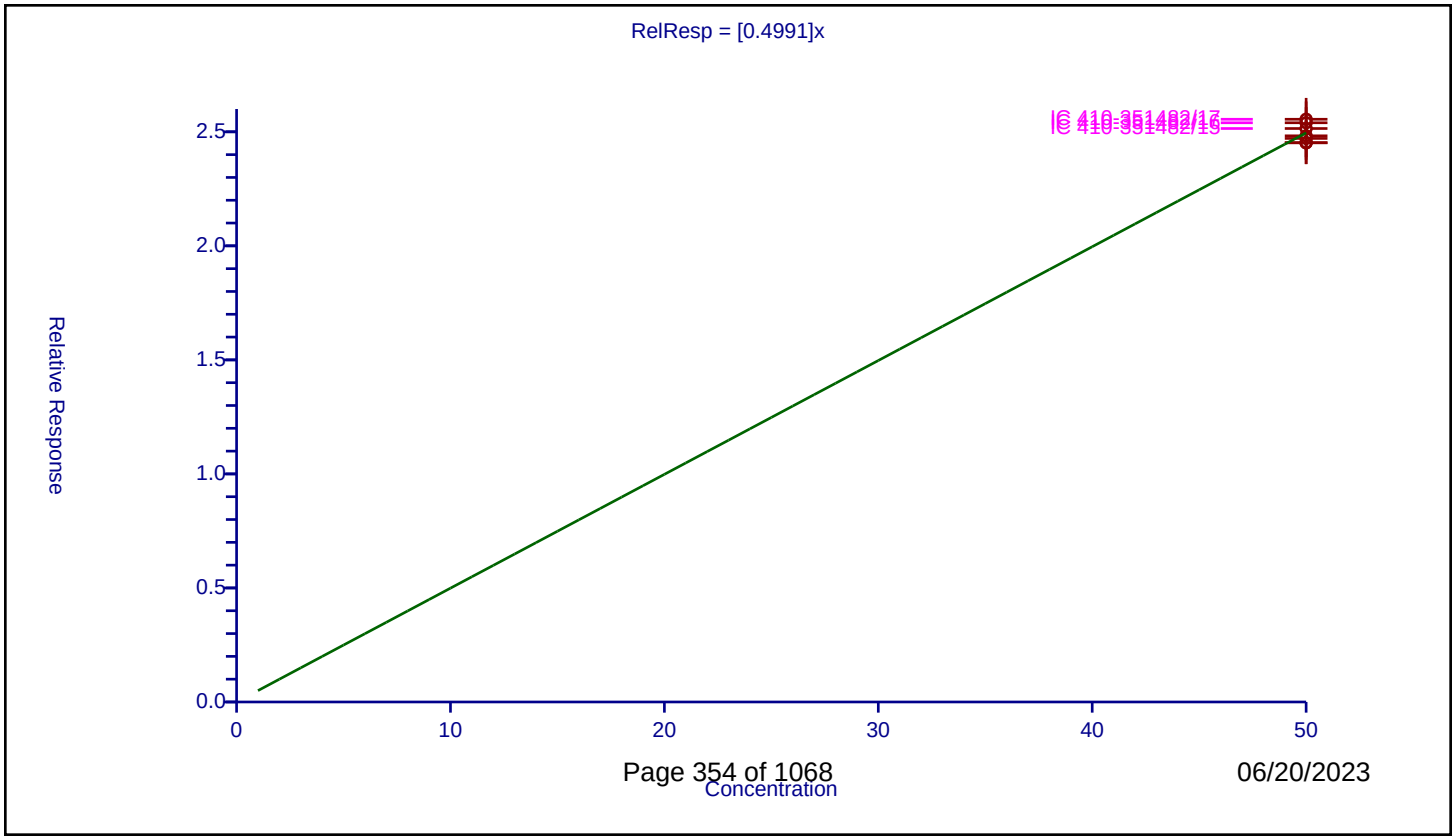
Curve Coefficients

Intercept:	0
Slope:	0.4991

Error Coefficients

Standard Error:	442000
Relative Standard Error:	1.7
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/11	50.0	24.515916	50.0	951694.0	0.490318	Y
2	IC 410-351482/12	50.0	24.824518	50.0	842677.0	0.49649	Y
3	ICIS 410-351482/13	50.0	24.525866	50.0	813166.0	0.490517	Y
4	IC 410-351482/14	50.0	24.71064	50.0	832008.0	0.494213	Y
5	IC 410-351482/15	50.0	25.145725	50.0	774748.0	0.502914	Y
6	IC 410-351482/16	50.0	25.397112	50.0	762128.0	0.507942	Y
7	IC 410-351482/17	50.0	25.550468	50.0	760534.0	0.511009	Y



06/20/2023

Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

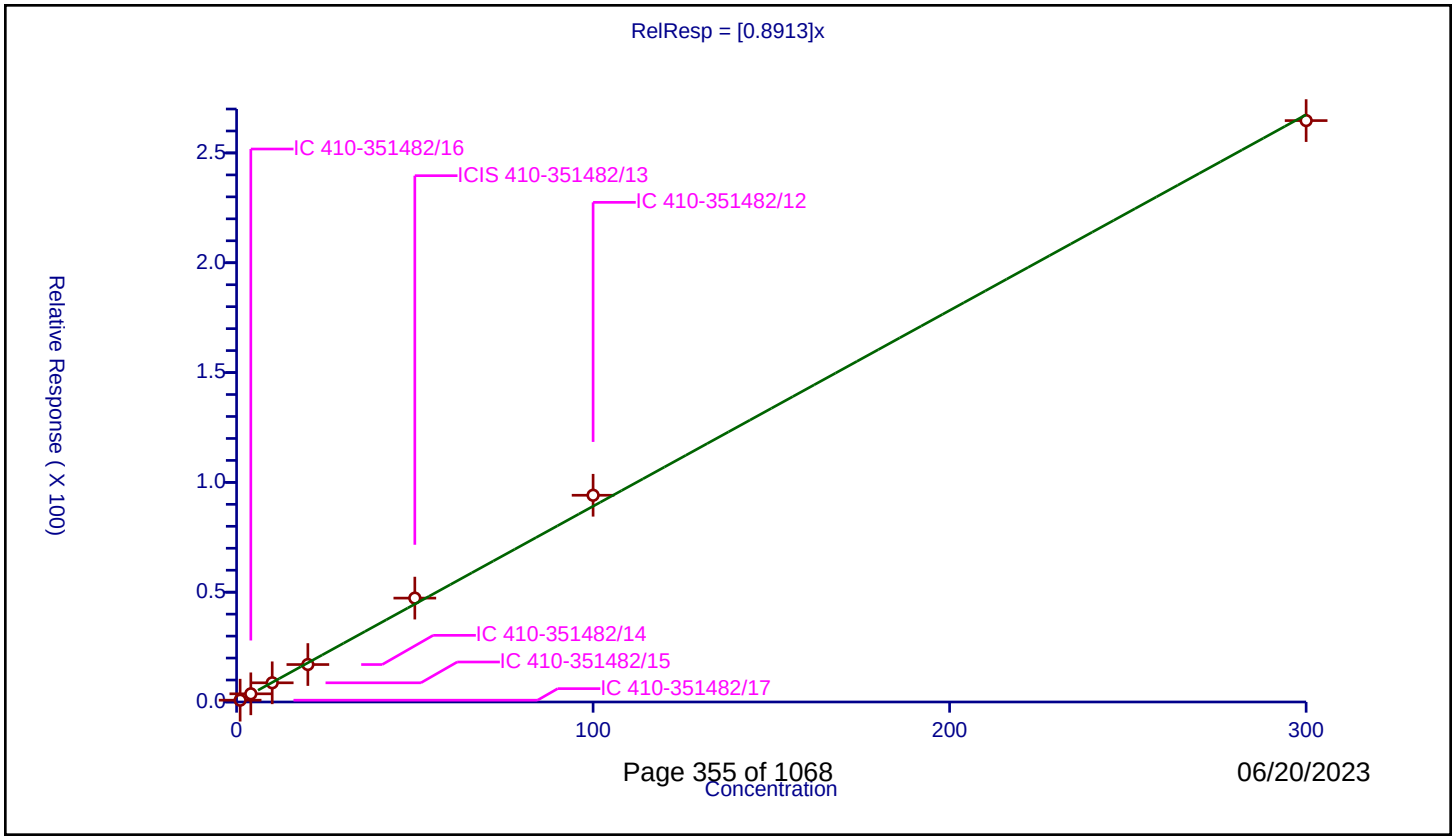
Curve Coefficients

Intercept:	0
Slope:	0.8913

Error Coefficients

Standard Error:	1150000
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	IC 410-351482/17	1.0	0.813653	50.0	425181.0	0.813653	Y
2	IC 410-351482/16	4.0	3.718572	50.0	427570.0	0.929643	Y
3	IC 410-351482/15	10.0	8.739473	50.0	434826.0	0.873947	Y
4	IC 410-351482/14	20.0	17.048702	50.0	455630.0	0.852435	Y
5	ICIS 410-351482/13	50.0	47.297662	50.0	437621.0	0.945953	Y
6	IC 410-351482/12	100.0	94.134789	50.0	455363.0	0.941348	Y
7	IC 410-351482/11	300.0	264.735576	50.0	499804.0	0.882452	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

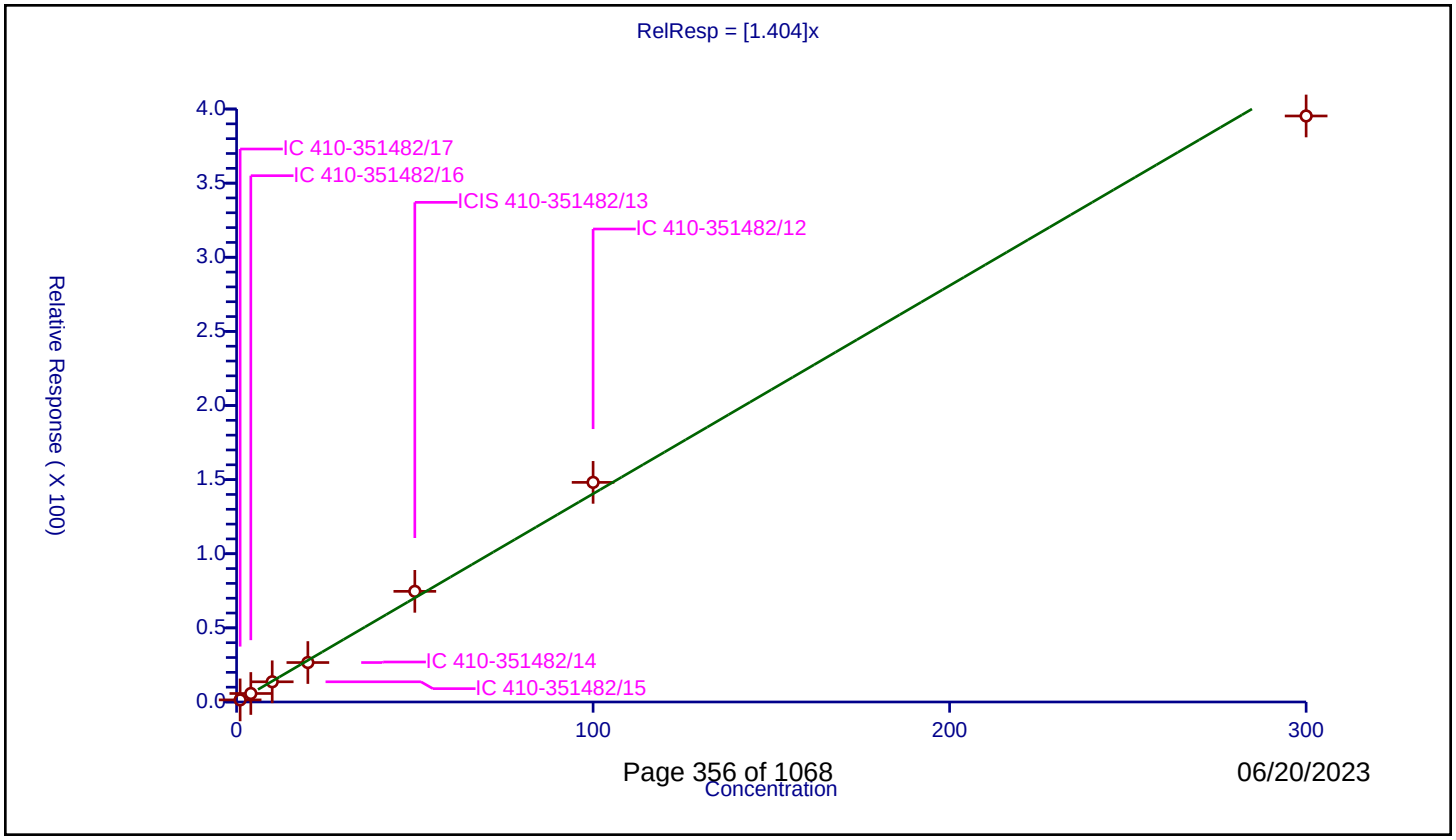
Curve Coefficients

Intercept:	0
Slope:	1.404

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.415162	50.0	425181.0	1.415162	Y
2	IC 410-351482/16	4.0	5.722572	50.0	427570.0	1.430643	Y
3	IC 410-351482/15	10.0	13.623035	50.0	434826.0	1.362304	Y
4	IC 410-351482/14	20.0	26.612273	50.0	455630.0	1.330614	Y
5	ICIS 410-351482/13	50.0	74.65044	50.0	437621.0	1.493009	Y
6	IC 410-351482/12	100.0	148.150267	50.0	455363.0	1.481503	Y
7	IC 410-351482/11	300.0	395.30536	50.0	499804.0	1.317685	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

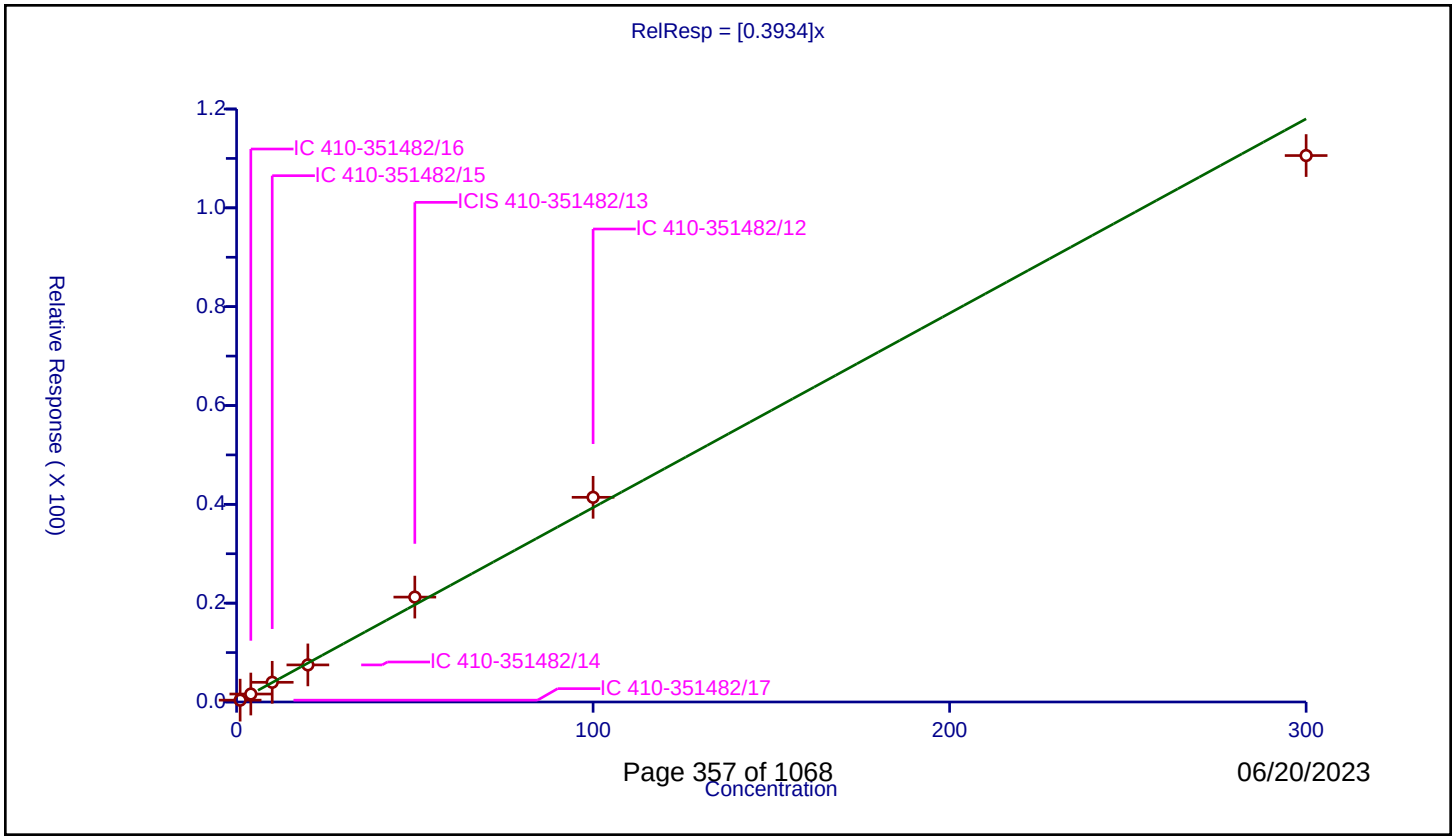
Curve Coefficients

Intercept:	0
Slope:	0.3934

Error Coefficients

Standard Error:	484000
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	IC 410-351482/17	1.0	0.369725	50.0	425181.0	0.369725	Y
2	IC 410-351482/16	4.0	1.610847	50.0	427570.0	0.402712	Y
3	IC 410-351482/15	10.0	3.986537	50.0	434826.0	0.398654	Y
4	IC 410-351482/14	20.0	7.50203	50.0	455630.0	0.375102	Y
5	ICIS 410-351482/13	50.0	21.227615	50.0	437621.0	0.424552	Y
6	IC 410-351482/12	100.0	41.420691	50.0	455363.0	0.414207	Y
7	IC 410-351482/11	300.0	110.581748	50.0	499804.0	0.368606	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

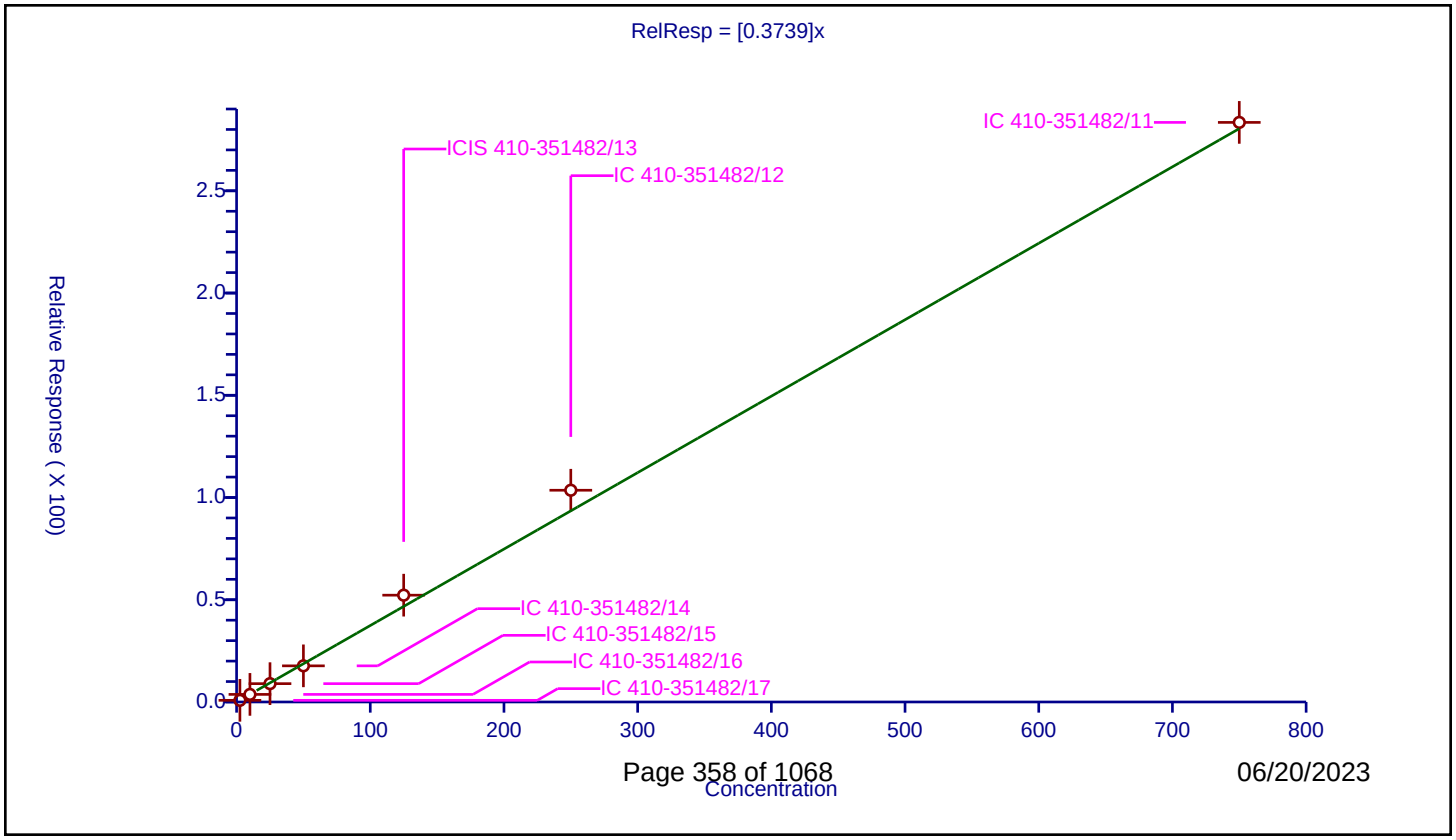
Curve Coefficients

Intercept:	0
Slope:	0.3739

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	2.5	0.810361	50.0	425181.0	0.324144	Y
2	IC 410-351482/16	10.0	3.708165	50.0	427570.0	0.370816	Y
3	IC 410-351482/15	25.0	8.961516	50.0	434826.0	0.358461	Y
4	IC 410-351482/14	50.0	17.683647	50.0	455630.0	0.353673	Y
5	ICIS 410-351482/13	125.0	52.241551	50.0	437621.0	0.417932	Y
6	IC 410-351482/12	250.0	103.552441	50.0	455363.0	0.41421	Y
7	IC 410-351482/11	750.0	283.452413	50.0	499804.0	0.377937	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

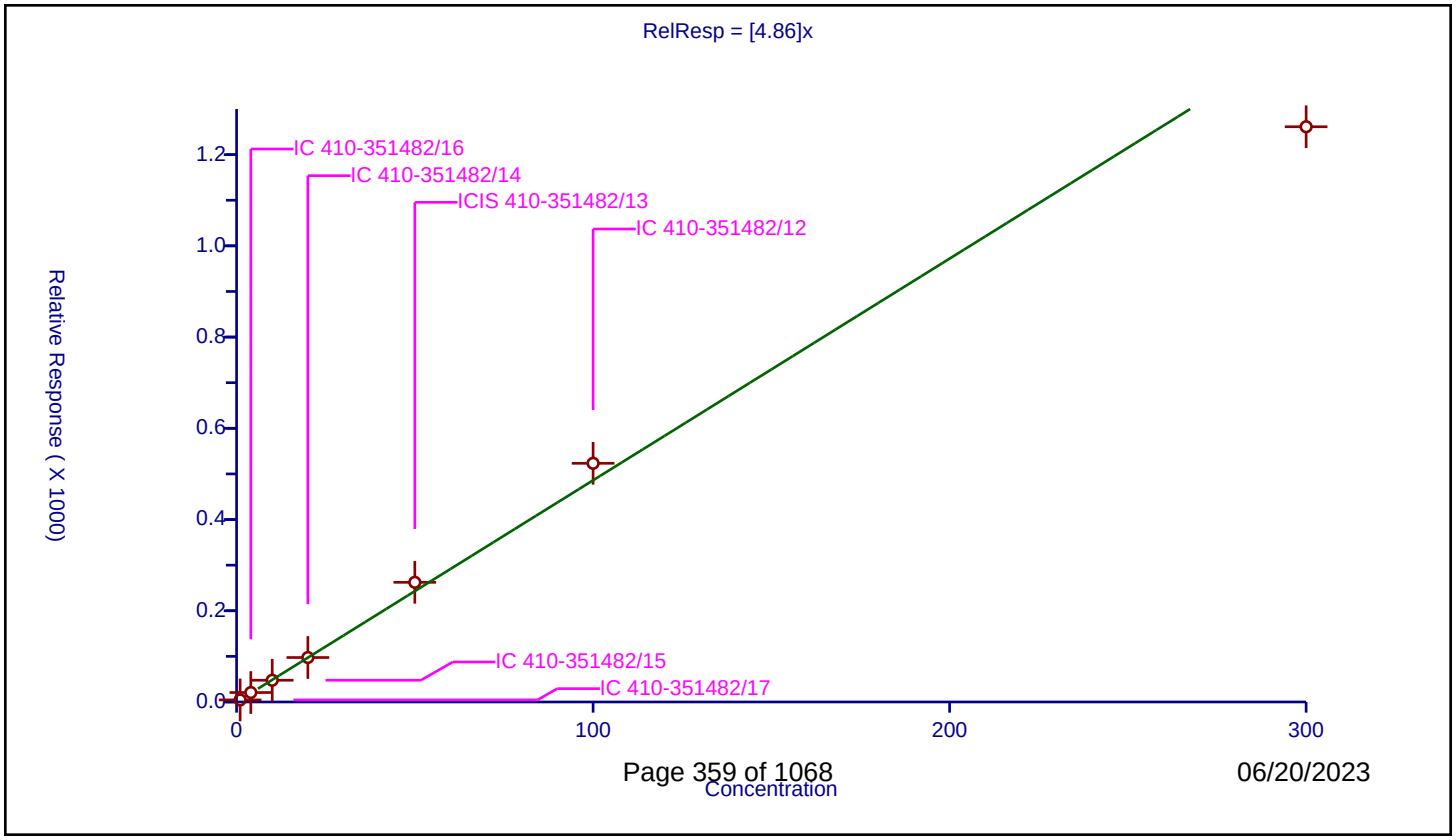
Curve Coefficients

Intercept:	0
Slope:	4.86

Error Coefficients

Standard Error:	5600000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	4.516429	50.0	425181.0	4.516429	Y
2	IC 410-351482/16	4.0	20.729354	50.0	427570.0	5.182339	Y
3	IC 410-351482/15	10.0	47.646645	50.0	434826.0	4.764664	Y
4	IC 410-351482/14	20.0	97.488423	50.0	455630.0	4.874421	Y
5	ICIS 410-351482/13	50.0	262.323449	50.0	437621.0	5.246469	Y
6	IC 410-351482/12	100.0	523.271214	50.0	455363.0	5.232712	Y
7	IC 410-351482/11	300.0	1261.139167	50.0	499804.0	4.203797	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

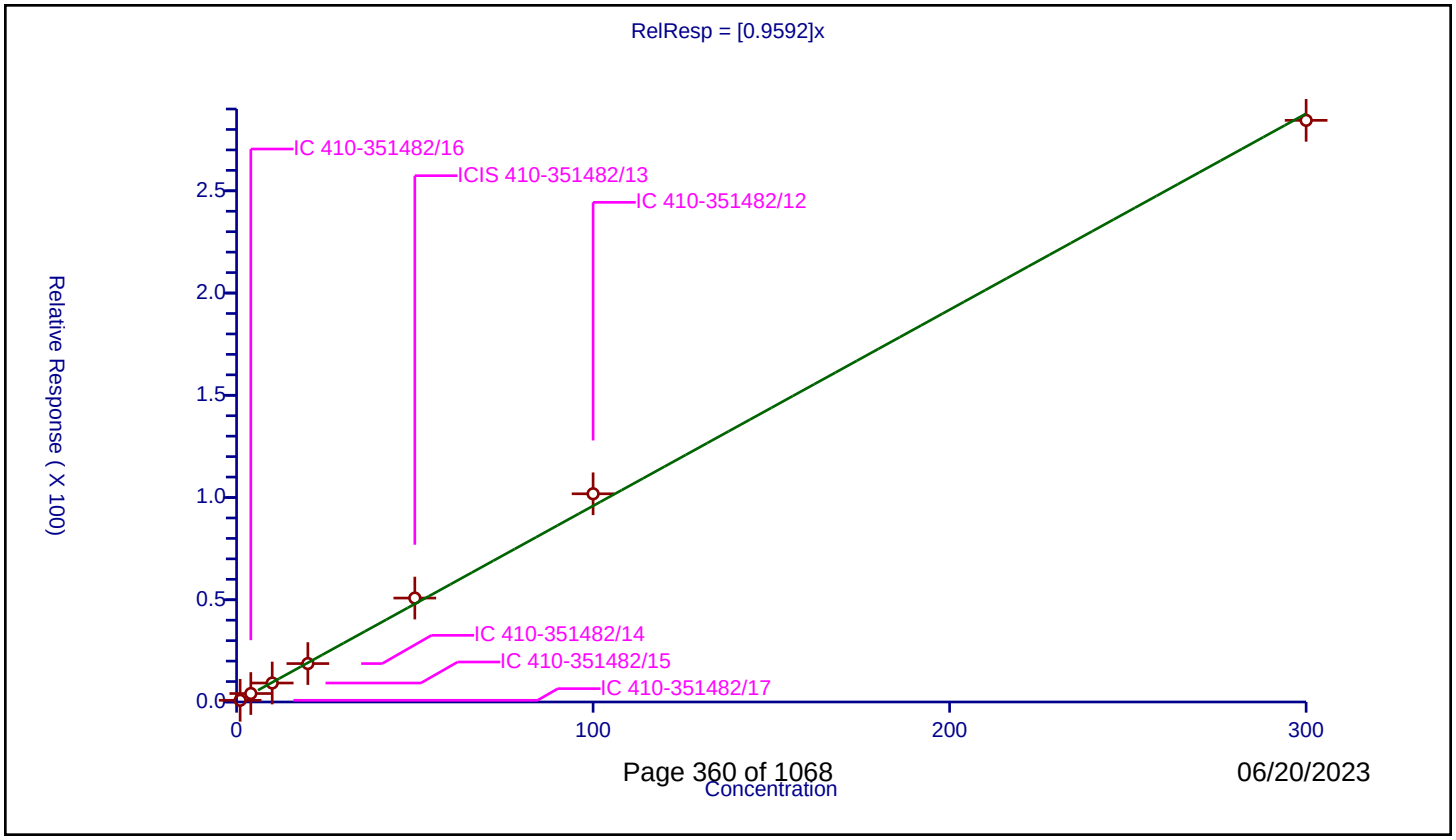
Curve Coefficients

Intercept:	0
Slope:	0.9592

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.828236	50.0	425181.0	0.828236	Y
2	IC 410-351482/16	4.0	4.143532	50.0	427570.0	1.035883	Y
3	IC 410-351482/15	10.0	9.273709	50.0	434826.0	0.927371	Y
4	IC 410-351482/14	20.0	18.792441	50.0	455630.0	0.939622	Y
5	ICIS 410-351482/13	50.0	50.828228	50.0	437621.0	1.016565	Y
6	IC 410-351482/12	100.0	101.826345	50.0	455363.0	1.018263	Y
7	IC 410-351482/11	300.0	284.454006	50.0	499804.0	0.94818	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

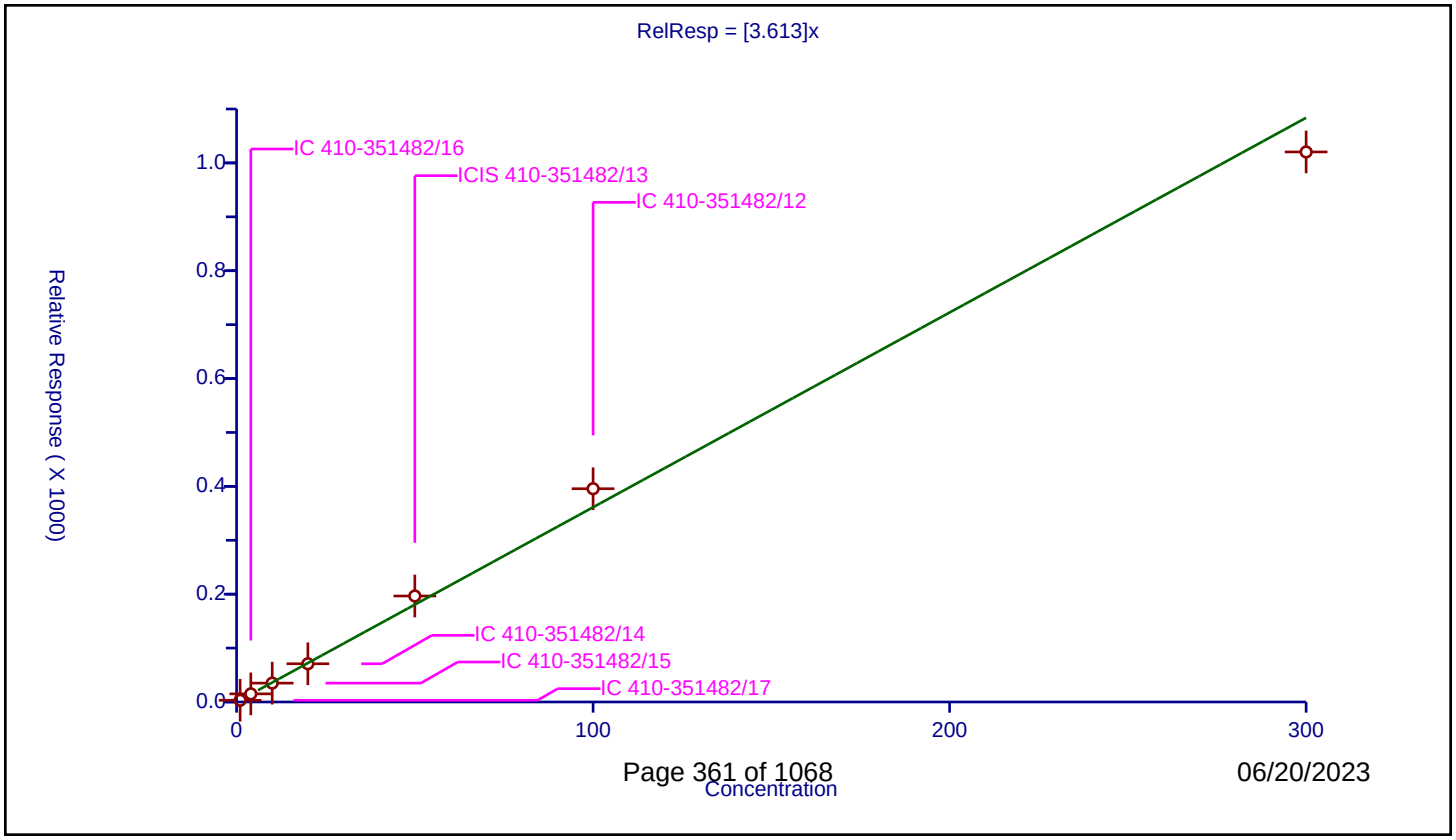
Curve Coefficients

Intercept:	0
Slope:	3.613

Error Coefficients

Standard Error:	4480000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	3.192993	50.0	425181.0	3.192993	Y
2	IC 410-351482/16	4.0	15.047711	50.0	427570.0	3.761928	Y
3	IC 410-351482/15	10.0	34.986408	50.0	434826.0	3.498641	Y
4	IC 410-351482/14	20.0	70.908522	50.0	455630.0	3.545426	Y
5	ICIS 410-351482/13	50.0	196.594313	50.0	437621.0	3.931886	Y
6	IC 410-351482/12	100.0	395.608119	50.0	455363.0	3.956081	Y
7	IC 410-351482/11	300.0	1020.35758	50.0	499804.0	3.401192	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

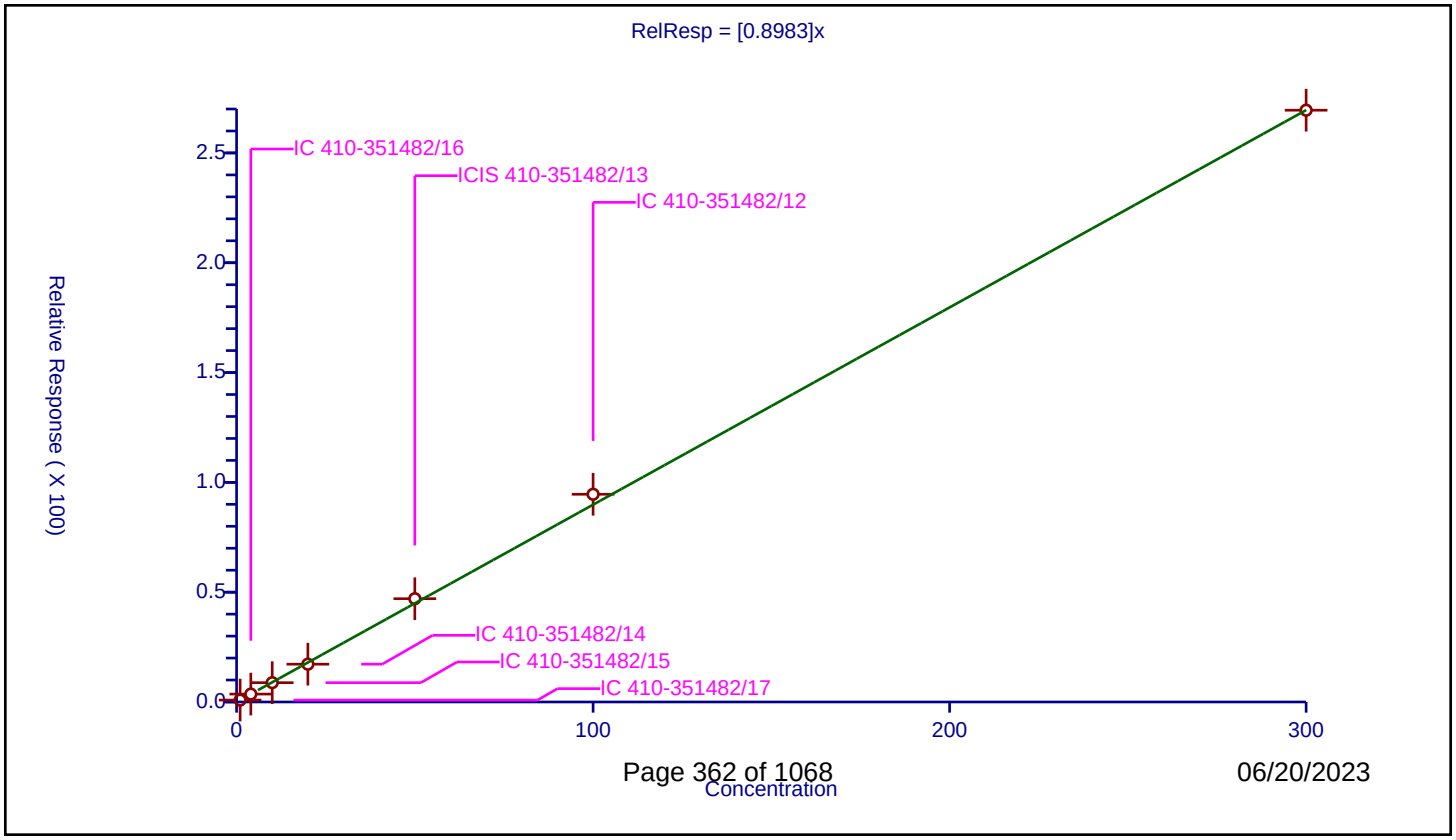
Curve Coefficients

Intercept:	0
Slope:	0.8983

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.86375	50.0	425181.0	0.86375	Y
2	IC 410-351482/16	4.0	3.599878	50.0	427570.0	0.89997	Y
3	IC 410-351482/15	10.0	8.793287	50.0	434826.0	0.879329	Y
4	IC 410-351482/14	20.0	17.212431	50.0	455630.0	0.860622	Y
5	ICIS 410-351482/13	50.0	47.026994	50.0	437621.0	0.94054	Y
6	IC 410-351482/12	100.0	94.58487	50.0	455363.0	0.945849	Y
7	IC 410-351482/11	300.0	269.455527	50.0	499804.0	0.898185	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

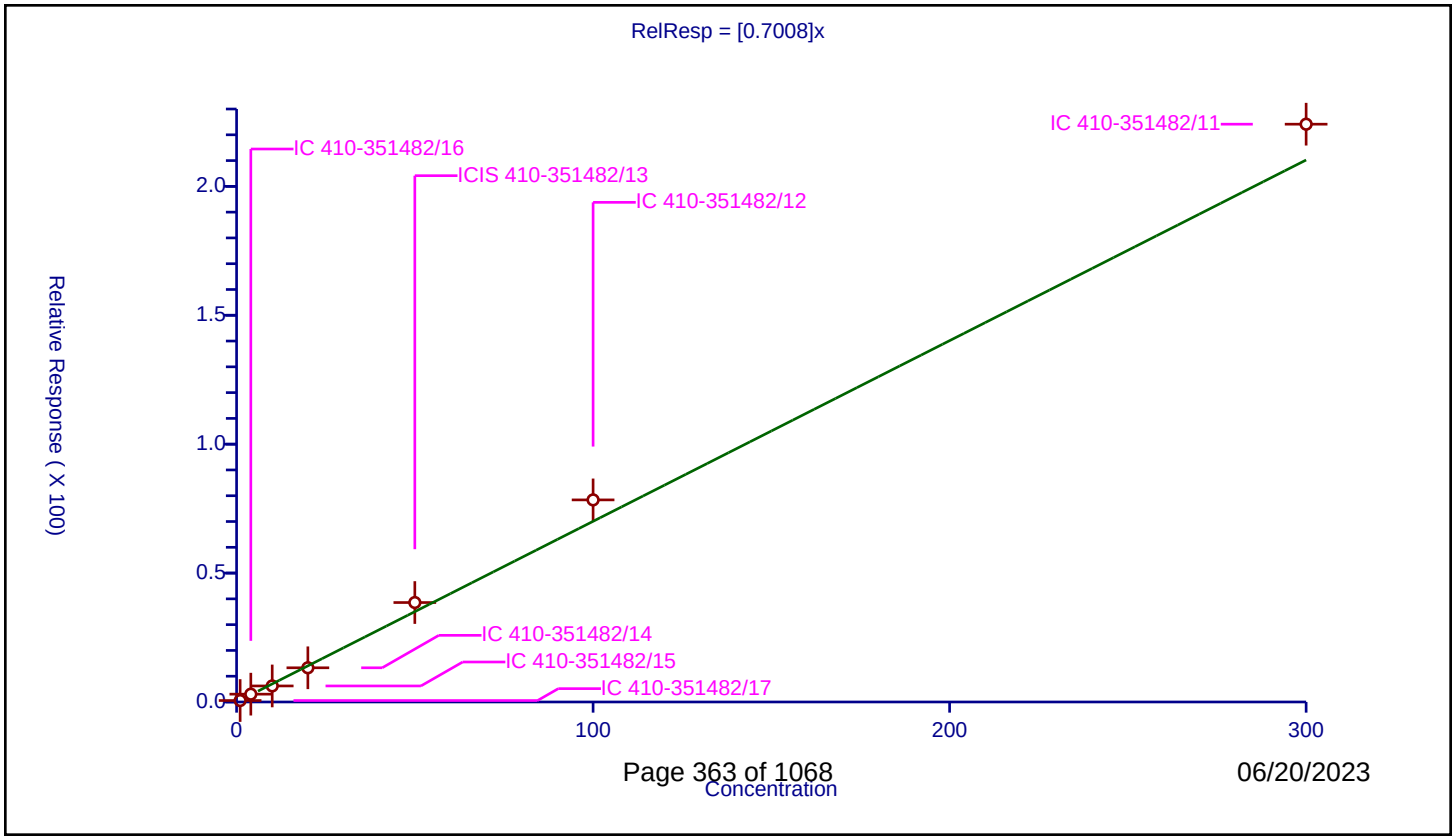
Curve Coefficients

Intercept:	0
Slope:	0.7008

Error Coefficients

Standard Error:	971000
Relative Standard Error:	12.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.558703	50.0	425181.0	0.558703	Y
2	IC 410-351482/16	4.0	3.034123	50.0	427570.0	0.758531	Y
3	IC 410-351482/15	10.0	6.225249	50.0	434826.0	0.622525	Y
4	IC 410-351482/14	20.0	13.26065	50.0	455630.0	0.663033	Y
5	ICIS 410-351482/13	50.0	38.578587	50.0	437621.0	0.771572	Y
6	IC 410-351482/12	100.0	78.387243	50.0	455363.0	0.783872	Y
7	IC 410-351482/11	300.0	224.119055	50.0	499804.0	0.747064	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

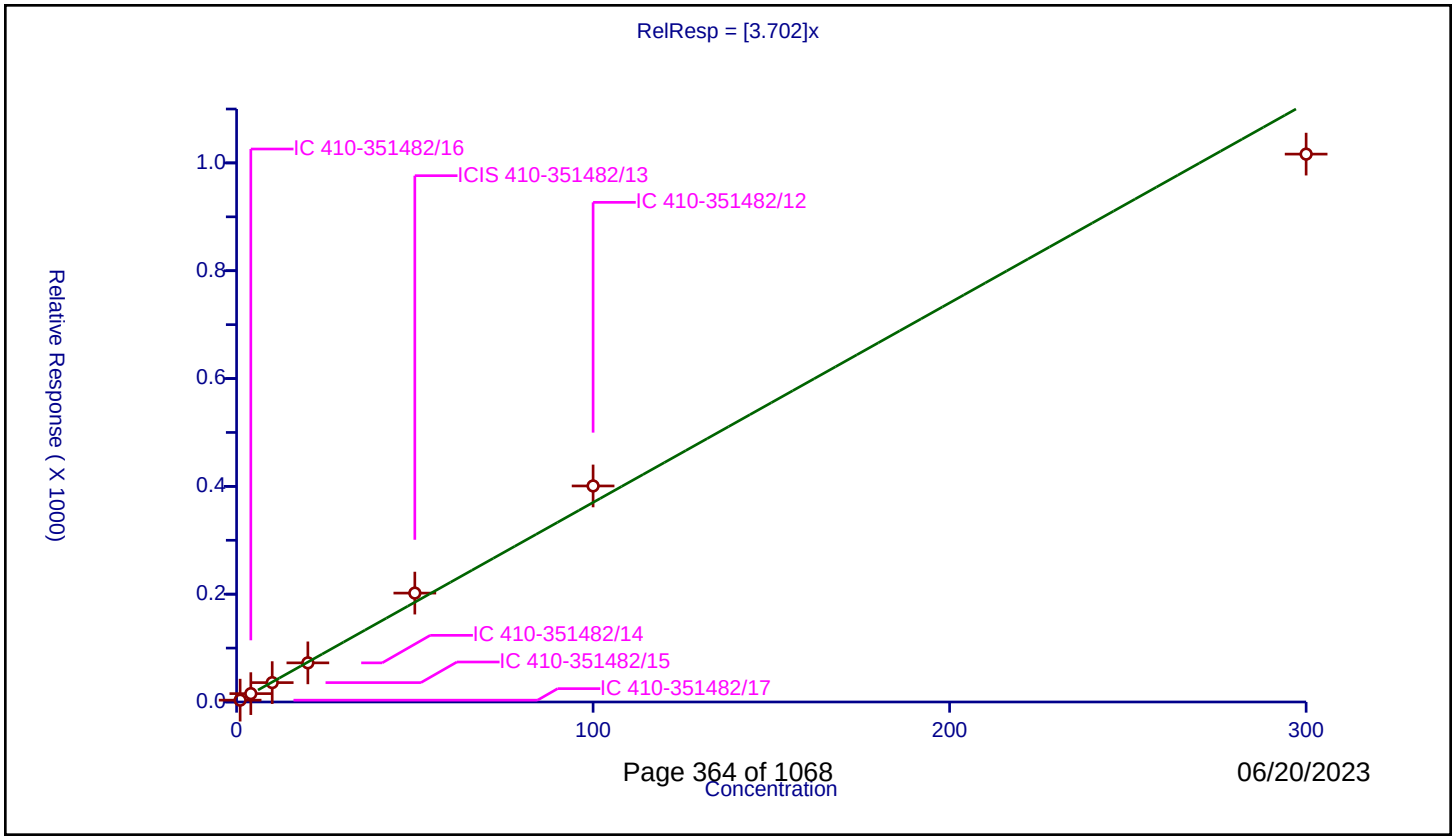
Curve Coefficients

Intercept:	0
Slope:	3.702

Error Coefficients

Standard Error:	4480000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	3.373504	50.0	425181.0	3.373504	Y
2	IC 410-351482/16	4.0	15.518745	50.0	427570.0	3.879686	Y
3	IC 410-351482/15	10.0	35.930464	50.0	434826.0	3.593046	Y
4	IC 410-351482/14	20.0	72.604745	50.0	455630.0	3.630237	Y
5	ICIS 410-351482/13	50.0	202.015328	50.0	437621.0	4.040307	Y
6	IC 410-351482/12	100.0	400.764665	50.0	455363.0	4.007647	Y
7	IC 410-351482/11	300.0	1016.335303	50.0	499804.0	3.387784	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

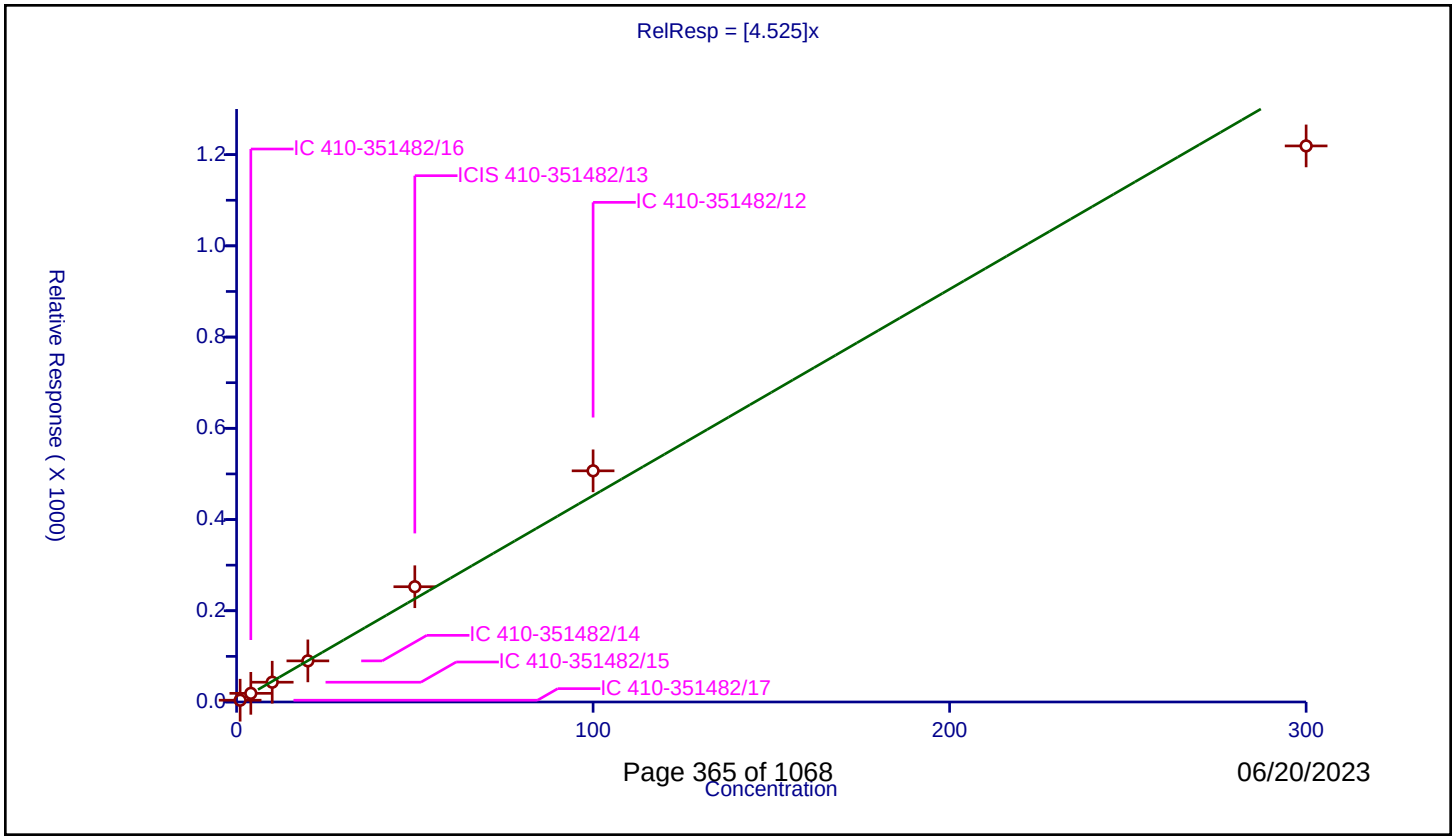
Curve Coefficients

Intercept:	0
Slope:	4.525

Error Coefficients

Standard Error:	5410000
Relative Standard Error:	10.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	3.905513	50.0	425181.0	3.905513	Y
2	IC 410-351482/16	4.0	18.961574	50.0	427570.0	4.740393	Y
3	IC 410-351482/15	10.0	43.354928	50.0	434826.0	4.335493	Y
4	IC 410-351482/14	20.0	90.12982	50.0	455630.0	4.506491	Y
5	ICIS 410-351482/13	50.0	252.723133	50.0	437621.0	5.054463	Y
6	IC 410-351482/12	100.0	506.809952	50.0	455363.0	5.0681	Y
7	IC 410-351482/11	300.0	1219.105589	50.0	499804.0	4.063685	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

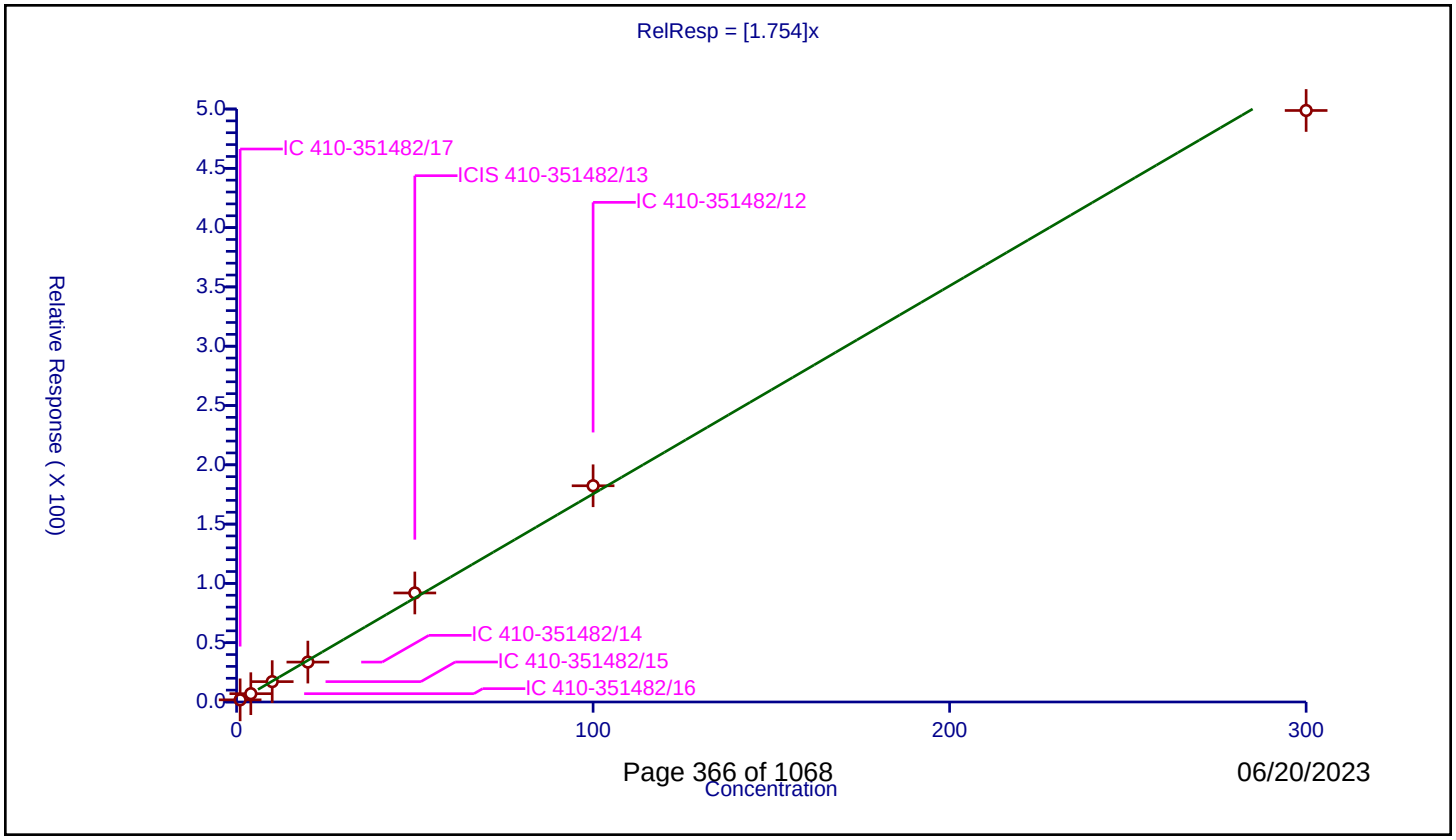
Curve Coefficients

Intercept:	0
Slope:	1.754

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.807818	50.0	425181.0	1.807818	Y
2	IC 410-351482/16	4.0	7.000725	50.0	427570.0	1.750181	Y
3	IC 410-351482/15	10.0	17.158128	50.0	434826.0	1.715813	Y
4	IC 410-351482/14	20.0	33.654061	50.0	455630.0	1.682703	Y
5	ICIS 410-351482/13	50.0	91.927261	50.0	437621.0	1.838545	Y
6	IC 410-351482/12	100.0	182.326518	50.0	455363.0	1.823265	Y
7	IC 410-351482/11	300.0	498.771018	50.0	499804.0	1.66257	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

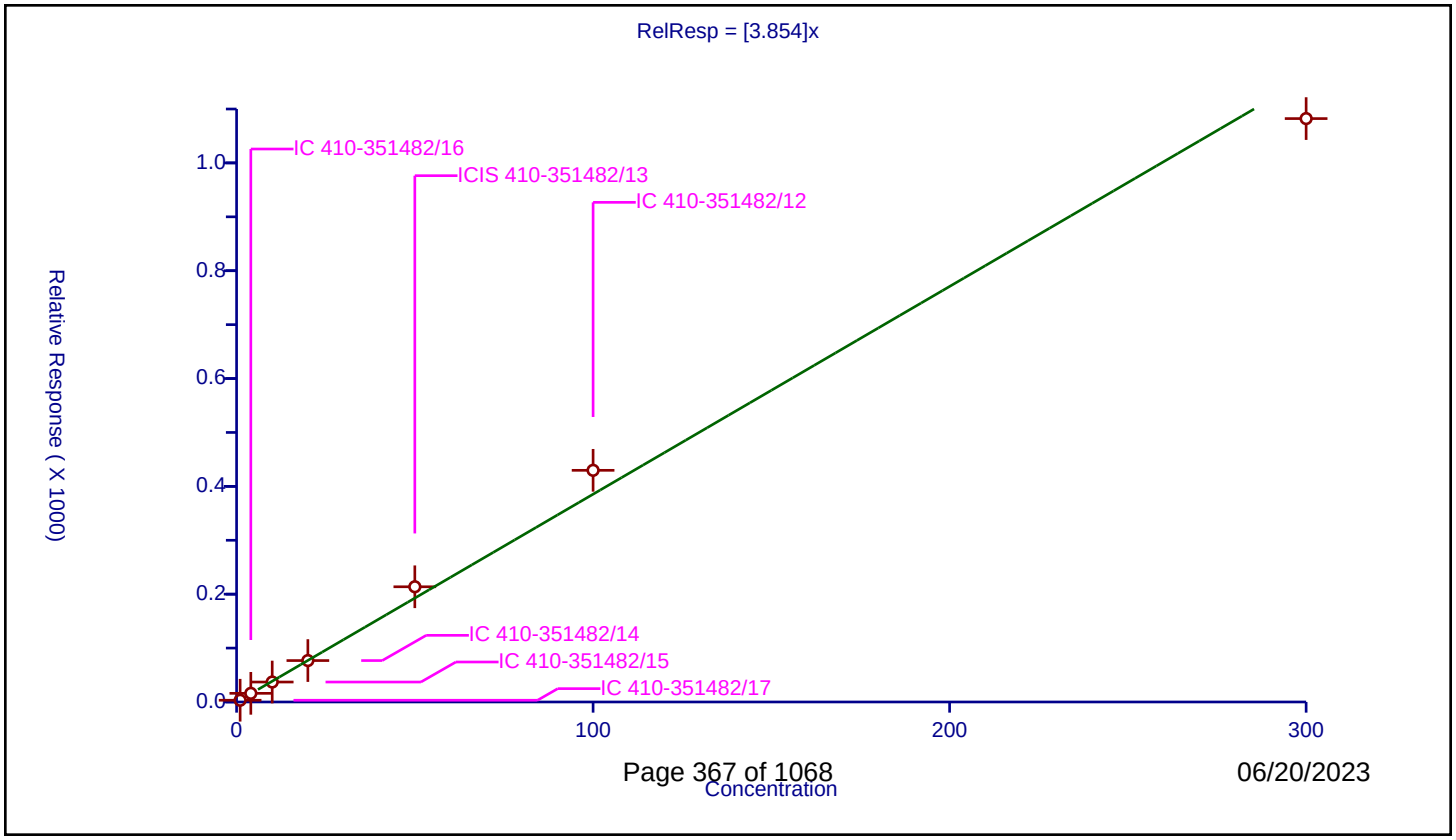
Curve Coefficients

Intercept:	0
Slope:	3.854

Error Coefficients

Standard Error:	4770000
Relative Standard Error:	9.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	3.245677	50.0	425181.0	3.245677	Y
2	IC 410-351482/16	4.0	16.04404	50.0	427570.0	4.01101	Y
3	IC 410-351482/15	10.0	37.009746	50.0	434826.0	3.700975	Y
4	IC 410-351482/14	20.0	76.850295	50.0	455630.0	3.842515	Y
5	ICIS 410-351482/13	50.0	213.729231	50.0	437621.0	4.274585	Y
6	IC 410-351482/12	100.0	429.763398	50.0	455363.0	4.297634	Y
7	IC 410-351482/11	300.0	1082.247641	50.0	499804.0	3.607492	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

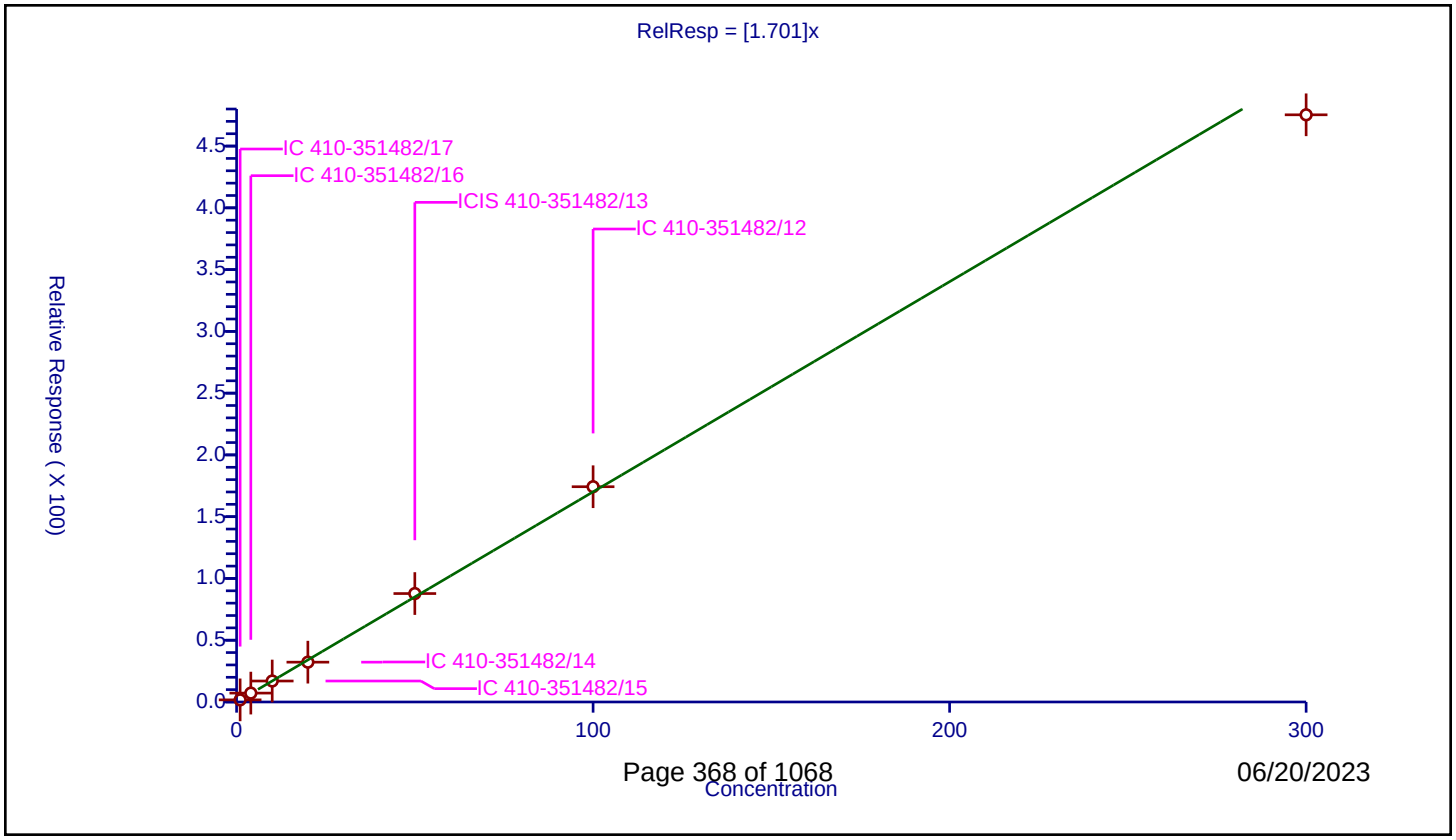
Curve Coefficients

Intercept:	0
Slope:	1.701

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.717033	50.0	425181.0	1.717033	Y
2	IC 410-351482/16	4.0	7.193208	50.0	427570.0	1.798302	Y
3	IC 410-351482/15	10.0	16.980585	50.0	434826.0	1.698059	Y
4	IC 410-351482/14	20.0	32.239427	50.0	455630.0	1.611971	Y
5	ICIS 410-351482/13	50.0	87.773667	50.0	437621.0	1.755473	Y
6	IC 410-351482/12	100.0	174.249006	50.0	455363.0	1.74249	Y
7	IC 410-351482/11	300.0	475.310522	50.0	499804.0	1.584368	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

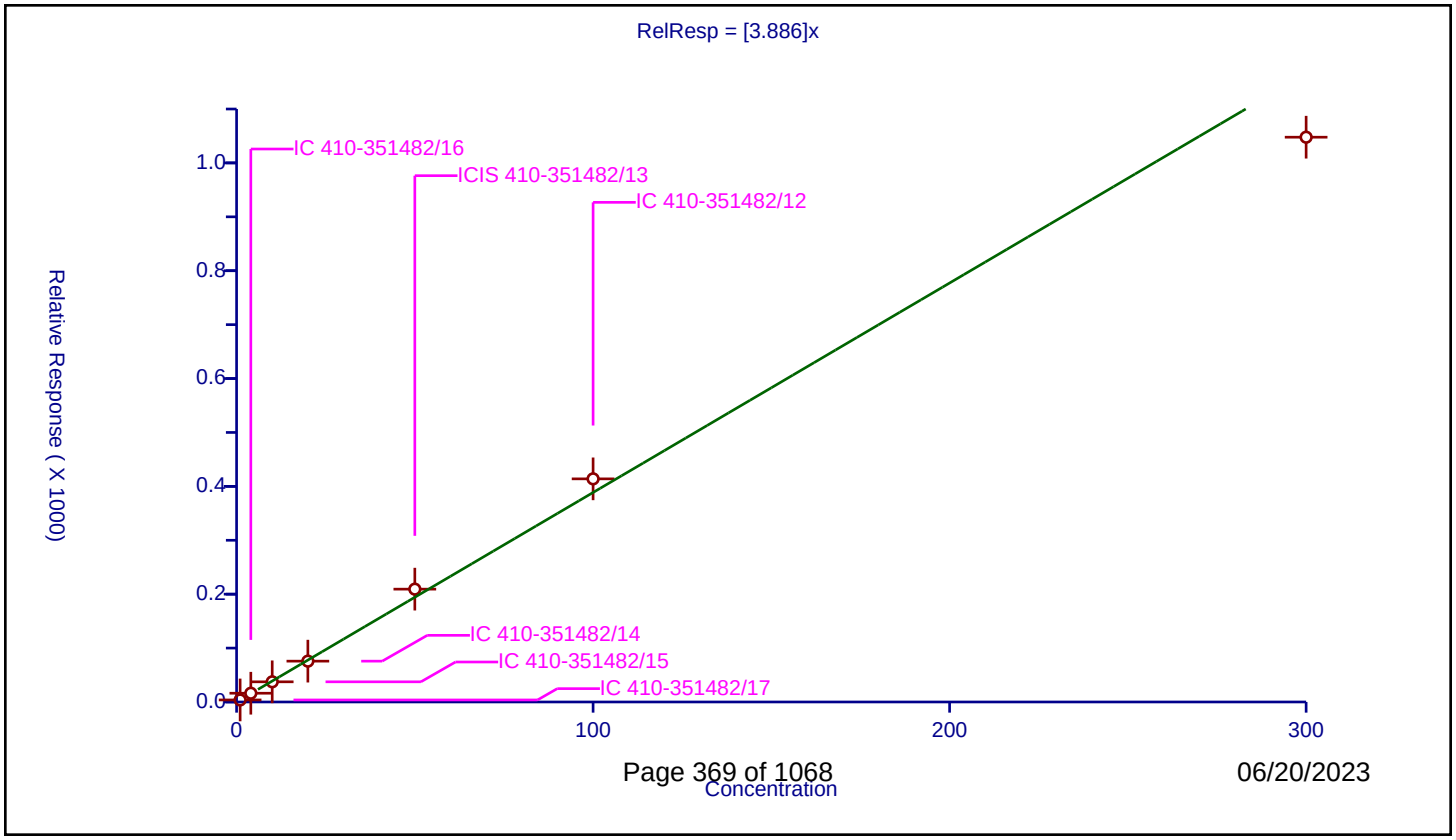
Curve Coefficients

Intercept:	0
Slope:	3.886

Error Coefficients

Standard Error:	4620000
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	IC 410-351482/17	1.0	3.791915	50.0	425181.0	3.791915	Y
2	IC 410-351482/16	4.0	16.25839	50.0	427570.0	4.064598	Y
3	IC 410-351482/15	10.0	37.417151	50.0	434826.0	3.741715	Y
4	IC 410-351482/14	20.0	75.746	50.0	455630.0	3.7873	Y
5	ICIS 410-351482/13	50.0	209.304398	50.0	437621.0	4.186088	Y
6	IC 410-351482/12	100.0	413.936464	50.0	455363.0	4.139365	Y
7	IC 410-351482/11	300.0	1047.735012	50.0	499804.0	3.49245	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

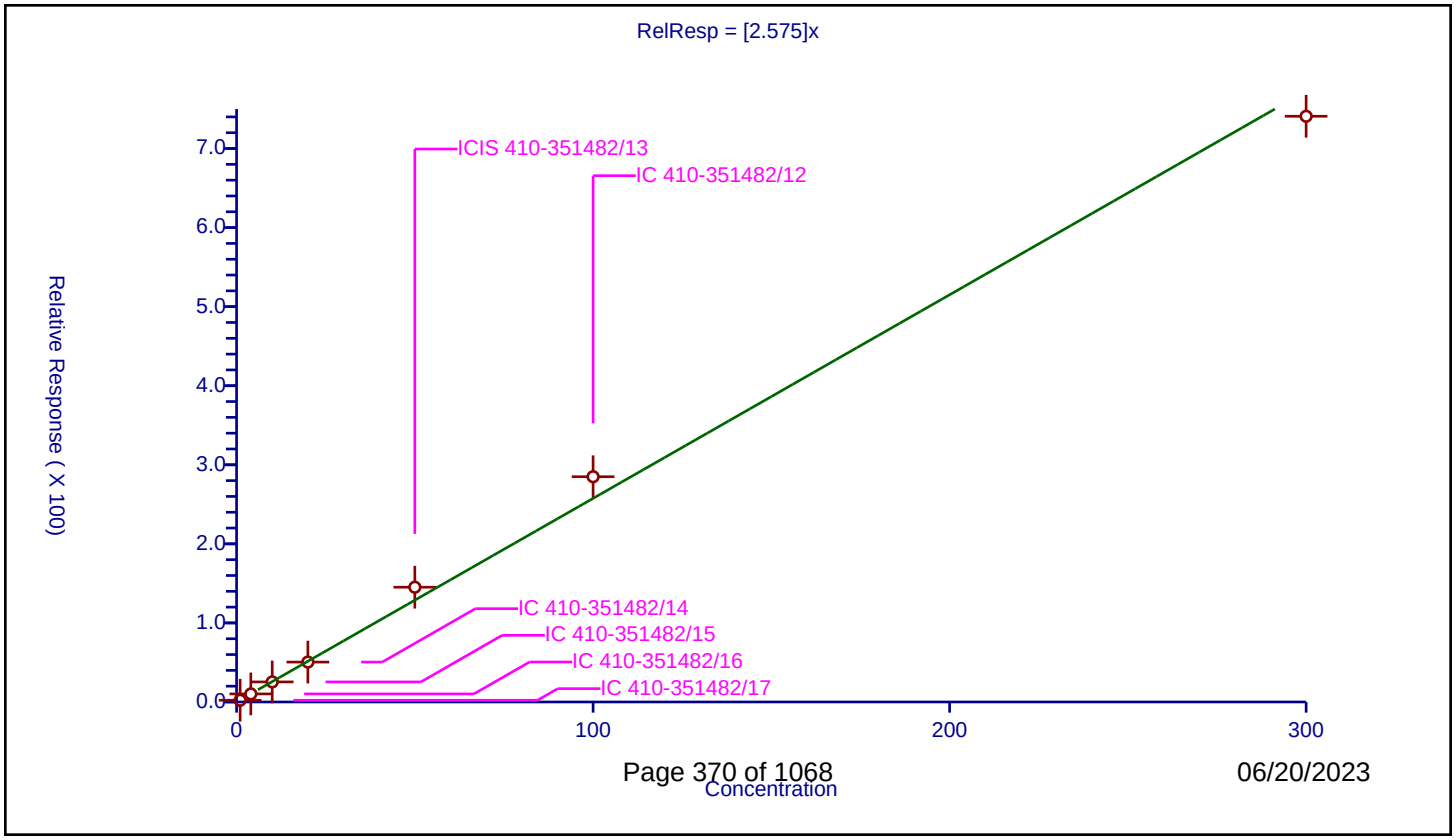
Curve Coefficients

Intercept:	0
Slope:	2.575

Error Coefficients

Standard Error:	3250000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	2.194007	50.0	425181.0	2.194007	Y
2	IC 410-351482/16	4.0	10.187338	50.0	427570.0	2.546834	Y
3	IC 410-351482/15	10.0	25.394986	50.0	434826.0	2.539499	Y
4	IC 410-351482/14	20.0	50.487896	50.0	455630.0	2.524395	Y
5	ICIS 410-351482/13	50.0	145.178362	50.0	437621.0	2.903567	Y
6	IC 410-351482/12	100.0	284.905229	50.0	455363.0	2.849052	Y
7	IC 410-351482/11	300.0	740.813299	50.0	499804.0	2.469378	Y



Calibration / 1,3-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

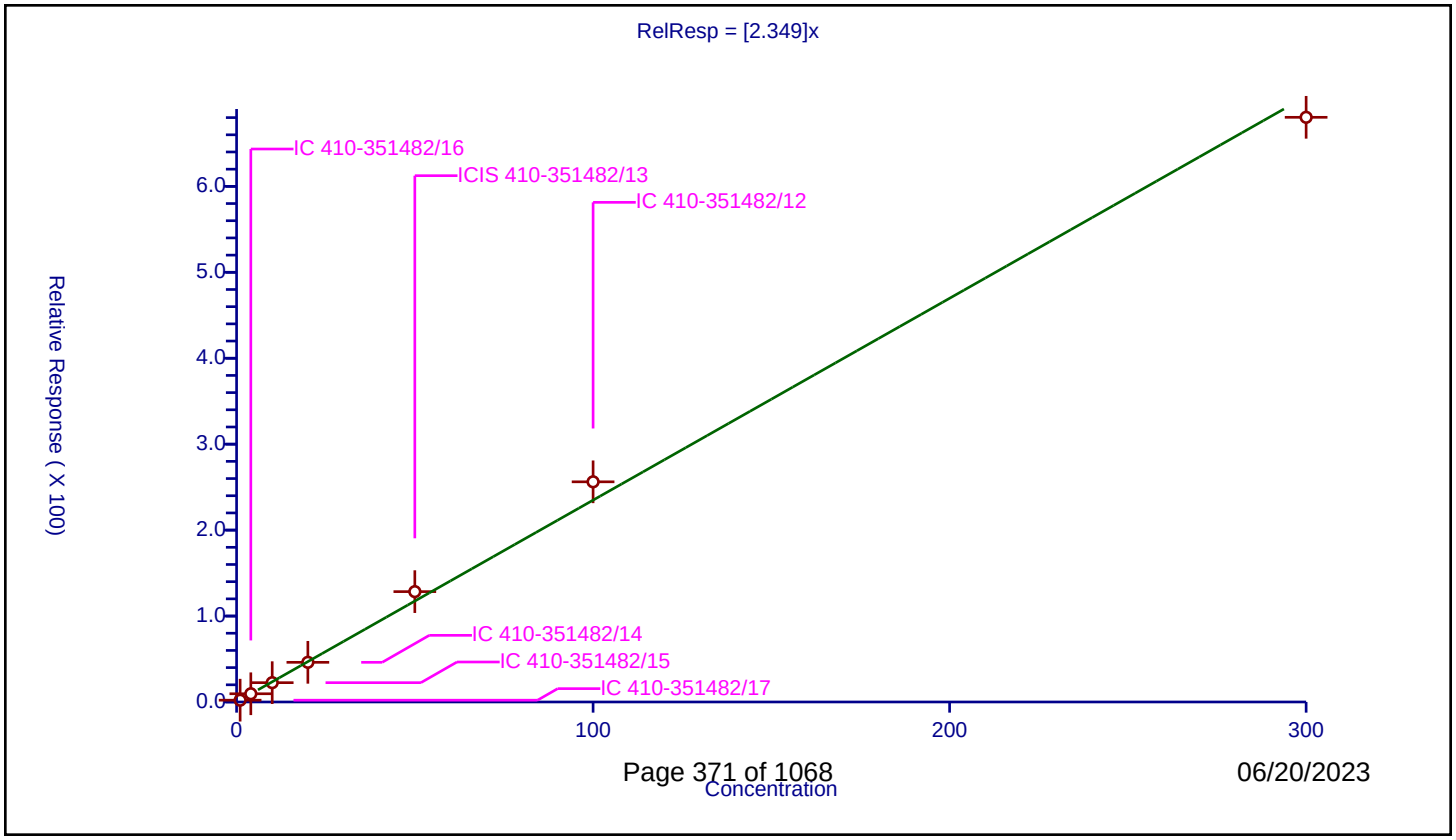
Curve Coefficients

Intercept:	0
Slope:	2.349

Error Coefficients

Standard Error:	2980000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	2.096284	50.0	425181.0	2.096284	Y
2	IC 410-351482/16	4.0	9.568726	50.0	427570.0	2.392181	Y
3	IC 410-351482/15	10.0	22.467033	50.0	434826.0	2.246703	Y
4	IC 410-351482/14	20.0	46.160701	50.0	455630.0	2.308035	Y
5	ICIS 410-351482/13	50.0	128.409857	50.0	437621.0	2.568197	Y
6	IC 410-351482/12	100.0	256.196156	50.0	455363.0	2.561962	Y
7	IC 410-351482/11	300.0	680.351598	50.0	499804.0	2.267839	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

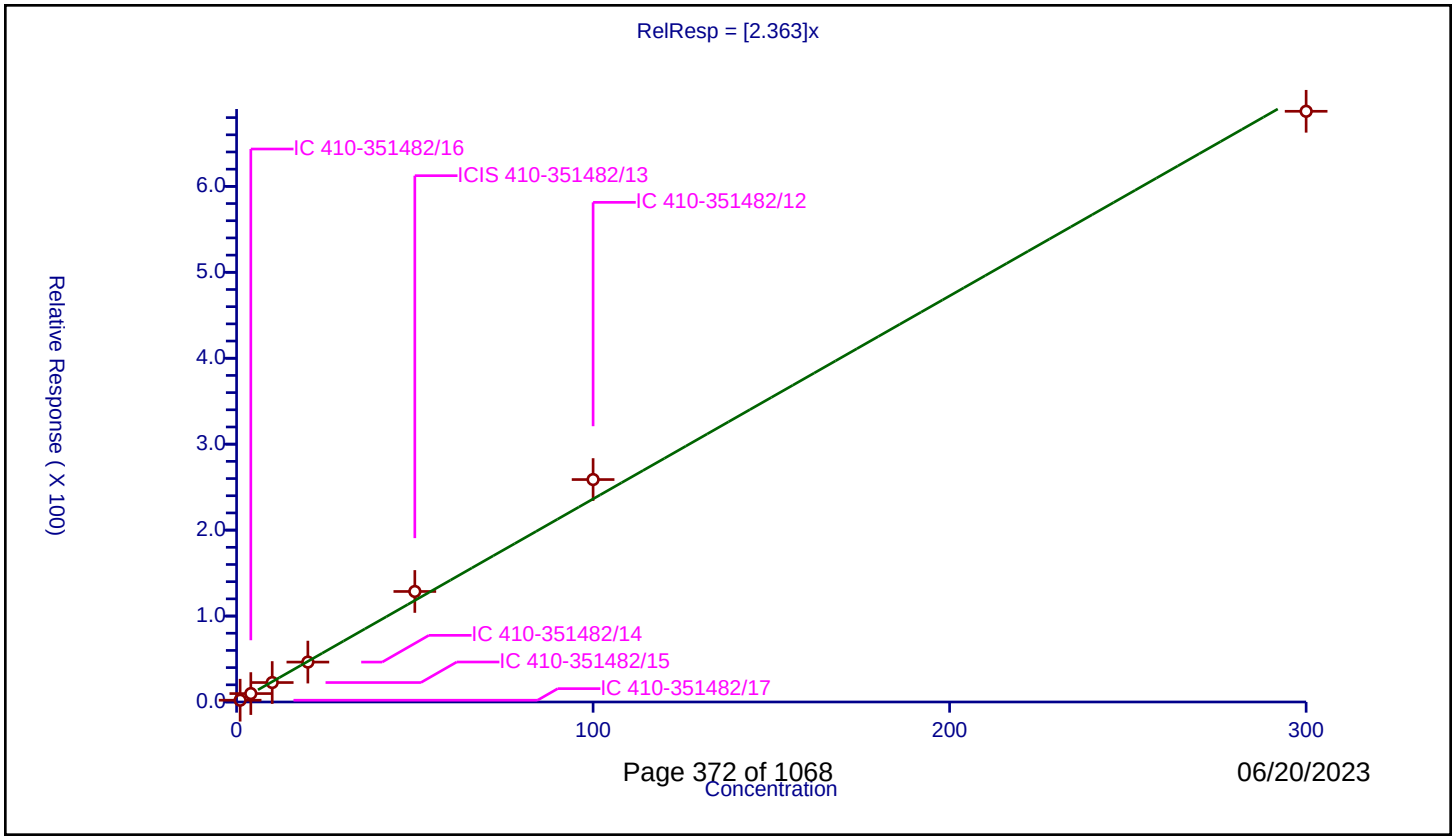
Curve Coefficients

Intercept:	0
Slope:	2.363

Error Coefficients

Standard Error:	3010000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	2.057594	50.0	425181.0	2.057594	Y
2	IC 410-351482/16	4.0	9.779919	50.0	427570.0	2.44498	Y
3	IC 410-351482/15	10.0	22.630546	50.0	434826.0	2.263055	Y
4	IC 410-351482/14	20.0	46.423194	50.0	455630.0	2.32116	Y
5	ICIS 410-351482/13	50.0	128.610601	50.0	437621.0	2.572212	Y
6	IC 410-351482/12	100.0	258.842835	50.0	455363.0	2.588428	Y
7	IC 410-351482/11	300.0	687.34694	50.0	499804.0	2.291156	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

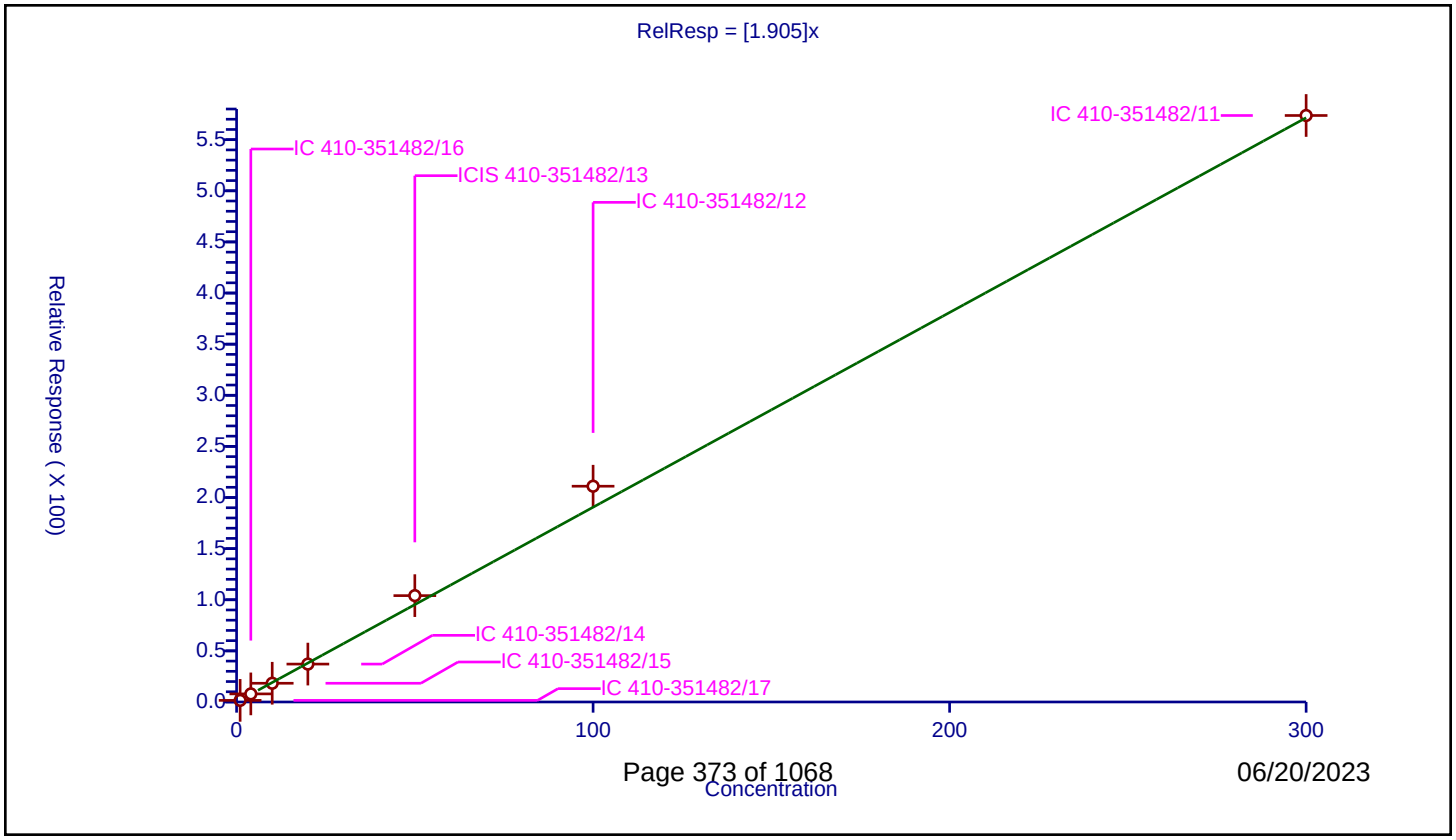
Curve Coefficients

Intercept:	0
Slope:	1.905

Error Coefficients

Standard Error:	2500000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.566509	50.0	425181.0	1.566509	Y
2	IC 410-351482/16	4.0	7.914494	50.0	427570.0	1.978623	Y
3	IC 410-351482/15	10.0	18.315027	50.0	434826.0	1.831503	Y
4	IC 410-351482/14	20.0	37.088427	50.0	455630.0	1.854421	Y
5	ICIS 410-351482/13	50.0	104.0302	50.0	437621.0	2.080604	Y
6	IC 410-351482/12	100.0	211.04745	50.0	455363.0	2.110475	Y
7	IC 410-351482/11	300.0	573.654473	50.0	499804.0	1.912182	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

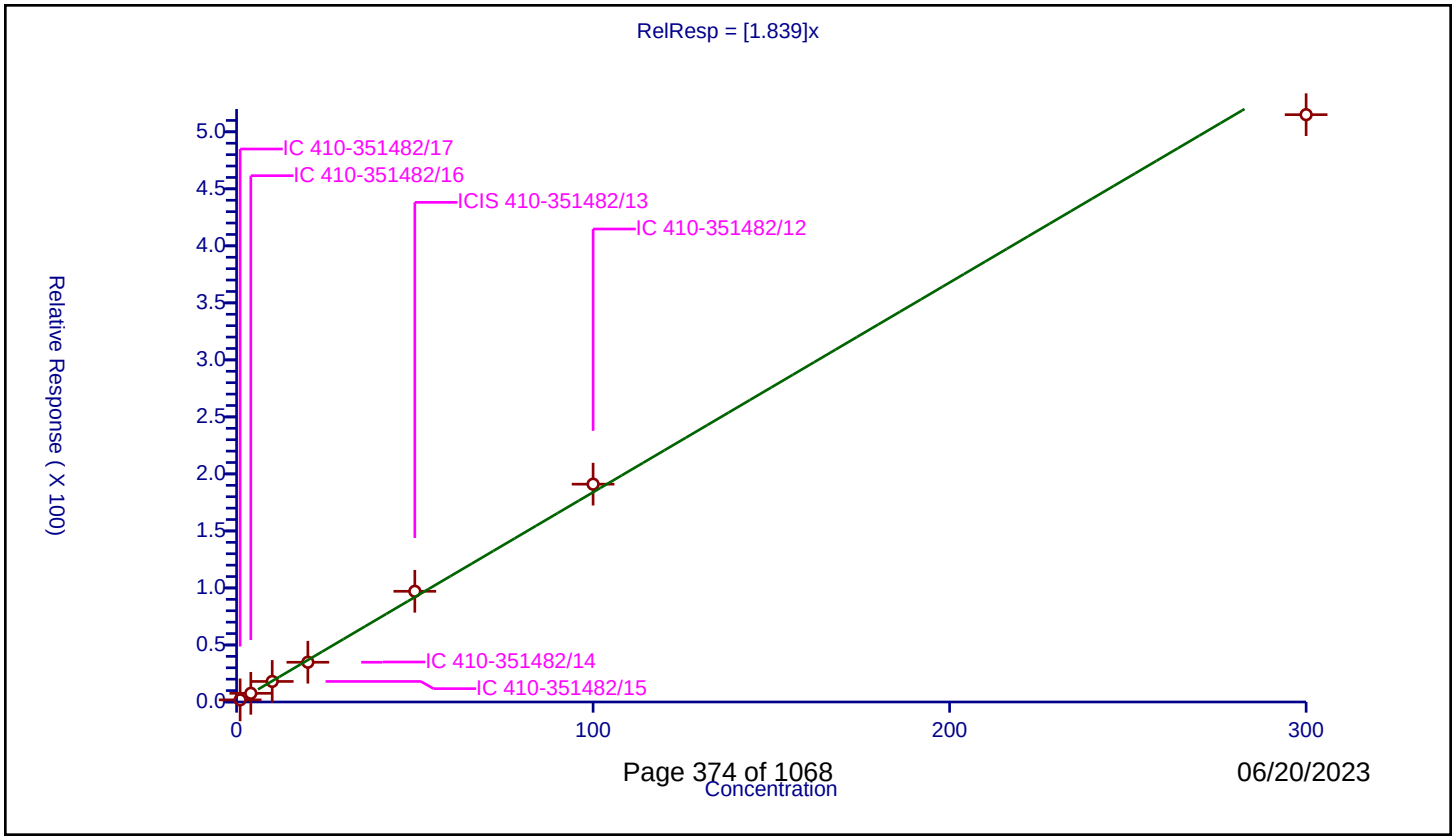
Curve Coefficients

Intercept:	0
Slope:	1.839

Error Coefficients

Standard Error:	2250000
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	IC 410-351482/17	1.0	1.855445	50.0	425181.0	1.855445	Y
2	IC 410-351482/16	4.0	7.623079	50.0	427570.0	1.90577	Y
3	IC 410-351482/15	10.0	18.016057	50.0	434826.0	1.801606	Y
4	IC 410-351482/14	20.0	34.864364	50.0	455630.0	1.743218	Y
5	ICIS 410-351482/13	50.0	97.07658	50.0	437621.0	1.941532	Y
6	IC 410-351482/12	100.0	191.029684	50.0	455363.0	1.910297	Y
7	IC 410-351482/11	300.0	515.043197	50.0	499804.0	1.716811	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

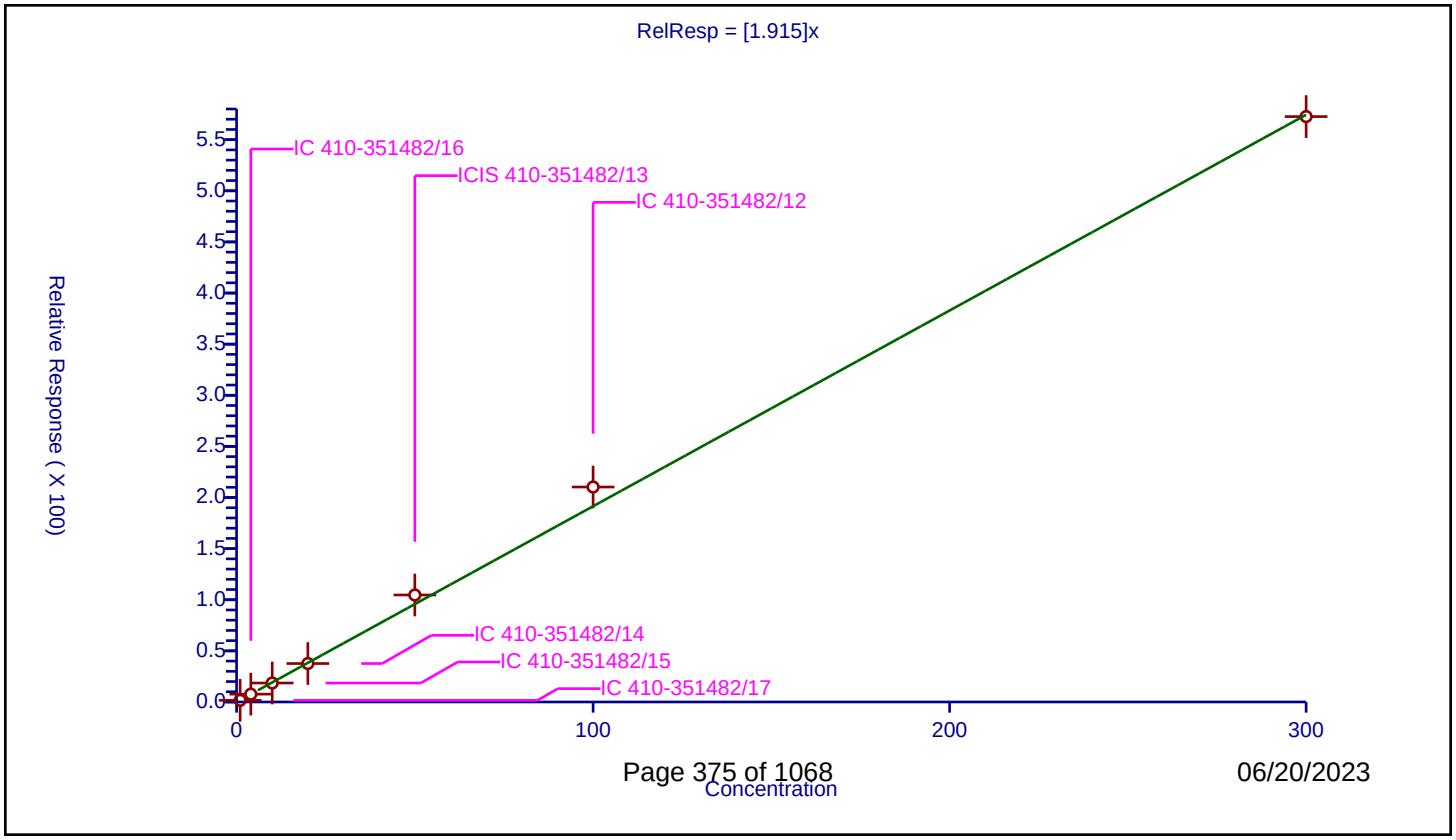
Curve Coefficients

Intercept:	0
Slope:	1.915

Error Coefficients

Standard Error:	2500000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.637303	50.0	425181.0	1.637303	Y
2	IC 410-351482/16	4.0	7.69032	50.0	427570.0	1.92258	Y
3	IC 410-351482/15	10.0	18.562712	50.0	434826.0	1.856271	Y
4	IC 410-351482/14	20.0	37.626912	50.0	455630.0	1.881346	Y
5	ICIS 410-351482/13	50.0	104.651171	50.0	437621.0	2.093023	Y
6	IC 410-351482/12	100.0	210.270378	50.0	455363.0	2.102704	Y
7	IC 410-351482/11	300.0	572.599859	50.0	499804.0	1.908666	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

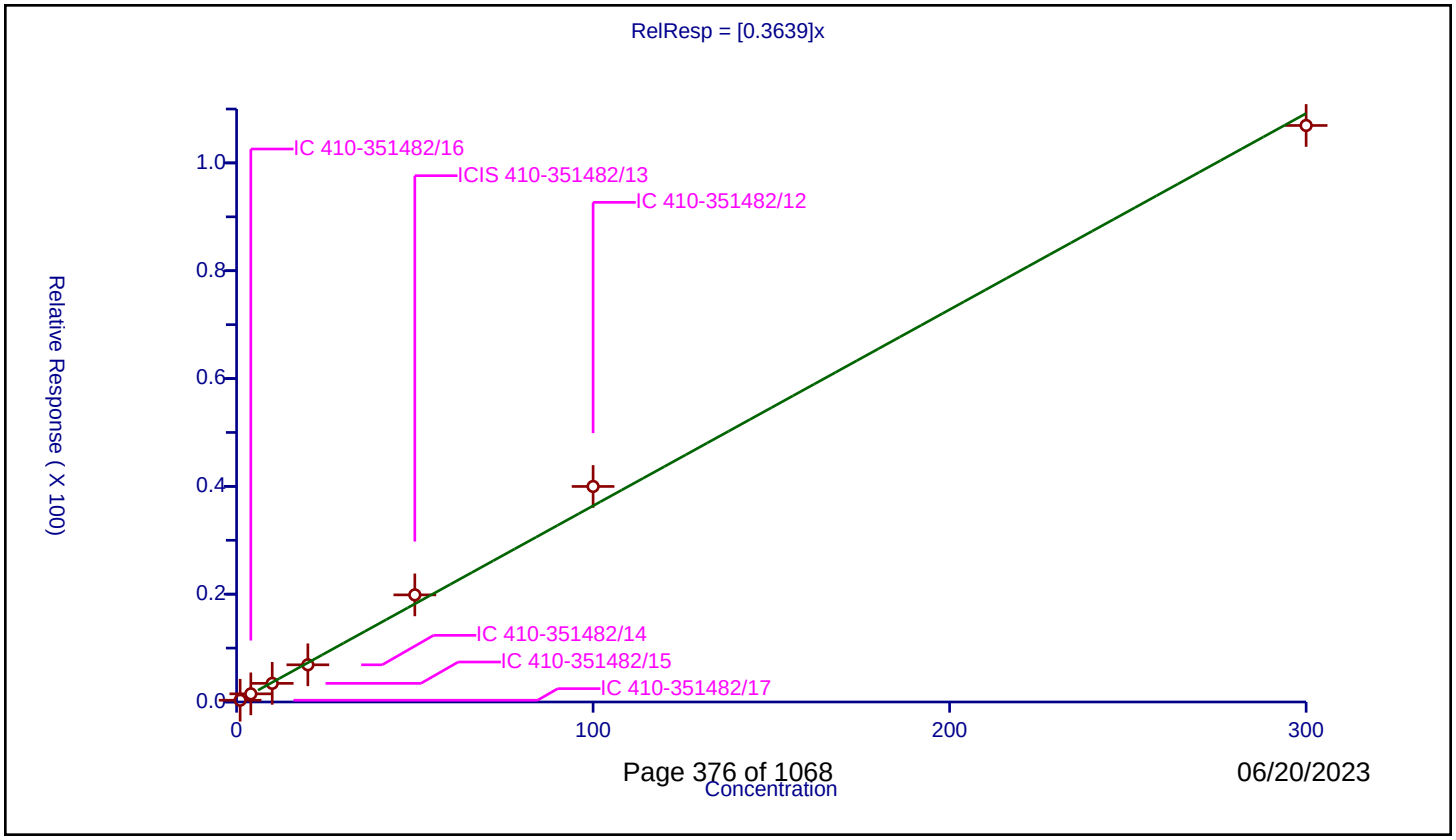
Curve Coefficients

Intercept:	0
Slope:	0.3639

Error Coefficients

Standard Error:	467000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.325744	50.0	425181.0	0.325744	Y
2	IC 410-351482/16	4.0	1.511098	50.0	427570.0	0.377774	Y
3	IC 410-351482/15	10.0	3.454025	50.0	434826.0	0.345403	Y
4	IC 410-351482/14	20.0	6.900007	50.0	455630.0	0.345	Y
5	ICIS 410-351482/13	50.0	19.869019	50.0	437621.0	0.39738	Y
6	IC 410-351482/12	100.0	39.98107	50.0	455363.0	0.399811	Y
7	IC 410-351482/11	300.0	106.946623	50.0	499804.0	0.356489	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

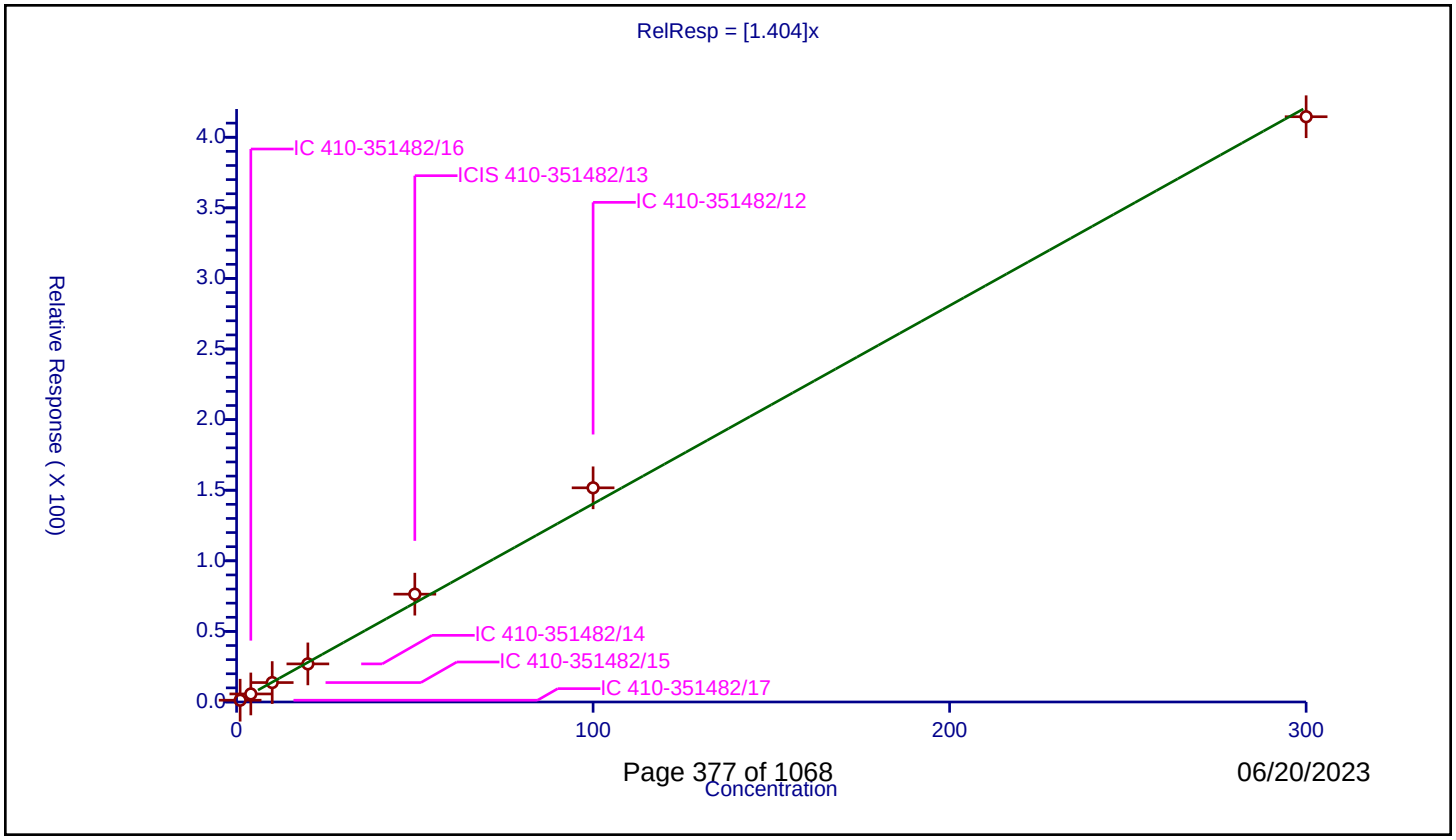
Curve Coefficients

Intercept:	0
Slope:	1.404

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.251585	50.0	425181.0	1.251585	Y
2	IC 410-351482/16	4.0	5.696611	50.0	427570.0	1.424153	Y
3	IC 410-351482/15	10.0	13.752742	50.0	434826.0	1.375274	Y
4	IC 410-351482/14	20.0	26.981542	50.0	455630.0	1.349077	Y
5	ICIS 410-351482/13	50.0	76.367222	50.0	437621.0	1.527344	Y
6	IC 410-351482/12	100.0	151.693155	50.0	455363.0	1.516932	Y
7	IC 410-351482/11	300.0	414.548203	50.0	499804.0	1.381827	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

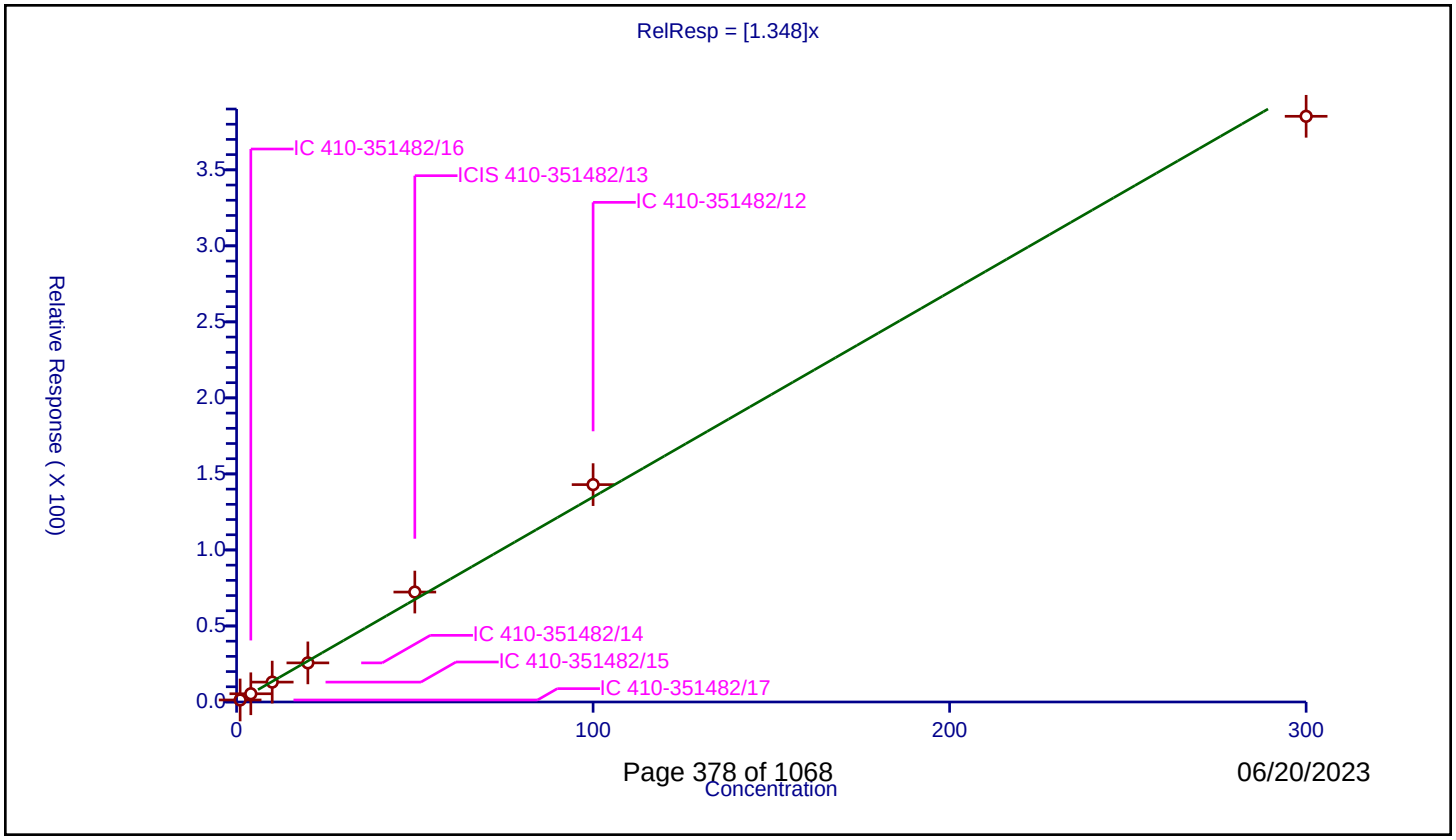
Curve Coefficients

Intercept:	0
Slope:	1.348

Error Coefficients

Standard Error:	1680000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.328611	50.0	425181.0	1.328611	Y
2	IC 410-351482/16	4.0	5.415604	50.0	427570.0	1.353901	Y
3	IC 410-351482/15	10.0	13.081209	50.0	434826.0	1.308121	Y
4	IC 410-351482/14	20.0	25.717029	50.0	455630.0	1.285851	Y
5	ICIS 410-351482/13	50.0	72.298633	50.0	437621.0	1.445973	Y
6	IC 410-351482/12	100.0	142.96122	50.0	455363.0	1.429612	Y
7	IC 410-351482/11	300.0	385.2045	50.0	499804.0	1.284015	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

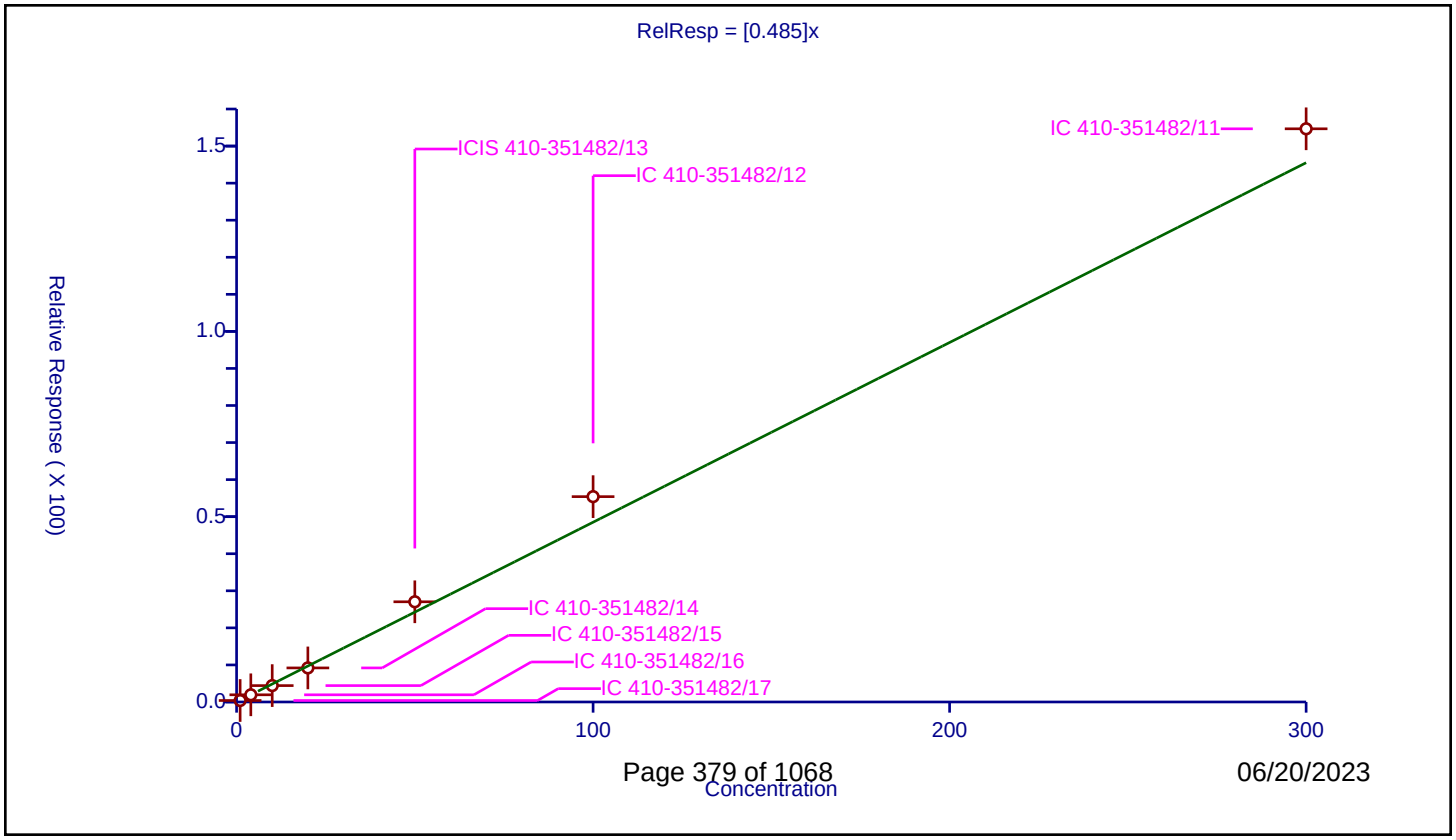
Curve Coefficients

Intercept:	0
Slope:	0.485

Error Coefficients

Standard Error:	672000
Relative Standard Error:	11.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	0.398419	50.0	425181.0	0.398419	Y
2	IC 410-351482/16	4.0	1.936876	50.0	427570.0	0.484219	Y
3	IC 410-351482/15	10.0	4.423609	50.0	434826.0	0.442361	Y
4	IC 410-351482/14	20.0	9.194741	50.0	455630.0	0.459737	Y
5	ICIS 410-351482/13	50.0	27.038579	50.0	437621.0	0.540772	Y
6	IC 410-351482/12	100.0	55.407444	50.0	455363.0	0.554074	Y
7	IC 410-351482/11	300.0	154.660727	50.0	499804.0	0.515536	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

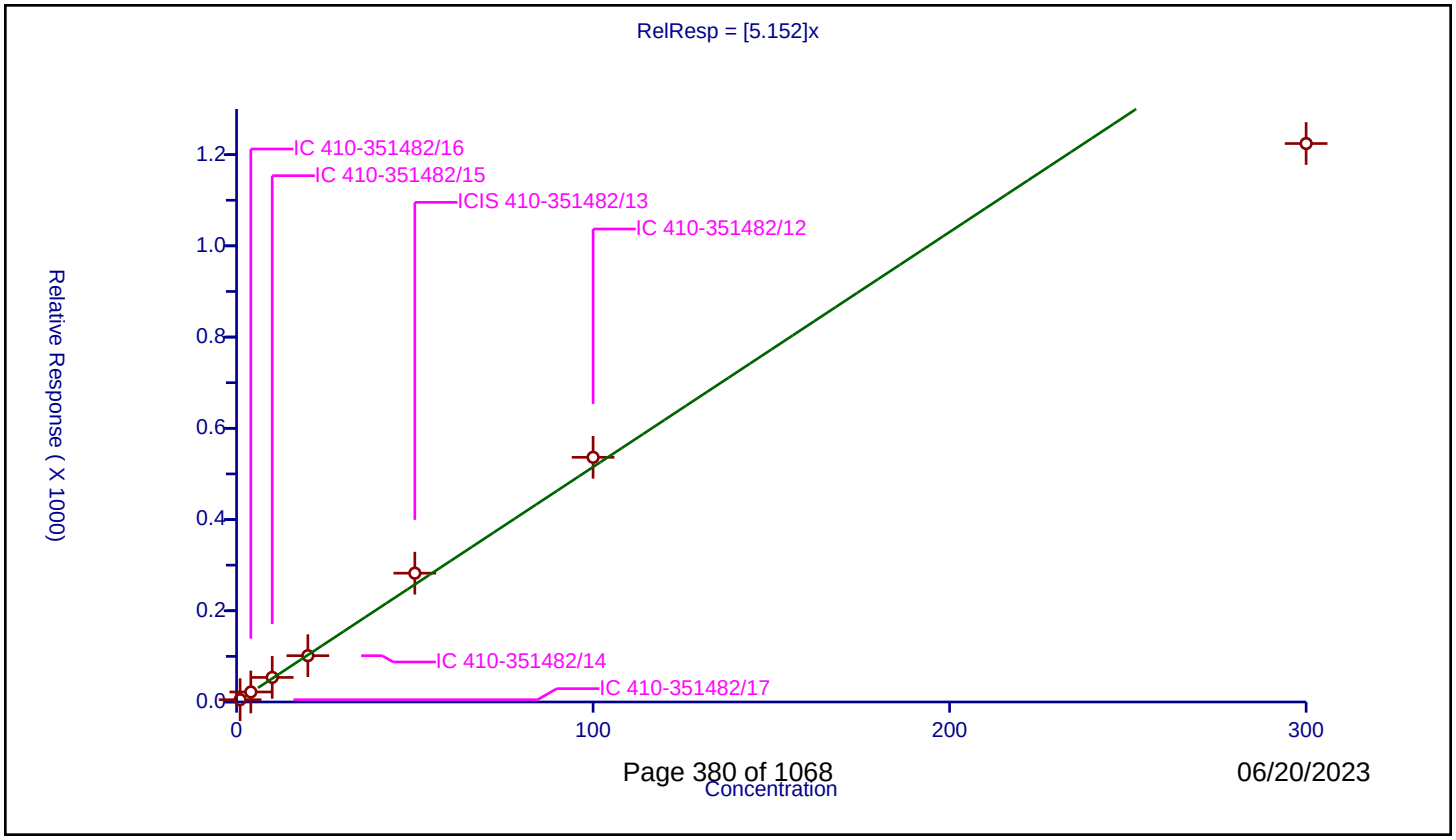
Curve Coefficients

Intercept:	0
Slope:	5.152

Error Coefficients

Standard Error:	5490000
Relative Standard Error:	10.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	5.021038	50.0	425181.0	5.021038	Y
2	IC 410-351482/16	4.0	21.951493	50.0	427570.0	5.487873	Y
3	IC 410-351482/15	10.0	53.852805	50.0	434826.0	5.385281	Y
4	IC 410-351482/14	20.0	101.492439	50.0	455630.0	5.074622	Y
5	ICIS 410-351482/13	50.0	282.388985	50.0	437621.0	5.64778	Y
6	IC 410-351482/12	100.0	536.441916	50.0	455363.0	5.364419	Y
7	IC 410-351482/11	300.0	1224.373955	50.0	499804.0	4.081247	Y



06/20/2023

Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

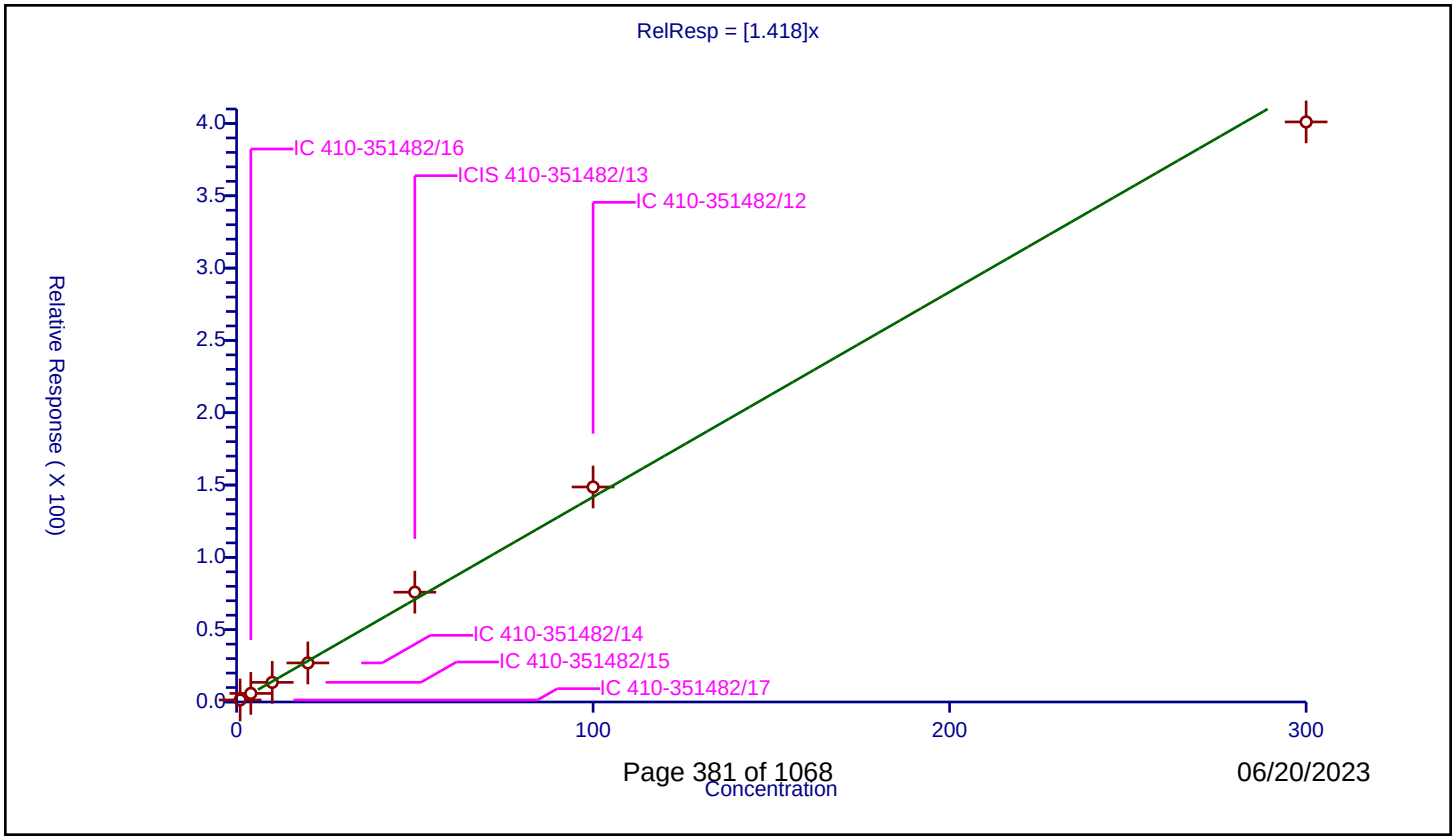
Curve Coefficients

Intercept:	0
Slope:	1.418

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	1.393995	50.0	425181.0	1.393995	Y
2	IC 410-351482/16	4.0	5.923007	50.0	427570.0	1.480752	Y
3	IC 410-351482/15	10.0	13.570831	50.0	434826.0	1.357083	Y
4	IC 410-351482/14	20.0	26.997454	50.0	455630.0	1.349873	Y
5	ICIS 410-351482/13	50.0	75.921402	50.0	437621.0	1.518428	Y
6	IC 410-351482/12	100.0	148.65459	50.0	455363.0	1.486546	Y
7	IC 410-351482/11	300.0	401.067619	50.0	499804.0	1.336892	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

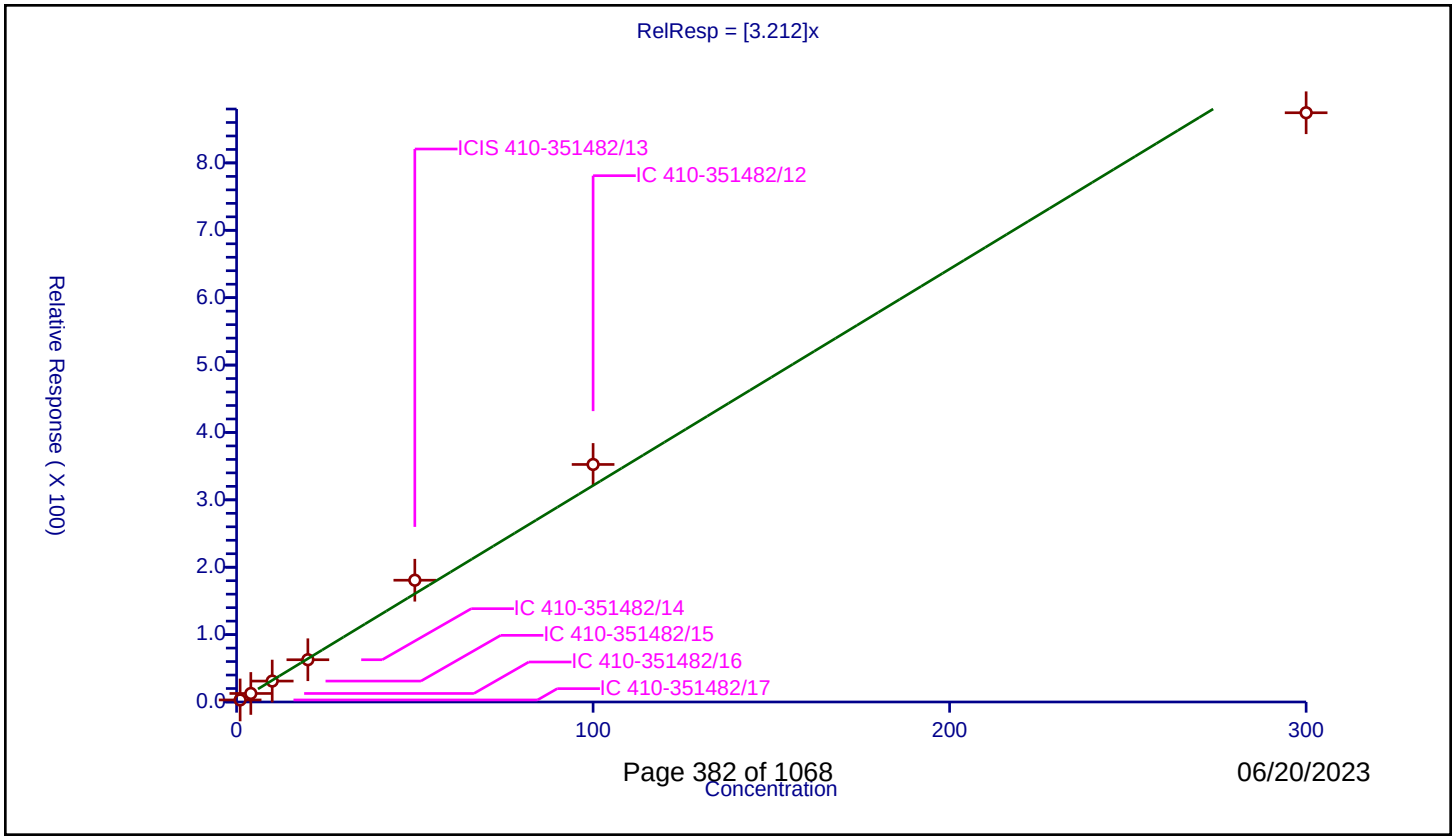
Curve Coefficients

Intercept:	0
Slope:	3.212

Error Coefficients

Standard Error:	3860000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-351482/17	1.0	3.036354	50.0	425181.0	3.036354	Y
2	IC 410-351482/16	4.0	12.632668	50.0	427570.0	3.158167	Y
3	IC 410-351482/15	10.0	31.032183	50.0	434826.0	3.103218	Y
4	IC 410-351482/14	20.0	62.71152	50.0	455630.0	3.135576	Y
5	ICIS 410-351482/13	50.0	180.702023	50.0	437621.0	3.61404	Y
6	IC 410-351482/12	100.0	352.501631	50.0	455363.0	3.525016	Y
7	IC 410-351482/11	300.0	874.477995	50.0	499804.0	2.914927	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: ICV 410-351482/19 Calibration Date: 03/08/2023 22:07

Instrument ID: 9137 Calib Start Date: 03/08/2023 19:28

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2023 21:27

Lab File ID: WM08X19.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	0.5871	0.4560	0.1000	15.5	20.0	-22.3	30.0
Chloromethane	Ave	0.6873	0.5534	0.1000	16.1	20.0	-19.5	30.0
1,3-Butadiene	Ave	0.6378	0.5213		16.3	20.0	-18.3	30.0
Vinyl chloride	Ave	0.6707	0.5290	0.1000	15.8	20.0	-21.1	30.0
Bromomethane	Ave	0.3871	0.3311	0.1000	17.1	20.0	-14.5	30.0
Chloroethane	Ave	0.3456	0.3043	0.1000	17.6	20.0	-12.0	30.0
Dichlorofluoromethane	Ave	0.8030	0.7523		18.7	20.0	-6.3	30.0
Trichlorofluoromethane	Ave	0.7093	0.5699	0.1000	16.1	20.0	-19.6	30.0
n-Pentane	Ave	0.6902	0.6291		18.2	20.0	-8.8	30.0
Freon 123a	Ave	0.4678	0.4538		19.4	20.0	-3.0	30.0
Ethanol	Ave	0.0813	0.0701		862	1000	-13.8	30.0
Acrolein	Ave	1.707	1.757		154	150	2.9	30.0
1,1-Dichloroethene	Ave	0.3444	0.3288	0.1000	19.1	20.0	-4.5	30.0
Freon 113	Ave	0.4243	0.4014	0.1000	18.9	20.0	-5.4	30.0
Acetone	Ave	0.8008	0.8248	0.1000	257	250	3.0	30.0
2-Propanol	Ave	0.7641	0.6347		125	150	-16.9	30.0
Methyl iodide	Ave	0.6014	0.5546		18.4	20.0	-7.8	30.0
Carbon disulfide	Ave	1.163	1.021	0.1000	17.6	20.0	-12.2	30.0
Allyl chloride	Ave	0.5880	0.5661		19.3	20.0	-3.7	30.0
Methyl acetate	Ave	0.4638	0.5776	0.1000	24.9	20.0	24.5	30.0
Methylene Chloride	Ave	0.4027	0.3664	0.1000	18.2	20.0	-9.0	30.0
t-Butyl alcohol	Ave	1.384	1.319		191	200	-4.7	30.0
Acrylonitrile	Ave	0.2396	0.2334		97.4	100	-2.6	30.0
trans-1,2-Dichloroethene	Ave	0.3421	0.3185	0.1000	18.6	20.0	-6.9	30.0
Methyl tertiary butyl ether	Ave	1.152	1.102	0.1000	19.1	20.0	-4.3	30.0
n-Hexane	Ave	0.5645	0.5339		18.9	20.0	-5.4	30.0
1,1-Dichloroethane	Ave	0.6106	0.5918	0.2000	19.4	20.0	-3.1	30.0
Isopropyl ether	Ave	1.173	1.142		19.5	20.0	-2.7	30.0
2-Chloro-1,3-butadiene	Ave	0.5802	0.5628		19.4	20.0	-3.0	30.0
Ethyl t-butyl ether	Ave	1.141	1.144		20.1	20.0	0.3	30.0
2-Butanone	Ave	0.3005	0.3025	0.1000	252	250	0.7	30.0
cis-1,2-Dichloroethene	Ave	0.3715	0.3719	0.1000	20.0	20.0	0.1	30.0
2,2-Dichloropropane	Ave	0.5992	0.5996		20.0	20.0	0.0	30.0
Propionitrile	Ave	1.302	1.331		153	150	2.2	30.0
Methacrylonitrile	Ave	0.2165	0.2213		153	150	2.2	30.0
Bromochloromethane	Ave	0.1743	0.1726		19.8	20.0	-1.0	30.0
Tetrahydrofuran	Ave	1.116	1.125		101	100	0.8	30.0
Chloroform	Ave	0.5629	0.5555	0.2000	19.7	20.0	-1.3	30.0
1,1,1-Trichloroethane	Ave	0.5692	0.5730	0.1000	20.1	20.0	0.7	30.0
Cyclohexane	Ave	0.8051	0.7781	0.1000	19.3	20.0	-3.4	30.0
1,1-Dichloropropene	Ave	0.4833	0.4778		19.8	20.0	-1.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: ICV 410-351482/19 Calibration Date: 03/08/2023 22:07

Instrument ID: 9137 Calib Start Date: 03/08/2023 19:28

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2023 21:27

Lab File ID: WM08X19.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
Carbon tetrachloride	Ave	0.4596	0.4538	0.1000	19.7	20.0	-1.3	30.0
Isobutyl alcohol	Ave	0.3787	0.3414		451	500	-9.8	30.0
Benzene	Ave	1.374	1.378	0.5000	20.1	20.0	0.3	30.0
1,2-Dichloroethane	Ave	0.4490	0.4309	0.1000	19.2	20.0	-4.0	30.0
t-Amyl methyl ether	Ave	1.083	1.090		20.1	20.0	0.6	30.0
n-Heptane	Ave	0.5447	0.5155		18.9	20.0	-5.3	30.0
n-Butanol	Lin2		0.2739		930	1000	-7.0	30.0
Trichloroethene	Ave	0.3449	0.3326	0.2000	19.3	20.0	-3.6	30.0
Methylcyclohexane	Ave	0.7496	0.7364	0.1000	19.6	20.0	-1.8	30.0
1,2-Dichloropropane	Ave	0.3589	0.3526	0.1000	19.6	20.0	-1.8	30.0
t-Amyl ethyl ether	Ave	0.5007	0.4950		19.8	20.0	-1.1	30.0
Dibromomethane	Ave	0.2121	0.2057		19.4	20.0	-3.1	30.0
Methyl methacrylate	Ave	0.3173	0.2997		18.9	20.0	-5.6	30.0
1,4-Dioxane	Ave	0.0791	0.0555	0.0050	351	500	-29.9	30.0
Bromodichloromethane	Ave	0.3940	0.3859	0.2000	19.6	20.0	-2.1	30.0
2-Nitropropane	Ave	1.868	1.892		20.3	20.0	1.3	30.0
2-Chloroethyl vinyl ether	Ave	0.2430	0.2333		19.2	20.0	-4.0	30.0
cis-1,3-Dichloropropene	Ave	0.5090	0.4870	0.2000	19.1	20.0	-4.3	30.0
4-Methyl-2-pentanone	Ave	0.6259	0.6420	0.1000	256	250	2.6	30.0
Toluene	Ave	1.148	1.148	0.4000	20.0	20.0	-0.0	30.0
trans-1,3-Dichloropropene	Ave	0.6322	0.6015	0.1000	19.0	20.0	-4.9	30.0
Ethyl methacrylate	Ave	0.7290	0.7338		20.1	20.0	0.7	30.0
1,1,2-Trichloroethane	Ave	0.4002	0.3962	0.1000	19.8	20.0	-1.0	30.0
Tetrachloroethene	Ave	0.4789	0.4711	0.2000	19.7	20.0	-1.6	30.0
1,3-Dichloropropane	Ave	0.6691	0.6761		20.2	20.0	1.0	30.0
2-Hexanone	Ave	0.5592	0.5835	0.1000	261	250	4.3	30.0
Dibromochloromethane	Ave	0.3710	0.3577		19.3	20.0	-3.6	30.0
1,2-Dibromoethane	Ave	0.4017	0.4097	0.1000	20.4	20.0	2.0	30.0
1-Chlorohexane	Ave	0.6573	0.6262		19.1	20.0	-4.7	30.0
Chlorobenzene	Ave	1.162	1.150	0.5000	19.8	20.0	-1.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4417	0.4481		20.3	20.0	1.5	30.0
Ethylbenzene	Ave	2.223	2.279	0.1000	20.5	20.0	2.5	30.0
m&p-Xylene	Ave	0.8373	0.8701	0.1000	41.6	40.0	3.9	30.0
o-Xylene	Ave	0.8877	0.9043	0.3000	20.4	20.0	1.9	30.0
Styrene	Ave	1.308	1.359	0.3000	20.8	20.0	3.8	30.0
Bromoform	Lin1		0.2423	0.1000	16.5	20.0	-17.6	30.0
Isopropylbenzene	Ave	2.396	2.554	0.1000	21.3	20.0	6.6	30.0
Cyclohexanone	Ave	0.3298	0.2729		414	500	-17.2	30.0
1,1,2,2-Tetrachloroethane	Ave	1.404	1.403	0.3000	20.0	20.0	-0.1	30.0
Bromobenzene	Ave	0.8913	0.8842		19.8	20.0	-0.8	30.0
1,2,3-Trichloropropane	Ave	0.3934	0.4112		20.9	20.0	4.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: ICV 410-351482/19 Calibration Date: 03/08/2023 22:07

Instrument ID: 9137 Calib Start Date: 03/08/2023 19:28

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2023 21:27

Lab File ID: WM08X19.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
trans-1,4-Dichloro-2-butene	Ave	0.3739	0.3829		102	100	2.4	30.0
N-Propylbenzene	Ave	4.860	5.040		20.7	20.0	3.7	30.0
2-Chlorotoluene	Ave	0.9592	0.9869		20.6	20.0	2.9	30.0
1,3,5-Trimethylbenzene	Ave	3.613	3.719		20.6	20.0	3.0	30.0
4-Chlorotoluene	Ave	0.8983	0.9151		20.4	20.0	1.9	30.0
tert-Butylbenzene	Ave	0.7008	0.6939		19.8	20.0	-1.0	30.0
1,2,4-Trimethylbenzene	Ave	3.702	3.789		20.5	20.0	2.3	30.0
sec-Butylbenzene	Ave	4.525	4.678		20.7	20.0	3.4	30.0
1,3-Dichlorobenzene	Ave	1.754	1.674	0.6000	19.1	20.0	-4.6	30.0
p-Isopropyltoluene	Ave	3.854	4.045		21.0	20.0	4.9	30.0
1,4-Dichlorobenzene	Ave	1.701	1.719	0.5000	20.2	20.0	1.0	30.0
1,2,3-Trimethylbenzene	Ave	3.886	3.882		20.0	20.0	-0.1	30.0
Benzyl chloride	Ave	2.575	2.515		19.5	20.0	-2.4	30.0
1,3-Diethylbenzene	Ave	2.349	2.327		19.8	20.0	-0.9	30.0
1,4-Diethylbenzene	Ave	2.363	2.401		20.3	20.0	1.6	30.0
n-Butylbenzene	Ave	1.905	1.913		20.1	20.0	0.4	30.0
1,2-Dichlorobenzene	Ave	1.839	1.821	0.4000	19.8	20.0	-1.0	30.0
1,2-Diethylbenzene	Ave	1.915	1.886		19.7	20.0	-1.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3639	0.3582	0.0500	19.7	20.0	-1.6	30.0
1,3,5-Trichlorobenzene	Ave	1.404	1.392		19.8	20.0	-0.9	30.0
1,2,4-Trichlorobenzene	Ave	1.348	1.372	0.2000	20.4	20.0	1.8	30.0
Hexachlorobutadiene	Ave	0.4850	0.4718		19.5	20.0	-2.7	30.0
Naphthalene	Ave	5.152	5.378		20.9	20.0	4.4	30.0
1,2,3-Trichlorobenzene	Ave	1.418	1.452		20.5	20.0	2.5	30.0
2-Methylnaphthalene	Ave	3.212	3.140		19.5	20.0	-2.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2453	0.2446		49.8	50.0	-0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0615	0.0638		51.9	50.0	3.9	30.0
Toluene-d8 (Surr)	Ave	1.352	1.358		50.2	50.0	0.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4991	0.5002		50.1	50.0	0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X19.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Mar-2023 22:07:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0078550-019
Misc. Info.: ICV
Operator ID: kas02648 Instrument ID: 9137
Sublist:

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:14:36 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: DVW2 Date: 14-Mar-2023 12:35:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.309	1.309	0.000	99	200365	20.0	15.5	
6 Chloromethane	50	1.441	1.450	-0.009	100	243181	20.0	16.1	
7 Butadiene	39	1.511	1.518	-0.007	94	229057	20.0	16.3	
8 Vinyl chloride	62	1.518	1.521	-0.003	89	232470	20.0	15.8	
10 Bromomethane	94	1.736	1.739	-0.003	90	145507	20.0	17.1	
11 Chloroethane	64	1.781	1.787	-0.006	99	133704	20.0	17.6	
12 Dichlorofluoromethane	67	1.928	1.932	-0.004	98	330560	20.0	18.7	
13 Trichlorofluoromethane	101	1.993	1.986	0.007	65	250433	20.0	16.1	
14 Pentane	43	1.996	1.996	0.000	97	276449	20.0	18.2	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.179	2.185	-0.006	94	199432	20.0	19.4	
17 Ethanol	45	2.237	2.220	0.016	30	120045	1000.0	861.7	
18 Acrolein	56	2.253	2.249	0.004	99	451374	150.0	154.3	
19 1,1-Dichloroethene	96	2.342	2.345	-0.003	99	144498	20.0	19.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.368	2.374	-0.006	85	176394	20.0	18.9	
21 Acetone	58	2.374	2.384	-0.010	100	353157	250.0	257.5	
24 Isopropyl alcohol	45	2.468	2.464	0.004	27	163052	150.0	124.6	Ma
22 Iodomethane	142	2.484	2.483	0.001	96	243703	20.0	18.4	
23 Carbon disulfide	76	2.548	2.548	0.000	99	448792	20.0	17.6	
26 3-Chloro-1-propene	41	2.641	2.647	-0.006	93	248737	20.0	19.3	
27 Methyl acetate	43	2.657	2.660	-0.003	82	253809	20.0	24.9	
29 Methylene Chloride	84	2.753	2.756	-0.003	95	161007	20.0	18.2	
* 30 t-Butyl alcohol-d10 (IS)	65	2.856	2.791	0.065	38	428190	250.0	250.0	
31 2-Methyl-2-propanol	59	2.910	2.891	0.019	96	451772	200.0	190.5	
32 Acrylonitrile	53	2.965	2.974	-0.009	100	512710	100.0	97.4	
33 trans-1,2-Dichloroethene	96	3.000	3.003	-0.003	98	139937	20.0	18.6	
34 Methyl tert-butyl ether	73	3.003	3.006	-0.003	93	484241	20.0	19.1	
35 Hexane	57	3.254	3.260	-0.006	94	234594	20.0	18.9	
36 1,1-Dichloroethane	63	3.385	3.385	0.000	97	260030	20.0	19.4	
38 Isopropyl ether	45	3.456	3.453	0.003	95	501607	20.0	19.5	
39 2-Chloro-1,3-butadiene	53	3.472	3.475	-0.003	91	247307	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	3.790	3.806	-0.016	99	502893	20.0	20.1	
41 2-Butanone (MEK)	43	3.918	3.921	-0.003	100	1661756	250.0	251.7	
42 cis-1,2-Dichloroethene	96	3.934	3.937	-0.003	81	163421	20.0	20.0	
43 2,2-Dichloropropane	77	3.944	3.956	-0.012	76	263480	20.0	20.0	
45 Propionitrile	54	4.005	3.998	0.007	69	341875	150.0	153.3	
47 Methacrylonitrile	67	4.149	4.155	-0.006	91	729317	150.0	153.3	
48 Chlorobromomethane	128	4.162	4.165	-0.003	77	75835	20.0	19.8	
49 Tetrahydrofuran	71	4.197	4.216	-0.019	85	192689	100.0	100.8	
50 Chloroform	83	4.242	4.239	0.003	94	244121	20.0	19.7	
$ 52 Dibromofluoromethane (Surr)	113	4.399	4.399	0.000	93	268678	50.0	49.8	
53 1,1,1-Trichloroethane	97	4.441	4.438	0.003	98	251790	20.0	20.1	
54 Cyclohexane	56	4.499	4.495	0.004	93	341918	20.0	19.3	
55 1,1-Dichloropropene	75	4.589	4.592	-0.003	97	209961	20.0	19.8	
56 Carbon tetrachloride	117	4.598	4.595	0.003	98	199408	20.0	19.7	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	96	70140	50.0	51.9	
58 Isobutyl alcohol	41	4.701	4.733	-0.032	94	292392	500.0	450.8	
59 Benzene	78	4.794	4.800	-0.006	96	605663	20.0	20.1	
60 1,2-Dichloroethane	62	4.810	4.807	0.003	93	189326	20.0	19.2	
62 Tert-amyl methyl ether	73	4.919	4.913	0.006	98	478766	20.0	20.1	
* 63 Fluorobenzene (IS)	96	5.073	5.073	0.000	97	1098558	50.0	50.0	
64 n-Heptane	43	5.086	5.083	0.003	50	226532	20.0	18.9	
65 n-Butanol	56	5.375	5.378	-0.003	90	469187	1000.0	930.1	
66 Trichloroethene	95	5.445	5.452	-0.007	99	146134	20.0	19.3	
68 Methylcyclohexane	83	5.657	5.660	-0.003	93	323612	20.0	19.6	
69 1,2-Dichloropropane	63	5.673	5.676	-0.003	95	154925	20.0	19.6	
70 2-ethoxy-2-methyl butane	87	5.728	5.724	0.004	93	217496	20.0	19.8	
71 Dibromomethane	93	5.795	5.795	0.000	97	90373	20.0	19.4	
72 1,4-Dioxane	88	5.814	5.805	0.009	33	47513	500.0	350.5	
73 Methyl methacrylate	69	5.808	5.808	0.000	92	131701	20.0	18.9	
75 Dichlorobromomethane	83	5.959	5.965	-0.006	100	169559	20.0	19.6	
77 2-Nitropropane	41	6.206	6.203	0.003	98	64805	20.0	20.3	
78 2-Chloroethyl vinyl ether	63	6.289	6.296	-0.007	92	102496	20.0	19.2	
80 cis-1,3-Dichloropropene	75	6.443	6.443	0.000	95	213988	20.0	19.1	
81 4-Methyl-2-pentanone (MIBK)	43	6.620	6.623	-0.003	97	3526257	250.0	256.4	
$ 82 Toluene-d8 (Surr)	98	6.735	6.732	0.003	94	1081067	50.0	50.2	
83 Toluene	92	6.806	6.809	-0.003	98	365396	20.0	20.0	
84 trans-1,3-Dichloropropene	75	7.047	7.050	-0.003	94	191509	20.0	19.0	
86 Ethyl methacrylate	69	7.169	7.175	-0.006	90	233647	20.0	20.1	
87 1,1,2-Trichloroethane	97	7.246	7.242	0.004	90	126131	20.0	19.8	
89 Tetrachloroethene	166	7.393	7.396	-0.003	98	149983	20.0	19.7	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	92	215266	20.0	20.2	
93 2-Hexanone	43	7.515	7.515	0.000	97	2322296	250.0	260.9	
94 Chlorodibromomethane	129	7.640	7.643	-0.003	92	113899	20.0	19.3	
96 Ethylene Dibromide	107	7.746	7.746	0.000	100	130437	20.0	20.4	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	85	795979	50.0	50.0	
98 1-Chlorohexane	91	8.211	8.211	0.000	95	199365	20.0	19.1	
99 Chlorobenzene	112	8.215	8.215	0.000	95	366030	20.0	19.8	
100 1,1,1,2-Tetrachloroethane	131	8.295	8.295	0.000	96	142683	20.0	20.3	
101 Ethylbenzene	91	8.324	8.320	0.004	98	725743	20.0	20.5	
102 m-Xylene & p-Xylene	106	8.426	8.426	0.000	97	554092	40.0	41.6	
104 o-Xylene	106	8.763	8.763	0.000	97	287921	20.0	20.4	
105 Styrene	104	8.776	8.776	0.000	95	432623	20.0	20.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 Bromoform	173	8.921	8.917	0.004	97	77162	20.0	16.5	
107 Isopropylbenzene	105	9.071	9.071	0.000	96	813223	20.0	21.3	
109 Cyclohexanone	55	9.139	9.136	0.003	95	233732	500.0	413.8	
$ 110 4-Bromofluorobenzene (Surr)	95	9.184	9.187	-0.003	89	398175	50.0	50.1	
111 Bromobenzene	156	9.303	9.302	0.001	93	156309	20.0	19.8	
112 1,1,2,2-Tetrachloroethane	83	9.303	9.306	-0.003	93	247964	20.0	20.0	
113 1,2,3-Trichloropropane	110	9.335	9.334	0.001	87	72688	20.0	20.9	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	95	338392	100.0	102.4	
115 N-Propylbenzene	91	9.396	9.395	0.001	99	890865	20.0	20.7	
116 2-Chlorotoluene	126	9.457	9.456	0.001	96	174452	20.0	20.6	
117 1,3,5-Trimethylbenzene	105	9.530	9.533	-0.003	95	657496	20.0	20.6	
118 4-Chlorotoluene	126	9.540	9.540	0.000	99	161763	20.0	20.4	
120 tert-Butylbenzene	134	9.777	9.777	0.000	94	122661	20.0	19.8	
122 1,2,4-Trimethylbenzene	105	9.813	9.809	0.004	98	669732	20.0	20.5	
123 sec-Butylbenzene	105	9.938	9.938	0.000	94	826995	20.0	20.7	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	98	295970	20.0	19.1	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	715030	20.0	21.0	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.060	0.000	96	441930	50.0	50.0	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	94	303807	20.0	20.2	
166 1,2,3-Trimethylbenzene	105	10.118	10.117	0.001	99	686253	20.0	20.0	
167 Benzyl chloride	91	10.175	10.175	0.000	99	444531	20.0	19.5	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	411387	20.0	19.8	
169 p-Diethylbenzene	119	10.317	10.316	0.001	95	424382	20.0	20.3	
170 n-Butylbenzene	92	10.336	10.336	0.000	97	338078	20.0	20.1	
171 1,2-Dichlorobenzene	146	10.342	10.342	0.000	97	321920	20.0	19.8	
172 o-diethylbenzene	119	10.400	10.400	0.000	95	333341	20.0	19.7	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	83	63318	20.0	19.7	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	246032	20.0	19.8	
176 1,2,4-Trichlorobenzene	180	11.433	11.433	0.000	94	242497	20.0	20.4	
178 Hexachlorobutadiene	225	11.546	11.545	0.001	97	83402	20.0	19.5	
179 Naphthalene	128	11.597	11.597	0.000	97	950697	20.0	20.9	
180 1,2,3-Trichlorobenzene	180	11.751	11.751	0.000	96	256760	20.0	20.5	
181 2-Methylnaphthalene	142	12.316	12.316	0.000	92	555025	20.0	19.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00099	Amount Added:	50.00	Units: uL	
MSV_LCS_2CEVE_00104	Amount Added:	50.00	Units: uL	
MSV_LCS_CYC_00003	Amount Added:	50.00	Units: uL	
MSV_LCS_ACROL_00101	Amount Added:	50.00	Units: uL	
MSV_LCS_ETOH_00003	Amount Added:	50.00	Units: uL	
MSV_LCS_Gases_00132	Amount Added:	50.00	Units: uL	
MSV_Cent_ISSS_00016	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 14-Mar-2023 13:26:29 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X19.D

Injection Date: 08-Mar-2023 22:07:30 Instrument ID: 9137 Operator ID: kas02648

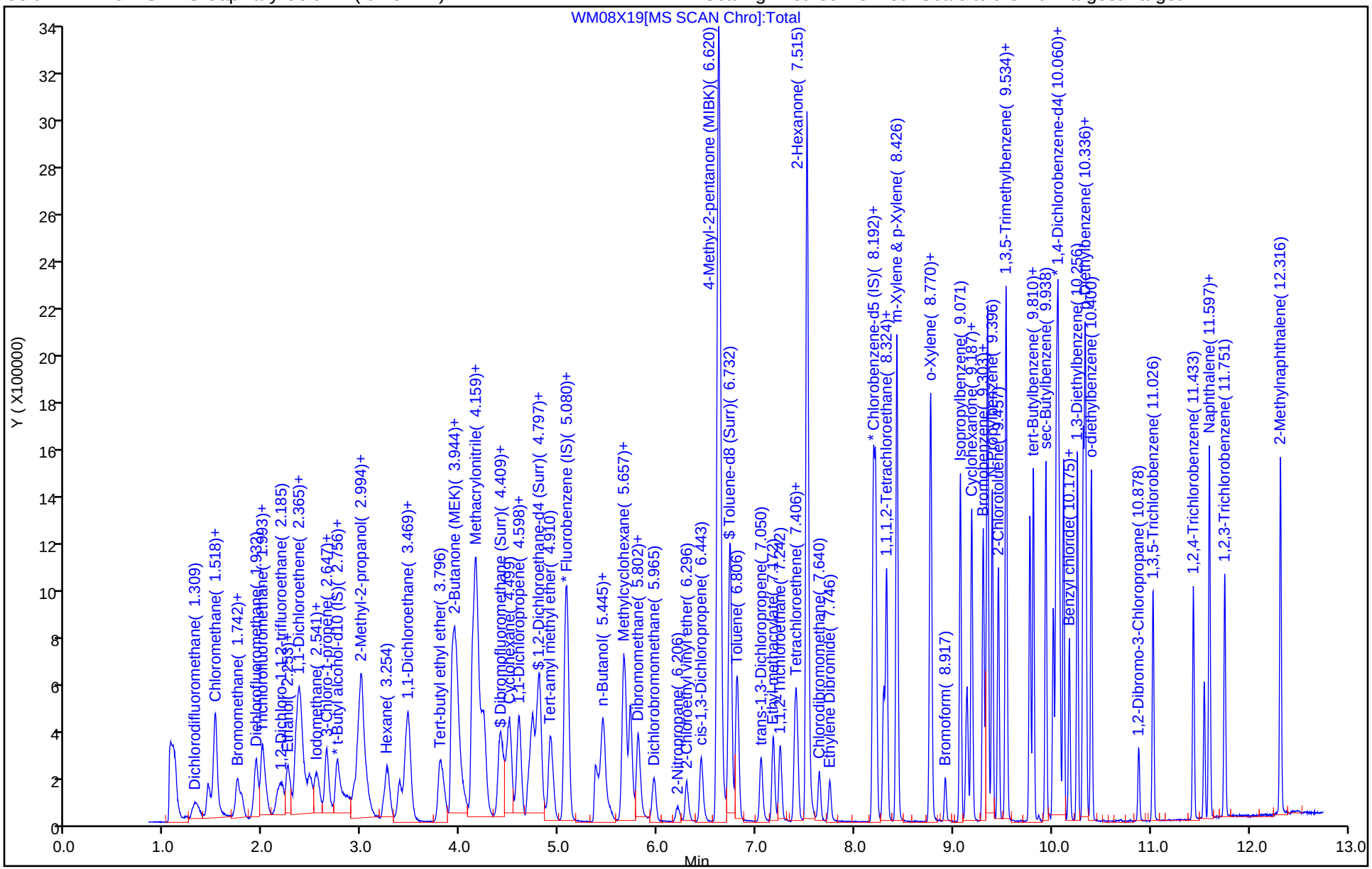
Lims ID: ICV Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

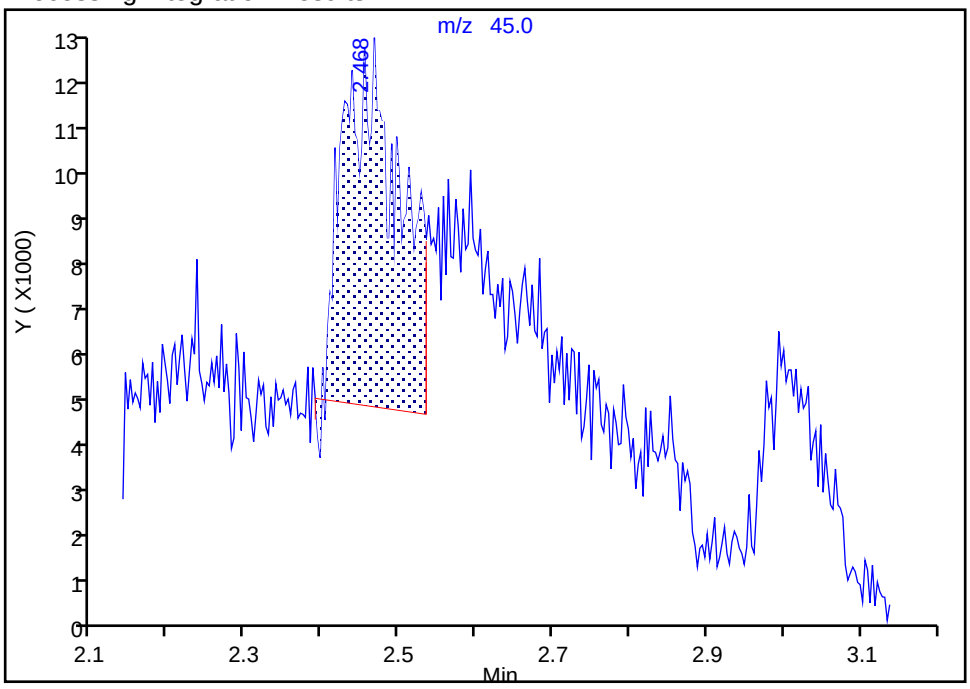
Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X19.D
Injection Date: 08-Mar-2023 22:07:30 Instrument ID: 9137
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

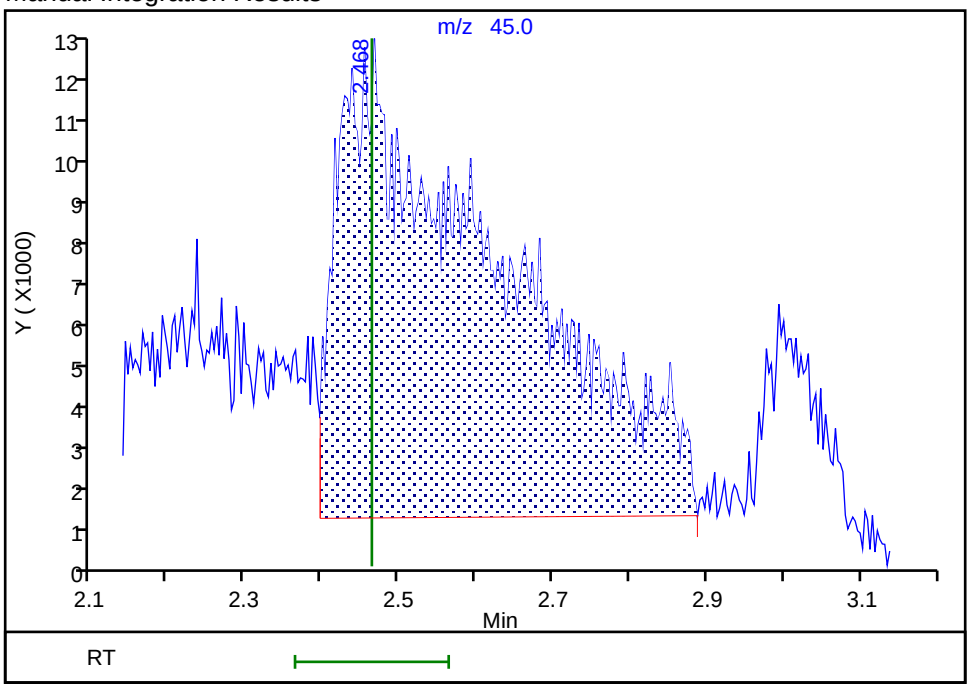
Processing Integration Results

RT: 2.47
Area: 39298
Amount: 30.029718
Amount Units: ug/l



Manual Integration Results

RT: 2.47
Area: 163052
Amount: 124.5968
Amount Units: ug/l



Reviewer: DVW2, 14-Mar-2023 12:34:20
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: CCVIS 410-387447/3 Calibration Date: 06/16/2023 09:36

Instrument ID: 9137 Calib Start Date: 03/08/2023 19:28

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2023 21:27

Lab File ID: WU16X02.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	0.5871	0.7723	0.1000	65.8	50.0	31.5*	20.0
Chloromethane	Ave	0.6873	0.9018	0.1000	65.6	50.0	31.2*	20.0
Vinyl chloride	Ave	0.6707	0.8389	0.1000	62.5	50.0	25.1*	20.0
1,3-Butadiene	Ave	0.6378	1.066		83.6	50.0	67.1*	20.0
Bromomethane	Ave	0.3871	0.4629	0.1000	59.8	50.0	19.6	20.0
Chloroethane	Ave	0.3456	0.4178	0.1000	60.4	50.0	20.9*	20.0
Dichlorofluoromethane	Ave	0.8030	1.083		67.5	50.0	34.9*	20.0
n-Pentane	Ave	0.6902	0.7872		57.0	50.0	14.1	20.0
Trichlorofluoromethane	Ave	0.7093	0.7692	0.1000	54.2	50.0	8.4	20.0
Freon 123a	Ave	0.4678	0.5440		58.1	50.0	16.3	20.0
Acrolein	Ave	1.707	2.193		642	500	28.4*	20.0
1,1-Dichloroethene	Ave	0.3444	0.3424	0.1000	49.7	50.0	-0.6	20.0
Acetone	Ave	0.8008	0.9905	0.1000	124	100	23.7*	20.0
Freon 113	Ave	0.4243	0.4373	0.1000	51.5	50.0	3.1	20.0
2-Propanol	Ave	0.7641	0.7611		249	250	-0.4	20.0
Methyl iodide	Ave	0.6014	0.6185		51.4	50.0	2.8	20.0
Carbon disulfide	Ave	1.163	1.120	0.1000	48.2	50.0	-3.7	20.0
Allyl chloride	Ave	0.5880	0.6171		52.5	50.0	4.9	20.0
Methyl acetate	Ave	0.4638	0.4502	0.1000	48.5	50.0	-2.9	20.0
Methylene Chloride	Ave	0.4027	0.3877	0.1000	48.1	50.0	-3.7	20.0
t-Butyl alcohol	Ave	1.384	1.328		240	250	-4.1	20.0
Acrylonitrile	Ave	0.2396	0.2378		124	125	-0.7	20.0
trans-1,2-Dichloroethene	Ave	0.3421	0.3154	0.1000	46.1	50.0	-7.8	20.0
Methyl tertiary butyl ether	Ave	1.152	1.204	0.1000	52.3	50.0	4.6	20.0
n-Hexane	Ave	0.5645	0.5787		51.3	50.0	2.5	20.0
1,1-Dichloroethane	Ave	0.6106	0.6084	0.2000	49.8	50.0	-0.4	20.0
Isopropyl ether	Ave	1.173	1.350		57.5	50.0	15.1	20.0
2-Chloro-1,3-butadiene	Ave	0.5802	0.5797		50.0	50.0	-0.0	20.0
Ethyl t-butyl ether	Ave	1.141	1.229		53.9	50.0	7.7	20.0
2-Butanone	Ave	0.3005	0.3066	0.1000	102	100	2.0	20.0
cis-1,2-Dichloroethene	Ave	0.3715	0.3465	0.1000	46.6	50.0	-6.7	20.0
2,2-Dichloropropane	Ave	0.5992	0.5512		46.0	50.0	-8.0	20.0
Propionitrile	Ave	1.302	1.521		292	250	16.8	20.0
Methacrylonitrile	Ave	0.2165	0.2093		121	125	-3.3	20.0
Bromochloromethane	Ave	0.1743	0.1695		48.6	50.0	-2.7	20.0
Tetrahydrofuran	Ave	1.116	1.154		258	250	3.4	20.0
Chloroform	Ave	0.5629	0.5525	0.2000	49.1	50.0	-1.8	20.0
1,1,1-Trichloroethane	Ave	0.5692	0.5584	0.1000	49.1	50.0	-1.9	20.0
Cyclohexane	Ave	0.8051	0.8653	0.1000	53.7	50.0	7.5	20.0
1,1-Dichloropropene	Ave	0.4833	0.4562		47.2	50.0	-5.6	20.0
Carbon tetrachloride	Ave	0.4596	0.4659	0.1000	50.7	50.0	1.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: CCVIS 410-387447/3 Calibration Date: 06/16/2023 09:36

Instrument ID: 9137 Calib Start Date: 03/08/2023 19:28

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2023 21:27

Lab File ID: WU16X02.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
Isobutyl alcohol	Ave	0.3787	0.3995		659	625	5.5	20.0
Benzene	Ave	1.374	1.331	0.5000	48.4	50.0	-3.1	20.0
1,2-Dichloroethane	Ave	0.4490	0.4527	0.1000	50.4	50.0	0.8	20.0
t-Amyl methyl ether	Ave	1.083	1.103		50.9	50.0	1.9	20.0
n-Heptane	Ave	0.5447	0.5938		54.5	50.0	9.0	20.0
n-Butanol	Lin2		0.2712		578	625	-7.5	20.0
Trichloroethene	Ave	0.3449	0.3097	0.2000	44.9	50.0	-10.2	20.0
Methylcyclohexane	Ave	0.7496	0.7433	0.1000	49.6	50.0	-0.8	20.0
1,2-Dichloropropane	Ave	0.3589	0.3519	0.1000	49.0	50.0	-2.0	20.0
t-Amyl ethyl ether	Ave	0.5007	0.4801		47.9	50.0	-4.1	20.0
Dibromomethane	Ave	0.2121	0.2023		47.7	50.0	-4.6	20.0
1,4-Dioxane	Ave	0.0791	0.0713	0.0050	563	625	-9.9	20.0
Methyl methacrylate	Ave	0.3173	0.2884		45.4	50.0	-9.1	20.0
Bromodichloromethane	Ave	0.3940	0.3944	0.2000	50.0	50.0	0.0	20.0
2-Nitropropane	Ave	1.868	2.052		275	250	9.9	20.0
2-Chloroethyl vinyl ether	Ave	0.2430	0.2251		46.3	50.0	-7.4	20.0
cis-1,3-Dichloropropene	Ave	0.5090	0.4725	0.2000	46.4	50.0	-7.2	20.0
4-Methyl-2-pentanone	Ave	0.6259	0.6938	0.1000	111	100	10.9	20.0
Toluene	Ave	1.148	1.107	0.4000	48.2	50.0	-3.6	20.0
trans-1,3-Dichloropropene	Ave	0.6322	0.6006	0.1000	47.5	50.0	-5.0	20.0
Ethyl methacrylate	Ave	0.7290	0.6792		46.6	50.0	-6.8	20.0
1,1,2-Trichloroethane	Ave	0.4002	0.3973	0.1000	49.6	50.0	-0.7	20.0
Tetrachloroethene	Ave	0.4789	0.4649	0.2000	48.5	50.0	-2.9	20.0
1,3-Dichloropropane	Ave	0.6691	0.6626		49.5	50.0	-1.0	20.0
2-Hexanone	Ave	0.5592	0.6573	0.1000	118	100	17.5	20.0
Dibromochloromethane	Ave	0.3710	0.4185		56.4	50.0	12.8	20.0
1,2-Dibromoethane	Ave	0.4017	0.3883	0.1000	48.3	50.0	-3.3	20.0
1-Chlorohexane	Ave	0.6573	0.5803		44.1	50.0	-11.7	20.0
Chlorobenzene	Ave	1.162	1.102	0.5000	47.4	50.0	-5.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4417	0.4611		52.2	50.0	4.4	20.0
Ethylbenzene	Ave	2.223	2.094	0.1000	47.1	50.0	-5.8	20.0
m&p-Xylene	Ave	0.8373	0.8028	0.1000	95.9	100	-4.1	20.0
o-Xylene	Ave	0.8877	0.8425	0.3000	47.5	50.0	-5.1	20.0
Styrene	Ave	1.308	1.216	0.3000	46.5	50.0	-7.1	20.0
Bromoform	Lin1		0.3006	0.1000	49.3	50.0	-1.5	20.0
Isopropylbenzene	Ave	2.396	2.353	0.1000	49.1	50.0	-1.8	20.0
Bromobenzene	Ave	0.8913	0.8490		47.6	50.0	-4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.404	1.391	0.3000	49.5	50.0	-1.0	20.0
1,2,3-Trichloropropane	Ave	0.3934	0.3694		47.0	50.0	-6.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3739	0.3805		127	125	1.8	20.0
N-Propylbenzene	Ave	4.860	4.801		49.4	50.0	-1.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: CCVIS 410-387447/3 Calibration Date: 06/16/2023 09:36

Instrument ID: 9137 Calib Start Date: 03/08/2023 19:28

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/08/2023 21:27

Lab File ID: WU16X02.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
2-Chlorotoluene	Ave	0.9592	0.9006		46.9	50.0	-6.1	20.0
1,3,5-Trimethylbenzene	Ave	3.613	3.713		51.4	50.0	2.8	20.0
4-Chlorotoluene	Ave	0.8983	0.8307		46.2	50.0	-7.5	20.0
tert-Butylbenzene	Ave	0.7008	0.7539		53.8	50.0	7.6	20.0
1,2,4-Trimethylbenzene	Ave	3.702	3.654		49.4	50.0	-1.3	20.0
sec-Butylbenzene	Ave	4.525	4.850		53.6	50.0	7.2	20.0
1,3-Dichlorobenzene	Ave	1.754	1.648	0.6000	47.0	50.0	-6.1	20.0
p-Isopropyltoluene	Ave	3.854	4.081		52.9	50.0	5.9	20.0
1,4-Dichlorobenzene	Ave	1.701	1.603	0.5000	47.1	50.0	-5.8	20.0
1,2,3-Trimethylbenzene	Ave	3.886	3.992		51.4	50.0	2.7	20.0
Benzyl chloride	Ave	2.575	2.253		43.7	50.0	-12.5	20.0
1,3-Diethylbenzene	Ave	2.349	2.332		49.6	50.0	-0.7	20.0
1,4-Diethylbenzene	Ave	2.363	2.352		49.8	50.0	-0.5	20.0
n-Butylbenzene	Ave	1.905	1.921		50.4	50.0	0.9	20.0
1,2-Dichlorobenzene	Ave	1.839	1.779	0.4000	48.4	50.0	-3.2	20.0
1,2-Diethylbenzene	Ave	1.915	2.037		53.2	50.0	6.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3639	0.3537	0.0500	48.6	50.0	-2.8	20.0
1,3,5-Trichlorobenzene	Ave	1.404	1.396		49.7	50.0	-0.5	20.0
1,2,4-Trichlorobenzene	Ave	1.348	1.349	0.2000	50.0	50.0	0.0	20.0
Hexachlorobutadiene	Ave	0.4850	0.5401		55.7	50.0	11.4	20.0
Naphthalene	Ave	5.152	5.175		50.2	50.0	0.5	20.0
1,2,3-Trichlorobenzene	Ave	1.418	1.492		52.6	50.0	5.3	20.0
2-Methylnaphthalene	Ave	3.212	3.325		51.7	50.0	3.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2453	0.2476		50.5	50.0	0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0615	0.0640		52.1	50.0	4.1	20.0
Toluene-d8 (Surr)	Ave	1.352	1.388		51.3	50.0	2.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4991	0.4689		47.0	50.0	-6.0	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X02.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Jun-2023 09:36:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-003
Misc. Info.: CCVIS
Operator ID: lcp00895 Instrument ID: 9137
Sublist: chrom-MSVoa_9137*sub31

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jun-2023 11:37:03 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: ULCP Date: 16-Jun-2023 10:21:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.319	1.319	0.000	99	851135	50.0	65.8	
6 Chloromethane	50	1.453	1.453	0.000	99	993959	50.0	65.6	
8 Vinyl chloride	62	1.530	1.530	0.000	75	924615	50.0	62.5	
7 Butadiene	39	1.534	1.534	0.000	96	1174748	50.0	83.6	M
10 Bromomethane	94	1.758	1.758	0.000	91	510163	50.0	59.8	
11 Chloroethane	64	1.797	1.797	0.000	99	460467	50.0	60.4	
12 Dichlorofluoromethane	67	1.948	1.948	0.000	98	1194032	50.0	67.5	
14 Pentane	43	1.999	1.999	0.000	98	867608	50.0	57.0	
13 Trichlorofluoromethane	101	2.021	2.021	0.000	93	847742	50.0	54.2	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.185	2.185	0.000	96	599596	50.0	58.1	
18 Acrolein	56	2.249	2.249	0.000	99	1634748	500.0	642.3	
19 1,1-Dichloroethene	96	2.352	2.352	0.000	96	377353	50.0	49.7	
21 Acetone	58	2.374	2.374	0.000	96	147654	100.0	123.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.390	2.390	0.000	94	481933	50.0	51.5	
22 Isopropyl alcohol	45	2.490	2.490	0.000	29	283633	250.0	249.0	M
23 Iodomethane	142	2.490	2.490	0.000	99	681686	50.0	51.4	
24 Carbon disulfide	76	2.573	2.573	0.000	100	1234683	50.0	48.2	M
26 3-Chloro-1-propene	41	2.641	2.641	0.000	90	680176	50.0	52.5	
27 Methyl acetate	43	2.660	2.660	0.000	99	496135	50.0	48.5	M
29 Methylene Chloride	84	2.756	2.756	0.000	97	427252	50.0	48.1	
* 30 t-Butyl alcohol-d10 (IS)	65	2.791	2.791	0.000	51	372682	250.0	250.0	
31 2-Methyl-2-propanol	59	2.888	2.888	0.000	36	494990	250.0	239.9	M
32 Acrylonitrile	53	2.965	2.965	0.000	100	655266	125.0	124.1	
33 trans-1,2-Dichloroethene	96	3.000	3.000	0.000	96	347614	50.0	46.1	
34 Methyl tert-butyl ether	73	3.006	3.006	0.000	91	1327153	50.0	52.3	
35 Hexane	57	3.257	3.257	0.000	95	637776	50.0	51.3	
36 1,1-Dichloroethane	63	3.382	3.382	0.000	96	670586	50.0	49.8	
38 Isopropyl ether	45	3.459	3.459	0.000	94	1487659	50.0	57.5	
39 2-Chloro-1,3-butadiene	53	3.469	3.469	0.000	93	638954	50.0	50.0	
40 Tert-butyl ethyl ether	59	3.799	3.799	0.000	97	1354854	50.0	53.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	3.921	3.921	0.000	97	675804	100.0	102.0	
41 cis-1,2-Dichloroethene	96	3.934	3.934	0.000	85	381882	50.0	46.6	
42 2,2-Dichloropropane	77	3.953	3.953	0.000	90	607537	50.0	46.0	
45 Propionitrile	54	4.001	4.001	0.000	98	566983	250.0	292.1	
47 Methacrylonitrile	67	4.142	4.142	0.000	94	576671	125.0	120.8	
48 Chlorobromomethane	128	4.162	4.162	0.000	96	186816	50.0	48.6	
49 Tetrahydrofuran	71	4.213	4.213	0.000	91	429950	250.0	258.5	
50 Chloroform	83	4.239	4.239	0.000	95	608918	50.0	49.1	
$ 52 Dibromofluoromethane (Surr)	113	4.399	4.399	0.000	94	272902	50.0	50.5	
53 1,1,1-Trichloroethane	97	4.438	4.438	0.000	97	615389	50.0	49.1	
54 Cyclohexane	56	4.502	4.502	0.000	94	953726	50.0	53.7	
55 1,1-Dichloropropene	75	4.588	4.588	0.000	93	502754	50.0	47.2	
56 Carbon tetrachloride	117	4.595	4.595	0.000	85	513431	50.0	50.7	
57 Isobutyl alcohol	41	4.717	4.717	0.000	92	372229	625.0	659.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	92	70536	50.0	52.1	
59 Benzene	78	4.794	4.794	0.000	97	1466848	50.0	48.4	
60 1,2-Dichloroethane	62	4.807	4.807	0.000	96	498986	50.0	50.4	
62 Tert-amyl methyl ether	73	4.919	4.919	0.000	97	1215853	50.0	50.9	
* 63 Fluorobenzene (IS)	96	5.076	5.076	0.000	96	1102138	50.0	50.0	
64 n-Heptane	43	5.083	5.083	0.000	97	654402	50.0	54.5	
65 n-Butanol	56	5.375	5.375	0.000	93	252702	625.0	577.9	
66 Trichloroethene	95	5.448	5.448	0.000	97	341351	50.0	44.9	
68 Methylcyclohexane	83	5.660	5.660	0.000	95	819234	50.0	49.6	
69 1,2-Dichloropropane	63	5.673	5.673	0.000	93	387805	50.0	49.0	
70 2-ethoxy-2-methyl butane	87	5.728	5.728	0.000	92	529086	50.0	47.9	
71 Dibromomethane	93	5.792	5.792	0.000	97	222972	50.0	47.7	
72 1,4-Dioxane	88	5.805	5.805	0.000	31	66409	625.0	562.9	
73 Methyl methacrylate	69	5.811	5.811	0.000	93	317866	50.0	45.4	
75 Dichlorobromomethane	83	5.962	5.962	0.000	99	434679	50.0	50.0	
77 2-Nitropropane	41	6.203	6.203	0.000	99	764589	250.0	274.6	
78 2-Chloroethyl vinyl ether	63	6.292	6.292	0.000	92	248045	50.0	46.3	
80 cis-1,3-Dichloropropene	75	6.446	6.446	0.000	93	520763	50.0	46.4	
81 4-Methyl-2-pentanone (MIBK)	43	6.620	6.620	0.000	99	1529379	100.0	110.9	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	94	1049024	50.0	51.3	
83 Toluene	92	6.806	6.806	0.000	98	836712	50.0	48.2	
84 trans-1,3-Dichloropropene	75	7.050	7.050	0.000	96	453947	50.0	47.5	
86 Ethyl methacrylate	69	7.172	7.172	0.000	92	513365	50.0	46.6	
87 1,1,2-Trichloroethane	97	7.242	7.242	0.000	92	300303	50.0	49.6	
89 Tetrachloroethene	166	7.396	7.396	0.000	96	351379	50.0	48.5	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	96	500847	50.0	49.5	
93 2-Hexanone	43	7.518	7.518	0.000	99	993722	100.0	117.5	
94 Chlorodibromomethane	129	7.643	7.643	0.000	90	316294	50.0	56.4	
96 Ethylene Dibromide	107	7.749	7.749	0.000	98	293496	50.0	48.3	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	755865	50.0	50.0	
98 1-Chlorohexane	91	8.211	8.211	0.000	87	438623	50.0	44.1	
99 Chlorobenzene	112	8.215	8.215	0.000	93	832698	50.0	47.4	
100 1,1,1,2-Tetrachloroethane	131	8.292	8.292	0.000	96	348541	50.0	52.2	
101 Ethylbenzene	91	8.320	8.320	0.000	99	1582997	50.0	47.1	
102 m-Xylene & p-Xylene	106	8.426	8.426	0.000	99	1213652	100.0	95.9	
104 o-Xylene	106	8.763	8.763	0.000	97	636802	50.0	47.5	
105 Styrene	104	8.776	8.776	0.000	96	918956	50.0	46.5	
106 Bromoform	173	8.917	8.917	0.000	96	227239	50.0	49.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 Isopropylbenzene	105	9.071	9.071	0.000	96	1778726	50.0	49.1	
$ 110 4-Bromofluorobenzene (Surr)	95	9.184	9.184	0.000	89	354409	50.0	47.0	
111 Bromobenzene	156	9.299	9.299	0.000	95	341498	50.0	47.6	
112 1,1,2,2-Tetrachloroethane	83	9.302	9.302	0.000	94	559377	50.0	49.5	
113 1,2,3-Trichloropropane	110	9.331	9.331	0.000	88	148595	50.0	47.0	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	95	382616	125.0	127.2	
115 N-Propylbenzene	91	9.395	9.395	0.000	99	1931053	50.0	49.4	
116 2-Chlorotoluene	126	9.456	9.456	0.000	96	362243	50.0	46.9	
117 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	95	1493394	50.0	51.4	
118 4-Chlorotoluene	126	9.540	9.540	0.000	99	334160	50.0	46.2	
120 tert-Butylbenzene	134	9.777	9.777	0.000	94	303250	50.0	53.8	
122 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	98	1469696	50.0	49.4	
123 sec-Butylbenzene	105	9.938	9.938	0.000	95	1950994	50.0	53.6	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	98	662894	50.0	47.0	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	1641690	50.0	52.9	
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	402244	50.0	50.0	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	95	644793	50.0	47.1	
166 1,2,3-Trimethylbenzene	105	10.117	10.117	0.000	99	1605784	50.0	51.4	
167 Benzyl chloride	91	10.175	10.175	0.000	99	906258	50.0	43.7	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	937870	50.0	49.6	
169 p-Diethylbenzene	119	10.320	10.320	0.000	95	945972	50.0	49.8	
170 n-Butylbenzene	92	10.336	10.336	0.000	98	772847	50.0	50.4	
171 1,2-Dichlorobenzene	146	10.345	10.345	0.000	97	715792	50.0	48.4	
172 o-diethylbenzene	119	10.400	10.400	0.000	96	819248	50.0	53.2	
173 1,2-Dibromo-3-Chloropropane	75	10.878	10.878	0.000	82	142269	50.0	48.6	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	561609	50.0	49.7	
176 1,2,4-Trichlorobenzene	180	11.436	11.436	0.000	94	542576	50.0	50.0	
177 Hexachlorobutadiene	225	11.545	11.545	0.000	97	217264	50.0	55.7	
179 Naphthalene	128	11.597	11.597	0.000	98	2081628	50.0	50.2	
180 1,2,3-Trichlorobenzene	180	11.754	11.754	0.000	96	600297	50.0	52.6	
181 2-Methylnaphthalene	142	12.319	12.319	0.000	92	1337424	50.0	51.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00129	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00129	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00124	Amount Added:	5.00	Units: uL	
MSV_CCV_GASES_00494	Amount Added:	2.50	Units: uL	
MSV_Cent_ISSS_00020	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Jun-2023 11:37:05 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X02.D

Injection Date: 16-Jun-2023 09:36:30 Instrument ID: 9137 Operator ID: lcp00895

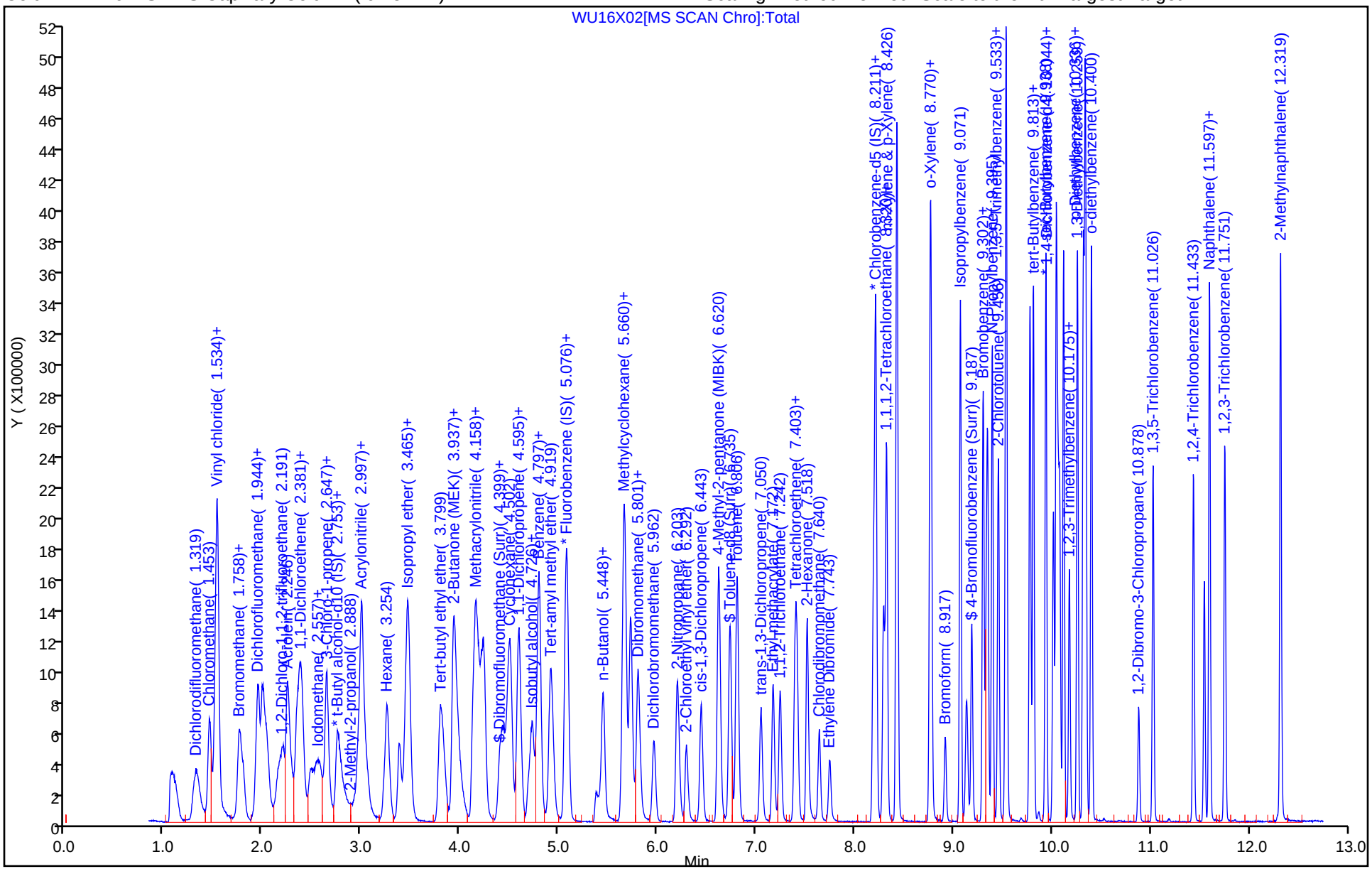
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_9137 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

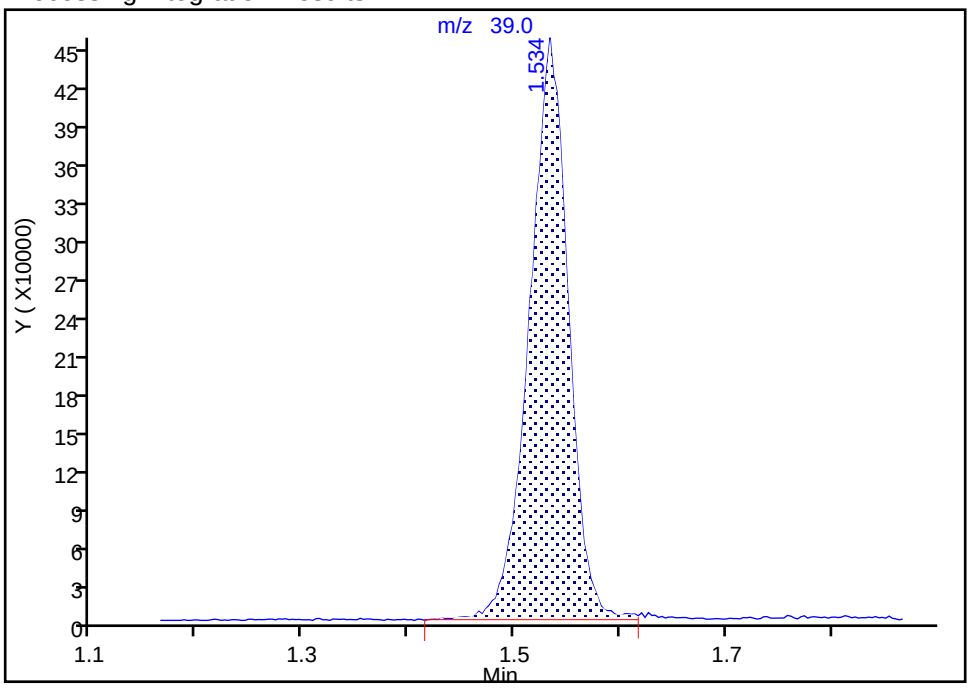
Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X02.D				
Injection Date:	16-Jun-2023 09:36:30	Instrument ID:	9137		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

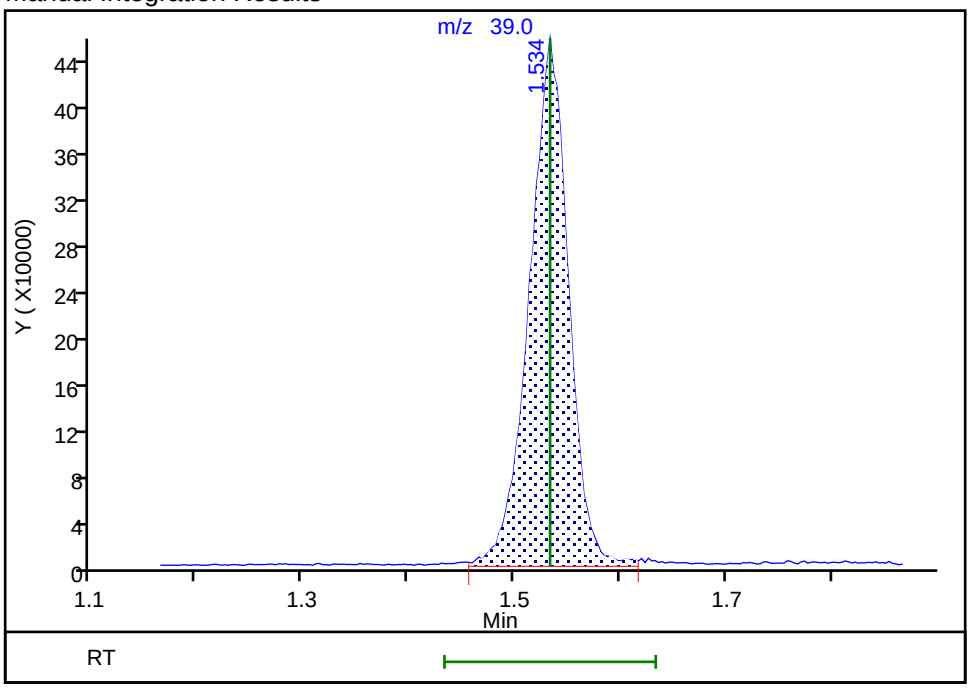
Processing Integration Results

RT: 1.53
Area: 1178299
Amount: 83.806467
Amount Units: ug/l



Manual Integration Results

RT: 1.53
Area: 1174748
Amount: 83.553902
Amount Units: ug/l



Reviewer: ULCP, 16-Jun-2023 10:18:21 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

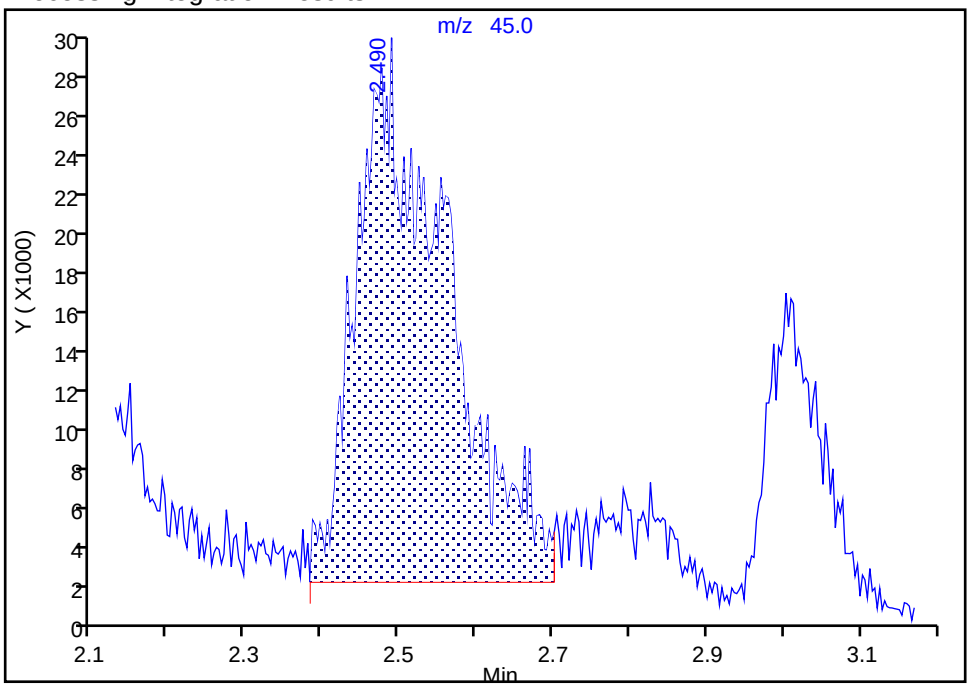
Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X02.D
Injection Date: 16-Jun-2023 09:36:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

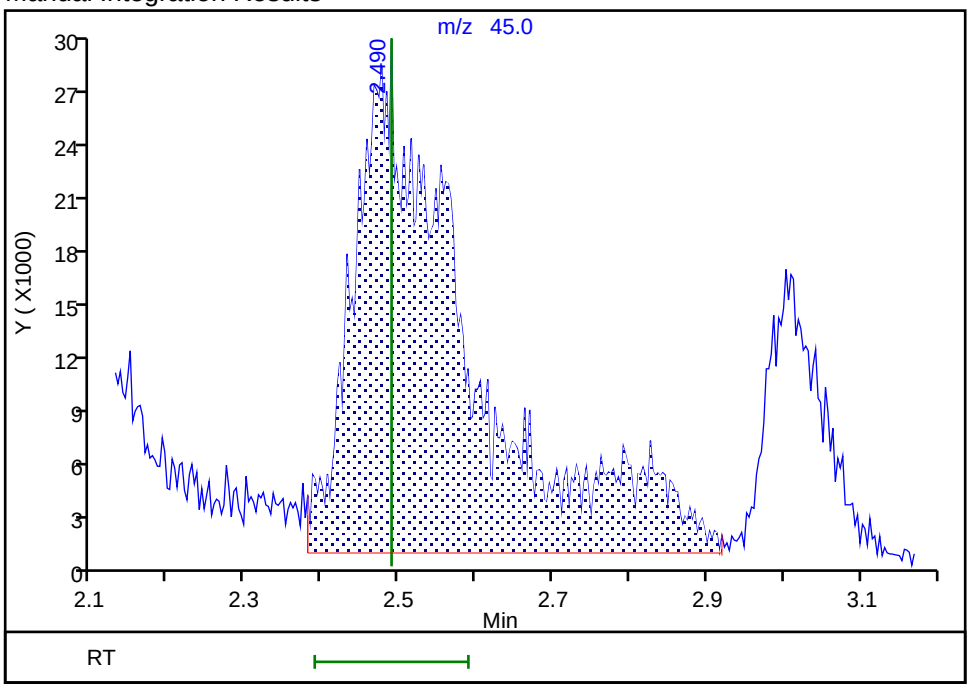
Processing Integration Results

RT: 2.49
Area: 217512
Amount: 190.9687
Amount Units: ug/l



Manual Integration Results

RT: 2.49
Area: 283633
Amount: 249.0208
Amount Units: ug/l



Reviewer: ULCP, 16-Jun-2023 10:19:15 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

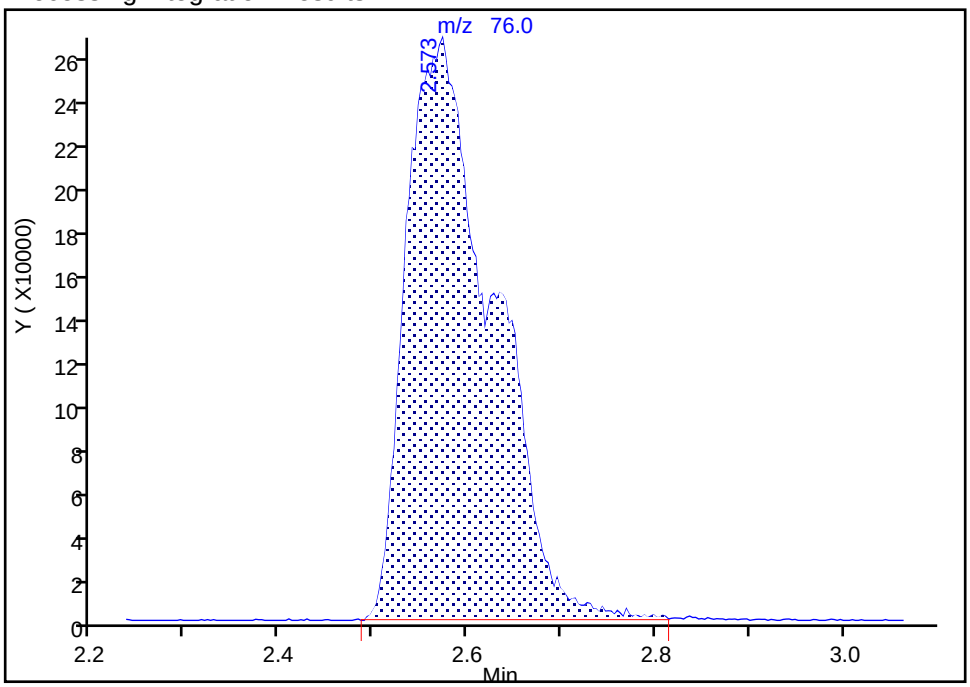
Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X02.D
Injection Date: 16-Jun-2023 09:36:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

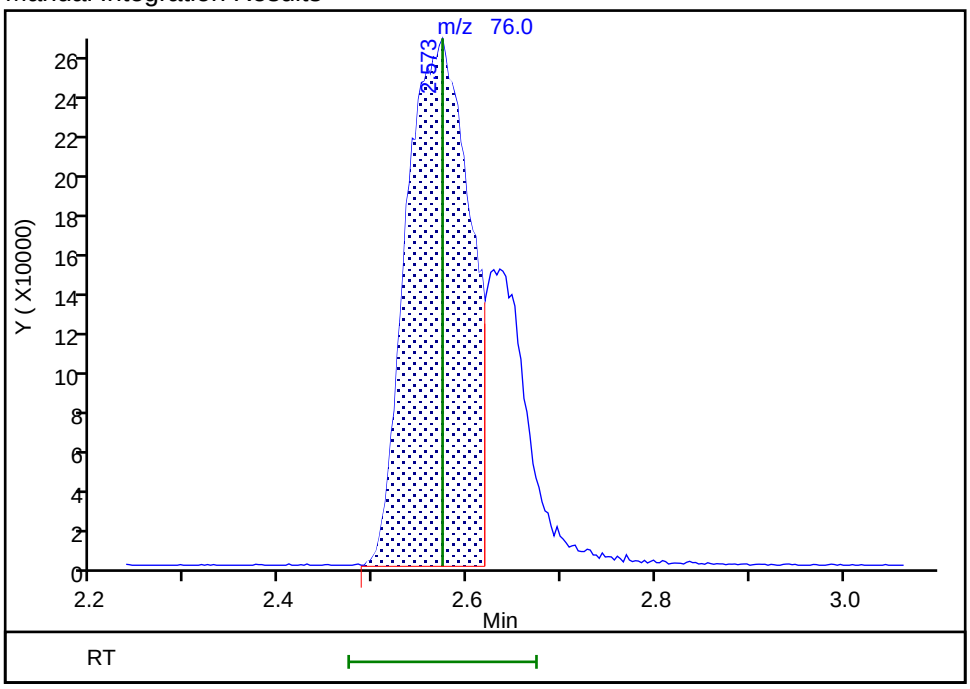
Processing Integration Results

RT: 2.57
Area: 1677736
Amount: 65.459131
Amount Units: ug/l



Manual Integration Results

RT: 2.57
Area: 1234683
Amount: 48.172821
Amount Units: ug/l



Reviewer: ULCP, 16-Jun-2023 10:19:26 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

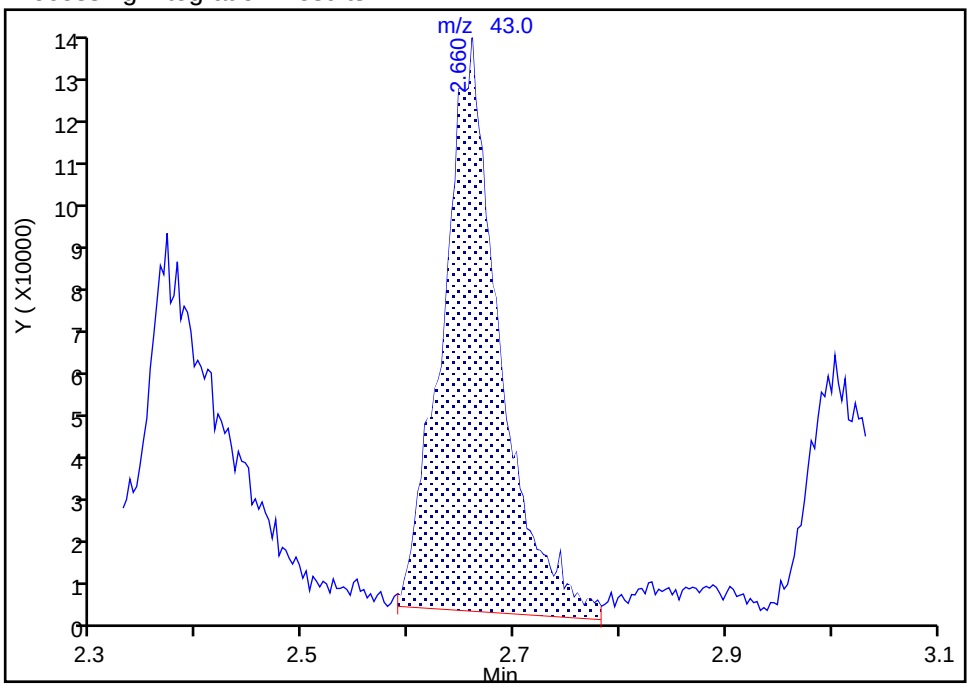
Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X02.D
Injection Date: 16-Jun-2023 09:36:30 Instrument ID: 9137
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

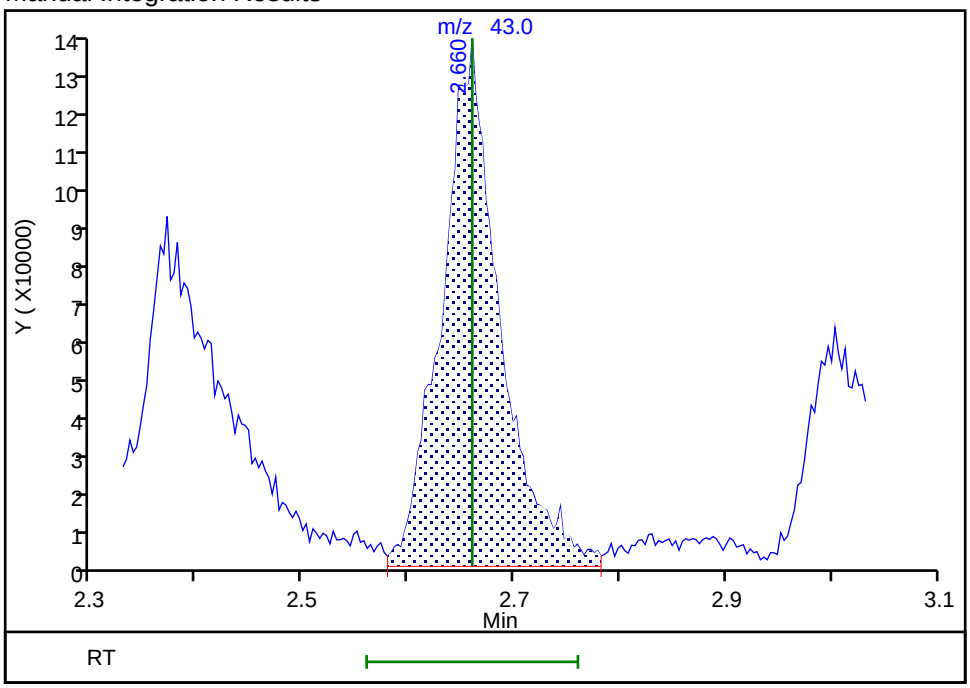
Processing Integration Results

RT: 2.66
Area: 486149
Amount: 47.555824
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 496135
Amount: 48.532670
Amount Units: ug/l



Reviewer: ULCP, 16-Jun-2023 10:20:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

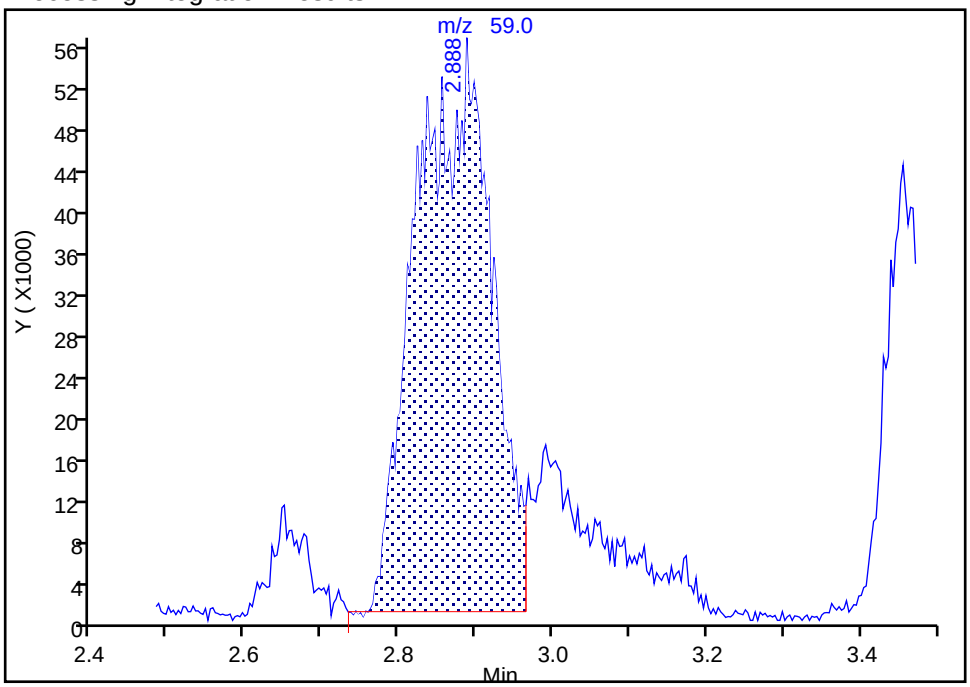
Data File:	\\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X02.D				
Injection Date:	16-Jun-2023 09:36:30	Instrument ID:	9137		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lcp00895	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

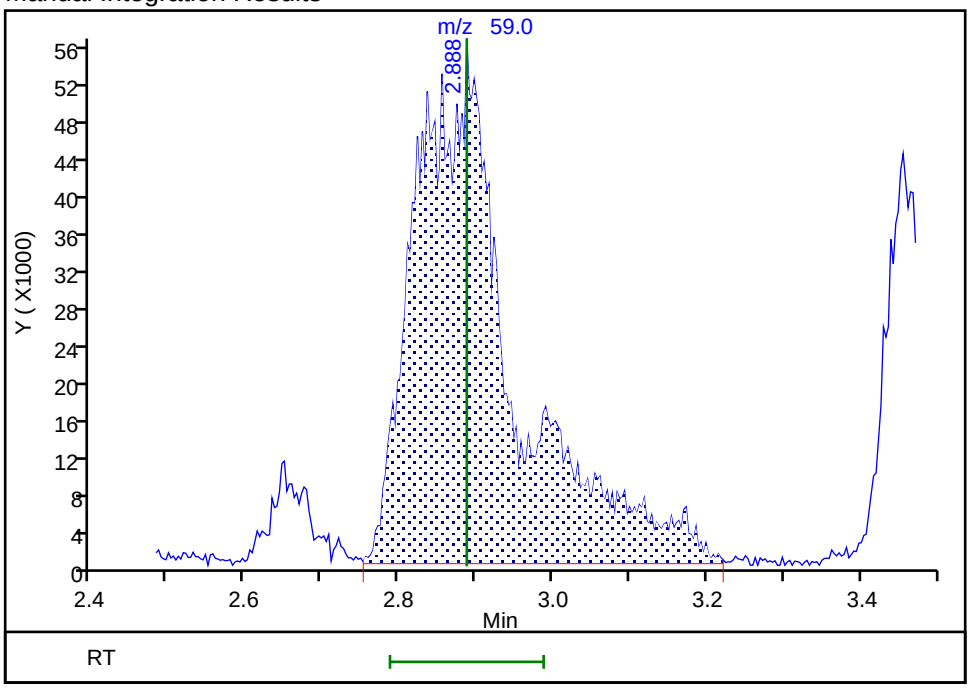
Processing Integration Results

RT: 2.89
Area: 376519
Amount: 182.4604
Amount Units: ug/l



Manual Integration Results

RT: 2.89
Area: 494990
Amount: 239.8712
Amount Units: ug/l



Reviewer: ULCP, 16-Jun-2023 10:20:55 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 08-Mar-2023 16:08:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0078550-001
Misc. Info.: BFB
Operator ID: kas02648 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 14-Mar-2023 13:27:14 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1686

First Level Reviewer: UKAD Date: 08-Mar-2023 16:17:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 51 BFB	95	4.287	4.287	0.000	0	1255721	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

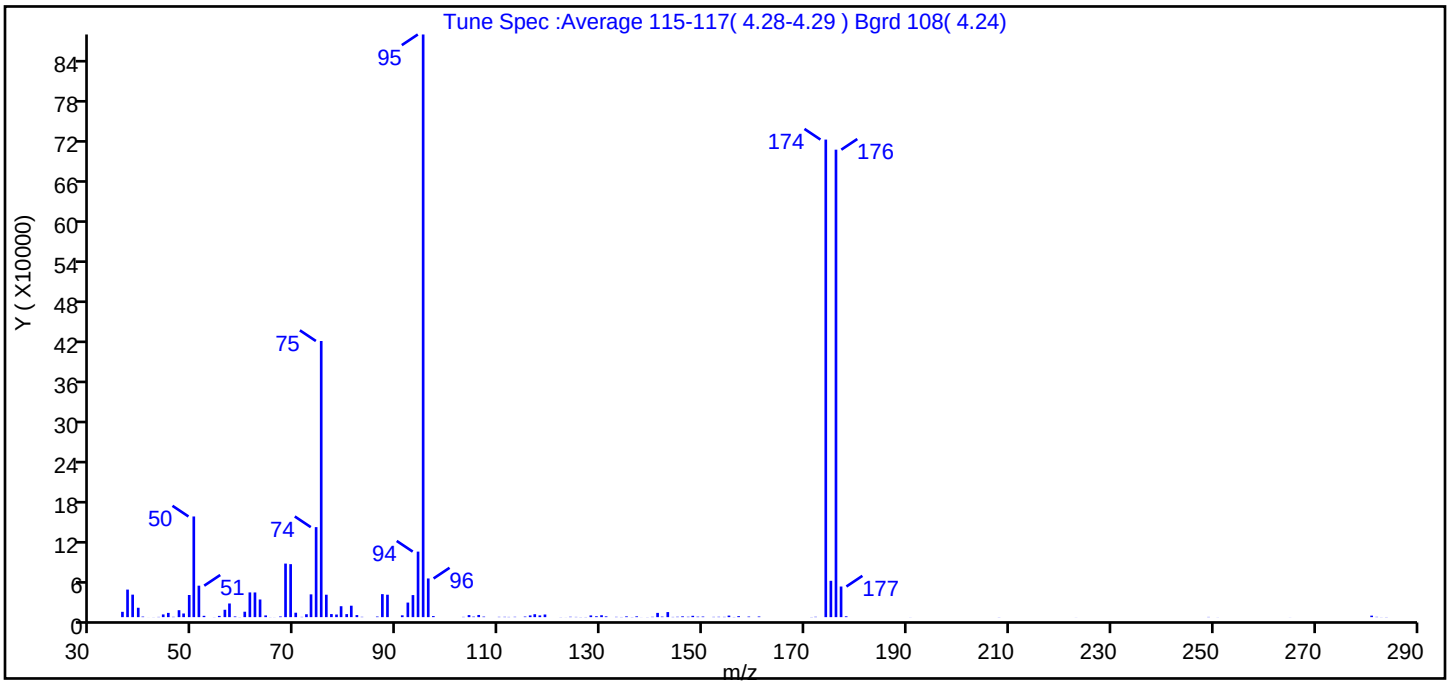
MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08T01.D
Injection Date: 08-Mar-2023 16:08:30 Instrument ID: 9137
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 51 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	47.4
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.0
175	5 to 9% of m/z 174	6.2 (7.6)
176	Greater than 95% but less than 101% of m/z 174	80.2 (97.9)
177	5 to 9% of m/z 176	5.3 (6.6)

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 08-Mar-2023 16:08:30
Spectrum: Tune Spec :Average 115-117(4.28-4.29) Bgrd 108(4.24)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8003	68.00	80424	110.00	460	145.00	573
37.00	41384	69.00	79584	111.00	486	146.00	1214
38.00	33792	70.00	6648	112.00	351	147.00	586
39.00	14093	71.00	394	113.00	516	148.00	1998
40.00	830	72.00	4343	115.00	889	149.00	713
41.00	63	73.00	34216	116.00	2580	150.00	890
42.00	127	74.00	135168	117.00	4393	152.00	416
43.00	362	75.00	414656	118.00	2605	153.00	529
44.00	4094	76.00	33672	119.00	3967	154.00	434
45.00	6375	77.00	4613	122.00	167	155.00	2304
46.00	484	78.00	3941	123.00	84	156.00	249
47.00	10430	79.00	16416	124.00	557	157.00	1482
48.00	5495	80.00	4539	125.00	364	159.00	878
49.00	33256	81.00	17160	126.00	191	161.00	998
50.00	151168	82.00	3084	127.00	228	171.00	226
51.00	47256	83.00	466	128.00	2591	172.00	523
52.00	1982	86.00	920	129.00	1337	174.00	717120
54.00	148	87.00	34536	130.00	2864	175.00	54592
55.00	1861	88.00	33664	131.00	1152	176.00	701952
56.00	11100	91.00	2720	133.00	454	177.00	46000
57.00	20520	92.00	21880	134.00	240	178.00	1241
58.00	1048	93.00	33120	135.00	1182	191.00	100
59.00	178	94.00	98400	136.00	220	208.00	172
60.00	8150	95.00	874944	137.00	1242	223.00	86
61.00	37136	96.00	58088	138.00	85	249.00	331
62.00	37072	97.00	1582	139.00	152	251.00	107
63.00	26512	103.00	402	140.00	527	265.00	85
64.00	2590	104.00	3067	141.00	6376	281.00	2255
65.00	132	105.00	793	142.00	790	282.00	435
66.00	102	106.00	3257	143.00	7610	283.00	139
67.00	1005	107.00	816	144.00	350	284.00	225

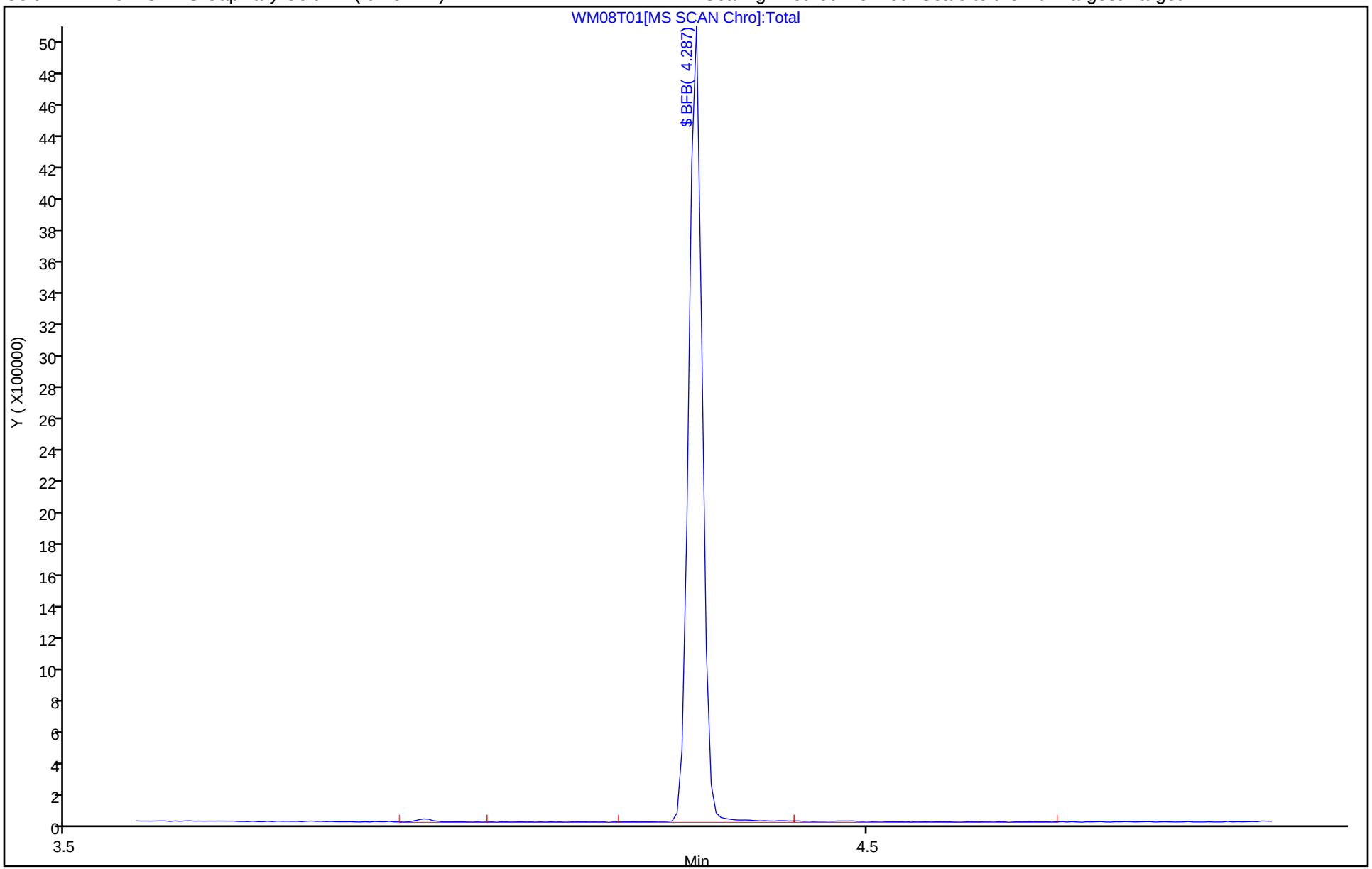
Report Date: 14-Mar-2023 13:27:14 Chrom Revision: 2.3 02-Mar-2023 15:43:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08T01.D

Injection Date:	08-Mar-2023 16:08:30	Instrument ID:	9137	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Jun-2023 07:38:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: BFB
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jun-2023 11:36:59 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 51 BFB	95	4.293	4.293	0.000	0	925609	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

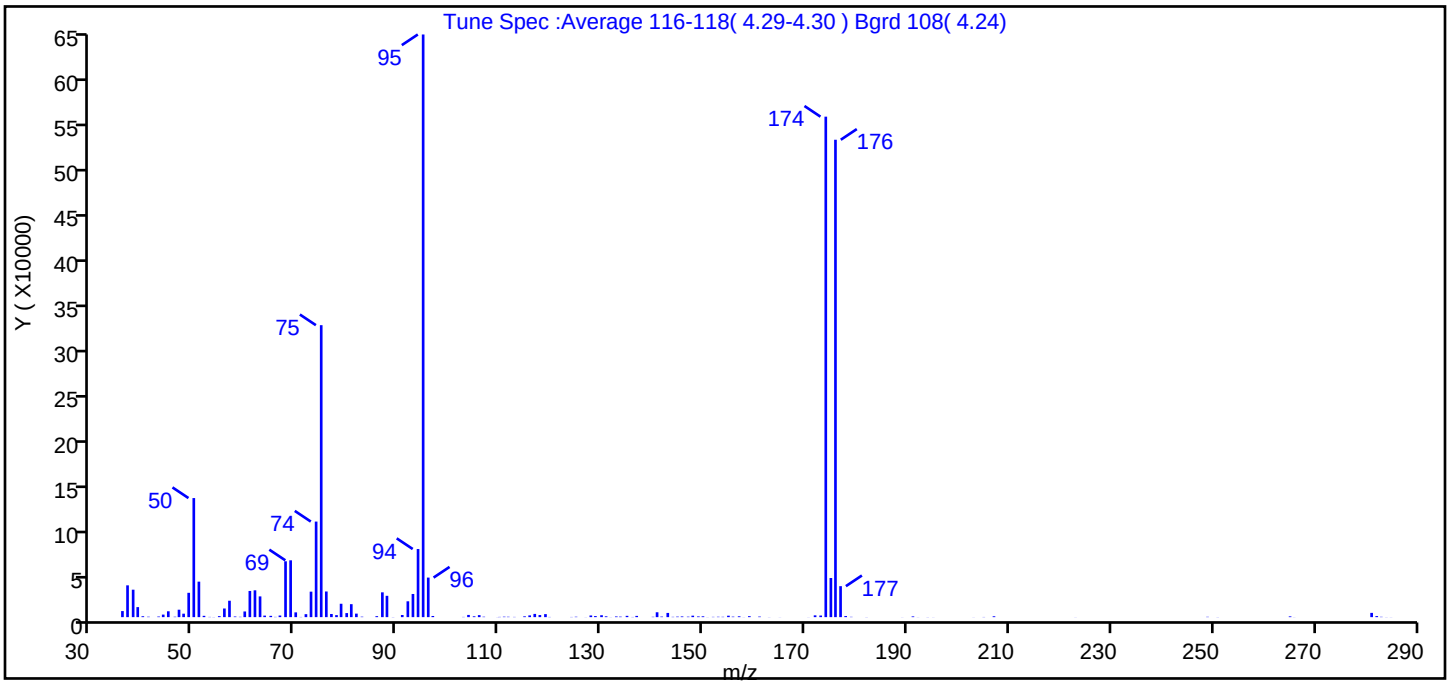
MSV_V_BFB_00011 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16T01.D
Injection Date: 16-Jun-2023 07:38:30 Instrument ID: 9137
Lims ID: BFB
Client ID:
Operator ID: lcp00895 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9137 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 51 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	50.1
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.3 (0.3)
174	50 to 120% of m/z 95	85.9
175	5 to 9% of m/z 174	6.7 (7.8)
176	Greater than 95% but less than 101% of m/z 174	81.9 (95.4)
177	5 to 9% of m/z 176	5.3 (6.5)

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 16-Jun-2023 07:38:30
Spectrum: Tune Spec :Average 116-118(4.29-4.30) Bgrd 108(4.24)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6697	72.00	3283	117.00	3574	158.00	93
37.00	35088	73.00	28128	118.00	2311	159.00	1061
38.00	30296	74.00	105464	119.00	3337	161.00	631
39.00	11067	75.00	322176	120.00	220	163.00	110
40.00	992	76.00	28320	124.00	216	165.00	84
41.00	471	77.00	3478	125.00	458	171.00	89
43.00	657	78.00	2231	127.00	91	172.00	1976
44.00	2812	79.00	14770	128.00	1835	173.00	1760
45.00	6467	80.00	4477	129.00	1186	174.00	552256
46.00	446	81.00	14321	130.00	2109	175.00	43184
47.00	8199	82.00	3881	131.00	896	176.00	526784
48.00	3821	83.00	508	132.00	94	177.00	34184
49.00	26848	86.00	1095	133.00	750	178.00	1196
50.00	131392	87.00	27376	134.00	563	179.00	340
51.00	39168	88.00	23536	135.00	1434	182.00	127
52.00	1445	89.00	152	136.00	202	189.00	83
53.00	256	91.00	2351	137.00	1379	191.00	803
54.00	140	92.00	17488	140.00	382	192.00	88
55.00	1091	93.00	25568	141.00	5383	194.00	122
56.00	9544	94.00	75168	142.00	604	195.00	85
57.00	18112	95.00	642944	143.00	4651	203.00	87
58.00	713	96.00	43648	144.00	331	205.00	199
59.00	358	97.00	1279	145.00	574	207.00	945
60.00	6271	103.00	246	146.00	773	223.00	86
61.00	28888	104.00	2445	147.00	518	249.00	363
62.00	29608	105.00	919	148.00	1614	251.00	123
63.00	22896	106.00	2229	149.00	773	265.00	842
64.00	1695	107.00	471	150.00	906	266.00	94
65.00	1434	110.00	97	151.00	94	281.00	4705
66.00	263	110.00	266	152.00	307	282.00	1149
67.00	1777	111.00	503	153.00	424	283.00	365
68.00	61648	112.00	427	154.00	366	284.00	117
69.00	62704	113.00	253	155.00	1592	285.00	92

Report Date: 16-Jun-2023 11:36:59 Chrom Revision: 2.3 05-Jun-2023 19:02:10
Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16T01.D\MSVoa_9137.rslt\spectra.d
Injection Date: 16-Jun-2023 07:38:30
Spectrum: Tune Spec :Average 116-118(4.29-4.30) Bgrd 108(4.24)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	5267	115.00	894	156.00	553		
71.00	211	116.00	1924	157.00	921		

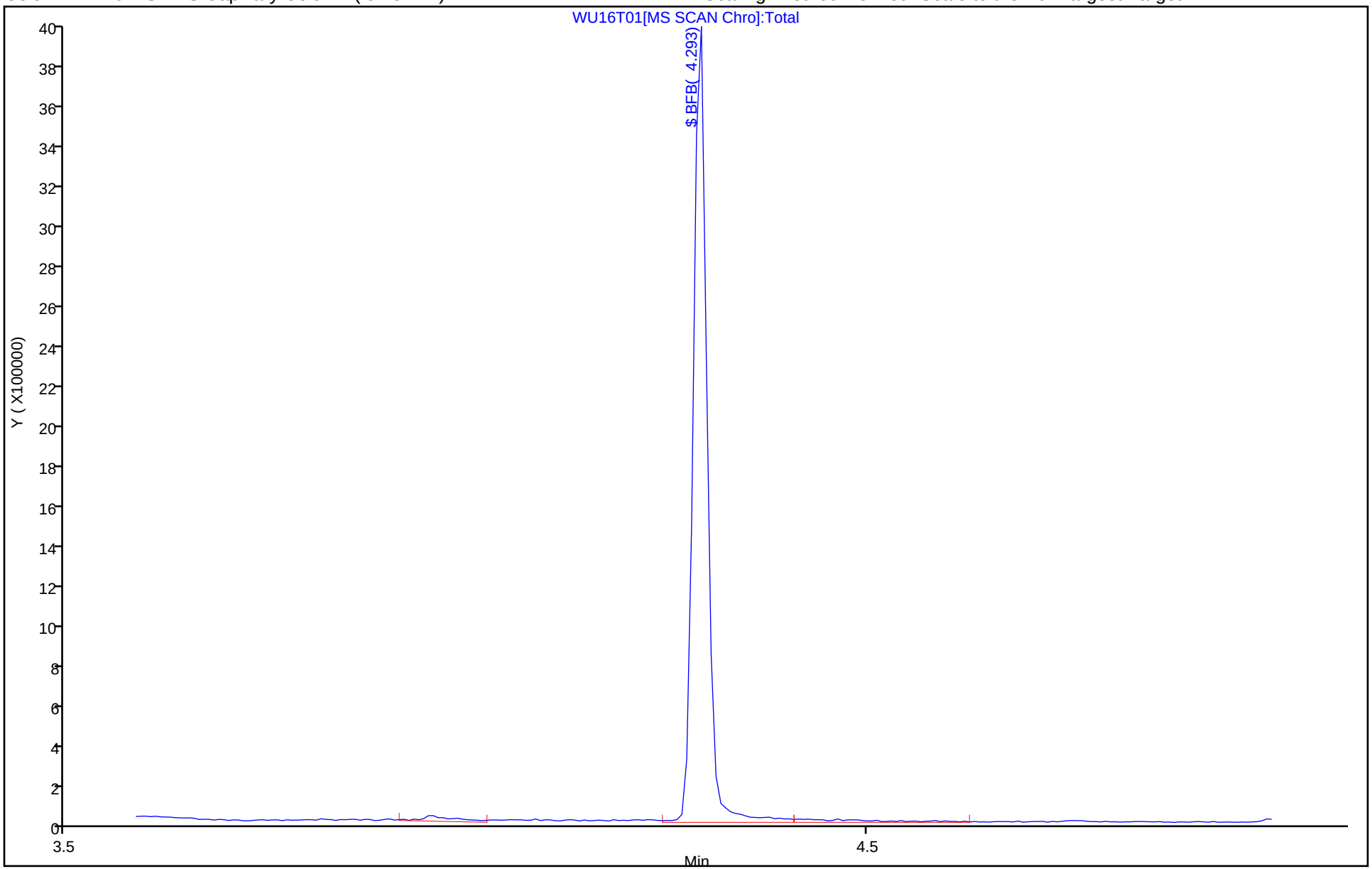
Report Date: 16-Jun-2023 11:36:59 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16T01.D

Injection Date:	16-Jun-2023 07:38:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-387447/6

Matrix: Water
Lab File ID: WU16X05.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 10:36

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Jun-2023 10:36:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-006
Misc. Info.: MB
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jun-2023 11:37:03 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: ULCP Date: 16-Jun-2023 11:18:04

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
A	1 C4-C10	1		(0.000-0.100)					ND	
A	2 C4-C12	1		(0.000-0.250)					ND	
	3 Chlorotrifluoroethene	116		1.280					ND	
	4 Chlorodifluoromethane	51		1.303					ND	U
	5 Dichlorodifluoromethane	85		1.319					ND	
	6 Chloromethane	50		1.453					ND	7
	8 Vinyl chloride	62		1.530					ND	7
	7 Butadiene	39		1.534					ND	7
	9 2-Chloro-1,1,1-Trifluoroethane	118		1.550					ND	
	10 Bromomethane	94		1.758					ND	7
	11 Chloroethane	64		1.797					ND	7
	12 Dichlorofluoromethane	67		1.948					ND	7
	14 Pentane	43		1.999					ND	7
	13 Trichlorofluoromethane	101		2.021					ND	
	16 Ethanol	45		2.095					ND	7
	15 Ethyl ether	59		2.131					ND	
	17 1,2-Dichloro-1,1,2-trifluoroetha	67		2.185					ND	
	18 Acrolein	56		2.249					ND	
	19 1,1-Dichloroethene	96		2.352					ND	
	21 Acetone	58		2.374					ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.390					ND	
	22 Isopropyl alcohol	45		2.490					ND	7
	23 Iodomethane	142		2.490					ND	
	24 Carbon disulfide	76		2.573					ND	7
	25 Acetonitrile	41		2.628					ND	7
	26 3-Chloro-1-propene	41		2.641					ND	7
	27 Methyl acetate	43		2.660					ND	7
	29 Methylene Chloride	84		2.756					ND	
*	30 t-Butyl alcohol-d10 (IS)	65	2.811	2.791	0.020	25	385987	250.0	250.0	
	31 2-Methyl-2-propanol	59		2.888					ND	7
	32 Acrylonitrile	53		2.965					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		3.000					ND	7
34 Methyl tert-butyl ether	73		3.006					ND	
35 Hexane	57		3.257					ND	
36 1,1-Dichloroethane	63		3.382					ND	
37 Vinyl acetate	43		3.440					ND	7
38 Isopropyl ether	45		3.459					ND	
39 2-Chloro-1,3-butadiene	53		3.469					ND	7
40 Tert-butyl ethyl ether	59		3.799					ND	7
43 2-Butanone (MEK)	43		3.921					ND	7
41 cis-1,2-Dichloroethene	96		3.934					ND	
42 2,2-Dichloropropane	77		3.953					ND	
44 Ethyl acetate	43		3.988					ND	7
45 Propionitrile	54		4.001					ND	
46 Methyl acrylate	55		4.024					ND	
47 Methacrylonitrile	67		4.142					ND	
48 Chlorobromomethane	128		4.162					ND	
49 Tetrahydrofuran	71		4.213					ND	
50 Chloroform	83		4.239					ND	7
$ 52 Dibromofluoromethane (Surr)	113	4.396	4.399	-0.003	91	279548	50.0	52.9	
53 1,1,1-Trichloroethane	97		4.438					ND	
54 Cyclohexane	56		4.502					ND	
55 1,1-Dichloropropene	75		4.588					ND	
56 Carbon tetrachloride	117		4.595					ND	
57 Isobutyl alcohol	41		4.717					ND	7
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.733	4.730	0.003	69	73673	50.0	55.7	
59 Benzene	78		4.794					ND	7
60 1,2-Dichloroethane	62		4.807					ND	7
61 Isopropyl acetate	43		4.868					ND	7
62 Tert-amyl methyl ether	73		4.919					ND	
* 63 Fluorobenzene (IS)	96	5.070	5.076	-0.006	98	1076060	50.0	50.0	
64 n-Heptane	43		5.083					ND	7
65 n-Butanol	56		5.375					ND	
66 Trichloroethene	95		5.448					ND	
67 Ethyl acrylate	55		5.564					ND	
68 Methylcyclohexane	83		5.660					ND	
69 1,2-Dichloropropane	63		5.673					ND	
70 2-ethoxy-2-methyl butane	87		5.728					ND	
71 Dibromomethane	93		5.792					ND	
72 1,4-Dioxane	88		5.805					ND	
73 Methyl methacrylate	69		5.811					ND	
74 n-Propyl acetate	61		5.875					ND	
75 Dichlorobromomethane	83		5.962					ND	
S 76 1,2-Dichloroethene, Total	100		6.155					ND	7
77 2-Nitropropane	41		6.203					ND	
78 2-Chloroethyl vinyl ether	63		6.292					ND	
A 79 C6-C10	1	6.394	(2.952-9.836)		0	3625033		NC	
80 cis-1,3-Dichloropropene	75		6.446					ND	
81 4-Methyl-2-pentanone (MIBK)	43		6.620					ND	7
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	94	983830	50.0	51.5	
83 Toluene	92		6.806					ND	7
84 trans-1,3-Dichloropropene	75		7.050					ND	7
A 85 C5-C12	1	7.153	(2.686-11.621)		0	4196256		NC	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Ethyl methacrylate	69		7.172					ND	
87 1,1,2-Trichloroethane	97		7.242					ND	7
A 88 C6-C12	1	7.286	(2.952-11.621)		0	3895293		NC	
89 Tetrachloroethene	166		7.396					ND	7
90 1,3-Dichloropropane	76		7.416					ND	
91 3,4-Dichloro-1-butene	75		7.467					ND	U
92 t-Amyl alcohol	73	7.474	7.493	-0.019	1	63		NC	
93 2-Hexanone	43		7.518					ND	7
94 Chlorodibromomethane	129		7.643					ND	
95 n-Butyl acetate	43		7.659					ND	7
96 Ethylene Dibromide	107		7.749					ND	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	87	706679	50.0	50.0	
98 1-Chlorohexane	91		8.211					ND	U
99 Chlorobenzene	112		8.215					ND	
100 1,1,1,2-Tetrachloroethane	131		8.292					ND	
101 Ethylbenzene	91		8.320					ND	
102 m-Xylene & p-Xylene	106		8.426					ND	7
103 n-Butyl acrylate	55		8.747					ND	U
104 o-Xylene	106		8.763					ND	
105 Styrene	104		8.776					ND	7
106 Bromoform	173		8.917					ND	U
107 Isopropylbenzene	105		9.071					ND	7
108 cis-1,4-Dichloro-2-butene	88		9.116					ND	U
109 Cyclohexanone	55		9.139					ND	7
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	88	328055	50.0	46.5	
111 Bromobenzene	156		9.299					ND	7
112 1,1,2,2-Tetrachloroethane	83		9.302					ND	7
113 1,2,3-Trichloropropane	110		9.331					ND	
114 trans-1,4-Dichloro-2-butene	53		9.347					ND	
115 N-Propylbenzene	91		9.395					ND	
116 2-Chlorotoluene	126		9.456					ND	
117 1,3,5-Trimethylbenzene	105		9.533					ND	7
118 4-Chlorotoluene	126		9.540					ND	7
119 2,3,4-Trichlorobutene	109		9.582					ND	
120 tert-Butylbenzene	134		9.777					ND	
121 Pentachloroethane	167		9.787					ND	
122 1,2,4-Trimethylbenzene	105		9.813					ND	7
123 sec-Butylbenzene	105		9.938					ND	7
161 1,3-Dichlorobenzene	146		10.015					ND	7
162 4-Isopropyltoluene	119		10.044					ND	7
S 164 1,3-Dichloropropene, Total	100		10.060					ND	7
* 163 1,4-Dichlorobenzene-d4	152	10.063	10.063	0.000	96	397353	50.0	50.0	
165 1,4-Dichlorobenzene	146		10.079					ND	7
166 1,2,3-Trimethylbenzene	105		10.117					ND	7
167 Benzyl chloride	91		10.175					ND	7
168 1,3-Diethylbenzene	119		10.259					ND	7
169 p-Diethylbenzene	119		10.320					ND	7
170 n-Butylbenzene	92		10.336					ND	
171 1,2-Dichlorobenzene	146		10.345					ND	7
172 o-diethylbenzene	119		10.400					ND	7
173 1,2-Dibromo-3-Chloropropane	75		10.878					ND	
174 1,3,5-Trichlorobenzene	180		11.026					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 175 Xylenes, Total	106		11.245					ND	7
176 1,2,4-Trichlorobenzene	180		11.436					ND	
177 Hexachlorobutadiene	225		11.545					ND	
178 2-Ethylhexyl acrylate	55		11.549					ND	U
179 Naphthalene	128		11.597					ND	7
180 1,2,3-Trichlorobenzene	180		11.754					ND	7
181 2-Methylnaphthalene	142		12.319					ND	7
182 Hexachloroethane	201		13.560					ND	
183 tert-Butyl Formate	1		0.000					ND	
186 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
187 1,4-Divinylbenzene	1		0.000					ND	
188 Diethoxymethane	1		0.000					ND	
189 sec-Butyl Alcohol	45		0.000					ND	
190 4-Ethyltoluene	1		0.000					ND	
191 Undecane	1		0.000					ND	
S 192 Total Diethylbenzene	1		0.000					ND	7
193 1-Bromo-2-chloroethane	1		0.000					ND	
194 Isobutyl acetate	43		0.000					ND	
195 Propanol	1		0.000					ND	
196 3-Methyl-1-butene	1		0.000					ND	
197 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
198 Propene oxide	1		0.000					ND	
199 1,3-Divinylbenzene	1		0.000					ND	
200 Ethyl bromide	1		0.000					ND	
201 n-Octane	1		0.000					ND	
S 202 divinyl benzene	1		0.000					ND	7
203 1-Chlorobutane	1		0.000					ND	
204 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
205 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
S 206 Total BTEX	1		0.000					ND	
207 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
208 Methylal	1		0.000					ND	
209 Chloroacetonitrile	1		0.000					ND	
210 3-chloro-1-Butene	1		0.000					ND	
212 n-Nonane	1		0.000					ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_Cent_ISSS_00020 Amount Added: 5.00 Units: uL Run Reagent

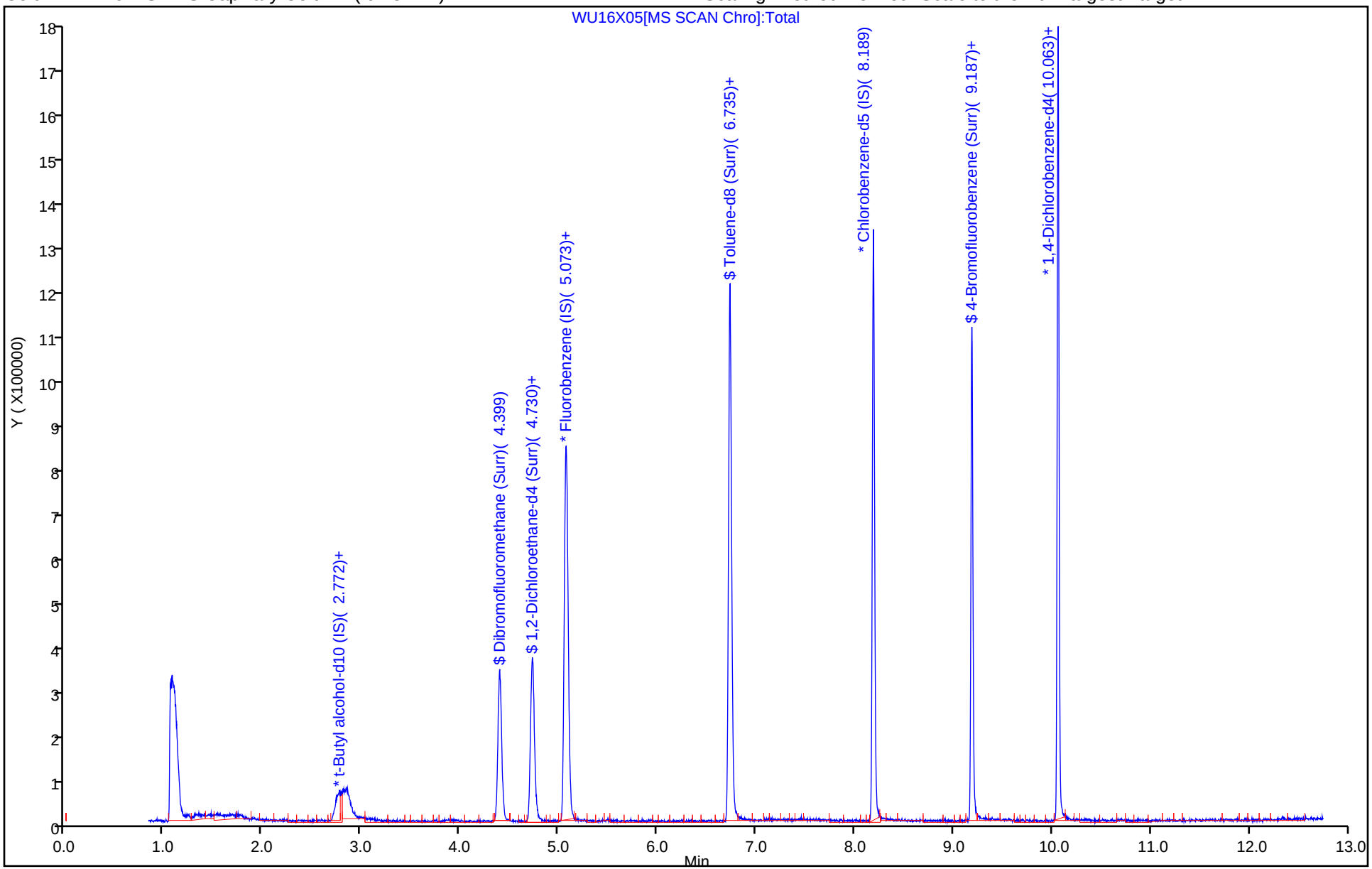
Report Date: 16-Jun-2023 11:37:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X05.D

Injection Date:	16-Jun-2023 10:36:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 16-Jun-2023 10:36:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-006
Misc. Info.: MB
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jun-2023 11:37:03 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: ULCP Date: 16-Jun-2023 11:18:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	52.9	105.89
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	55.7	111.41
$ 82 Toluene-d8 (Surr)	50.0	51.5	102.96
$ 110 4-Bromofluorobenzene (Surr)	50.0	46.5	93.02

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-387447/4

Matrix: Water
Lab File ID: WU16X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 09:56

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	18.9		1.0	0.30
100-41-4	Ethylbenzene	17.8		1.0	0.40
108-88-3	Toluene	19.1		1.0	0.30
1330-20-7	Xylenes, Total	53.8		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Jun-2023 09:56:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-004
Misc. Info.: LCS
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jun-2023 11:37:03 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: ULCP Date: 16-Jun-2023 10:23:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.319	1.319	0.000	97	217424	20.0	16.3	
6 Chloromethane	50	1.450	1.453	-0.003	99	327675	20.0	21.0	
8 Vinyl chloride	62	1.521	1.530	-0.009	97	293786	20.0	19.3	
7 Butadiene	39	1.530	1.534	-0.004	98	364899	20.0	25.2	
10 Bromomethane	94	1.755	1.758	-0.003	91	165887	20.0	18.8	
11 Chloroethane	64	1.784	1.797	-0.013	98	166368	20.0	21.2	
12 Dichlorofluoromethane	67	1.944	1.948	-0.004	97	394653	20.0	21.6	
14 Pentane	43	1.989	1.999	-0.010	96	357126	20.0	22.7	
13 Trichlorofluoromethane	101	2.018	2.021	-0.003	85	283401	20.0	17.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.191	2.185	0.006	92	219106	20.0	20.6	
18 Acrolein	56	2.243	2.249	-0.006	98	465519	150.0	182.2	
19 1,1-Dichloroethene	96	2.349	2.352	-0.003	93	154326	20.0	19.7	
21 Acetone	58	2.358	2.374	-0.016	100	359817	250.0	300.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.384	2.390	-0.006	89	180312	20.0	18.7	
22 Isopropyl alcohol	45	2.467	2.490	-0.023	50	153231	150.0	134.0	
23 Iodomethane	142	2.480	2.490	-0.010	97	266996	20.0	19.5	
24 Carbon disulfide	76	2.580	2.573	0.007	99	457059	20.0	17.3	M
26 3-Chloro-1-propene	41	2.637	2.641	-0.004	88	283855	20.0	21.2	
27 Methyl acetate	43	2.654	2.660	-0.006	91	211698	20.0	20.1	
29 Methylene Chloride	84	2.763	2.756	0.007	98	173513	20.0	18.9	
* 30 t-Butyl alcohol-d10 (IS)	65	2.808	2.791	0.017	78	374132	250.0	250.0	
31 2-Methyl-2-propanol	59	2.846	2.888	-0.042	95	363439	200.0	175.4	
32 Acrylonitrile	53	2.962	2.965	-0.003	99	527302	100.0	96.8	
33 trans-1,2-Dichloroethene	96	2.994	3.000	-0.006	96	138785	20.0	17.8	
34 Methyl tert-butyl ether	73	3.003	3.006	-0.003	92	508785	20.0	19.4	
35 Hexane	57	3.254	3.257	-0.003	96	228321	20.0	17.8	
36 1,1-Dichloroethane	63	3.379	3.382	-0.003	96	264911	20.0	19.1	
38 Isopropyl ether	45	3.446	3.459	-0.013	98	561373	20.0	21.0	
39 2-Chloro-1,3-butadiene	53	3.472	3.469	0.003	94	239664	20.0	18.2	
40 Tert-butyl ethyl ether	59	3.793	3.799	-0.006	99	529794	20.0	20.4	
43 2-Butanone (MEK)	43	3.915	3.921	-0.006	99	1704953	250.0	249.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	3.931	3.934	-0.003	54	155524	20.0	18.4	
42 2,2-Dichloropropane	77	3.943	3.953	-0.010	58	248184	20.0	18.2	
45 Propionitrile	54	4.004	4.001	0.003	94	327683	150.0	168.1	
47 Methacrylonitrile	67	4.149	4.142	0.007	94	694510	150.0	141.0	
48 Chlorobromomethane	128	4.155	4.162	-0.007	93	76041	20.0	19.2	
49 Tetrahydrofuran	71	4.213	4.213	0.000	85	163615	100.0	98.0	
50 Chloroform	83	4.239	4.239	0.000	94	239378	20.0	18.7	
$ 52 Dibromofluoromethane (Surr)	113	4.399	4.399	0.000	93	276800	50.0	49.6	
53 1,1,1-Trichloroethane	97	4.438	4.438	0.000	98	242626	20.0	18.7	
54 Cyclohexane	56	4.495	4.502	-0.007	96	365465	20.0	20.0	
55 1,1-Dichloropropene	75	4.592	4.588	0.004	93	202433	20.0	18.4	
56 Carbon tetrachloride	117	4.605	4.595	0.010	94	190553	20.0	18.2	
57 Isobutyl alcohol	41	4.714	4.717	-0.003	76	284326	500.0	501.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.720	4.730	-0.010	84	70555	50.0	50.5	
59 Benzene	78	4.794	4.794	0.000	96	591303	20.0	18.9	
60 1,2-Dichloroethane	62	4.807	4.807	0.000	67	201326	20.0	19.7	
62 Tert-amyl methyl ether	73	4.909	4.919	-0.010	95	459781	20.0	18.7	
* 63 Fluorobenzene (IS)	96	5.067	5.076	-0.009	97	1137305	50.0	50.0	
64 n-Heptane	43	5.083	5.083	0.000	59	228773	20.0	18.5	
65 n-Butanol	56	5.378	5.375	0.003	96	387526	1000.0	879.5	
66 Trichloroethene	95	5.445	5.448	-0.003	98	135032	20.0	17.2	
68 Methylcyclohexane	83	5.654	5.660	-0.006	96	286825	20.0	16.8	
69 1,2-Dichloropropane	63	5.676	5.673	0.003	96	154688	20.0	18.9	
70 2-ethoxy-2-methyl butane	87	5.728	5.728	0.000	92	199910	20.0	17.6	
71 Dibromomethane	93	5.789	5.792	-0.003	96	86186	20.0	17.9	
72 1,4-Dioxane	88	5.814	5.805	0.009	40	47145	500.0	398.1	
73 Methyl methacrylate	69	5.805	5.811	-0.006	96	120574	20.0	16.7	
75 Dichlorobromomethane	83	5.962	5.962	0.000	97	170142	20.0	19.0	
77 2-Nitropropane	41	6.193	6.203	-0.010	96	51221	20.0	18.3	
78 2-Chloroethyl vinyl ether	63	6.296	6.292	0.004	93	86328	20.0	15.6	
80 cis-1,3-Dichloropropene	75	6.440	6.446	-0.006	94	190853	20.0	16.5	
81 4-Methyl-2-pentanone (MIBK)	43	6.620	6.620	0.000	99	3544636	250.0	249.0	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	94	1074959	50.0	52.0	
83 Toluene	92	6.806	6.806	0.000	98	334948	20.0	19.1	
84 trans-1,3-Dichloropropene	75	7.050	7.050	0.000	97	166426	20.0	17.2	
86 Ethyl methacrylate	69	7.168	7.172	-0.004	91	193406	20.0	17.3	
87 1,1,2-Trichloroethane	97	7.242	7.242	0.000	91	112711	20.0	18.4	
89 Tetrachloroethene	166	7.393	7.396	-0.003	97	135192	20.0	18.5	
90 1,3-Dichloropropane	76	7.416	7.416	0.000	95	201366	20.0	19.7	
93 2-Hexanone	43	7.515	7.518	-0.003	99	2239407	250.0	261.9	
94 Chlorodibromomethane	129	7.640	7.643	-0.003	93	113934	20.0	20.1	
96 Ethylene Dibromide	107	7.746	7.749	-0.003	99	109629	20.0	17.8	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	89	764635	50.0	50.0	
98 1-Chlorohexane	91	8.208	8.211	-0.003	81	152565	20.0	15.2	
99 Chlorobenzene	112	8.215	8.215	0.000	92	321585	20.0	18.1	
100 1,1,1,2-Tetrachloroethane	131	8.292	8.292	0.000	94	135131	20.0	20.0	
101 Ethylbenzene	91	8.320	8.320	0.000	99	606127	20.0	17.8	
102 m-Xylene & p-Xylene	106	8.426	8.426	0.000	99	458877	40.0	35.8	
104 o-Xylene	106	8.766	8.763	0.003	97	244096	20.0	18.0	
105 Styrene	104	8.776	8.776	0.000	95	348484	20.0	17.4	
106 Bromoform	173	8.917	8.917	0.000	95	80500	20.0	17.8	
107 Isopropylbenzene	105	9.075	9.071	0.004	96	685333	20.0	18.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	88	370870	50.0	48.6	
111 Bromobenzene	156	9.302	9.299	0.003	95	134694	20.0	17.5	
112 1,1,2,2-Tetrachloroethane	83	9.302	9.302	0.000	93	223026	20.0	18.4	
113 1,2,3-Trichloropropane	110	9.338	9.331	0.007	83	62436	20.0	18.4	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	94	300162	100.0	92.9	
115 N-Propylbenzene	91	9.395	9.395	0.000	99	729509	20.0	17.4	
116 2-Chlorotoluene	126	9.460	9.456	0.004	95	136536	20.0	16.5	
117 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	95	540085	20.0	17.3	
118 4-Chlorotoluene	126	9.540	9.540	0.000	99	131181	20.0	16.9	
120 tert-Butylbenzene	134	9.777	9.777	0.000	94	105899	20.0	17.5	
122 1,2,4-Trimethylbenzene	105	9.813	9.813	0.000	98	552160	20.0	17.3	
123 sec-Butylbenzene	105	9.938	9.938	0.000	95	698111	20.0	17.9	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	98	255912	20.0	16.9	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	98	580634	20.0	17.4	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	96	432017	50.0	50.0	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	95	270666	20.0	18.4	
166 1,2,3-Trimethylbenzene	105	10.121	10.117	0.004	99	588247	20.0	17.5	
167 Benzyl chloride	91	10.175	10.175	0.000	99	345493	20.0	15.5	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	337626	20.0	16.6	
169 p-Diethylbenzene	119	10.316	10.320	-0.004	94	343726	20.0	16.8	
170 n-Butylbenzene	92	10.336	10.336	0.000	98	286994	20.0	17.4	
171 1,2-Dichlorobenzene	146	10.345	10.345	0.000	96	278417	20.0	17.5	
172 o-diethylbenzene	119	10.400	10.400	0.000	97	288758	20.0	17.5	
173 1,2-Dibromo-3-Chloropropane	75	10.881	10.878	0.003	78	58190	20.0	18.5	
174 1,3,5-Trichlorobenzene	180	11.029	11.026	0.003	94	216545	20.0	17.9	
176 1,2,4-Trichlorobenzene	180	11.436	11.436	0.000	94	209844	20.0	18.0	
177 Hexachlorobutadiene	225	11.545	11.545	0.000	97	77559	20.0	18.5	
179 Naphthalene	128	11.600	11.597	0.003	97	792468	20.0	17.8	
180 1,2,3-Trichlorobenzene	180	11.751	11.754	-0.003	95	232241	20.0	19.0	
181 2-Methylnaphthalene	142	12.319	12.319	0.000	92	442781	20.0	16.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_2CEVE_00119	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00146	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00117	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00113	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00020	Amount Added: 5.00	Units: uL	Run Reagent

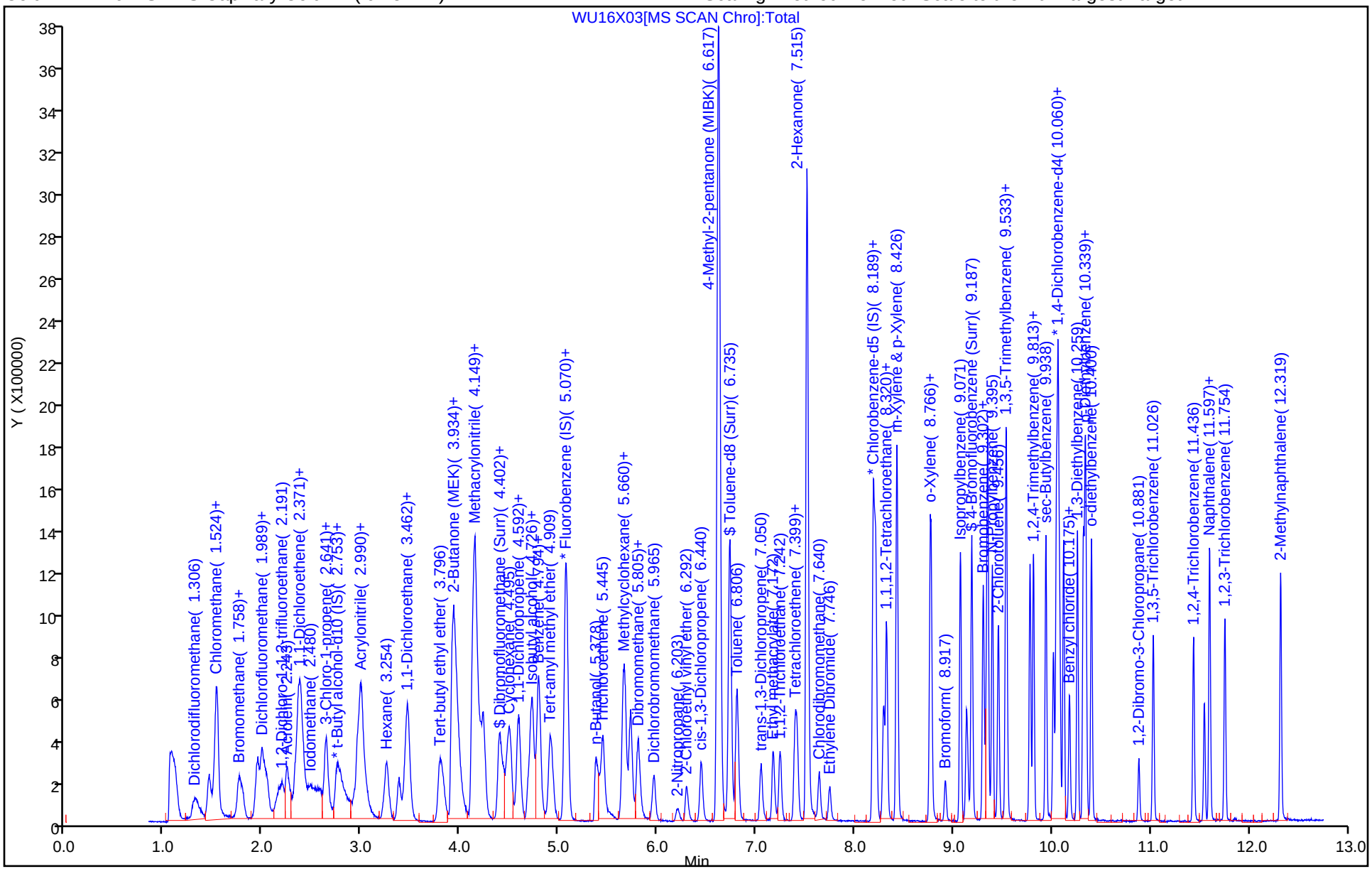
Report Date: 16-Jun-2023 11:37:12 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X03.D

Injection Date:	16-Jun-2023 09:56:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 16-Jun-2023 09:56:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-004
Misc. Info.: LCS
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 16-Jun-2023 11:37:03 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1651

First Level Reviewer: ULCP Date: 16-Jun-2023 10:23:19

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	49.6	99.20
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.5	100.95
$ 82 Toluene-d8 (Surr)	50.0	52.0	103.97
$ 110 4-Bromofluorobenzene (Surr)	50.0	48.6	97.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-7S-20230608 MS
Lab Sample ID: 410-130132-11 MS

Matrix: Water
Lab File ID: WU16X10.D

Analysis Method: 8260D
Date Collected: 06/08/2023 12:53

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 12:15

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.4		1.0	0.30
100-41-4	Ethylbenzene	19.2		1.0	0.40
108-88-3	Toluene	19.8		1.0	0.30
1330-20-7	Xylenes, Total	57.8		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X10.D
Lims ID: 410-130132-A-11 MS
Client ID: MW-7S-20230608
Sample Type: MS
Inject. Date: 16-Jun-2023 12:15:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-011
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:51:14 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:51:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.309	1.319	-0.010	96	270728	20.0	21.1	
6 Chloromethane	50	1.447	1.453	-0.006	99	324551	20.0	21.6	
8 Vinyl chloride	62	1.518	1.530	-0.012	94	340417	20.0	23.2	
7 Butadiene	39	1.521	1.534	-0.013	97	426638	20.0	30.6	
10 Bromomethane	94	1.749	1.758	-0.009	92	172586	20.0	20.4	
11 Chloroethane	64	1.787	1.797	-0.010	98	175733	20.0	23.3	
12 Dichlorofluoromethane	67	1.938	1.948	-0.010	97	435541	20.0	24.8	
14 Pentane	43	1.980	1.999	-0.019	97	381405	20.0	25.3	
13 Trichlorofluoromethane	101	2.002	2.021	-0.019	95	318595	20.0	20.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.185	2.185	0.000	96	243374	20.0	23.8	
18 Acrolein	56	2.233	2.249	-0.016	99	431845	150.0	171.7	
19 1,1-Dichloroethene	96	2.349	2.352	-0.003	94	170193	20.0	22.6	
21 Acetone	58	2.362	2.374	-0.012	100	333215	250.0	282.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.374	2.390	-0.016	92	202420	20.0	21.8	
22 Isopropyl alcohol	45	2.557	2.490	0.067	31	134218	150.0	119.2	M
23 Iodomethane	142	2.490	2.490	0.000	99	278212	20.0	21.2	
24 Carbon disulfide	76	2.567	2.573	-0.006	99	696947	20.0	27.4	
26 3-Chloro-1-propene	41	2.631	2.641	-0.010	88	286065	20.0	22.3	
27 Methyl acetate	43	2.654	2.660	-0.006	97	225877	20.0	22.3	
29 Methylene Chloride	84	2.747	2.756	-0.009	98	181335	20.0	20.6	
* 30 t-Butyl alcohol-d10 (IS)	65	2.820	2.791	0.029	83	368322	250.0	250.0	
31 2-Methyl-2-propanol	59	2.891	2.888	0.003	97	356651	200.0	174.9	
32 Acrylonitrile	53	2.958	2.965	-0.007	100	502400	100.0	96.0	
33 trans-1,2-Dichloroethene	96	2.990	3.000	-0.010	96	145515	20.0	19.5	
34 Methyl tert-butyl ether	73	2.990	3.006	-0.016	97	500944	20.0	19.9	
35 Hexane	57	3.247	3.257	-0.010	94	250476	20.0	20.3	
36 1,1-Dichloroethane	63	3.369	3.382	-0.013	96	266008	20.0	19.9	
38 Isopropyl ether	45	3.446	3.459	-0.013	92	557916	20.0	21.8	
39 2-Chloro-1,3-butadiene	53	3.459	3.469	-0.010	92	264854	20.0	20.9	
40 Tert-butyl ethyl ether	59	3.799	3.799	0.000	98	495945	20.0	19.9	
43 2-Butanone (MEK)	43	3.911	3.921	-0.010	100	1606719	250.0	244.7	
41 cis-1,2-Dichloroethene	96	3.921	3.934	-0.013	85	158791	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2,2-Dichloropropane	77	3.950	3.953	-0.003	49	260689	20.0	19.9	
45 Propionitrile	54	3.988	4.001	-0.013	72	309141	150.0	161.1	
47 Methacrylonitrile	67	4.139	4.142	-0.003	94	664157	150.0	140.4	
48 Chlorobromomethane	128	4.155	4.162	-0.007	97	74488	20.0	19.6	
49 Tetrahydrofuran	71	4.203	4.213	-0.010	85	157905	100.0	96.1	
50 Chloroform	83	4.232	4.239	-0.007	95	246972	20.0	20.1	
$ 52 Dibromofluoromethane (Surr)	113	4.386	4.399	-0.013	93	271463	50.0	50.6	
53 1,1,1-Trichloroethane	97	4.428	4.438	-0.010	98	259340	20.0	20.9	
54 Cyclohexane	56	4.499	4.502	-0.003	95	398861	20.0	22.7	
55 1,1-Dichloropropene	75	4.585	4.588	-0.003	95	214853	20.0	20.3	
56 Carbon tetrachloride	117	4.589	4.595	-0.007	95	208501	20.0	20.8	
57 Isobutyl alcohol	41	4.710	4.717	-0.007	81	278686	500.0	499.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.723	4.730	-0.007	88	71781	50.0	53.4	
59 Benzene	78	4.787	4.794	-0.007	97	613740	20.0	20.4	
60 1,2-Dichloroethane	62	4.804	4.807	-0.003	96	195888	20.0	20.0	
62 Tert-amyl methyl ether	73	4.916	4.919	-0.003	98	455636	20.0	19.3	
* 63 Fluorobenzene (IS)	96	5.063	5.076	-0.013	98	1092618	50.0	50.0	
64 n-Heptane	43	5.070	5.083	-0.013	95	248415	20.0	20.9	
65 n-Butanol	56	5.375	5.375	0.000	94	380474	1000.0	877.2	
66 Trichloroethene	95	5.442	5.448	-0.006	97	137754	20.0	18.3	
68 Methylcyclohexane	83	5.647	5.660	-0.013	95	328304	20.0	20.0	
69 1,2-Dichloropropane	63	5.673	5.673	0.000	90	157388	20.0	20.1	
70 2-ethoxy-2-methyl butane	87	5.724	5.728	-0.004	91	193219	20.0	17.7	
71 Dibromomethane	93	5.789	5.792	-0.003	96	87296	20.0	18.8	
72 1,4-Dioxane	88	5.811	5.805	0.006	35	48389	500.0	415.0	M
73 Methyl methacrylate	69	5.805	5.811	-0.006	95	112415	20.0	16.2	
75 Dichlorobromomethane	83	5.959	5.962	-0.003	98	167926	20.0	19.5	
77 2-Nitropropane	41	6.203	6.203	0.000	96	49355	20.0	17.9	
78 2-Chloroethyl vinyl ether	63		6.292				ND	ND	U
80 cis-1,3-Dichloropropene	75	6.440	6.446	-0.006	93	183746	20.0	16.5	
81 4-Methyl-2-pentanone (MIBK)	43	6.617	6.620	-0.003	99	3369206	250.0	246.3	
$ 82 Toluene-d8 (Surr)	98	6.729	6.735	-0.006	94	1033501	50.0	52.6	
83 Toluene	92	6.803	6.806	-0.003	98	330555	20.0	19.8	
84 trans-1,3-Dichloropropene	75	7.047	7.050	-0.003	97	164241	20.0	17.9	
86 Ethyl methacrylate	69	7.168	7.172	-0.004	94	183300	20.0	17.3	
87 1,1,2-Trichloroethane	97	7.236	7.242	-0.006	92	115075	20.0	19.8	
89 Tetrachloroethene	166	7.396	7.396	0.000	97	139631	20.0	20.1	
90 1,3-Dichloropropane	76	7.412	7.416	-0.004	96	194875	20.0	20.1	
93 2-Hexanone	43	7.515	7.518	-0.003	99	2103990	250.0	259.1	
94 Chlorodibromomethane	129	7.637	7.643	-0.006	90	113738	20.0	21.1	
96 Ethylene Dibromide	107	7.740	7.749	-0.009	100	110923	20.0	19.0	
* 97 Chlorobenzene-d5 (IS)	117	8.186	8.189	-0.003	89	726173	50.0	50.0	
98 1-Chlorohexane	91	8.208	8.211	-0.003	88	167333	20.0	17.5	
99 Chlorobenzene	112	8.215	8.215	0.000	95	327342	20.0	19.4	
100 1,1,1,2-Tetrachloroethane	131	8.292	8.292	0.000	94	136310	20.0	21.2	
101 Ethylbenzene	91	8.320	8.320	0.000	99	621393	20.0	19.2	
102 m-Xylene & p-Xylene	106	8.430	8.426	0.004	99	465323	40.0	38.3	
104 o-Xylene	106	8.763	8.763	0.000	96	250992	20.0	19.5	
105 Styrene	104	8.776	8.776	0.000	95	339769	20.0	17.9	
106 Bromoform	173	8.917	8.917	0.000	94	76482	20.0	17.8	
107 Isopropylbenzene	105	9.068	9.071	-0.003	96	697819	20.0	20.1	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	88	343464	50.0	47.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
111 Bromobenzene	156	9.302	9.299	0.003	96	135185	20.0	19.1	
112 1,1,2,2-Tetrachloroethane	83	9.302	9.302	0.000	96	206792	20.0	18.6	
113 1,2,3-Trichloropropane	110	9.334	9.331	0.003	86	59413	20.0	19.0	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	92	277002	100.0	93.4	
115 N-Propylbenzene	91	9.395	9.395	0.000	99	740282	20.0	19.2	
116 2-Chlorotoluene	126	9.456	9.456	0.000	96	143697	20.0	18.9	
117 1,3,5-Trimethylbenzene	105	9.533	9.533	0.000	95	561415	20.0	19.6	
118 4-Chlorotoluene	126	9.543	9.540	0.003	99	131204	20.0	18.4	
120 tert-Butylbenzene	134	9.777	9.777	0.000	94	116309	20.0	20.9	
122 1,2,4-Trimethylbenzene	105	9.809	9.813	-0.004	98	560836	20.0	19.1	
123 sec-Butylbenzene	105	9.938	9.938	0.000	95	746185	20.0	20.8	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	97	252868	20.0	18.2	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	610155	20.0	19.9	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	96	396759	50.0	50.0	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	93	257681	20.0	19.1	
166 1,2,3-Trimethylbenzene	105	10.117	10.117	0.000	99	591471	20.0	19.2	
167 Benzyl chloride	91	10.175	10.175	0.000	99	314892	20.0	15.4	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	95	344043	20.0	18.5	
169 p-Diethylbenzene	119	10.320	10.320	0.000	94	363401	20.0	19.4	
170 n-Butylbenzene	92	10.336	10.336	0.000	98	294693	20.0	19.5	
171 1,2-Dichlorobenzene	146	10.345	10.345	0.000	96	276582	20.0	19.0	
172 o-diethylbenzene	119	10.400	10.400	0.000	96	294138	20.0	19.4	
173 1,2-Dibromo-3-Chloropropane	75	10.881	10.878	0.003	79	50977	20.0	17.7	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	214178	20.0	19.2	
176 1,2,4-Trichlorobenzene	180	11.436	11.436	0.000	95	203477	20.0	19.0	
177 Hexachlorobutadiene	225	11.542	11.545	-0.003	96	86734	20.0	22.5	
179 Naphthalene	128	11.597	11.597	0.000	97	750223	20.0	18.4	
180 1,2,3-Trichlorobenzene	180	11.754	11.754	0.000	96	232315	20.0	20.7	
181 2-Methylnaphthalene	142	12.319	12.319	0.000	93	419990	20.0	16.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LCS_2CEVE_00119	Amount Added: 21.50	Units: uL	
MSV_LCS_Gases_00146	Amount Added: 21.50	Units: uL	
MSV_LCS_ACROL_00117	Amount Added: 21.50	Units: uL	
MSV_LCS_VOC#1_00113	Amount Added: 21.50	Units: uL	
MSV_Cent_ISSS_00020	Amount Added: 5.00	Units: uL	Run Reagent

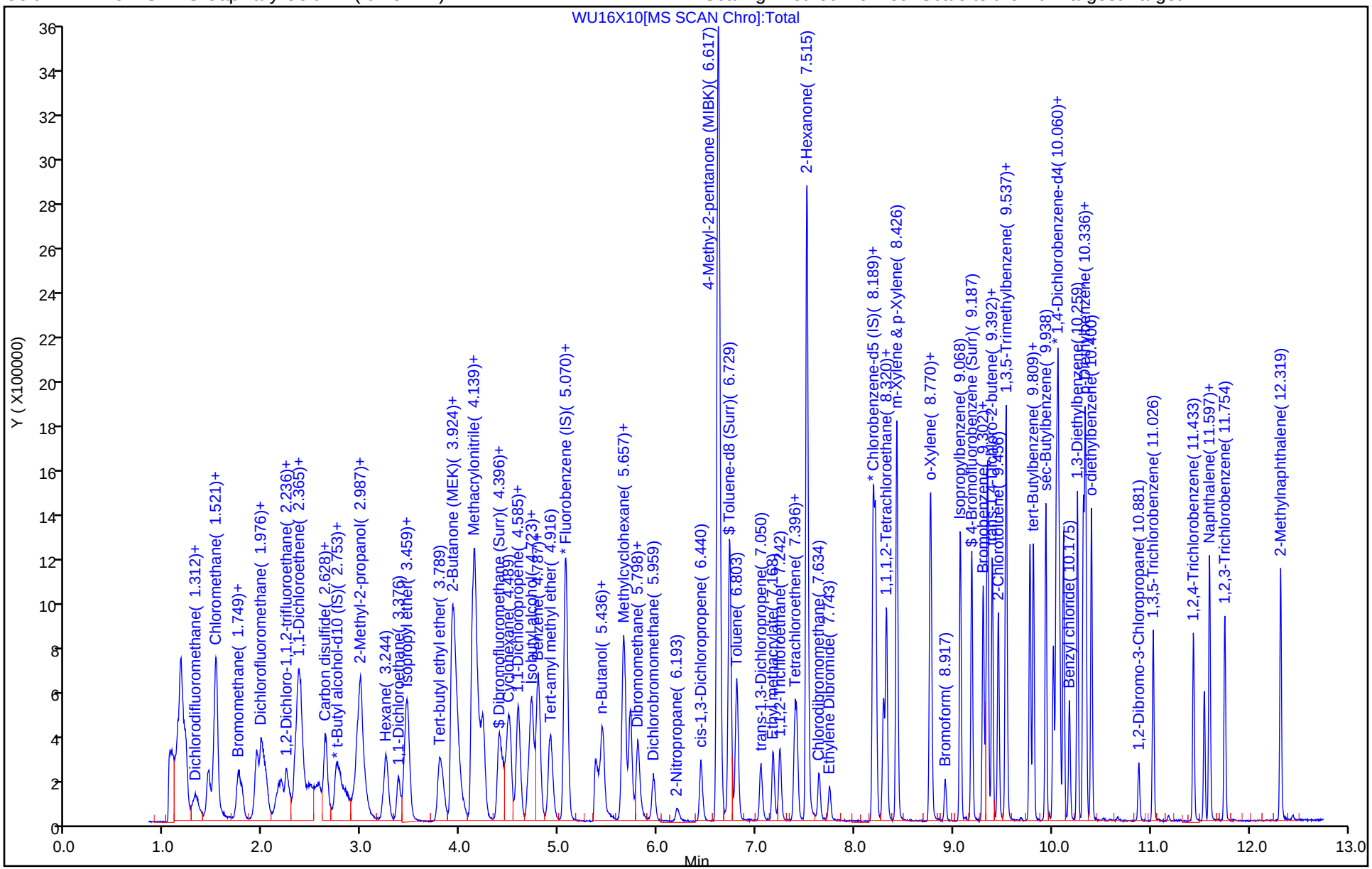
Report Date: 19-Jun-2023 09:51:14 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X10.D

Injection Date:	16-Jun-2023 12:15:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-11 MS			Worklist Smp#:	11
Client ID:	MW-7S-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X10.D
Lims ID: 410-130132-A-11 MS
Client ID: MW-7S-20230608
Sample Type: MS
Inject. Date: 16-Jun-2023 12:15:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-011
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:51:14 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:51:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	50.6	101.27
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	53.4	106.90
$ 82 Toluene-d8 (Surr)	50.0	52.6	105.26
$ 110 4-Bromofluorobenzene (Surr)	50.0	47.4	94.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-7S-20230608 MSD
Lab Sample ID: 410-130132-11 MSD

Matrix: Water
Lab File ID: WU16X11.D

Analysis Method: 8260D
Date Collected: 06/08/2023 12:53

Sample wt/vol: 5(mL)
Date Analyzed: 06/16/2023 12:35

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 387447
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.2		1.0	0.30
100-41-4	Ethylbenzene	19.7		1.0	0.40
108-88-3	Toluene	19.9		1.0	0.30
1330-20-7	Xylenes, Total	58.6		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X11.D
Lims ID: 410-130132-A-11 MSD
Client ID: MW-7S-20230608
Sample Type: MSD
Inject. Date: 16-Jun-2023 12:35:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-012
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Dichlorodifluoromethane	85	1.325	1.319	0.006	98	282793	20.0	21.5	
6 Chloromethane	50	1.457	1.453	0.004	98	344312	20.0	22.4	
8 Vinyl chloride	62	1.524	1.530	-0.006	95	352342	20.0	23.4	
7 Butadiene	39	1.534	1.534	0.000	98	457007	20.0	32.0	
10 Bromomethane	94	1.758	1.758	0.000	90	182791	20.0	21.1	
11 Chloroethane	64	1.790	1.797	-0.007	93	187714	20.0	24.2	
12 Dichlorofluoromethane	67	1.948	1.948	0.000	98	455239	20.0	25.3	
14 Pentane	43	1.993	1.999	-0.006	97	370473	20.0	24.0	
13 Trichlorofluoromethane	101	2.012	2.021	-0.009	70	326523	20.0	20.5	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	2.191	2.185	0.006	93	257895	20.0	24.6	
18 Acrolein	56	2.249	2.249	0.000	98	423805	150.0	169.0	
19 1,1-Dichloroethene	96	2.355	2.352	0.003	58	173651	20.0	22.5	
21 Acetone	58	2.374	2.374	0.000	99	333581	250.0	283.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.384	2.390	-0.006	84	205130	20.0	21.6	
22 Isopropyl alcohol	45	2.480	2.490	-0.010	36	140885	150.0	125.6	
23 Iodomethane	142	2.496	2.490	0.006	98	279463	20.0	20.7	
24 Carbon disulfide	76	2.577	2.573	0.004	100	711618	20.0	27.3	
26 3-Chloro-1-propene	41	2.641	2.641	0.000	88	284745	20.0	21.6	
27 Methyl acetate	43	2.660	2.660	0.000	87	216231	20.0	20.8	
29 Methylene Chloride	84	2.753	2.756	-0.003	97	180211	20.0	20.0	
* 30 t-Butyl alcohol-d10 (IS)	65	2.840	2.791	0.049	89	367088	250.0	250.0	
31 2-Methyl-2-propanol	59	2.913	2.888	0.025	37	353053	200.0	173.7	M
32 Acrylonitrile	53	2.965	2.965	0.000	99	507211	100.0	94.5	
33 trans-1,2-Dichloroethene	96	3.000	3.000	0.000	97	146581	20.0	19.1	
34 Methyl tert-butyl ether	73	2.994	3.006	-0.012	90	514353	20.0	19.9	
35 Hexane	57	3.257	3.257	0.000	97	257485	20.0	20.4	
36 1,1-Dichloroethane	63	3.379	3.382	-0.003	96	279885	20.0	20.5	
38 Isopropyl ether	45	3.449	3.459	-0.010	95	566922	20.0	21.6	
39 2-Chloro-1,3-butadiene	53	3.478	3.469	0.009	93	263360	20.0	20.3	
40 Tert-butyl ethyl ether	59	3.799	3.799	0.000	98	530031	20.0	20.7	
43 2-Butanone (MEK)	43	3.921	3.921	0.000	100	1596562	250.0	237.2	
41 cis-1,2-Dichloroethene	96	3.934	3.934	0.000	83	163654	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2,2-Dichloropropane	77	3.947	3.953	-0.006	88	265583	20.0	19.8	
45 Propionitrile	54	3.992	4.001	-0.009	70	305207	150.0	159.6	
47 Methacrylonitrile	67	4.149	4.142	0.007	93	655114	150.0	135.1	
48 Chlorobromomethane	128	4.155	4.162	-0.007	96	76555	20.0	19.6	
49 Tetrahydrofuran	71	4.203	4.213	-0.010	75	160246	100.0	97.8	
50 Chloroform	83	4.236	4.239	-0.003	94	246832	20.0	19.6	
$ 52 Dibromofluoromethane (Surr)	113	4.399	4.399	0.000	92	278644	50.0	50.7	
53 1,1,1-Trichloroethane	97	4.435	4.438	-0.004	97	267150	20.0	21.0	
54 Cyclohexane	56	4.505	4.502	0.003	94	401936	20.0	22.3	
55 1,1-Dichloropropene	75	4.589	4.588	0.001	92	219221	20.0	20.2	
56 Carbon tetrachloride	117	4.601	4.595	0.006	95	210509	20.0	20.4	
57 Isobutyl alcohol	41	4.710	4.717	-0.007	84	287550	500.0	517.1	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	4.730	4.730	0.000	87	71088	50.0	51.6	
59 Benzene	78	4.797	4.794	0.003	97	620701	20.0	20.2	
60 1,2-Dichloroethane	62	4.810	4.807	0.003	97	193993	20.0	19.3	
62 Tert-amyl methyl ether	73	4.909	4.919	-0.010	96	465662	20.0	19.2	
* 63 Fluorobenzene (IS)	96	5.073	5.076	-0.003	98	1120207	50.0	50.0	
64 n-Heptane	43	5.083	5.083	0.000	94	251589	20.0	20.6	
65 n-Butanol	56	5.378	5.375	0.003	94	385394	1000.0	891.4	
66 Trichloroethene	95	5.452	5.448	0.004	98	141290	20.0	18.3	
68 Methylcyclohexane	83	5.654	5.660	-0.006	95	330090	20.0	19.7	
69 1,2-Dichloropropane	63	5.676	5.673	0.003	87	153787	20.0	19.1	
70 2-ethoxy-2-methyl butane	87	5.721	5.728	-0.007	94	205680	20.0	18.3	
71 Dibromomethane	93	5.789	5.792	-0.003	96	89197	20.0	18.8	
72 1,4-Dioxane	88	5.811	5.805	0.006	36	48391	500.0	416.4	
73 Methyl methacrylate	69	5.811	5.811	0.000	94	112851	20.0	15.9	
75 Dichlorobromomethane	83	5.965	5.962	0.003	98	172761	20.0	19.6	
77 2-Nitropropane	41	6.199	6.203	-0.004	100	47989	20.0	17.5	
78 2-Chloroethyl vinyl ether	63		6.292				ND	ND	U
80 cis-1,3-Dichloropropene	75	6.443	6.446	-0.003	93	182904	20.0	16.0	
81 4-Methyl-2-pentanone (MIBK)	43	6.620	6.620	0.000	99	3430616	250.0	244.7	
$ 82 Toluene-d8 (Surr)	98	6.735	6.735	0.000	94	1053594	50.0	52.9	
83 Toluene	92	6.806	6.806	0.000	97	336635	20.0	19.9	
84 trans-1,3-Dichloropropene	75	7.053	7.050	0.003	97	166576	20.0	17.9	
86 Ethyl methacrylate	69	7.172	7.172	0.000	92	189328	20.0	17.6	
87 1,1,2-Trichloroethane	97	7.246	7.242	0.004	92	114190	20.0	19.4	
89 Tetrachloroethene	166	7.396	7.396	0.000	97	147167	20.0	20.9	
90 1,3-Dichloropropane	76	7.419	7.416	0.003	97	194784	20.0	19.8	
93 2-Hexanone	43	7.515	7.518	-0.003	99	2133140	250.0	259.2	
94 Chlorodibromomethane	129	7.643	7.643	0.000	90	116499	20.0	21.3	
96 Ethylene Dibromide	107	7.746	7.749	-0.003	98	110589	20.0	18.7	
* 97 Chlorobenzene-d5 (IS)	117	8.189	8.189	0.000	89	735944	50.0	50.0	
98 1-Chlorohexane	91	8.211	8.211	0.000	89	170473	20.0	17.6	
99 Chlorobenzene	112	8.215	8.215	0.000	94	334304	20.0	19.5	
100 1,1,1,2-Tetrachloroethane	131	8.288	8.292	-0.004	94	140454	20.0	21.6	
101 Ethylbenzene	91	8.324	8.320	0.004	98	643332	20.0	19.7	
102 m-Xylene & p-Xylene	106	8.426	8.426	0.000	100	486120	40.0	39.4	
104 o-Xylene	106	8.763	8.763	0.000	97	251506	20.0	19.2	
105 Styrene	104	8.776	8.776	0.000	95	350819	20.0	18.2	
106 Bromoform	173	8.917	8.917	0.000	96	79069	20.0	18.2	
107 Isopropylbenzene	105	9.071	9.071	0.000	96	740888	20.0	21.0	
$ 110 4-Bromofluorobenzene (Surr)	95	9.187	9.184	0.003	89	343997	50.0	46.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
111 Bromobenzene	156	9.302	9.299	0.003	95	139452	20.0	18.9	
112 1,1,2,2-Tetrachloroethane	83	9.302	9.302	0.000	94	212022	20.0	18.2	
113 1,2,3-Trichloropropane	110	9.335	9.331	0.003	84	59481	20.0	18.2	
114 trans-1,4-Dichloro-2-butene	53	9.347	9.347	0.000	94	270054	100.0	87.0	
115 N-Propylbenzene	91	9.395	9.395	0.000	99	773480	20.0	19.2	
116 2-Chlorotoluene	126	9.453	9.456	-0.003	96	153135	20.0	19.2	
117 1,3,5-Trimethylbenzene	105	9.530	9.533	-0.003	94	583314	20.0	19.5	
118 4-Chlorotoluene	126	9.540	9.540	0.000	99	137006	20.0	18.4	
120 tert-Butylbenzene	134	9.777	9.777	0.000	94	117990	20.0	20.3	
122 1,2,4-Trimethylbenzene	105	9.809	9.813	-0.004	98	563469	20.0	18.3	
123 sec-Butylbenzene	105	9.938	9.938	0.000	94	762710	20.0	20.3	
161 1,3-Dichlorobenzene	146	10.015	10.015	0.000	98	261171	20.0	17.9	
162 4-Isopropyltoluene	119	10.044	10.044	0.000	97	624061	20.0	19.5	
* 163 1,4-Dichlorobenzene-d4	152	10.060	10.063	-0.003	97	414885	50.0	50.0	
165 1,4-Dichlorobenzene	146	10.079	10.079	0.000	94	275686	20.0	19.5	
166 1,2,3-Trimethylbenzene	105	10.117	10.117	0.000	99	611369	20.0	19.0	
167 Benzyl chloride	91	10.175	10.175	0.000	99	328986	20.0	15.4	
168 1,3-Diethylbenzene	119	10.259	10.259	0.000	96	362393	20.0	18.6	
169 p-Diethylbenzene	119	10.316	10.320	-0.004	93	372340	20.0	19.0	
170 n-Butylbenzene	92	10.336	10.336	0.000	98	301681	20.0	19.1	
171 1,2-Dichlorobenzene	146	10.345	10.345	0.000	96	282871	20.0	18.5	
172 o-diethylbenzene	119	10.403	10.400	0.003	95	312672	20.0	19.7	
173 1,2-Dibromo-3-Chloropropane	75	10.881	10.878	0.003	82	51489	20.0	17.0	
174 1,3,5-Trichlorobenzene	180	11.026	11.026	0.000	97	222193	20.0	19.1	
176 1,2,4-Trichlorobenzene	180	11.433	11.436	-0.003	95	215827	20.0	19.3	
177 Hexachlorobutadiene	225	11.545	11.545	0.000	97	85974	20.0	21.4	
179 Naphthalene	128	11.597	11.597	0.000	97	778575	20.0	18.2	
180 1,2,3-Trichlorobenzene	180	11.754	11.754	0.000	96	240044	20.0	20.4	
181 2-Methylnaphthalene	142	12.316	12.319	-0.003	93	433659	20.0	16.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LCS_2CEVE_00119	Amount Added:	21.50	Units: uL	
MSV_LCS_Gases_00146	Amount Added:	21.50	Units: uL	
MSV_LCS_ACROL_00117	Amount Added:	21.50	Units: uL	
MSV_LCS_VOC#1_00113	Amount Added:	21.50	Units: uL	
MSV_Cent_ISSS_00020	Amount Added:	5.00	Units: uL	Run Reagent

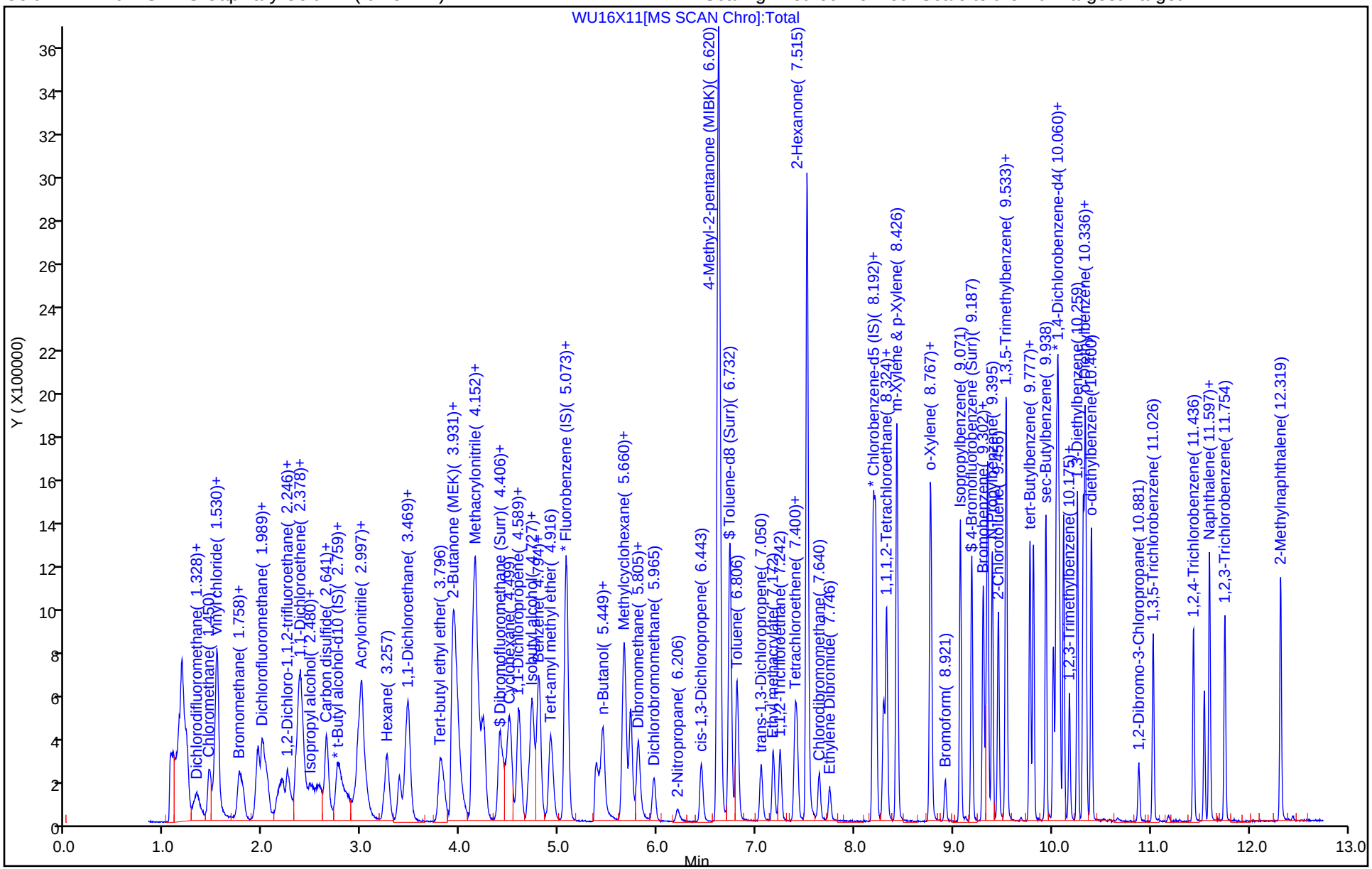
Report Date: 19-Jun-2023 09:52:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X11.D

Injection Date:	16-Jun-2023 12:35:30	Instrument ID:	9137	Operator ID:	lcp00895
Lims ID:	410-130132-A-11 MSD			Worklist Smp#:	12
Client ID:	MW-7S-20230608				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_9137	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\WU16X11.D
Lims ID: 410-130132-A-11 MSD
Client ID: MW-7S-20230608
Sample Type: MSD
Inject. Date: 16-Jun-2023 12:35:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0086790-012
Operator ID: lcp00895 Instrument ID: 9137

Method: \\chromfs\Lancaster\ChromData\9137\20230616-86790.b\MSVoa_9137.m
Limit Group: MSV - 8260C_D
Last Update: 19-Jun-2023 09:52:20 Calib Date: 08-Mar-2023 21:27:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9137\20230308-78550.b\WM08X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1679

First Level Reviewer: innoonk Date: 19-Jun-2023 09:52:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	50.7	101.39
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.6	103.26
$ 82 Toluene-d8 (Surr)	50.0	52.9	105.88
$ 110 4-Bromofluorobenzene (Surr)	50.0	46.8	93.66

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: 9137 Start Date: 03/08/2023 16:08

Analysis Batch Number: 351482 End Date: 03/08/2023 23:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-351482/1		03/08/2023 16:08	1	WM08T01.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/3		03/08/2023 16:50	1	Copy_WM08X03.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/4		03/08/2023 17:10	1	WM08X04.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/5		03/08/2023 17:30	1	WM08X05.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/6		03/08/2023 17:49	1	WM08X06.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/7		03/08/2023 18:09	1	WM08X07.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/8		03/08/2023 18:29	1	WM08X08.D	R-624SilMS 30m 0.25(mm)
ICV 410-351482/9		03/08/2023 18:49	1		R-624SilMS 30m 0.25(mm)
IC 410-351482/11		03/08/2023 19:28	1	WM08X11.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/12		03/08/2023 19:48	1	WM08X12.D	R-624SilMS 30m 0.25(mm)
ICIS 410-351482/13		03/08/2023 20:08	1	WM08X13.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/14		03/08/2023 20:27	1	WM08X14.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/15		03/08/2023 20:47	1	WM08X15.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/16		03/08/2023 21:07	1	WM08X16.D	R-624SilMS 30m 0.25(mm)
IC 410-351482/17		03/08/2023 21:27	1	WM08X17.D	R-624SilMS 30m 0.25(mm)
ICV 410-351482/19		03/08/2023 22:07	1	WM08X19.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/08/2023 22:46	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/08/2023 23:06	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/08/2023 23:25	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: 9137 Start Date: 06/16/2023 07:38

Analysis Batch Number: 387447 End Date: 06/16/2023 18:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-387447/1		06/16/2023 07:38	1	WU16T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-387447/3		06/16/2023 09:36	1	WU16X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-387447/4		06/16/2023 09:56	1	WU16X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		06/16/2023 10:16	1		R-624SilMS 30m 0.25(mm)
MB 410-387447/6		06/16/2023 10:36	1	WU16X05.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		06/16/2023 10:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		06/16/2023 11:15	1		R-624SilMS 30m 0.25(mm)
410-130132-15	TB-20230608	06/16/2023 11:35	1	WU16X08.D	R-624SilMS 30m 0.25(mm)
410-130132-11	MW-7S-20230608	06/16/2023 11:55	1	WU16X09.D	R-624SilMS 30m 0.25(mm)
410-130132-11 MS	MW-7S-20230608 MS	06/16/2023 12:15	1	WU16X10.D	R-624SilMS 30m 0.25(mm)
410-130132-11 MSD	MW-7S-20230608 MSD	06/16/2023 12:35	1	WU16X11.D	R-624SilMS 30m 0.25(mm)
410-130132-1	MW-8S-20230607	06/16/2023 12:55	1	WU16X12.D	R-624SilMS 30m 0.25(mm)
410-130132-2	MW-12S-20230607	06/16/2023 13:15	1	WU16X13.D	R-624SilMS 30m 0.25(mm)
410-130132-3	MW-12D-20230607	06/16/2023 13:34	1	WU16X14.D	R-624SilMS 30m 0.25(mm)
410-130132-4	MW-11S-20230607	06/16/2023 13:54	1	WU16X15.D	R-624SilMS 30m 0.25(mm)
410-130132-5	MW-3-20230607	06/16/2023 14:14	1	WU16X16.D	R-624SilMS 30m 0.25(mm)
410-130132-6	DUP-20230607	06/16/2023 14:34	1	WU16X17.D	R-624SilMS 30m 0.25(mm)
410-130132-7	MW-13S-20230608	06/16/2023 14:53	1	WU16X18.D	R-624SilMS 30m 0.25(mm)
410-130132-8	MW-13D-20230608	06/16/2023 15:13	1	WU16X19.D	R-624SilMS 30m 0.25(mm)
410-130132-9	MW-1-20230608	06/16/2023 15:32	1	WU16X20.D	R-624SilMS 30m 0.25(mm)
410-130132-10	MW-4S-20230608	06/16/2023 15:52	1	WU16X21.D	R-624SilMS 30m 0.25(mm)
410-130132-12	MW-10S-20230608	06/16/2023 16:12	1	WU16X22.D	R-624SilMS 30m 0.25(mm)
410-130132-13	MW-14S-20230608	06/16/2023 16:32	1	WU16X23.D	R-624SilMS 30m 0.25(mm)
410-130132-14	FB-20230608	06/16/2023 16:51	1	WU16X24.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		06/16/2023 17:11	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		06/16/2023 17:31	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		06/16/2023 17:51	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		06/16/2023 18:10	10		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130132-1

SDG No.:

Batch Number: 351482 | Batch Start Date: 03/08/23 16:08 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEtoh 00510	MSV_CCV_2CEVE 00110	MSV_CCV_CYC 00005
BFB 410-351482/1		8260D		1 uL	1 uL				
IC 410-351482/3		8260D		5 mL	5 mL	2672			
IC 410-351482/4		8260D		5 mL	5 mL	2672			
IC 410-351482/5		8260D		5 mL	5 mL	2672			
IC 410-351482/6		8260D		5 mL	5 mL	2672			
IC 410-351482/7		8260D		5 mL	5 mL	2672			
IC 410-351482/8		8260D		5 mL	5 mL	2672			
IC 410-351482/11		8260D		5 mL	5 mL	2672		15 uL	30 uL
IC 410-351482/12		8260D		5 mL	5 mL	2672		5 uL	10 uL
ICIS 410-351482/13		8260D		5 mL	5 mL	2672		5 uL	10 uL
IC 410-351482/14		8260D		5 mL	5 mL	2672		4 uL	16 uL
IC 410-351482/15		8260D		5 mL	5 mL	2672		2 uL	8 uL
IC 410-351482/16		8260D		5 mL	5 mL	2672		4 uL	32 uL
IC 410-351482/17		8260D		5 mL	5 mL	2672	12.5 mL		
ICV 410-351482/19		8260D		5 mL	5 mL	2672			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_EE 00004	MSV_CCV_ETOH 00003	MSV_CCV_GASES 00411	MSV_CCV_LKB 00005	MSV_CCV_OH_Sp 00001	MSV_CCV_Penta 00030
BFB 410-351482/1		8260D							
IC 410-351482/3		8260D		15 uL			15 uL	15 uL	15 uL
IC 410-351482/4		8260D		5 uL			5 uL	5 uL	5 uL
IC 410-351482/5		8260D		5 uL			5 uL	5 uL	5 uL
IC 410-351482/6		8260D		4 uL			4 uL	4 uL	4 uL
IC 410-351482/7		8260D		2 uL			2 uL	2 uL	2 uL
IC 410-351482/8		8260D		4 uL			4 uL	4 uL	4 uL
IC 410-351482/11		8260D			30 uL	7.5 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 Lancaster Laboratories | Job No.: 410-130132-1

SDG No.:

Batch Number: 351482 | Batch Start Date: 03/08/23 16:08 | Batch Analyst: Kephart, Kayla

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_EE 00004	MSV_CCV_ETOH 00003	MSV_CCV_GASES 00411	MSV_CCV_LKB 00005	MSV_CCV_OH_Sp 00001	MSV_CCV_Penta 00030
IC 410-351482/12		8260D			10 uL	2.5 uL			
ICIS 410-351482/13		8260D			10 uL	2.5 uL			
IC 410-351482/14		8260D			16 uL	2 uL			
IC 410-351482/15		8260D			8 uL	1 uL			
IC 410-351482/16		8260D			20 uL	2 uL			
IC 410-351482/17		8260D							
ICV 410-351482/19		8260D							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_V5ACE 00022	MSV_CCV_VOC#1 00114	MSV_CCV_VOC#3 00115	MSV_Cent_IS_O 00009	MSV_Cent_ISSS 00016	MSV_LCS_2CEVE 00104
BFB 410-351482/1		8260D							
IC 410-351482/3		8260D		15 uL			5 uL		
IC 410-351482/4		8260D		5 uL			5 uL		
IC 410-351482/5		8260D		5 uL			5 uL		
IC 410-351482/6		8260D		4 uL			5 uL		
IC 410-351482/7		8260D		2 uL			5 uL		
IC 410-351482/8		8260D		4 uL			5 uL		
IC 410-351482/11		8260D			15 uL	12 uL		5 uL	
IC 410-351482/12		8260D			5 uL	4 uL		5 uL	
ICIS 410-351482/13		8260D			5 uL	4 uL		5 uL	
IC 410-351482/14		8260D			4 uL	3.2 uL		5 uL	
IC 410-351482/15		8260D			2 uL	1.6 uL		5 uL	
IC 410-351482/16		8260D			4 uL	3.2 uL		5 uL	
IC 410-351482/17		8260D						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 Lancaster Laboratories Job No.: 410-130132-1

SDG No.:

Batch Number: 351482 Batch Start Date: 03/08/23 16:08 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_V5ACE 00022	MSV_CCV_VOC#1 00114	MSV_CCV_VOC#3 00115	MSV_Cent_IS_O 00009	MSV_Cent_ISSS 00016	MSV_LCS_2CEVE 00104
ICV 410-351482/19		8260D						5 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00101	MSV_LCS_CYC 00003	MSV_LCS_ETOH 00003	MSV_LCS_Gases 00132	MSV_LCS_VOC#1 00099	MSV_V_BFB 00011
BFB 410-351482/1		8260D							1 uL
IC 410-351482/3		8260D							
IC 410-351482/4		8260D							
IC 410-351482/5		8260D							
IC 410-351482/6		8260D							
IC 410-351482/7		8260D							
IC 410-351482/8		8260D							
IC 410-351482/11		8260D							
IC 410-351482/12		8260D							
ICIS 410-351482/13		8260D							
IC 410-351482/14		8260D							
IC 410-351482/15		8260D							
IC 410-351482/16		8260D							
IC 410-351482/17		8260D							
ICV 410-351482/19		8260D		50 uL	50 uL	50 uL	50 uL	50 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_SMFreon 00026					
BFB 410-351482/1		8260D							
IC 410-351482/3		8260D		7.5 uL					
IC 410-351482/4		8260D		2.5 uL					
IC 410-351482/5		8260D		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 Lancaster Laboratories Job No.: 410-130132-1

SDG No.:

Batch Number: 351482 Batch Start Date: 03/08/23 16:08 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_SMFreon 00026					
IC 410-351482/6		8260D		2 uL					
IC 410-351482/7		8260D		1 uL					
IC 410-351482/8		8260D		2 uL					
IC 410-351482/11		8260D							
IC 410-351482/12		8260D							
ICIS 410-351482/13		8260D							
IC 410-351482/14		8260D							
IC 410-351482/15		8260D							
IC 410-351482/16		8260D							
IC 410-351482/17		8260D							
ICV 410-351482/19		8260D							

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 Lancaster Laboratories | Job No.: 410-130132-1

SDG No.:

Batch Number: 387447 | Batch Start Date: 06/16/23 07:38 | Batch Analyst: Pape, Linda C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-387447/1		8260D		1 uL	1 uL				
CCVIS 410-387447/3		8260D		5 mL	5 mL				2692
LCS 410-387447/4		8260D		5 mL	5 mL				2692
MB 410-387447/6		8260D		5 mL	5 mL				2692
410-130132-A-15	TB-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-11	MW-7S-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-11 MS	MW-7S-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-11 MSD	MW-7S-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-1	MW-8S-20230607	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-2	MW-12S-20230607	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-3	MW-12D-20230607	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-4	MW-11S-20230607	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-5	MW-3-20230607	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-6	DUP-20230607	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-7	MW-13S-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-8	MW-13D-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-9	MW-1-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-10	MW-4S-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-12	MW-10S-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-13	MW-14S-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	
410-130132-A-14	FB-20230608	8260D	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00124	MSV_CCV_GASES 00494	MSV_CCV_VOC#1 00129	MSV_CCV_VOC#3 00129	MSV_Cent_ISSS 00020	MSV_LCS_2CEVE 00119
BFB 410-387447/1		8260D							
CCVIS 410-387447/3		8260D		5 uL	2.5 uL	5 uL	4 uL	5 uL	
LCS 410-387447/4		8260D						5 uL	50 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 Lancaster Laboratories Job No.: 410-130132-1

SDG No.:

Batch Number: 387447 Batch Start Date: 06/16/23 07:38 Batch Analyst: Pape, Linda C

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00124	MSV_CCV_GASES 00494	MSV_CCV_VOC#1 00129	MSV_CCV_VOC#3 00129	MSV_Cent_ISSS 00020	MSV_LCS_2CEVE 00119
MB 410-387447/6		8260D						5 uL	
410-130132-A-15	TB-20230608	8260D	T					5 uL	
410-130132-A-11	MW-7S-20230608	8260D	T					5 uL	
410-130132-A-11 MS	MW-7S-20230608	8260D	T					5 uL	21.5 uL
410-130132-A-11 MSD	MW-7S-20230608	8260D	T					5 uL	21.5 uL
410-130132-A-1	MW-8S-20230607	8260D	T					5 uL	
410-130132-A-2	MW-12S-20230607	8260D	T					5 uL	
410-130132-A-3	MW-12D-20230607	8260D	T					5 uL	
410-130132-A-4	MW-11S-20230607	8260D	T					5 uL	
410-130132-A-5	MW-3-20230607	8260D	T					5 uL	
410-130132-A-6	DUP-20230607	8260D	T					5 uL	
410-130132-A-7	MW-13S-20230608	8260D	T					5 uL	
410-130132-A-8	MW-13D-20230608	8260D	T					5 uL	
410-130132-A-9	MW-1-20230608	8260D	T					5 uL	
410-130132-A-10	MW-4S-20230608	8260D	T					5 uL	
410-130132-A-12	MW-10S-20230608	8260D	T					5 uL	
410-130132-A-13	MW-14S-20230608	8260D	T					5 uL	
410-130132-A-14	FB-20230608	8260D	T					5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00117	MSV_LCS_Gases 00146	MSV_LCS_VOC#1 00113	MSV_V_BFB 00011		
BFB 410-387447/1		8260D					1 uL		
CCVIS 410-387447/3		8260D							
LCS 410-387447/4		8260D		50 uL	50 uL	50 uL			
MB 410-387447/6		8260D							
410-130132-A-15	TB-20230608	8260D	T						
410-130132-A-11	MW-7S-20230608	8260D	T						
410-130132-A-11 MS	MW-7S-20230608	8260D	T	21.5 uL	21.5 uL	21.5 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 Lancaster Laboratories | Job No.: 410-130132-1

SDG No.:

Batch Number: 387447 | Batch Start Date: 06/16/23 07:38 | Batch Analyst: Pape, Linda C

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00117	MSV_LCS_Gases 00146	MSV_LCS_VOC#1 00113	MSV_V_BFB 00011		
410-130132-A-11 MSD	MW-7S-20230608	8260D	T	21.5 uL	21.5 uL	21.5 uL			
410-130132-A-1	MW-8S-20230607	8260D	T						
410-130132-A-2	MW-12S-20230607	8260D	T						
410-130132-A-3	MW-12D-20230607	8260D	T						
410-130132-A-4	MW-11S-20230607	8260D	T						
410-130132-A-5	MW-3-20230607	8260D	T						
410-130132-A-6	DUP-20230607	8260D	T						
410-130132-A-7	MW-13S-20230608	8260D	T						
410-130132-A-8	MW-13D-20230608	8260D	T						
410-130132-A-9	MW-1-20230608	8260D	T						
410-130132-A-10	MW-4S-20230608	8260D	T						
410-130132-A-12	MW-10S-20230608	8260D	T						
410-130132-A-13	MW-14S-20230608	8260D	T						
410-130132-A-14	FB-20230608	8260D	T						

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.

Method 8270E SIM

Semivolatile Organic Compounds (GC/MS SIM) by Method 8270E

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m 0 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
MW-8S-20230607	410-130132-1	82	90	82
MW-12S-20230607	410-130132-2	72	79	45
MW-12D-20230607	410-130132-3	75	78	44
MW-11S-20230607	410-130132-4	81	73	82
MW-11S-20230607 DL	410-130132-4 DL	82	88	84
MW-3-20230607	410-130132-5	74	76	91
MW-3-20230607 DL	410-130132-5 DL	75	88	82
MW-3-20230607 DL2	410-130132-5 DL2	91	108	85
DUP-20230607	410-130132-6	77	83	43
MW-13S-20230608	410-130132-7	68	73	51
MW-13D-20230608	410-130132-8	54	56	44
MW-1-20230608	410-130132-9	76	82	68
MW-4S-20230608	410-130132-10	78	85	76
MW-7S-20230608	410-130132-11	77	80	63
MW-10S-20230608	410-130132-12	80	85	78
MW-14S-20230608	410-130132-13	76	84	63
FB-20230608	410-130132-14	69	79	79
	MB 410-386349/1-A	76	81	81
	MB 410-386902/1-A	72	85	83
	LCS 410-386349/2-A	78	81	85
	LCS 410-386902/2-A	77	82	84
	LCSD 410-386349/3-A	82	91	94
MW-7S-20230608 MS	410-130132-11 MS	76	78	62
MW-7S-20230608 MSD	410-130132-11 MSD	65	68	63

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	33-120
FLN10 = Fluoranthene-d10 (Surr)	43-124
BAPd12 = Benzo(a)pyrene-d12 (Surr)	17-120

Column to be used to flag recovery values

FORM II 8270E SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MF1073.D

Lab ID: LCS 410-386349/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.756	76	42-120	
Acenaphthylene	1.00	0.825	82	41-120	
Anthracene	1.00	0.857	86	48-124	
Benzo[a]anthracene	1.00	0.840	84	50-129	
Benzo[a]pyrene	1.00	0.873	87	49-120	
Benzo[b]fluoranthene	1.00	0.888	89	47-131	
Benzo[g,h,i]perylene	1.00	0.821	82	40-132	
Benzo[k]fluoranthene	1.00	0.883	88	50-128	
Chrysene	1.00	0.768	77	47-121	
Dibenz(a,h)anthracene	1.00	0.791	79	38-136	
Fluoranthene	1.00	0.832	83	47-129	
Fluorene	1.00	0.783	78	46-120	
Indeno[1,2,3-cd]pyrene	1.00	0.849	85	35-144	
Naphthalene	1.00	0.792	79	28-120	
Phenanthrene	1.00	0.795	79	48-121	
Pyrene	1.00	0.742	74	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270E SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MF1153.D

Lab ID: LCS 410-386902/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.818	82	42-120	
Acenaphthylene	1.00	0.873	87	41-120	
Anthracene	1.00	0.901	90	48-124	
Benzo[a]anthracene	1.00	0.865	86	50-129	
Benzo[a]pyrene	1.00	0.914	91	49-120	
Benzo[b]fluoranthene	1.00	0.895	89	47-131	
Benzo[g,h,i]perylene	1.00	0.799	80	40-132	
Benzo[k]fluoranthene	1.00	0.912	91	50-128	
Chrysene	1.00	0.805	80	47-121	
Dibenz(a,h)anthracene	1.00	0.836	84	38-136	
Fluoranthene	1.00	0.877	88	47-129	
Fluorene	1.00	0.866	87	46-120	
Indeno[1,2,3-cd]pyrene	1.00	0.849	85	35-144	
Naphthalene	1.00	0.862	86	28-120	
Phenanthrene	1.00	0.840	84	48-121	
Pyrene	1.00	0.810	81	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270E SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MF1074.D

Lab ID: LCSD 410-386349/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.00	0.811	81	7	30	42-120	
Acenaphthylene	1.00	0.896	90	8	30	41-120	
Anthracene	1.00	0.972	97	13	30	48-124	
Benzo[a]anthracene	1.00	0.944	94	12	30	50-129	
Benzo[a]pyrene	1.00	0.981	98	12	30	49-120	
Benzo[b]fluoranthene	1.00	0.995	99	11	30	47-131	
Benzo[g,h,i]perylene	1.00	0.877	88	7	30	40-132	
Benzo[k]fluoranthene	1.00	0.976	98	10	30	50-128	
Chrysene	1.00	0.844	84	9	30	47-121	
Dibenz(a,h)anthracene	1.00	0.864	86	9	30	38-136	
Fluoranthene	1.00	0.949	95	13	30	47-129	
Fluorene	1.00	0.869	87	10	30	46-120	
Indeno[1,2,3-cd]pyrene	1.00	0.881	88	4	30	35-144	
Naphthalene	1.00	0.870	87	9	30	28-120	
Phenanthrene	1.00	0.898	90	12	30	48-121	
Pyrene	1.00	0.819	82	10	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270E SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MF1170.D

Lab ID: 410-130132-11 MS Client ID: MW-7S-20230608 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	1.04	0.11	0.902	76	42-120	
Acenaphthylene	1.04	ND	0.914	88	41-120	
Anthracene	1.04	0.021 J	0.963	90	48-124	
Benzo[a]anthracene	1.04	ND	0.843	81	50-129	
Benzo[a]pyrene	1.04	ND	0.691	66	49-120	
Benzo[b]fluoranthene	1.04	ND	0.733	70	47-131	
Benzo[g,h,i]perylene	1.04	ND	0.541	52	40-132	
Benzo[k]fluoranthene	1.04	ND	0.742	71	50-128	
Chrysene	1.04	ND	0.691	66	47-121	
Dibenz(a,h)anthracene	1.04	ND	0.624	60	38-136	
Fluoranthene	1.04	ND	0.893	86	47-129	
Fluorene	1.04	0.036 J	0.838	77	46-120	
Indeno[1,2,3-cd]pyrene	1.04	ND	0.603	58	35-144	
Naphthalene	1.04	0.12	0.962	81	28-120	
Phenanthrene	1.04	ND	0.837	80	48-121	
Pyrene	1.04	ND	0.828	79	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270E SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MF1171.D

Lab ID: 410-130132-11 MSD Client ID: MW-7S-20230608 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.04	0.771	63	16	30	42-120	
Acenaphthylene	1.04	0.760	73	18	30	41-120	
Anthracene	1.04	0.832	78	15	30	48-124	
Benzo[a]anthracene	1.04	0.770	74	9	30	50-129	
Benzo[a]pyrene	1.04	0.710	68	3	30	49-120	
Benzo[b]fluoranthene	1.04	0.781	75	6	30	47-131	
Benzo[g,h,i]perylene	1.04	0.578	56	7	30	40-132	
Benzo[k]fluoranthene	1.04	0.785	75	6	30	50-128	
Chrysene	1.04	0.655	63	5	30	47-121	
Dibenz(a,h)anthracene	1.04	0.676	65	8	30	38-136	
Fluoranthene	1.04	0.770	74	15	30	47-129	
Fluorene	1.04	0.724	66	15	30	46-120	
Indeno[1,2,3-cd]pyrene	1.04	0.709	68	16	30	35-144	
Naphthalene	1.04	0.821	67	16	30	28-120	
Phenanthrene	1.04	0.714	69	16	30	48-121	
Pyrene	1.04	0.709	68	16	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270E SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: MF1072.D Lab Sample ID: MB 410-386349/1-A

Matrix: Water Date Extracted: 06/14/2023 08:02

Instrument ID: HP21585 Date Analyzed: 06/15/2023 06:21

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-386349/2-A	MF1073.D	06/15/2023 06:43
	LCSD 410-386349/3-A	MF1074.D	06/15/2023 07:04
MW-8S-20230607	410-130132-1	MF1092.D	06/15/2023 13:52
MW-12S-20230607	410-130132-2	MF1093.D	06/15/2023 14:13
MW-12D-20230607	410-130132-3	MF1094.D	06/15/2023 14:34
MW-11S-20230607	410-130132-4	MF1095.D	06/15/2023 14:56
MW-3-20230607	410-130132-5	MF1096.D	06/15/2023 15:17
DUP-20230607	410-130132-6	MF1097.D	06/15/2023 15:39
MW-11S-20230607 DL	410-130132-4 DL	MF1167.D	06/16/2023 11:07
MW-3-20230607 DL	410-130132-5 DL	MF1168.D	06/16/2023 11:28
MW-3-20230607 DL2	410-130132-5 DL2	NF1061.D	06/19/2023 16:30

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: MF1152.D Lab Sample ID: MB 410-386902/1-A

Matrix: Water Date Extracted: 06/15/2023 08:12

Instrument ID: HP21585 Date Analyzed: 06/16/2023 05:45

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-386902/2-A	MF1153.D	06/16/2023 06:07
MW-7S-20230608	410-130132-11	MF1169.D	06/16/2023 11:50
MW-7S-20230608 MS	410-130132-11 MS	MF1170.D	06/16/2023 12:11
MW-7S-20230608 MSD	410-130132-11 MSD	MF1171.D	06/16/2023 12:32
MW-13S-20230608	410-130132-7	MF1172.D	06/16/2023 12:54
MW-13D-20230608	410-130132-8	MF1173.D	06/16/2023 13:15
MW-1-20230608	410-130132-9	MF1174.D	06/16/2023 13:37
MW-4S-20230608	410-130132-10	MF1175.D	06/16/2023 13:58
MW-10S-20230608	410-130132-12	MF1176.D	06/16/2023 14:20
MW-14S-20230608	410-130132-13	MF1177.D	06/16/2023 14:41
FB-20230608	410-130132-14	MF1178.D	06/16/2023 15:03

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: MD0950.D DFTPP Injection Date: 04/25/2023

Instrument ID: HP21585 DFTPP Injection Time: 05:46

Analysis Batch No.: 368078

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	35.2	
68	Less than 2% of mass 69	0.7	(1.7) 1
69	Mass 69 Relative abundance	38.8	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	47.6	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	28.6	
365	Greater than 1% of mass 198	3.9	
441	present but less than 24% of mass 442	17.6	(15.9) 2
442	Greater than 50% of mass 198	111.0	
443	15-24% of mass 442	21.5	(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
	ICIS 410-368078/2	MD0951.D	04/25/2023	6:05
	IC 410-368078/3	MD0952.D	04/25/2023	6:46
	IC 410-368078/4	MD0953.D	04/25/2023	7:07
	IC 410-368078/5	MD0954.D	04/25/2023	7:28
	IC 410-368078/6	MD0955.D	04/25/2023	7:49
	IC 410-368078/7	MD0956.D	04/25/2023	8:11
	ICV 410-368078/9	MD0958.D	04/25/2023	8:53

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: MD1050.D DFTPP Injection Date: 04/27/2023

Instrument ID: HP21585 DFTPP Injection Time: 03:16

Analysis Batch No.: 369143

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	35.7	
68	Less than 2% of mass 69	0.5	(1.4) 1
69	Mass 69 Relative abundance	39.0	
70	Less than 2% of mass 69	0.3	(0.7) 1
127	10-80% of Base Peak	47.1	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.5	
275	10-60% of Base Peak	29.7	
365	Greater than 1% of mass 198	3.6	
441	present but less than 24% of mass 442	17.3	(15.3) 2
442	Greater than 50% of mass 198	112.5	
443	15-24% of mass 442	21.4	(19.0) 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
	ICV 410-369143/3	MD1052.D	04/27/2023	4:35

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: MF1070.D DFTPP Injection Date: 06/15/2023

Instrument ID: HP21585 DFTPP Injection Time: 05:32

Analysis Batch No.: 386832

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	71.8	
68	Less than 2% of mass 69	1.2	(1.9) 1
69	Mass 69 Relative abundance	63.2	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	64.6	
197	Less than 2% of mass 198	1.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.4	
275	10-60% of Base Peak	26.8	
365	Greater than 1% of mass 198	3.4	
441	present but less than 24% of mass 442	15.6	(16.5) 2
442	Greater than 50% of mass 198	94.5	
443	15-24% of mass 442	18.8	(19.9) 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
	CCVIS 410-386832/2	MF1071.D	06/15/2023	5:48
	MB 410-386349/1-A	MF1072.D	06/15/2023	6:21
	LCS 410-386349/2-A	MF1073.D	06/15/2023	6:43
	LCSD 410-386349/3-A	MF1074.D	06/15/2023	7:04
MW-8S-20230607	410-130132-1	MF1092.D	06/15/2023	13:52
MW-12S-20230607	410-130132-2	MF1093.D	06/15/2023	14:13
MW-12D-20230607	410-130132-3	MF1094.D	06/15/2023	14:34
MW-11S-20230607	410-130132-4	MF1095.D	06/15/2023	14:56
MW-3-20230607	410-130132-5	MF1096.D	06/15/2023	15:17
DUP-20230607	410-130132-6	MF1097.D	06/15/2023	15:39

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: MF1150.D DFTPP Injection Date: 06/16/2023

Instrument ID: HP21585 DFTPP Injection Time: 04:29

Analysis Batch No.: 387377

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	64.8	
68	Less than 2% of mass 69	1.0	(1.6) 1
69	Mass 69 Relative abundance	60.9	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	60.5	
197	Less than 2% of mass 198	1.1	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	27.8	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	16.7	(16.5) 2
442	Greater than 50% of mass 198	101.1	
443	15-24% of mass 442	19.6	(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
	CCVIS 410-387377/2	MF1151.D	06/16/2023	4:50
	MB 410-386902/1-A	MF1152.D	06/16/2023	5:45
	LCS 410-386902/2-A	MF1153.D	06/16/2023	6:07
MW-11S-20230607 DL	410-130132-4 DL	MF1167.D	06/16/2023	11:07
MW-3-20230607 DL	410-130132-5 DL	MF1168.D	06/16/2023	11:28
MW-7S-20230608	410-130132-11	MF1169.D	06/16/2023	11:50
MW-7S-20230608 MS	410-130132-11 MS	MF1170.D	06/16/2023	12:11
MW-7S-20230608 MSD	410-130132-11 MSD	MF1171.D	06/16/2023	12:32
MW-13S-20230608	410-130132-7	MF1172.D	06/16/2023	12:54
MW-13D-20230608	410-130132-8	MF1173.D	06/16/2023	13:15
MW-1-20230608	410-130132-9	MF1174.D	06/16/2023	13:37
MW-4S-20230608	410-130132-10	MF1175.D	06/16/2023	13:58
MW-10S-20230608	410-130132-12	MF1176.D	06/16/2023	14:20
MW-14S-20230608	410-130132-13	MF1177.D	06/16/2023	14:41
FB-20230608	410-130132-14	MF1178.D	06/16/2023	15:03

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: NB0450a.D DFTPP Injection Date: 02/21/2023

Instrument ID: HP23263 DFTPP Injection Time: 22:31

Analysis Batch No.: 346701

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	78.2	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	78.5	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	62.5	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.1	
275	10-60% of Base Peak	26.3	
365	Greater than 1% of mass 198	3.4	
441	present but less than 24% of mass 442	11.8	(16.3) 2
442	Greater than 50% of mass 198	72.7	
443	15-24% of mass 442	14.5	(20.0) 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
	ICIS 410-346701/2	NB0451a.D	02/21/2023	22:48
	IC 410-346701/3	NB0452.D	02/21/2023	23:35
	IC 410-346701/4	NB0453.D	02/21/2023	23:57
	IC 410-346701/5	NB0454.D	02/22/2023	0:19
	IC 410-346701/6	NB0455.D	02/22/2023	0:40
	IC 410-346701/7	NB0456.D	02/22/2023	1:02
	ICV 410-346701/9	NB0458.D	02/22/2023	1:46

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Lab File ID: NF1050.D DFTPP Injection Date: 06/19/2023

Instrument ID: HP23263 DFTPP Injection Time: 11:55

Analysis Batch No.: 388200

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	43.6	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	51.4	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	53.5	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	29.6	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	18.3	(16.0) 2
442	Greater than 50% of mass 198	114.3	
443	15-24% of mass 442	22.5	(19.7) 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
	CCVIS 410-388200/2	NF1051.D	06/19/2023	12:18
MW-3-20230607 DL2	410-130132-5 DL2	NF1061.D	06/19/2023	16:30

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: ICIS 410-368078/2 Date Analyzed: 04/25/2023 06:05

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0951.D Heated Purge: (Y/N) N

Calibration ID: 49555

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		51750	4.51	179639	5.72	99410	7.39
UPPER LIMIT		103500	5.01	359278	6.22	198820	7.89
LOWER LIMIT		25875	4.01	89820	5.22	49705	6.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-368078/9		53176	4.51	180588	5.72	101771	7.39
ICV 410-369143/3		56347	4.51	191016	5.72	107749	7.39
CCVIS 410-386832/2		70103	4.48	243070	5.69	157566	7.36
CCVIS 410-387377/2		78084	4.48	274252	5.69	165069	7.36

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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: ICIS 410-368078/2 Date Analyzed: 04/25/2023 06:05

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0951.D Heated Purge: (Y/N) N

Calibration ID: 49555

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		191334	8.79	180257	11.41	193506	13.30
UPPER LIMIT		382668	9.29	360514	11.91	387012	13.80
LOWER LIMIT		95667	8.29	90129	10.91	96753	12.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-368078/9		205679	8.79	184574	11.41	178648	13.29
ICV 410-369143/3		214787	8.79	191413	11.41	185770	13.30
CCVIS 410-386832/2		320601	8.76	326140	11.37	352187	13.24
CCVIS 410-387377/2		328438	8.76	338123	11.37	380902	13.24

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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-386832/2 Date Analyzed: 06/15/2023 05:48

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF1071.D Heated Purge: (Y/N) N

Calibration ID: 49555

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		70103	4.48	243070	5.69	157566	7.36
UPPER LIMIT		140206	4.98	486140	6.19	315132	7.86
LOWER LIMIT		35052	3.98	121535	5.19	78783	6.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-386349/1-A		57725	4.48	202013	5.69	119727	7.36
LCS 410-386349/2-A		52685	4.48	185432	5.69	116641	7.36
LCSD 410-386349/3-A		53665	4.47	189688	5.69	120189	7.36
410-130132-1	MW-8S-20230607	57860	4.47	198752	5.69	118996	7.36
410-130132-2	MW-12S-20230607	60298	4.48	207311	5.69	125422	7.36
410-130132-3	MW-12D-20230607	61129	4.48	209896	5.69	130586	7.36
410-130132-4	MW-11S-20230607	61168	4.47	218628	5.69	135310	7.36
410-130132-5	MW-3-20230607	59467	4.47	239015	5.69	134023	7.36
410-130132-6	DUP-20230607	62794	4.47	215299	5.69	127270	7.36

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
NPT = Naphthalene-d8
Area Limit = 50%-200% of internal standard area
ANT = Acenaphthene-d10
RT Limit = ± 0.5 minutes of internal standard RT
ANT = Acenaphthene-d10
# Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-386832/2 Date Analyzed: 06/15/2023 05:48

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF1071.D Heated Purge: (Y/N) N

Calibration ID: 49555

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		320601	8.76	326140	11.37	352187	13.24
UPPER LIMIT		641202	9.26	652280	11.87	704374	13.74
LOWER LIMIT		160301	8.26	163070	10.87	176094	12.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-386349/1-A		238049	8.76	226576	11.37	239482	13.24
LCS 410-386349/2-A		231052	8.76	230079	11.37	230353	13.24
LCSD 410-386349/3-A		241091	8.76	252691	11.37	253710	13.24
410-130132-1	MW-8S-20230607	238213	8.76	235096	11.37	257750	13.24
410-130132-2	MW-12S-20230607	256729	8.76	241263	11.37	257344	13.24
410-130132-3	MW-12D-20230607	262170	8.76	245904	11.37	263633	13.24
410-130132-4	MW-11S-20230607	271385	8.76	266592	11.37	303834	13.24
410-130132-5	MW-3-20230607	256269	8.76	246971	11.37	269455	13.24
410-130132-6	DUP-20230607	254969	8.76	251640	11.37	273430	13.24

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
Area Limit = 50%-200% of internal standard area
PRY = Perylene-d12
RT Limit = ± 0.5 minutes of internal standard RT
PRY = Perylene-d12

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-387377/2 Date Analyzed: 06/16/2023 04:50

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF1151.D Heated Purge: (Y/N) N

Calibration ID: 49555

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		78084	4.48	274252	5.69	165069	7.36
UPPER LIMIT		156168	4.98	548504	6.19	330138	7.86
LOWER LIMIT		39042	3.98	137126	5.19	82535	6.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-386902/1-A		72967	4.48	252271	5.69	146555	7.36
LCS 410-386902/2-A		65351	4.48	217578	5.69	133681	7.36
410-130132-4 DL	MW-11S-20230607 DL	67326	4.47	231268	5.69	139462	7.36
410-130132-5 DL	MW-3-20230607 DL	69388	4.47	244465	5.69	148486	7.36
410-130132-11	MW-7S-20230608	75728	4.47	252723	5.69	152172	7.36
410-130132-11 MS	MW-7S-20230608 MS	81561	4.47	267376	5.69	165913	7.36
410-130132-11 MSD	MW-7S-20230608 MSD	76367	4.47	251385	5.69	155694	7.36
410-130132-7	MW-13S-20230608	81209	4.47	276557	5.69	176368	7.36
410-130132-8	MW-13D-20230608	81137	4.47	265692	5.69	163529	7.36
410-130132-9	MW-1-20230608	83474	4.47	281820	5.69	169164	7.36
410-130132-10	MW-4S-20230608	71623	4.47	237777	5.69	145344	7.36
410-130132-12	MW-10S-20230608	69637	4.47	232679	5.69	140388	7.36
410-130132-13	MW-14S-20230608	67565	4.47	234600	5.69	137662	7.36
410-130132-14	FB-20230608	77480	4.47	255561	5.69	149132	7.36

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
NPT = Naphthalene-d8
Area Limit = 50%-200% of internal standard area
ANT = Acenaphthene-d10
RT Limit = ± 0.5 minutes of internal standard RT
ANT = Acenaphthene-d10
# Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-387377/2 Date Analyzed: 06/16/2023 04:50

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MF1151.D Heated Purge: (Y/N) N

Calibration ID: 49555

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		328438	8.76	338123	11.37	380902	13.24
UPPER LIMIT		656876	9.26	676246	11.87	761804	13.74
LOWER LIMIT		164219	8.26	169062	10.87	190451	12.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-386902/1-A		287150	8.76	272177	11.38	291305	13.24
LCS 410-386902/2-A		261429	8.76	251324	11.37	264424	13.24
410-130132-4 DL	MW-11S-20230607 DL	276301	8.76	270929	11.37	296332	13.24
410-130132-5 DL	MW-3-20230607 DL	282169	8.76	285174	11.37	314216	13.24
410-130132-11	MW-7S-20230608	301670	8.76	293464	11.37	316887	13.24
410-130132-11 MS	MW-7S-20230608 MS	322650	8.76	319034	11.37	350816	13.24
410-130132-11 MSD	MW-7S-20230608 MSD	308118	8.76	311403	11.37	340628	13.24
410-130132-7	MW-13S-20230608	332994	8.76	311954	11.37	348032	13.24
410-130132-8	MW-13D-20230608	323387	8.76	324053	11.37	375664	13.24
410-130132-9	MW-1-20230608	333937	8.76	333917	11.37	374660	13.24
410-130132-10	MW-4S-20230608	281117	8.76	274862	11.37	308435	13.24
410-130132-12	MW-10S-20230608	269993	8.76	268989	11.37	294387	13.24
410-130132-13	MW-14S-20230608	263364	8.76	264862	11.37	288559	13.24
410-130132-14	FB-20230608	282673	8.76	274776	11.37	297016	13.24

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
Area Limit = 50%-200% of internal standard area
PRY = Perylene-d12
RT Limit = ± 0.5 minutes of internal standard RT
PRY = Perylene-d12

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: ICIS 410-346701/2 Date Analyzed: 02/21/2023 22:48

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NB0451a.D Heated Purge: (Y/N) N

Calibration ID: 47415

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		49684	4.57	170375	5.77	72429	7.43
UPPER LIMIT		99368	5.07	340750	6.27	144858	7.93
LOWER LIMIT		24842	4.07	85188	5.27	36215	6.93
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-346701/9		49706	4.57	167942	5.77	74322	7.43
CCVIS 410-388200/2		29831	4.54	105226	5.74	42881	7.41

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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: ICIS 410-346701/2 Date Analyzed: 02/21/2023 22:48

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NB0451a.D Heated Purge: (Y/N) N

Calibration ID: 47415

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		111170	8.84	65447	11.52	61452	13.50
UPPER LIMIT		222340	9.34	130894	12.02	122904	14.00
LOWER LIMIT		55585	8.34	32724	11.02	30726	13.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-346701/9		117345	8.84	72278	11.52	58273	13.49
CCVIS 410-388200/2		73991	8.82	48253	11.46	54989	13.40

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 Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-388200/2 Date Analyzed: 06/19/2023 12:18

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NF1051.D Heated Purge: (Y/N) N

Calibration ID: 47415

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		29831	4.54	105226	5.74	42881	7.41
UPPER LIMIT		59662	5.04	210452	6.24	85762	7.91
LOWER LIMIT		14916	4.04	52613	5.24	21441	6.91
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-130132-5 DL2	MW-3-20230607 DL2	27981	4.54	86869	5.74	39737	7.41

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
NPT = Naphthalene-d8
Area Limit = 50%-200% of internal standard area
ANT = Acenaphthene-d10
RT Limit = ± 0.5 minutes of internal standard RT
ANT = Acenaphthene-d10
# Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1

SDG No.:

Sample No.: CCVIS 410-388200/2 Date Analyzed: 06/19/2023 12:18

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NF1051.D Heated Purge: (Y/N) N

Calibration ID: 47415

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		73991	8.82	48253	11.46	54989	13.40
UPPER LIMIT		147982	9.32	96506	11.96	109978	13.90
LOWER LIMIT		36996	8.32	24127	10.96	27495	12.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-130132-5 DL2	MW-3-20230607 DL2	62343	8.82	46084	11.47	47920	13.41

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
CRY = Chrysene-d12
CRY = Chrysene-d12
Area Limit = 50%-200% of internal standard area
PRY = Perylene-d12
RT Limit = ± 0.5 minutes of internal standard RT
PRY = Perylene-d12

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-8S-20230607
Lab Sample ID: 410-130132-1

Matrix: Water
Lab File ID: MF1092.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 10:59

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 243.5(mL)
Date Analyzed: 06/15/2023 13:52

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.19		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.013	J	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.021
206-44-0	Fluoranthene	0.014	J	0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.021
91-20-3	Naphthalene	ND		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	0.014	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		33-120
93951-69-0	Fluoranthene-d10 (Surr)	90		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D
Lims ID: 410-130132-D-1-A
Client ID: MW-8S-20230607
Sample Type: Client
Inject. Date: 15-Jun-2023 13:52:02 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-1-A
Misc. Info.: 410-0086657-023
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:23:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.466	4.479	-0.013	100	57860	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	198752	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	91	6319	0.006843	7M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	98	98882	0.2043	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	90	118996	0.2500	
14 Acenaphthene	154	7.384	7.384	0.000	90	26457	0.0459	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	94	238213	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	244912	0.2249	
25 Fluoranthene	202	9.915	9.915	0.000	98	4425	0.003331	M
26 Pyrene	202	10.128	10.128	0.000	97	4974	0.003294	M
28 Benzo[a]anthracene	228	11.364	11.357	0.000	99	2703	0.002196	7M
* 29 Chrysene-d12	240	11.372	11.372	0.000	59	235096	0.2500	
30 Chrysene	228	11.403	11.403	0.000	99	3230	0.002157	7M
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	4459	0.003274	M
34 Benzo[k]fluoranthene	252	12.760	12.753	0.007	99	1742	0.001199	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.129	-0.001	100	194287	0.2050	
* 38 Perylene-d12	264	13.243	13.244	-0.001	100	257750	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	99	2526	0.002229	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

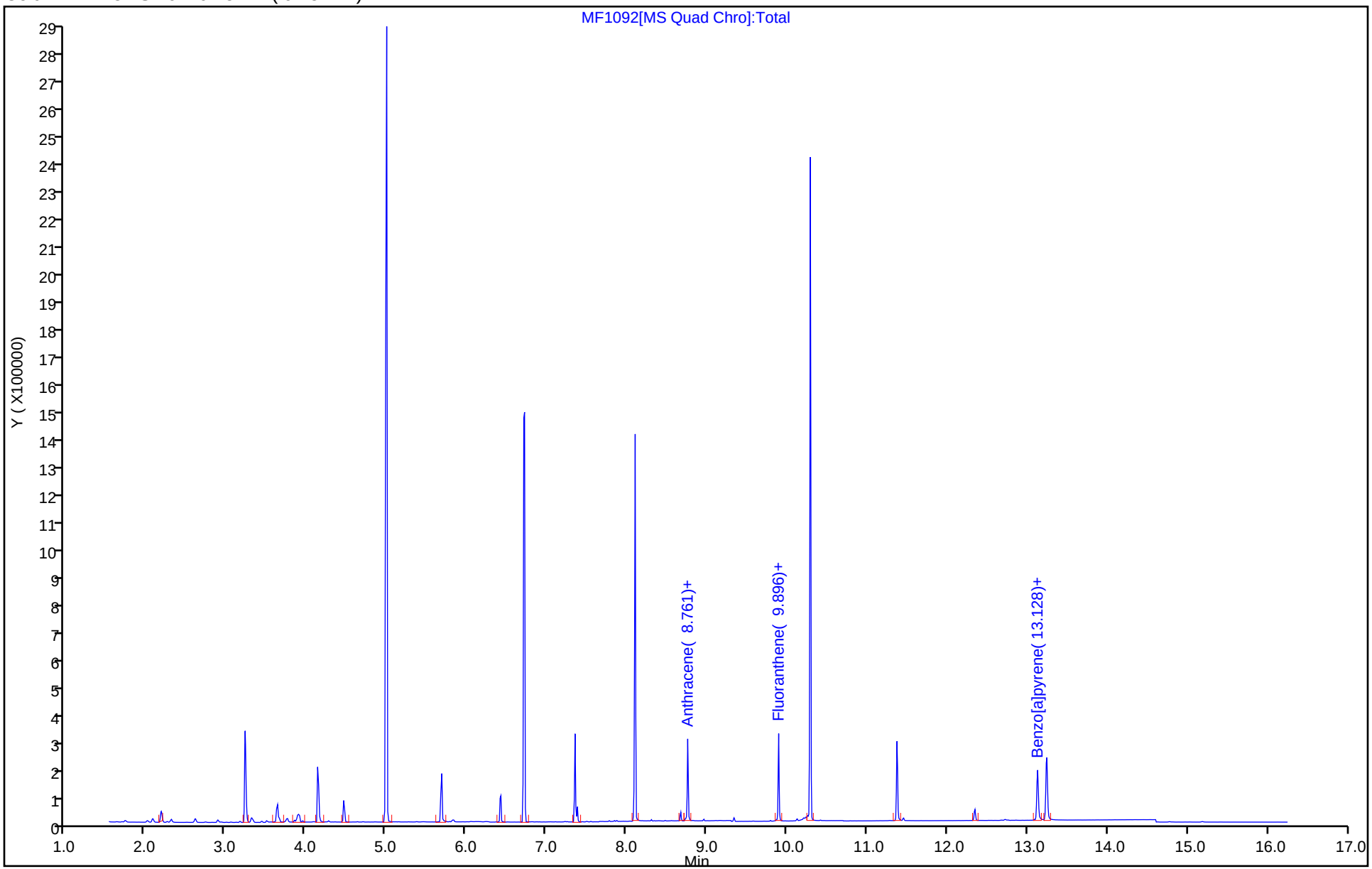
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jun-2023 03:31:18 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1	Worklist Smp#:	23
Client ID:	MW-8S-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D
Lims ID: 410-130132-D-1-A
Client ID: MW-8S-20230607
Sample Type: Client
Inject. Date: 15-Jun-2023 13:52:02 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-1-A
Misc. Info.: 410-0086657-023
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

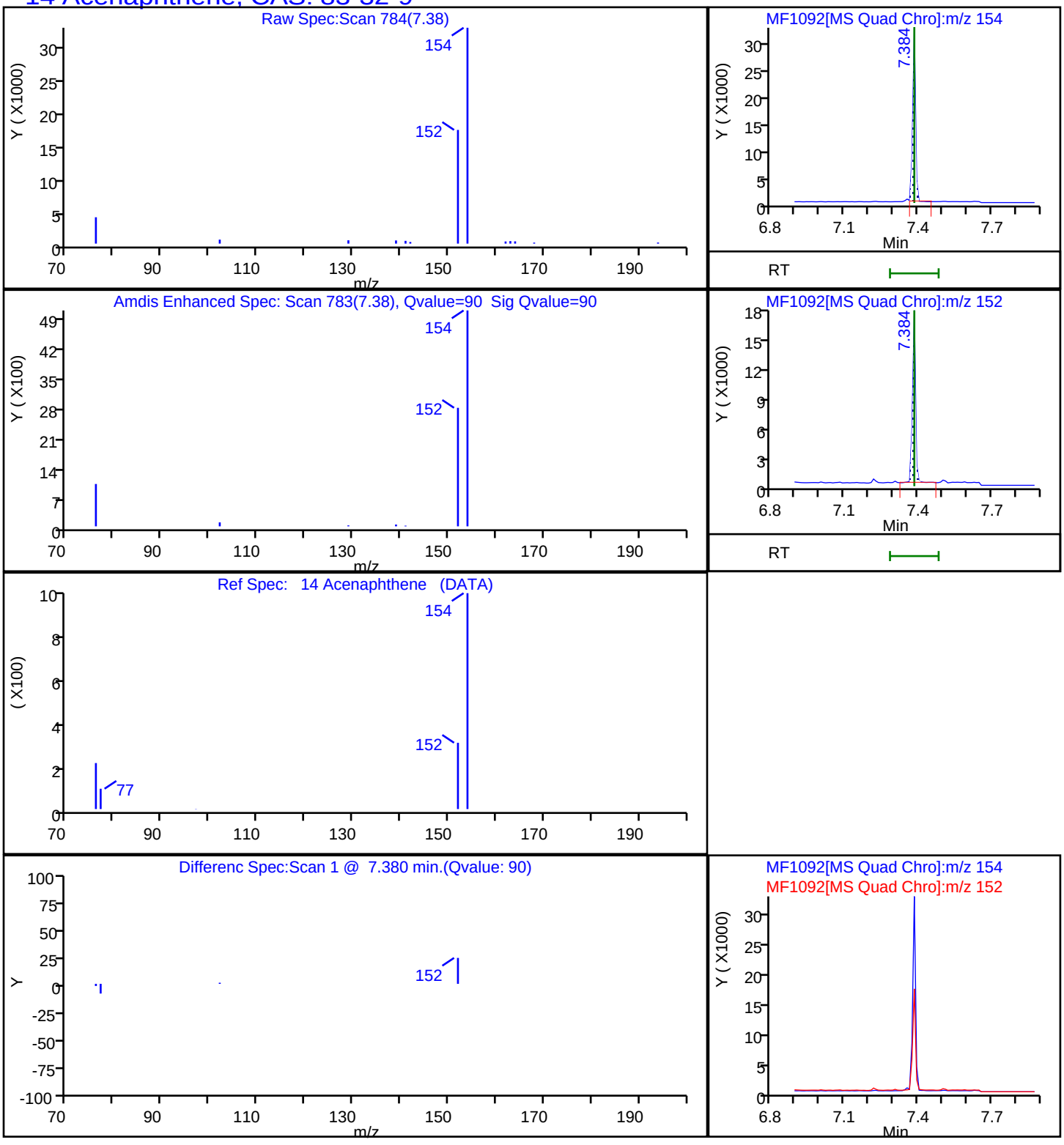
First Level Reviewer: UJM0 Date: 16-Jun-2023 03:23:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.2043	81.73
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2249	89.97
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2050	81.99

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

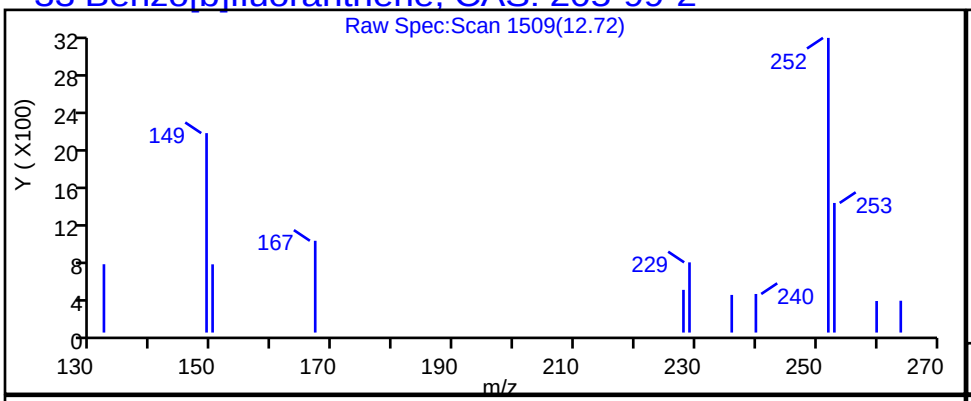


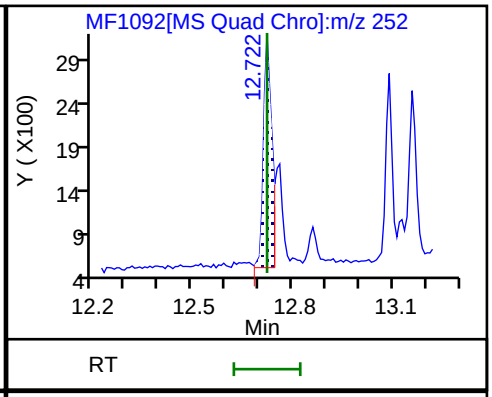
Report Date: 16-Jun-2023 03:31:18 Chrom Revision: 2.3 05-Jun-2023 19:02:10

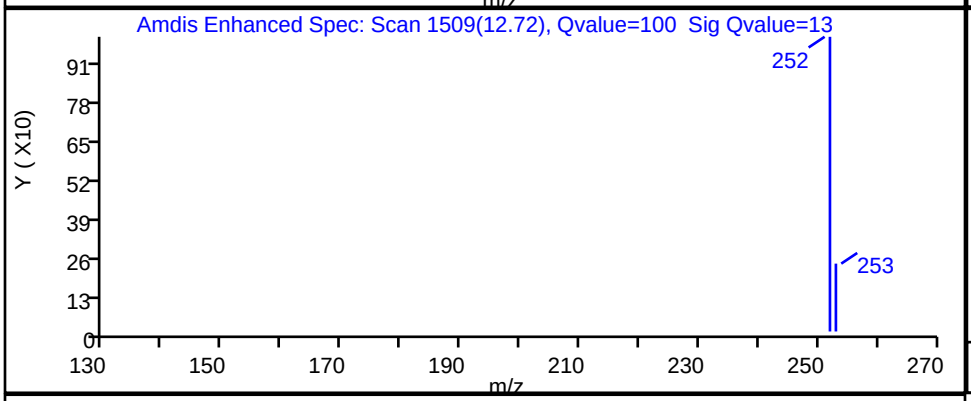
Eurofins Lancaster Laboratories Environment Testing, LLC

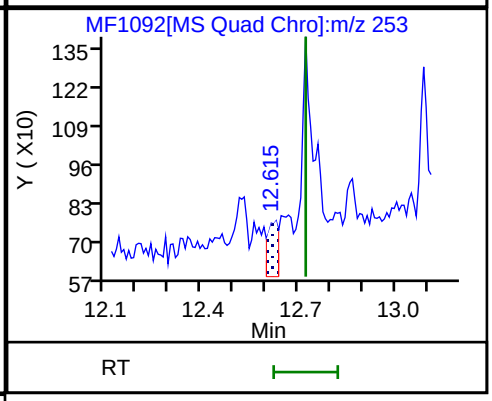
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

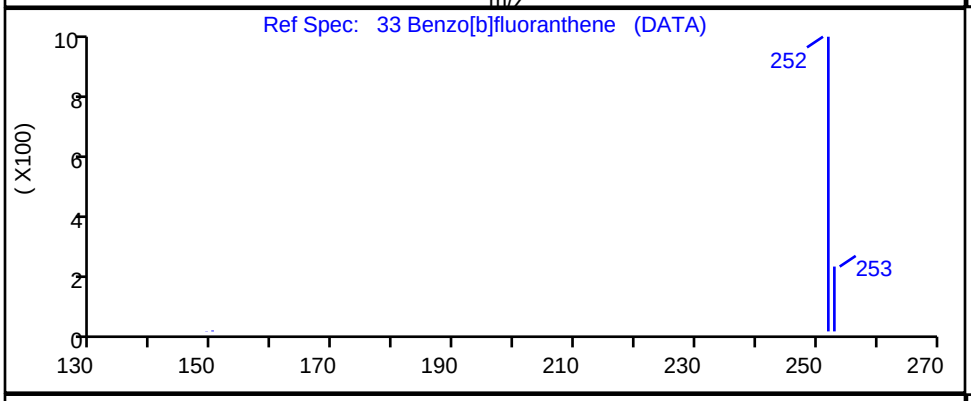
33 Benzo[b]fluoranthene, CAS: 205-99-2

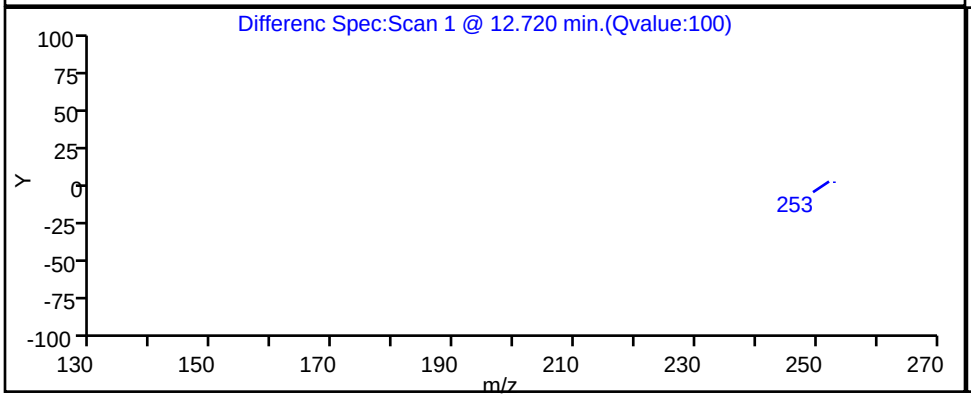


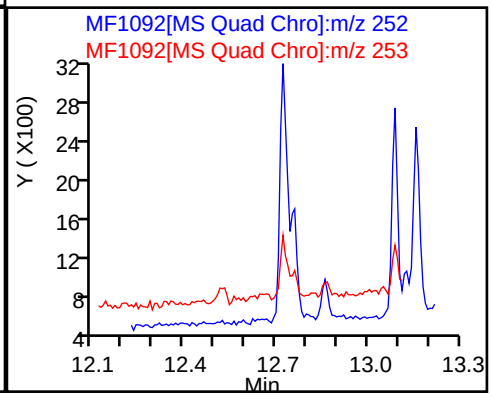












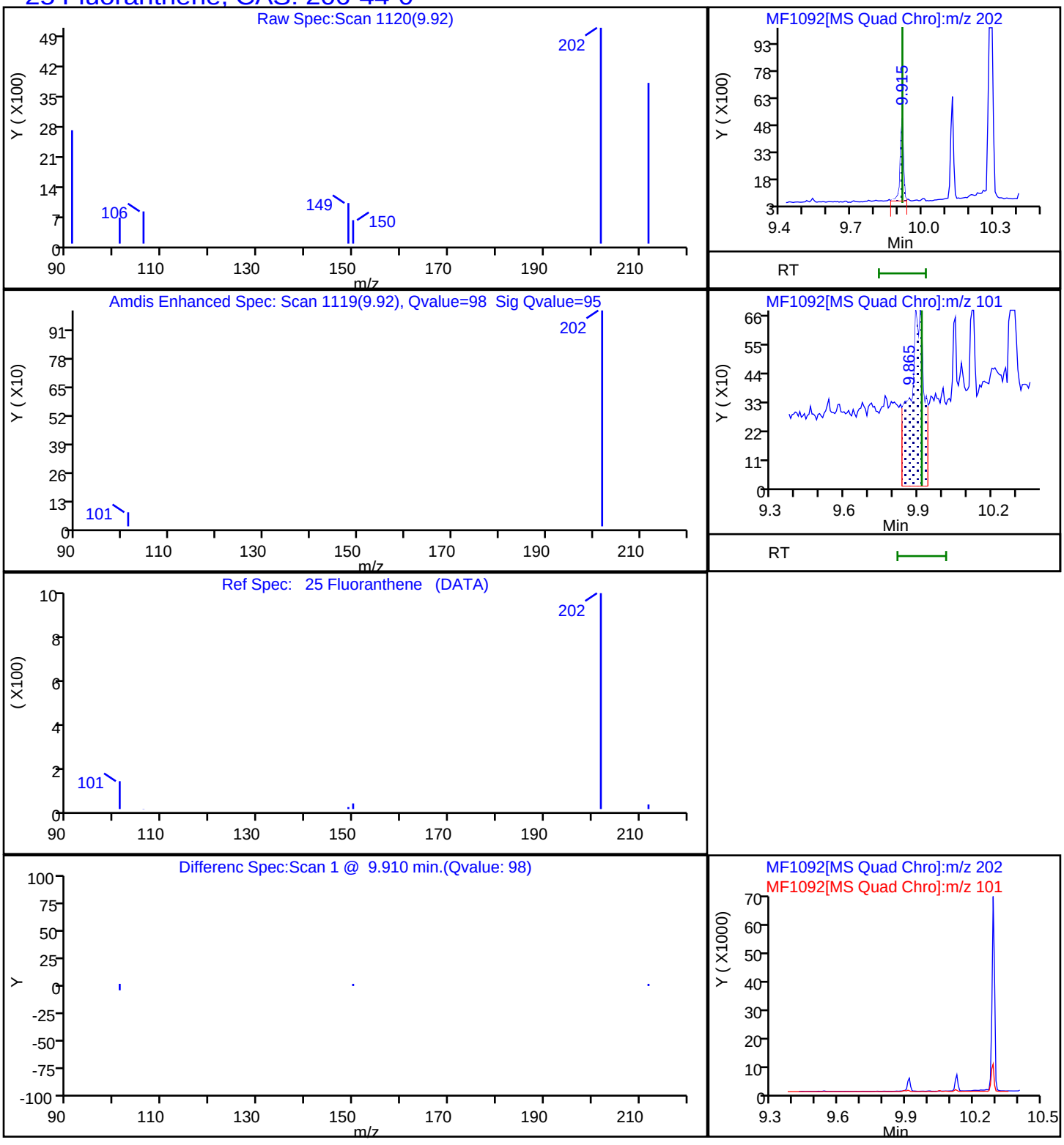
Report Date: 16-Jun-2023 03:31:18 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D

Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

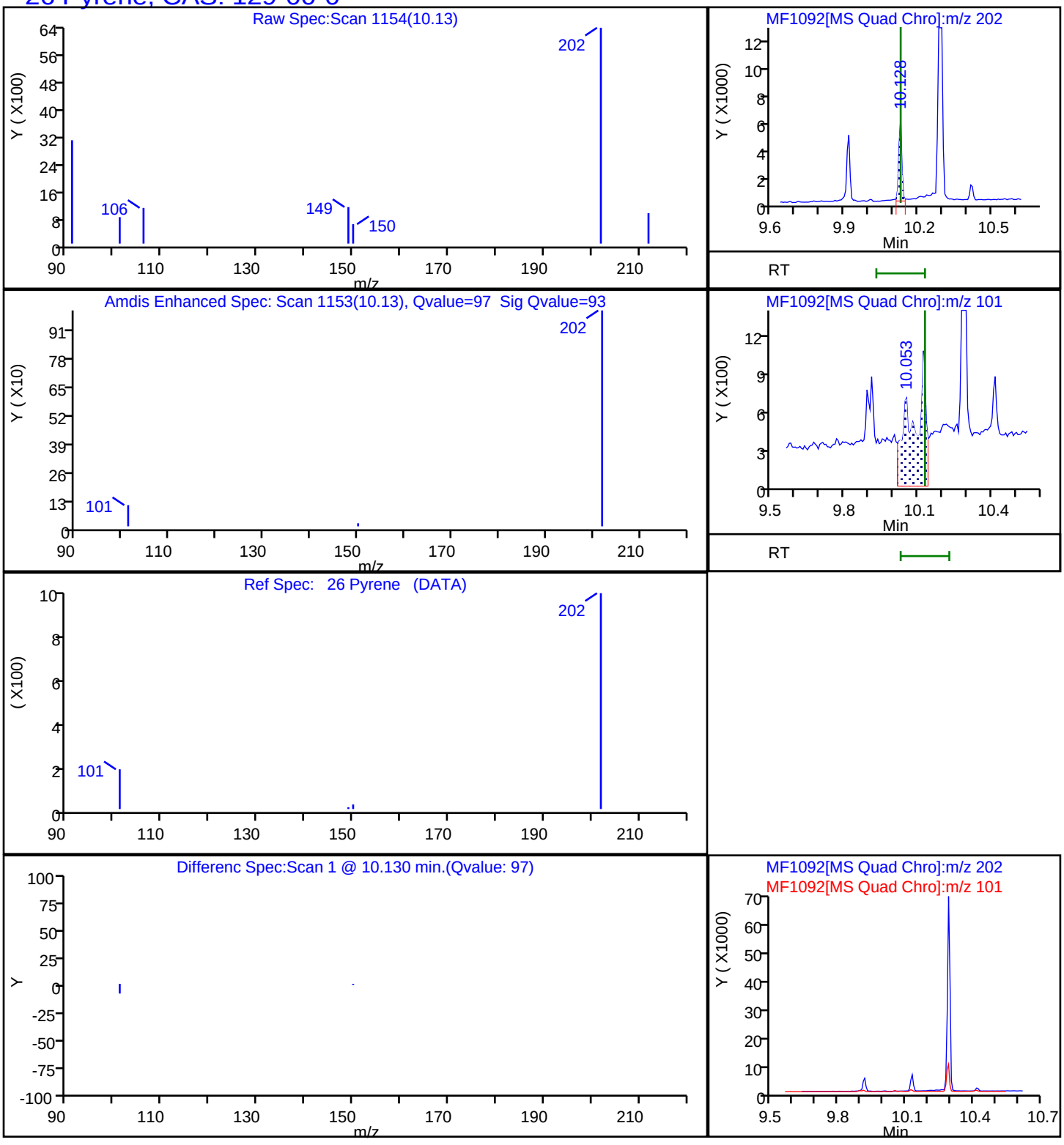
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D		
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1
Client ID:	MW-8S-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

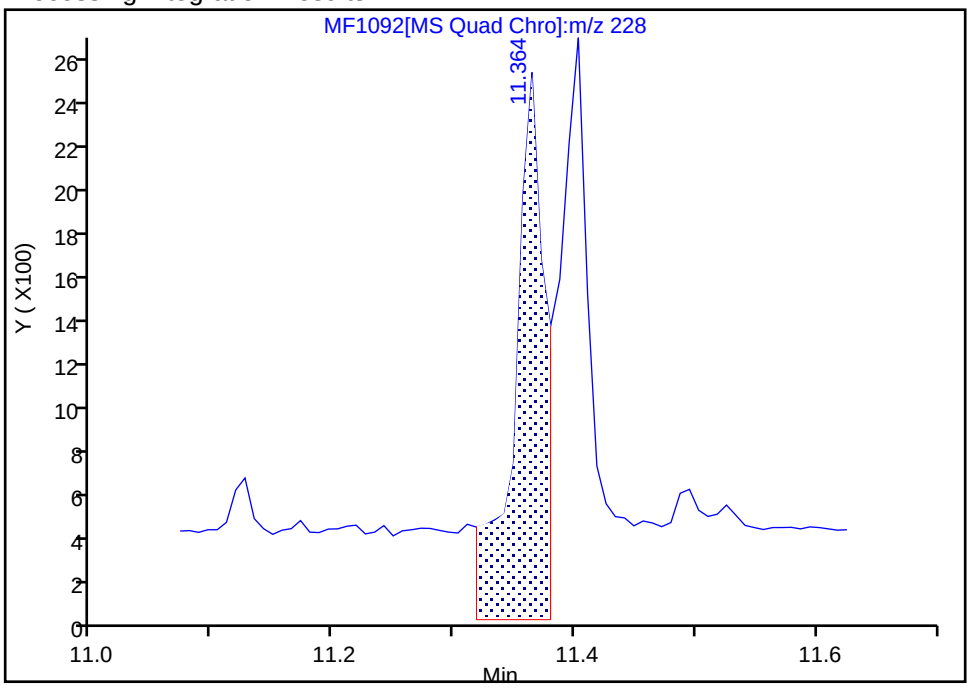
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

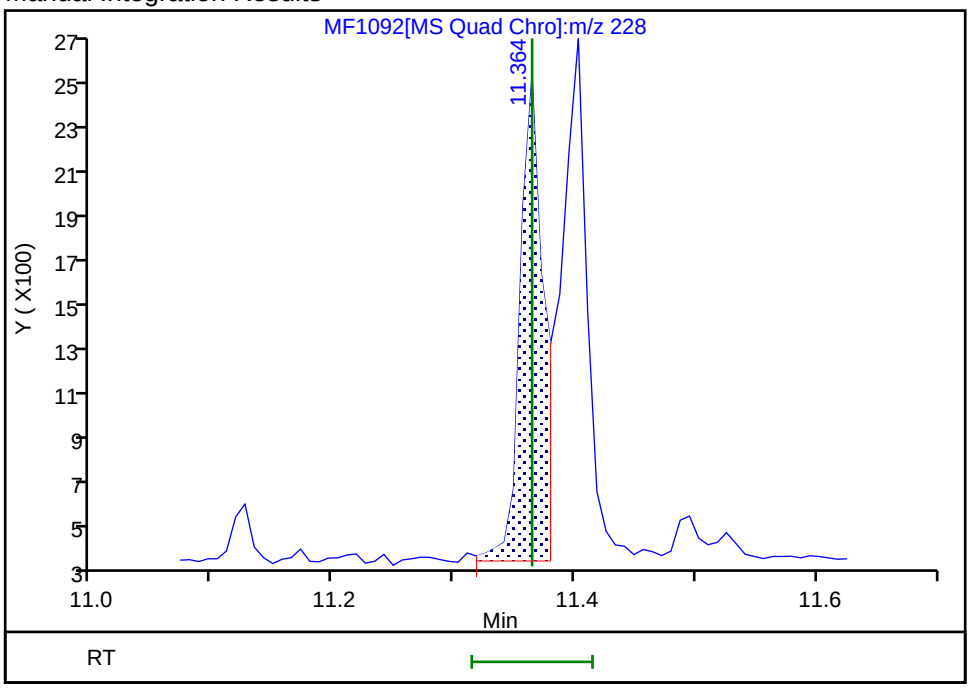
Processing Integration Results

RT: 11.36
Area: 4183
Amount: 0.003398
Amount Units: ug/ml



Manual Integration Results

RT: 11.36
Area: 2703
Amount: 0.002196
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:23:06 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

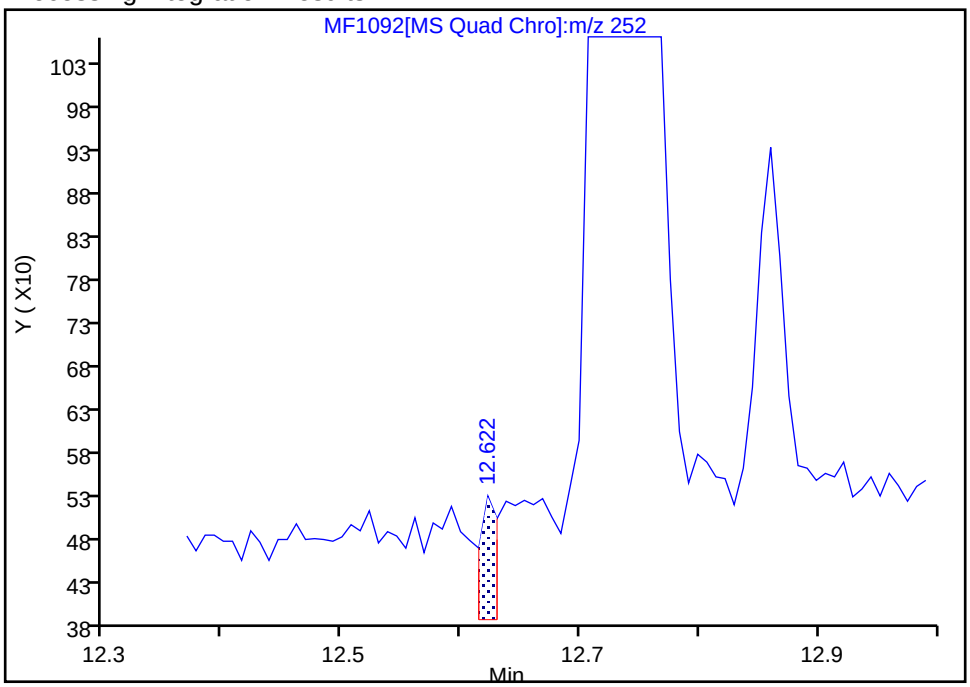
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

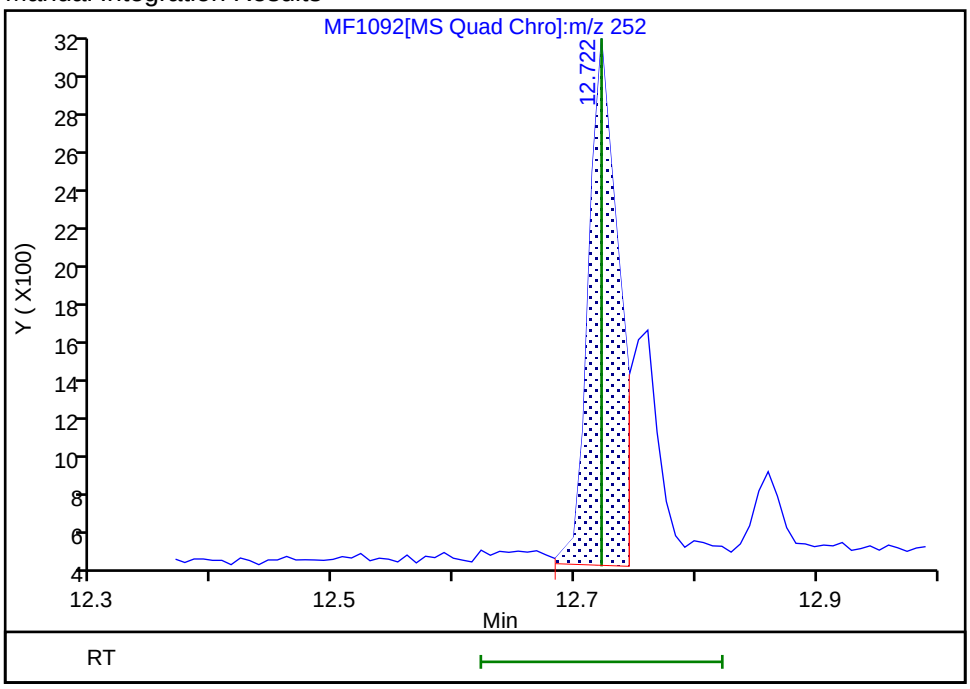
Processing Integration Results

RT: 12.62
Area: 111
Amount: 0.000081
Amount Units: ug/ml



Manual Integration Results

RT: 12.72
Area: 4459
Amount: 0.003274
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:23:17 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

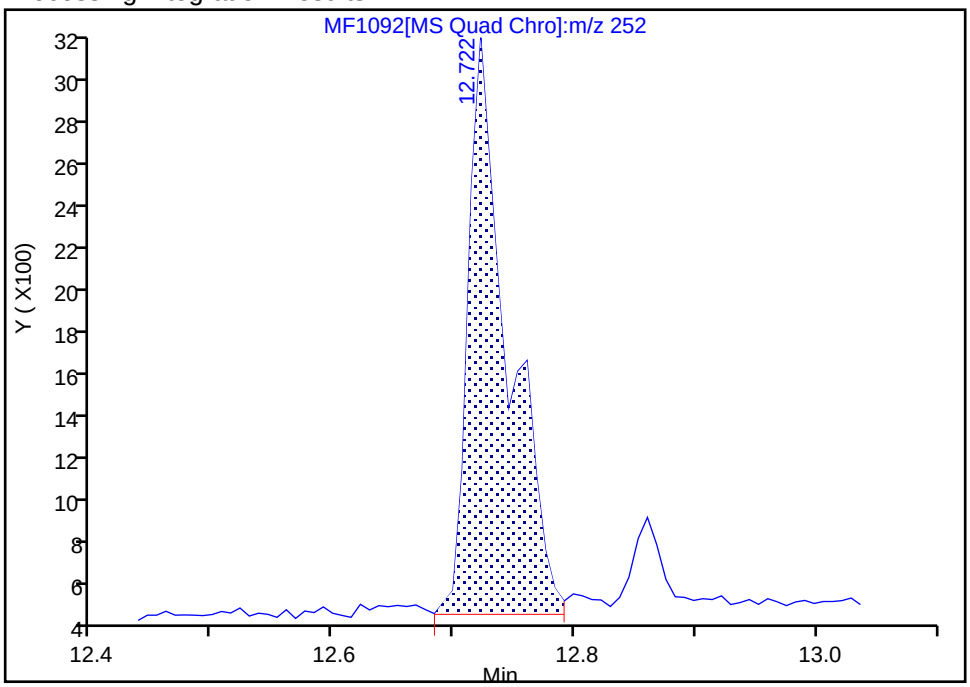
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

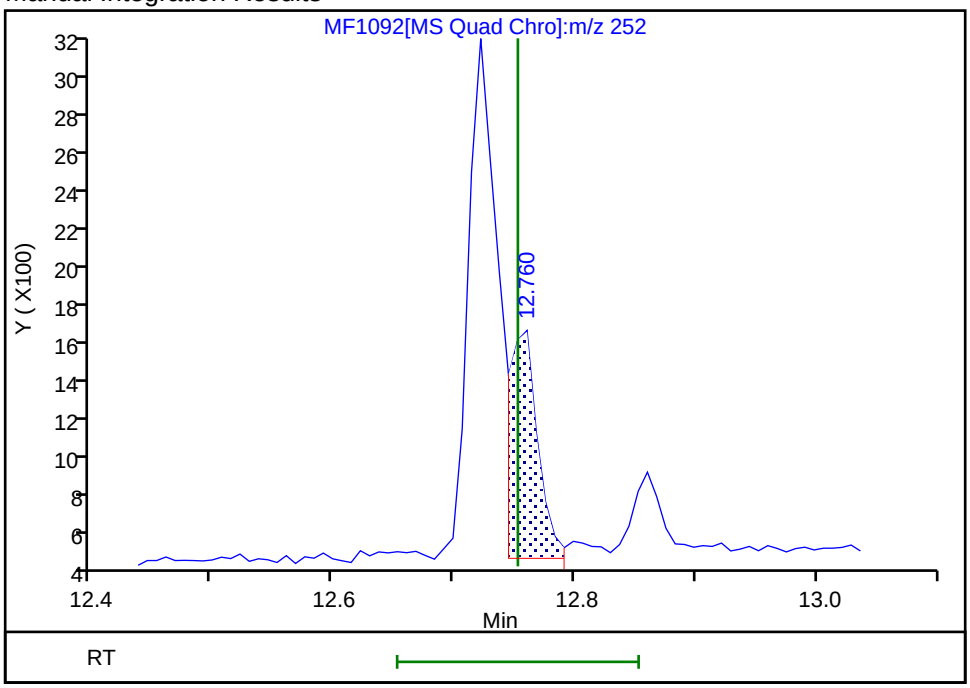
Processing Integration Results

RT: 12.72
Area: 6114
Amount: 0.004209
Amount Units: ug/ml



Manual Integration Results

RT: 12.76
Area: 1742
Amount: 0.001199
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:23:23 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

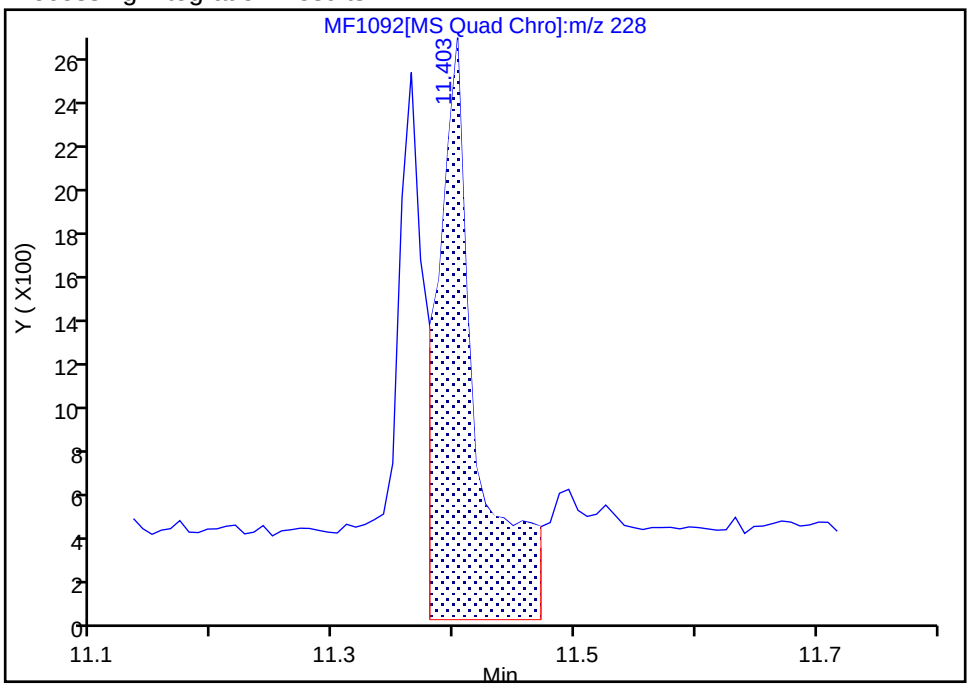
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

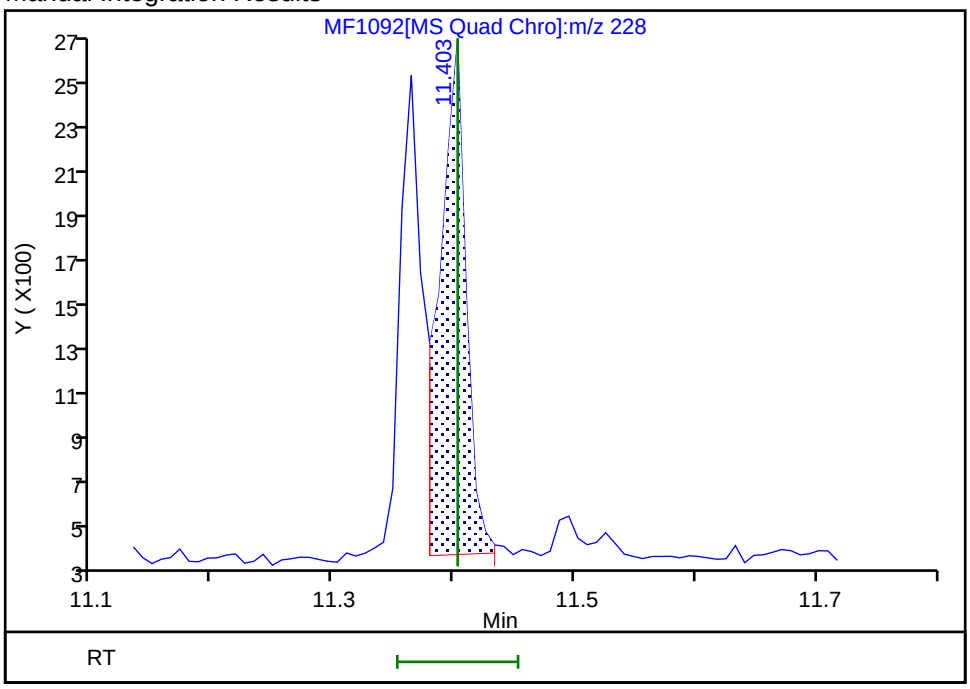
Processing Integration Results

RT: 11.40
Area: 5667
Amount: 0.003785
Amount Units: ug/ml



Manual Integration Results

RT: 11.40
Area: 3230
Amount: 0.002157
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:23:12 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

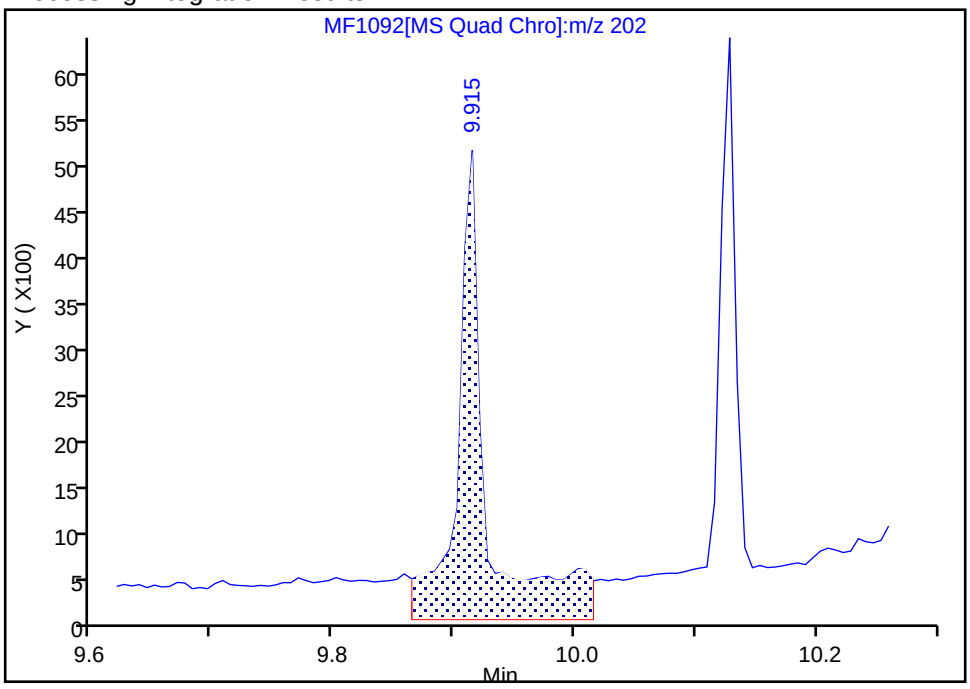
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

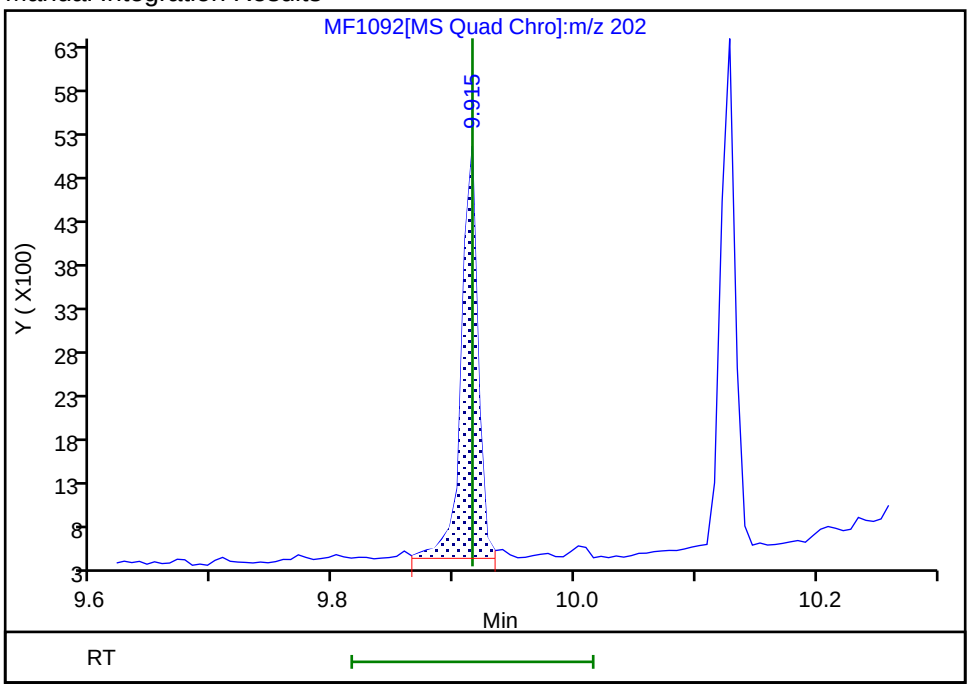
Processing Integration Results

RT: 9.92
Area: 8533
Amount: 0.006424
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 4425
Amount: 0.003331
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:22:54 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

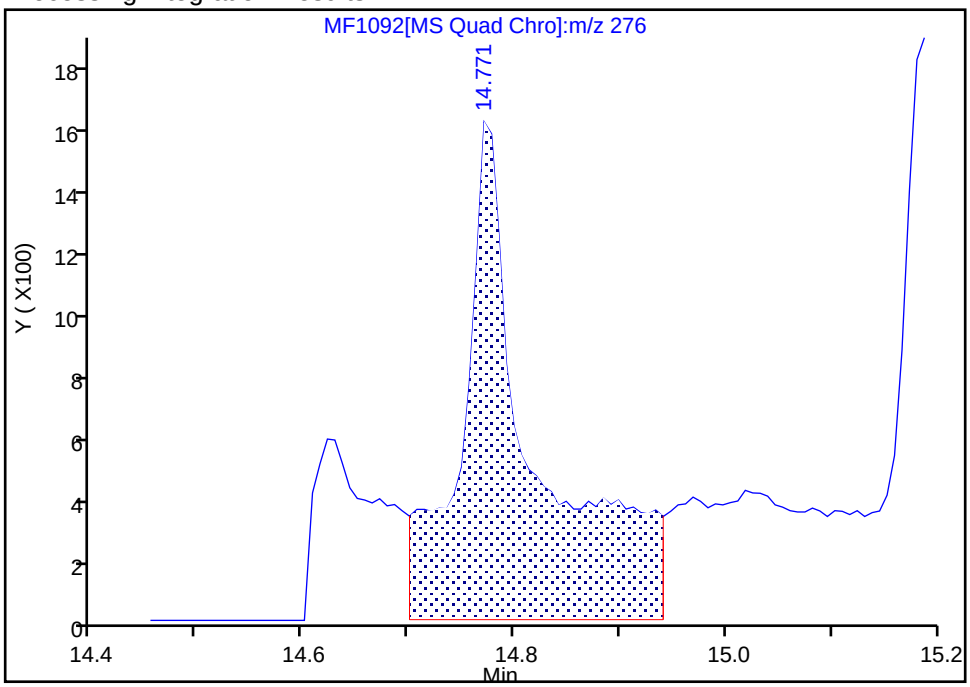
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

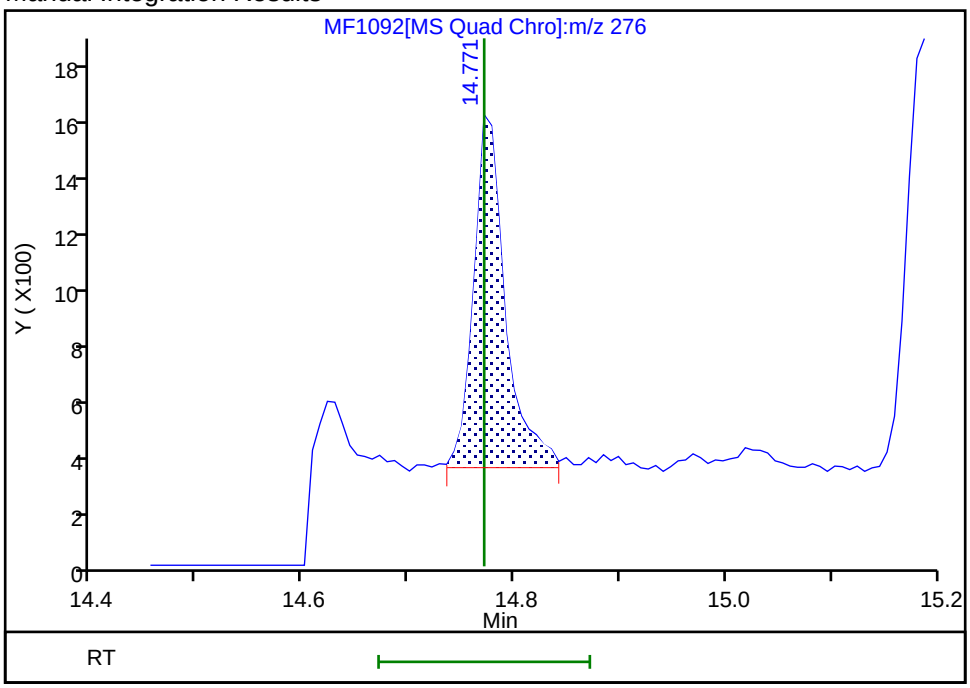
Processing Integration Results

RT: 14.77
Area: 7451
Amount: 0.006575
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 2526
Amount: 0.002229
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:23:31 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

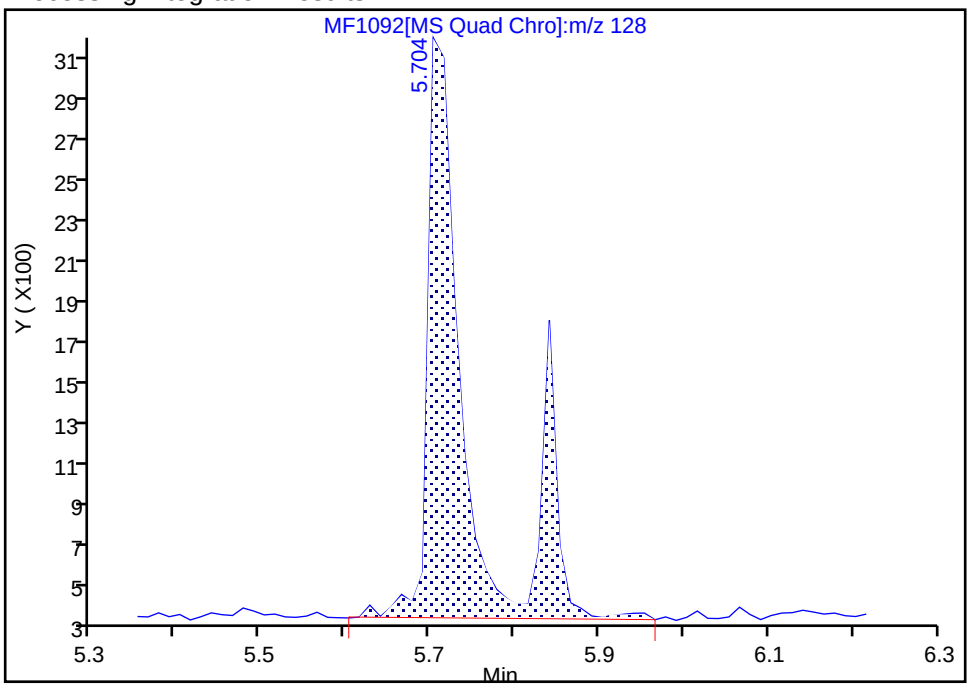
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

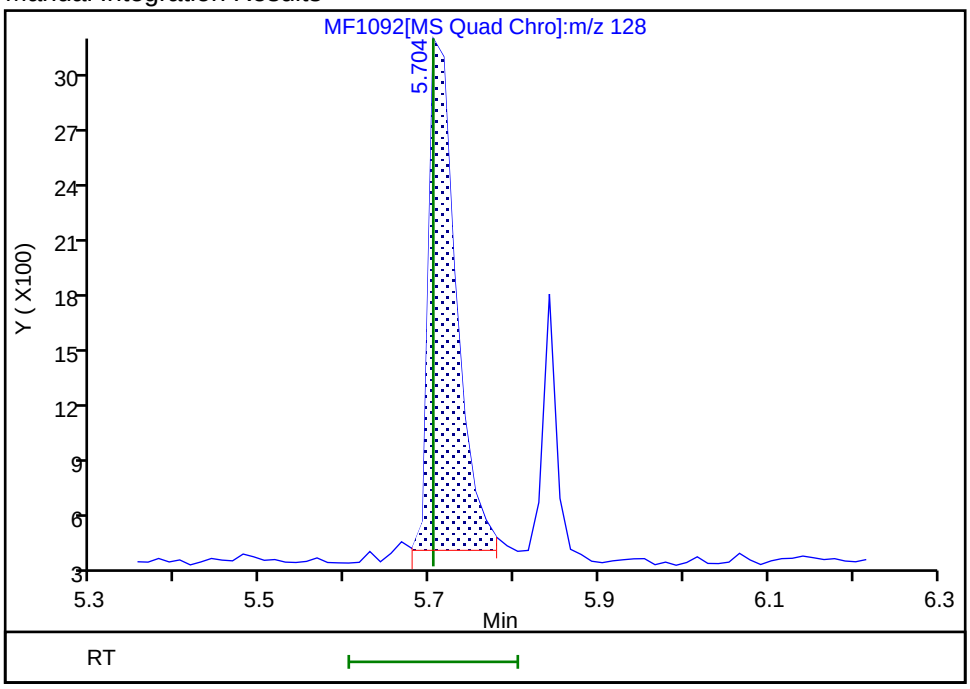
Processing Integration Results

RT: 5.70
Area: 9036
Amount: 0.009785
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 6319
Amount: 0.006843
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:22:38 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

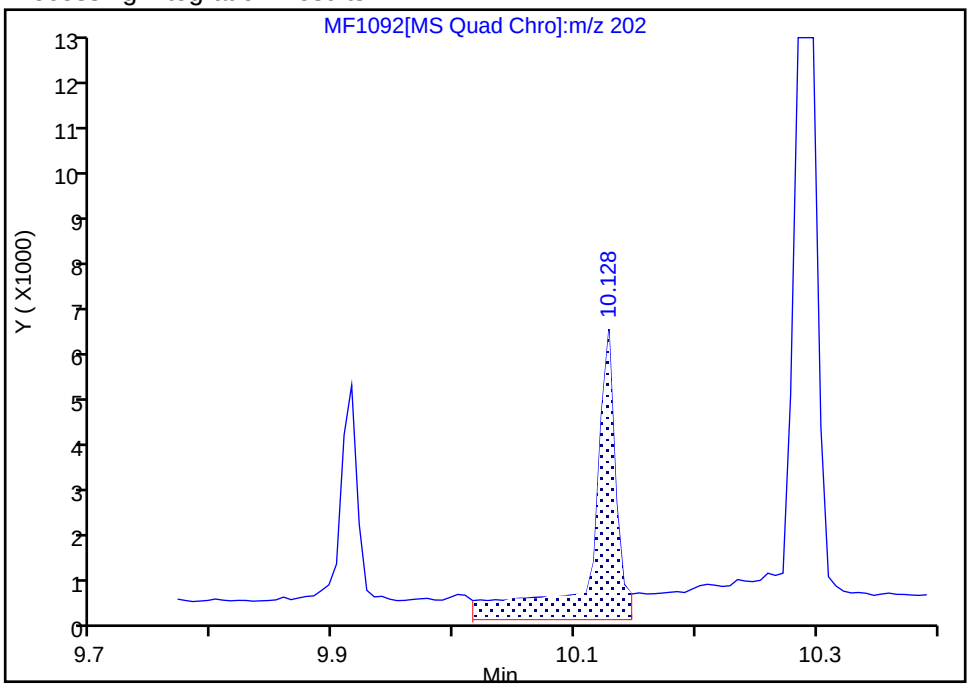
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1092.D				
Injection Date:	15-Jun-2023 13:52:02	Instrument ID:	HP21585		
Lims ID:	410-130132-D-1-A	Lab Sample ID:	410-130132-1		
Client ID:	MW-8S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

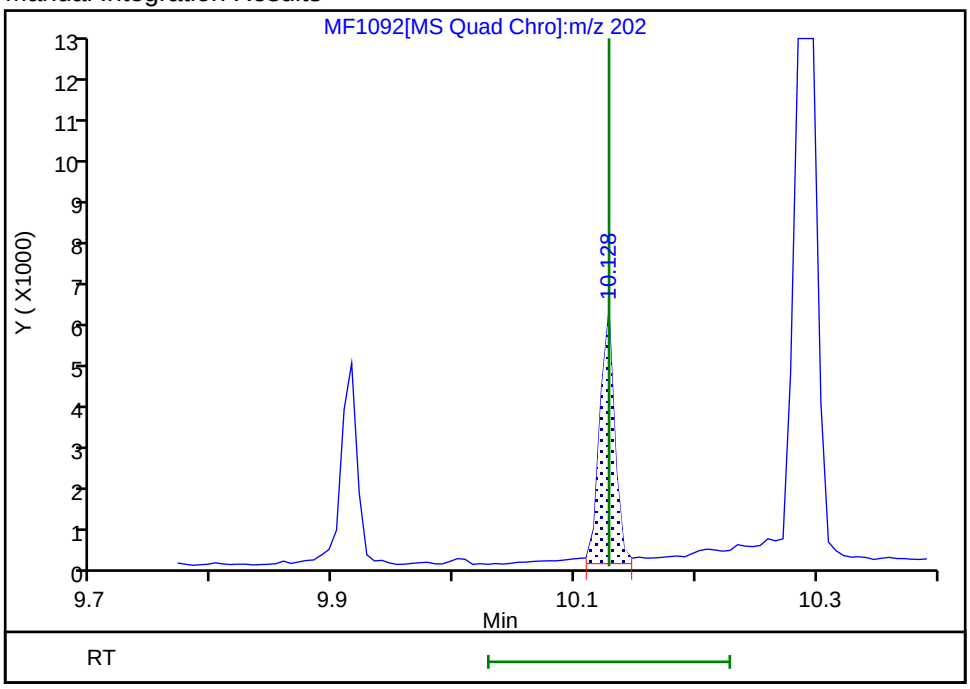
Processing Integration Results

RT: 10.13
Area: 8780
Amount: 0.005815
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 4974
Amount: 0.003294
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:23:00 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-12S-20230607
Lab Sample ID: 410-130132-2

Matrix: Water
Lab File ID: MF1093.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 11:47

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 244.3(mL)
Date Analyzed: 06/15/2023 14:13

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.029	J	0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	0.010	J	0.051	0.010
56-55-3	Benzo[a]anthracene	0.037	J	0.051	0.010
50-32-8	Benzo[a]pyrene	0.039	J	0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.038	J	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	0.023	J	0.051	0.010
207-08-9	Benzo[k]fluoranthene	0.014	J	0.051	0.010
218-01-9	Chrysene	0.035	J	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	0.031	J	0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.026	J	0.051	0.020
91-20-3	Naphthalene	0.050	J	0.072	0.031
85-01-8	Phenanthrene	0.036	J	0.072	0.031
129-00-0	Pyrene	0.044	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	45		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	72		33-120
93951-69-0	Fluoranthene-d10 (Surr)	79		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D
Lims ID: 410-130132-D-2-A
Client ID: MW-12S-20230607
Sample Type: Client
Inject. Date: 15-Jun-2023 14:13:30 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-2-A
Misc. Info.: 410-0086657-024
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:25:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	64	60298	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	207311	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	91	11682	0.0121	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	96	90889	0.1801	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	90	125422	0.2500	
14 Acenaphthene	154	7.384	7.384	0.000	88	4357	0.007171	M
17 Fluorene	166	7.871	7.871	0.000	100	1621	0.002089	7M
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	256729	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	99	11184	0.008763	M
22 Anthracene	178	8.831	8.831	0.000	100	2728	0.002462	7M
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	230722	0.1966	
25 Fluoranthene	202	9.915	9.915	0.000	99	10975	0.007666	M
26 Pyrene	202	10.128	10.128	0.000	98	16583	0.0107	M
28 Benzo[a]anthracene	228	11.357	11.357	-0.007	100	11416	0.009038	M
* 29 Chrysene-d12	240	11.372	11.372	0.000	59	241263	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	13149	0.008558	M
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	12708	0.009345	M
34 Benzo[k]fluoranthene	252	12.760	12.753	0.007	100	4969	0.003426	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	100	105335	0.1113	
37 Benzo[a]pyrene	252	13.159	13.159	0.000	100	11842	0.009623	M
* 38 Perylene-d12	264	13.244	13.244	0.000	99	257344	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	99	7204	0.006367	M
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	8225	0.005707	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

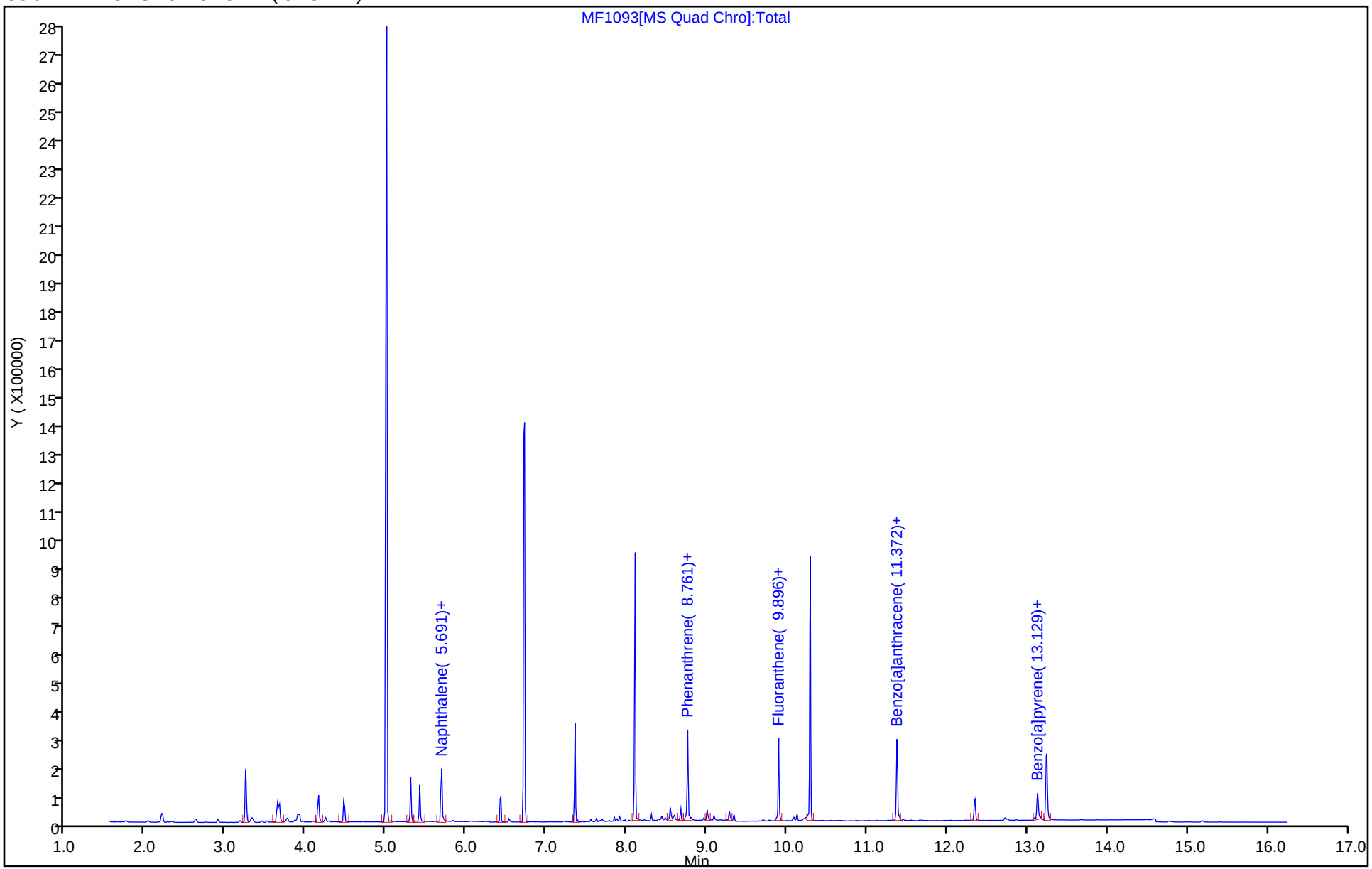
Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D

Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2	Worklist Smp#:	24
Client ID:	MW-12S-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Lims ID:	410-130132-D-2-A				
Client ID:	MW-12S-20230607				
Sample Type:	Client				
Inject. Date:	15-Jun-2023 14:13:30	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-2-A				
Misc. Info.:	410-0086657-024				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	16-Jun-2023 03:30:30	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

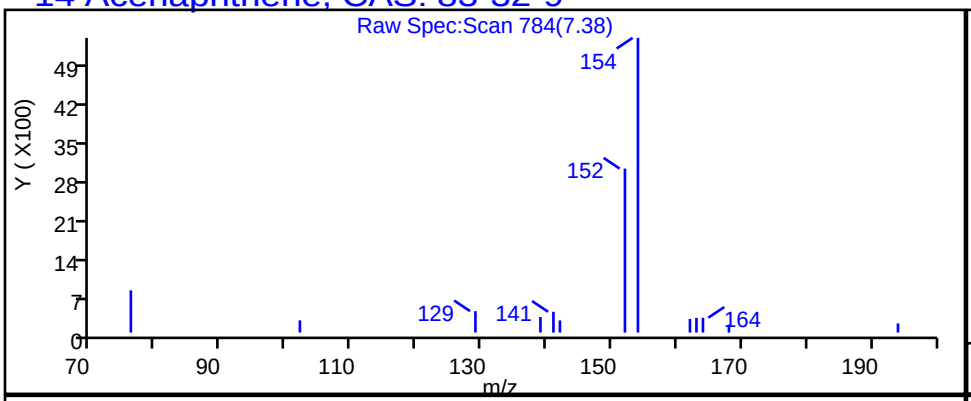
First Level Reviewer: UJM0 Date: 16-Jun-2023 03:25:22

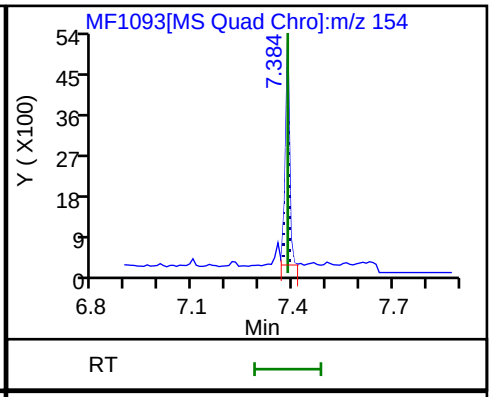
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1801	72.02
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1966	78.64
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1113	44.52

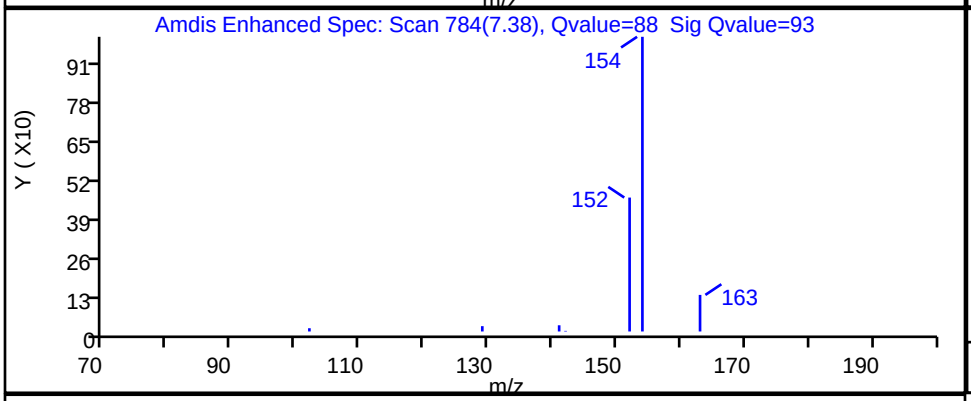
Eurofins Lancaster Laboratories Environment Testing, LLC

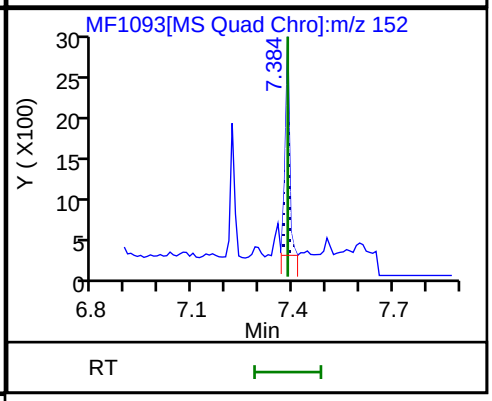
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

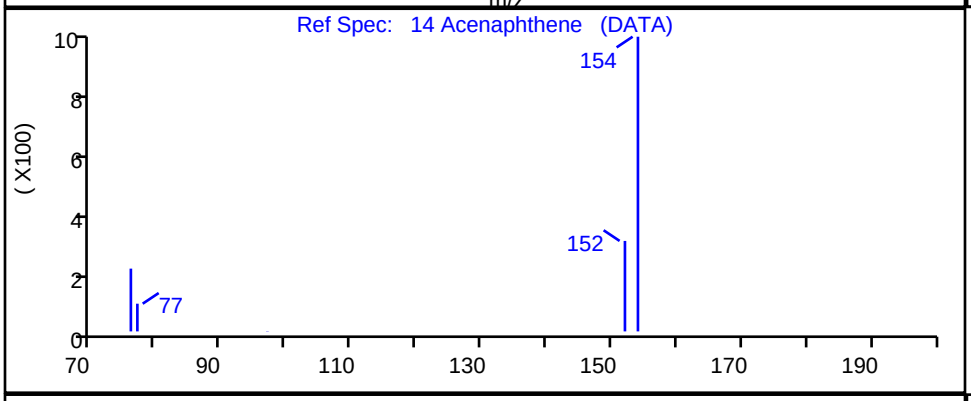
14 Acenaphthene, CAS: 83-32-9

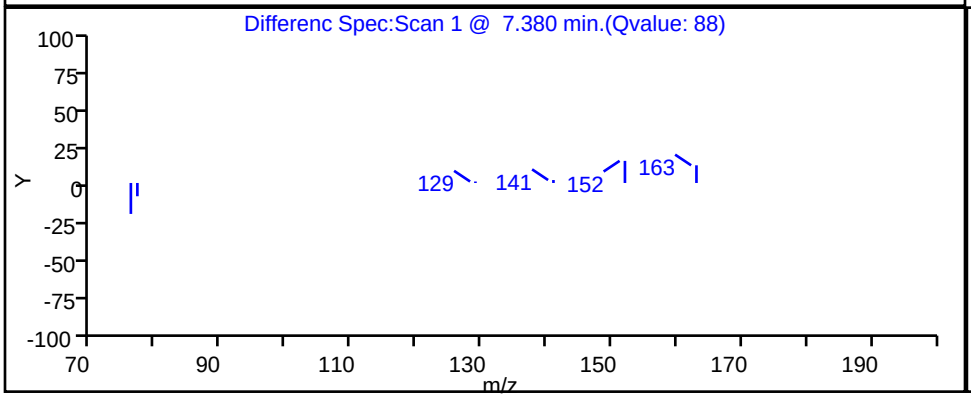


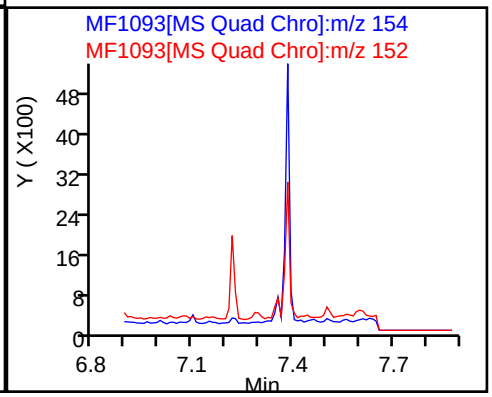












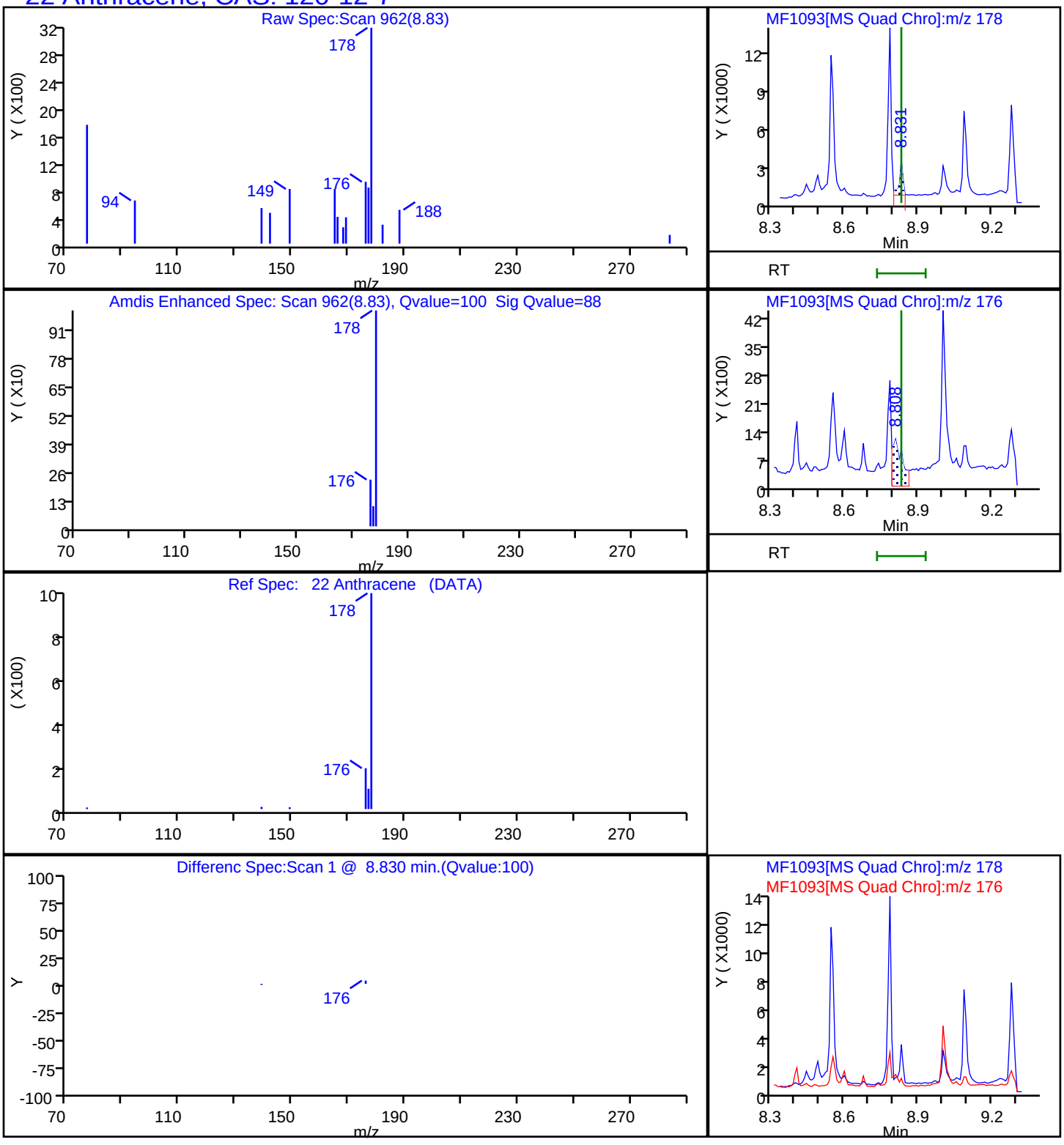
Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D

Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

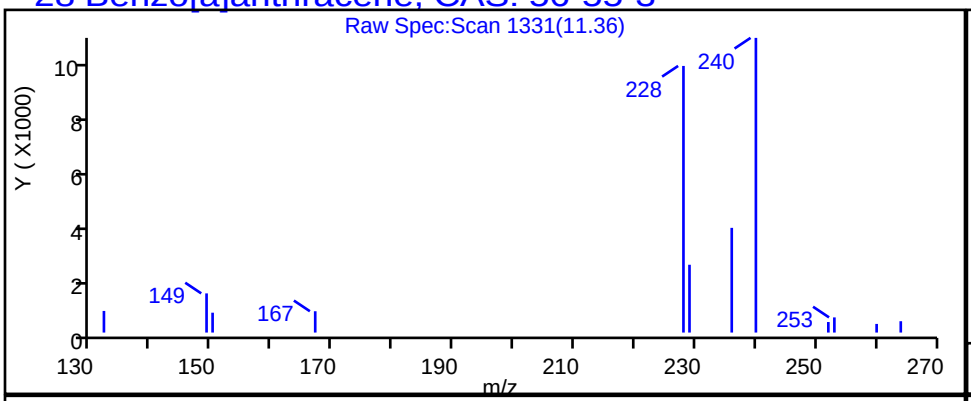


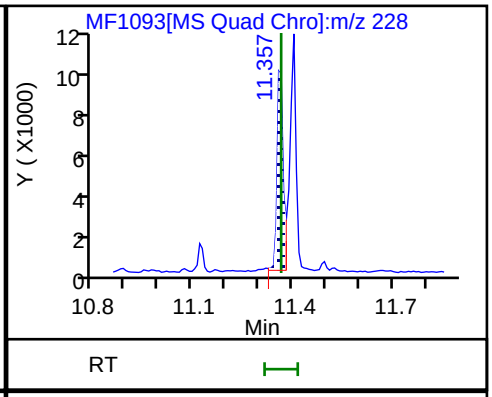
Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

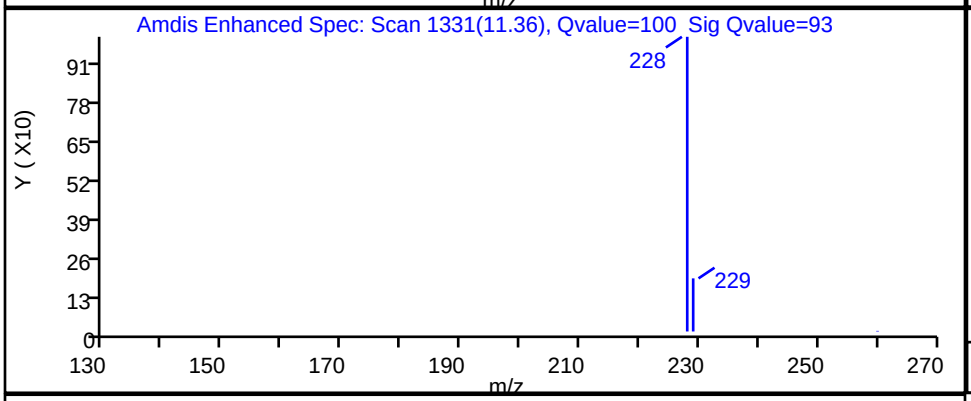
Eurofins Lancaster Laboratories Environment Testing, LLC

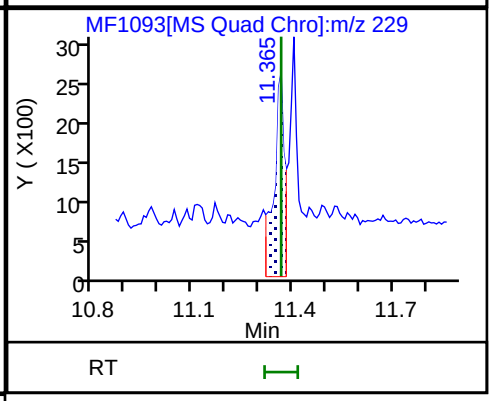
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

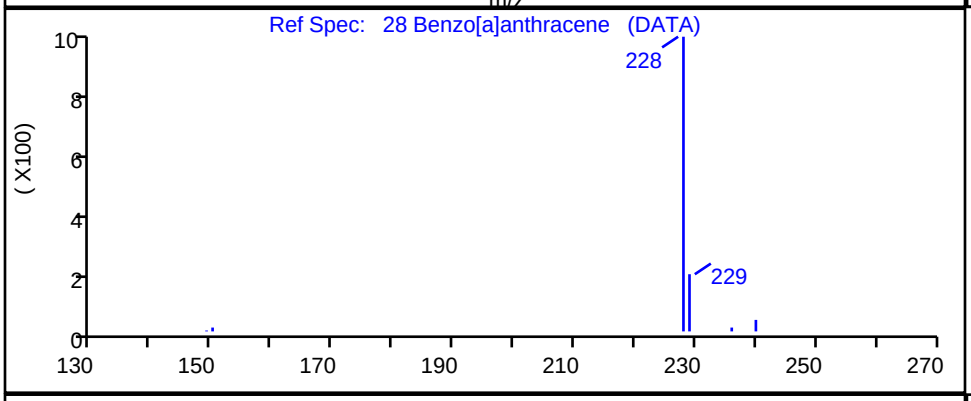
28 Benzo[a]anthracene, CAS: 56-55-3

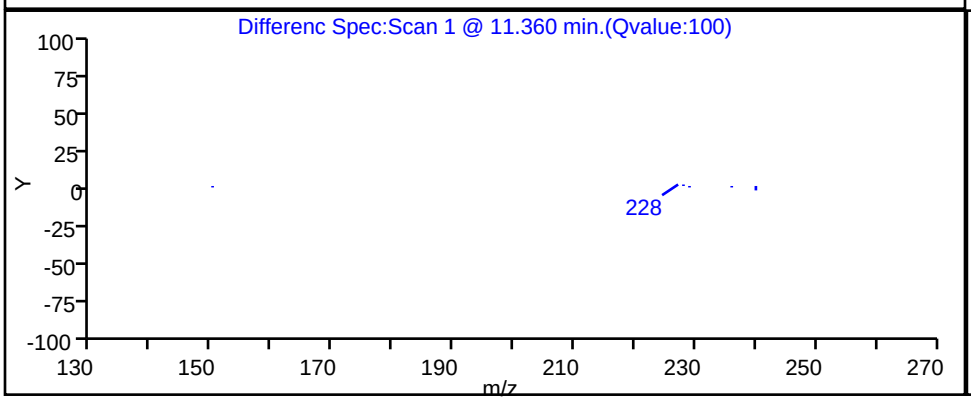


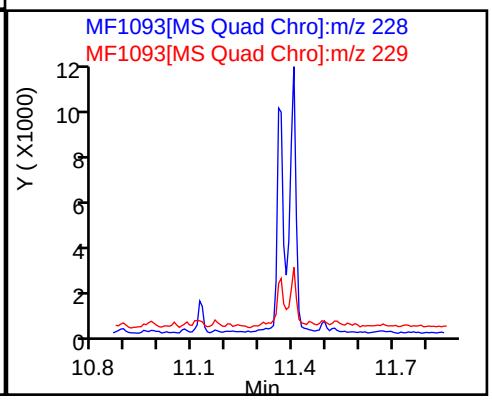










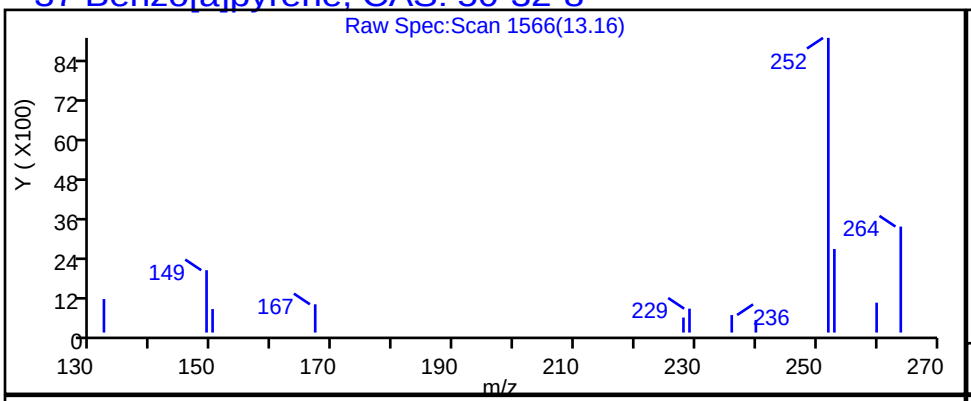


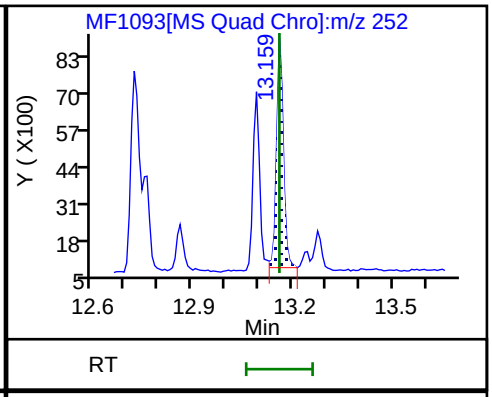
Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

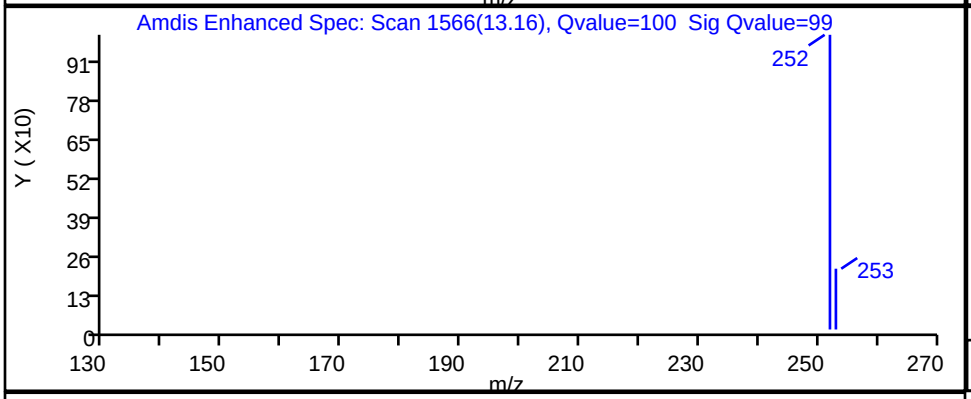
Eurofins Lancaster Laboratories Environment Testing, LLC

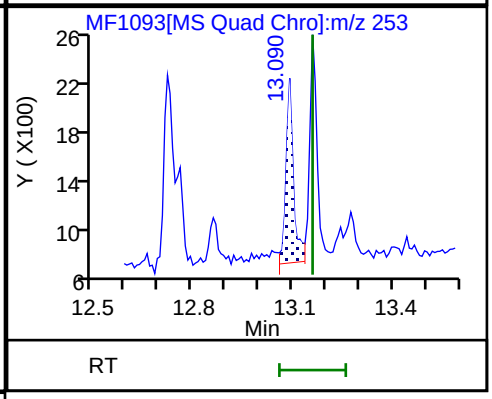
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

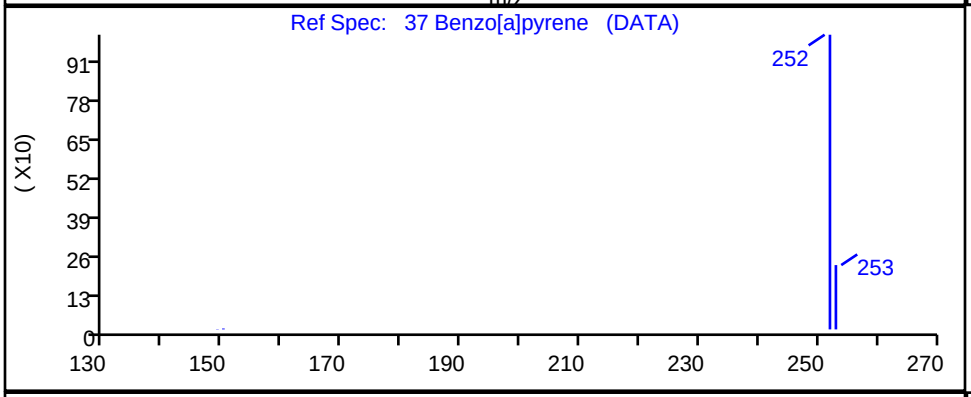
37 Benzo[a]pyrene, CAS: 50-32-8

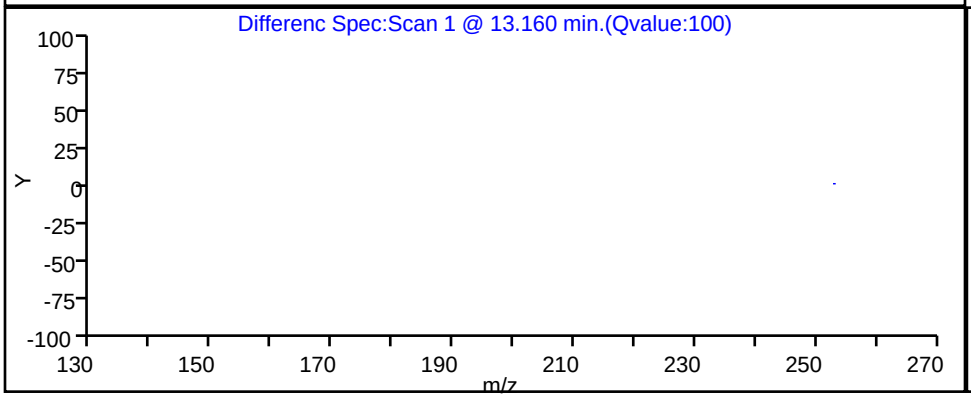


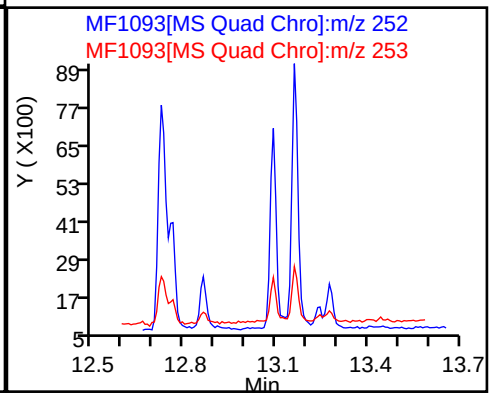










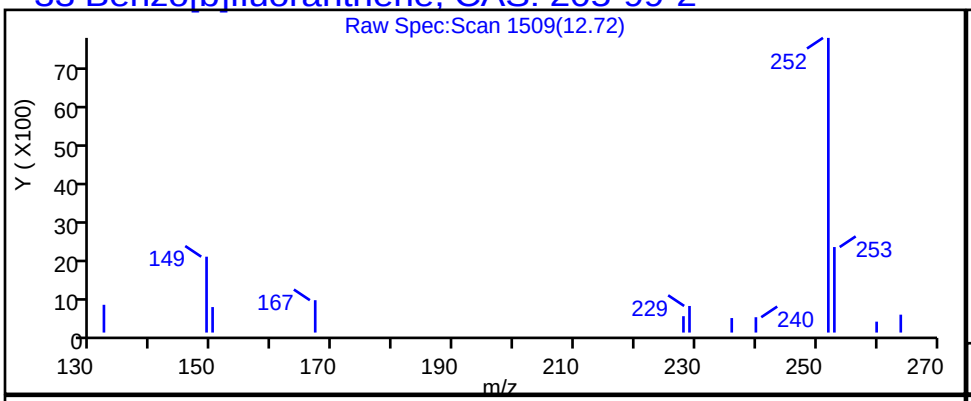


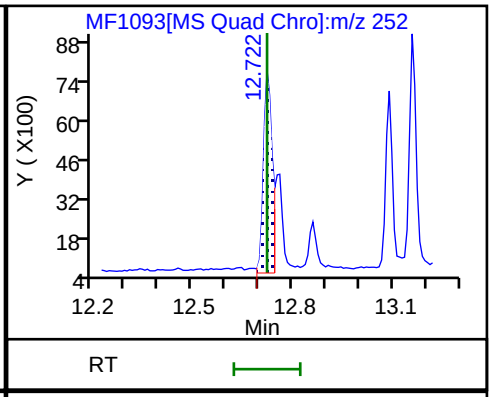
Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

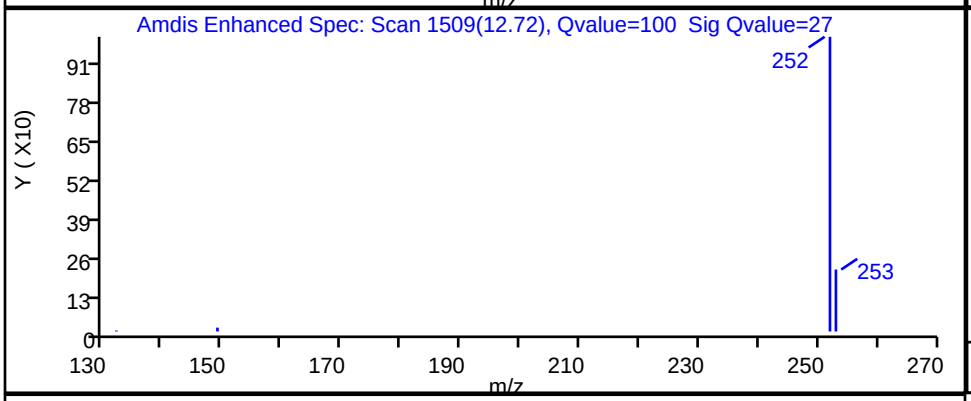
Eurofins Lancaster Laboratories Environment Testing, LLC

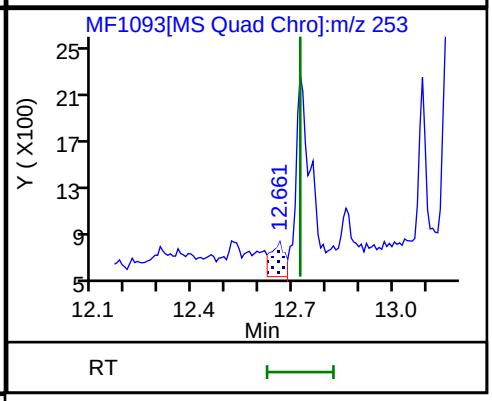
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

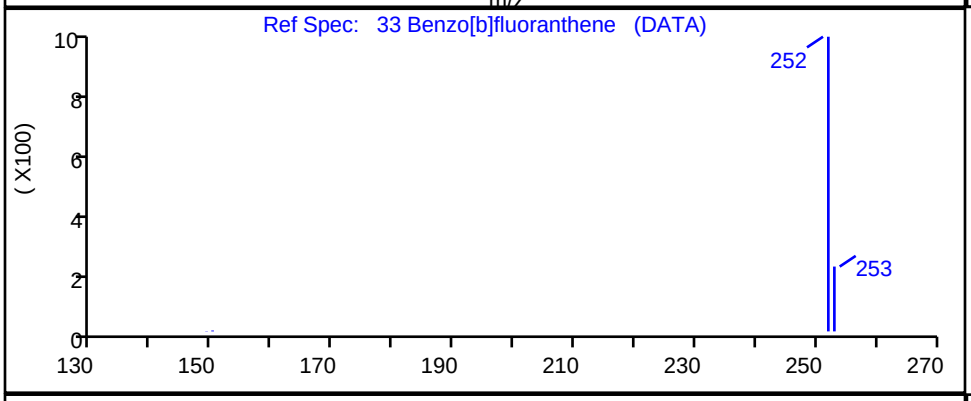
33 Benzo[b]fluoranthene, CAS: 205-99-2

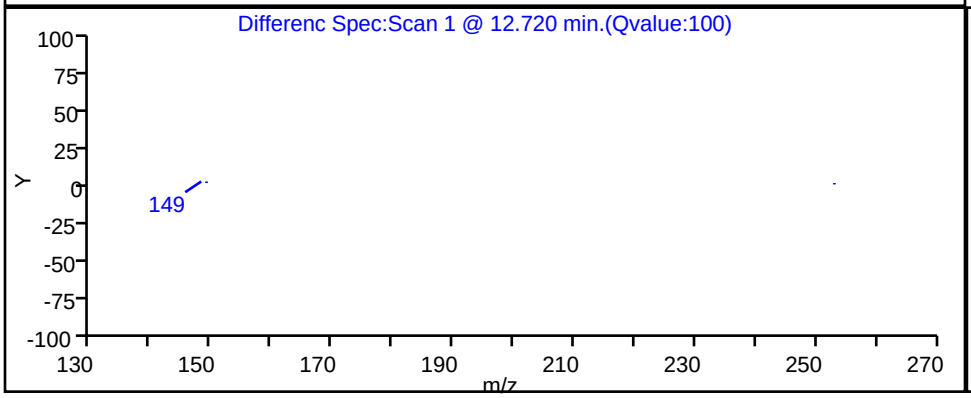


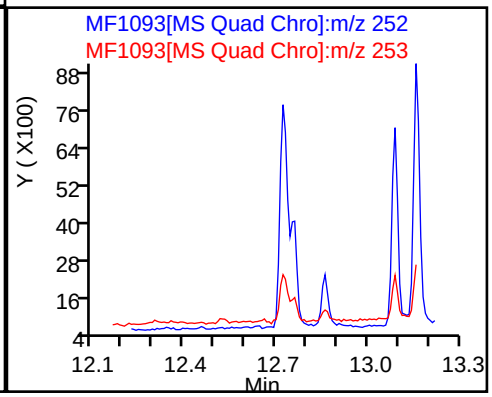








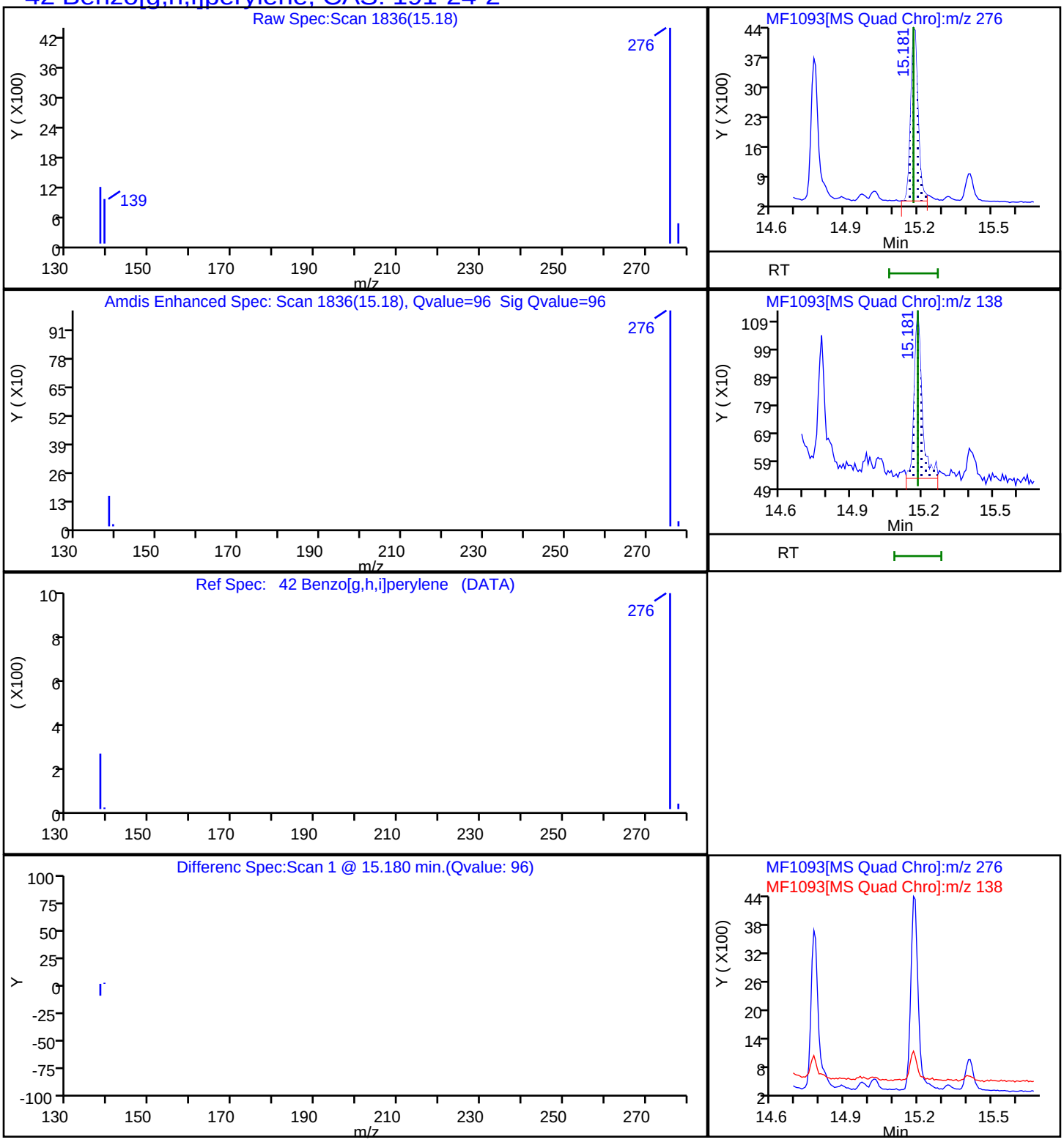




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

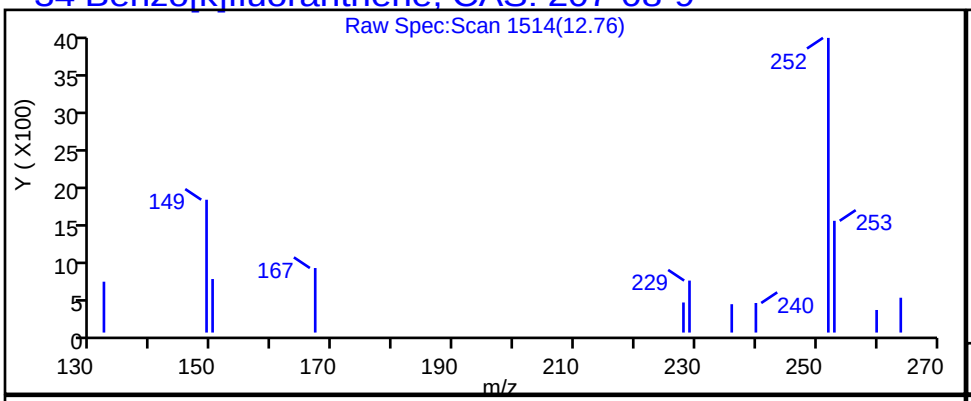
42 Benzo[g,h,i]perylene, CAS: 191-24-2

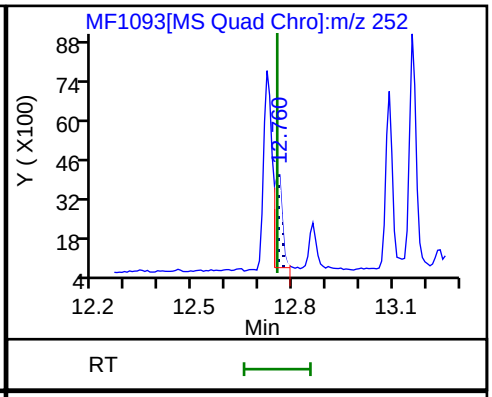


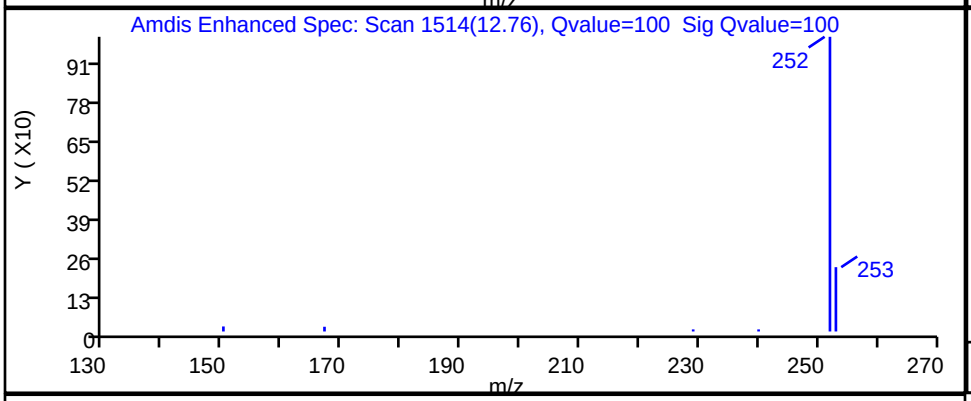
Eurofins Lancaster Laboratories Environment Testing, LLC

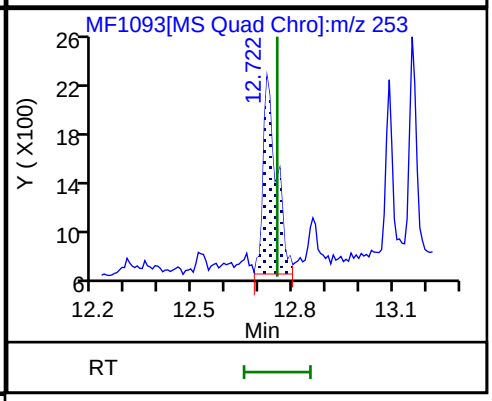
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

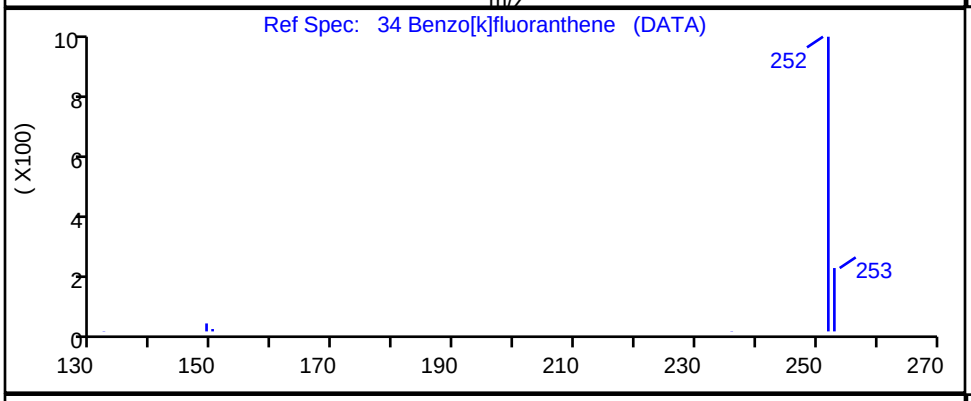
34 Benzo[k]fluoranthene, CAS: 207-08-9

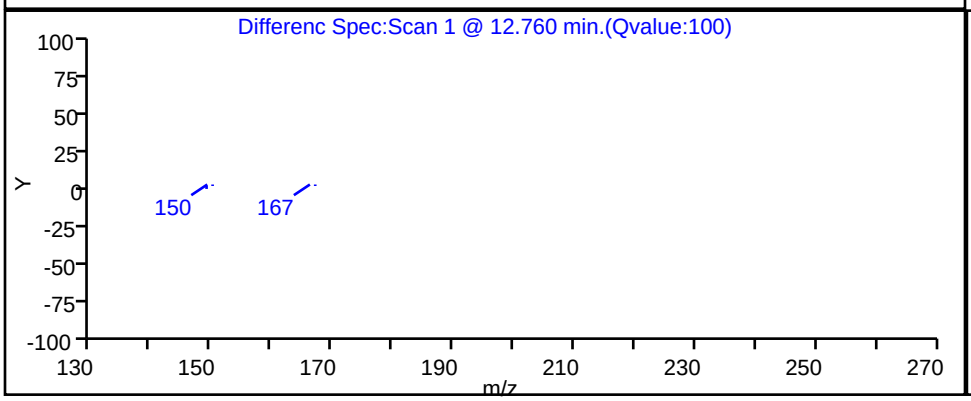


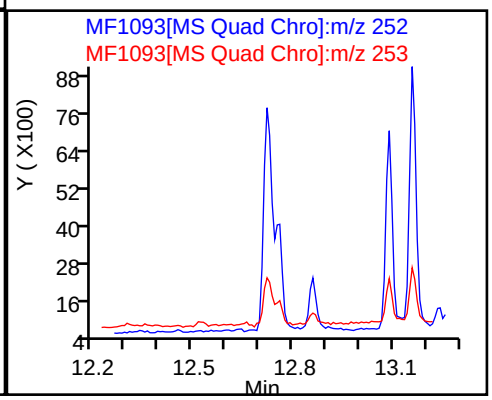










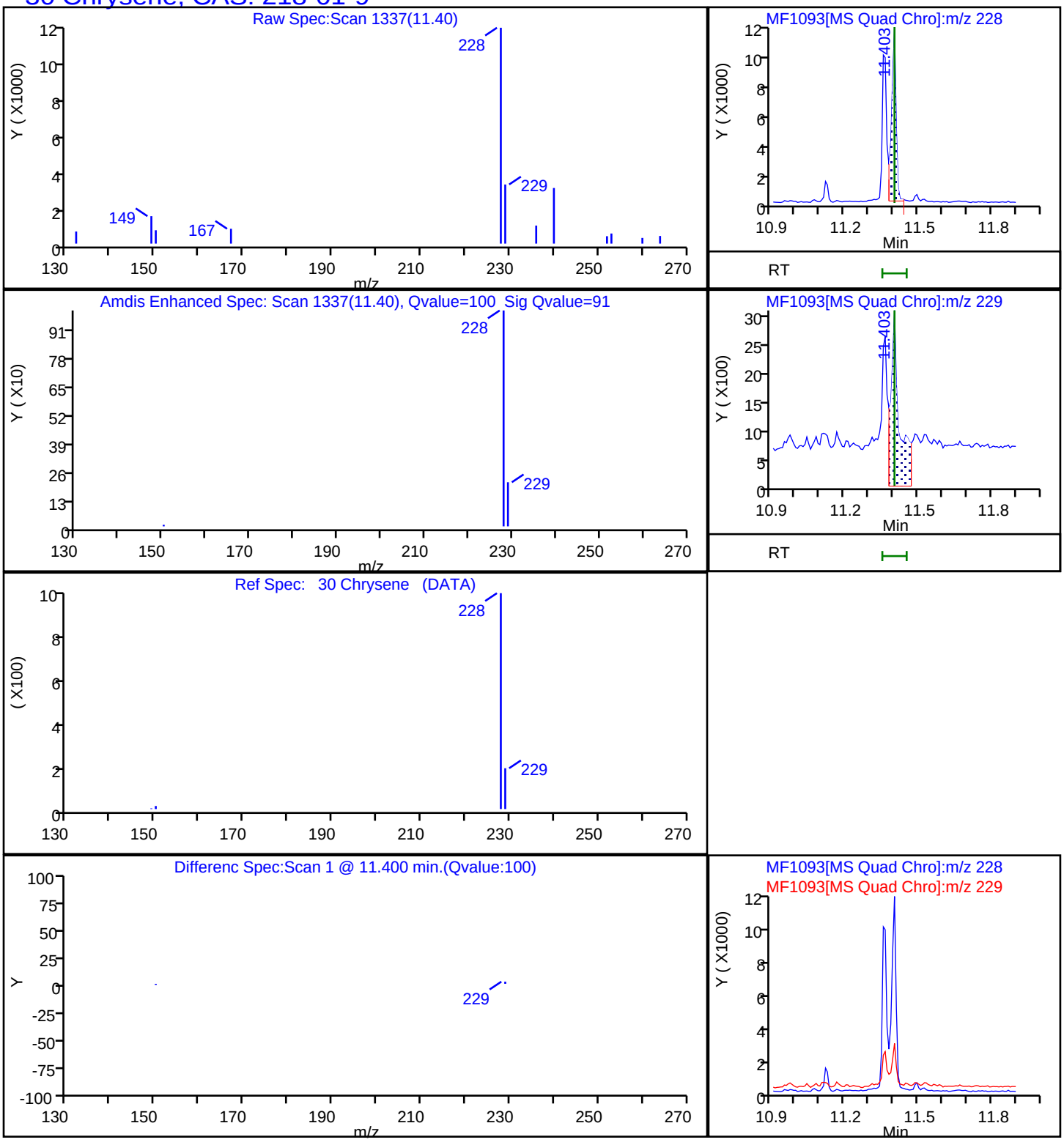


Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9



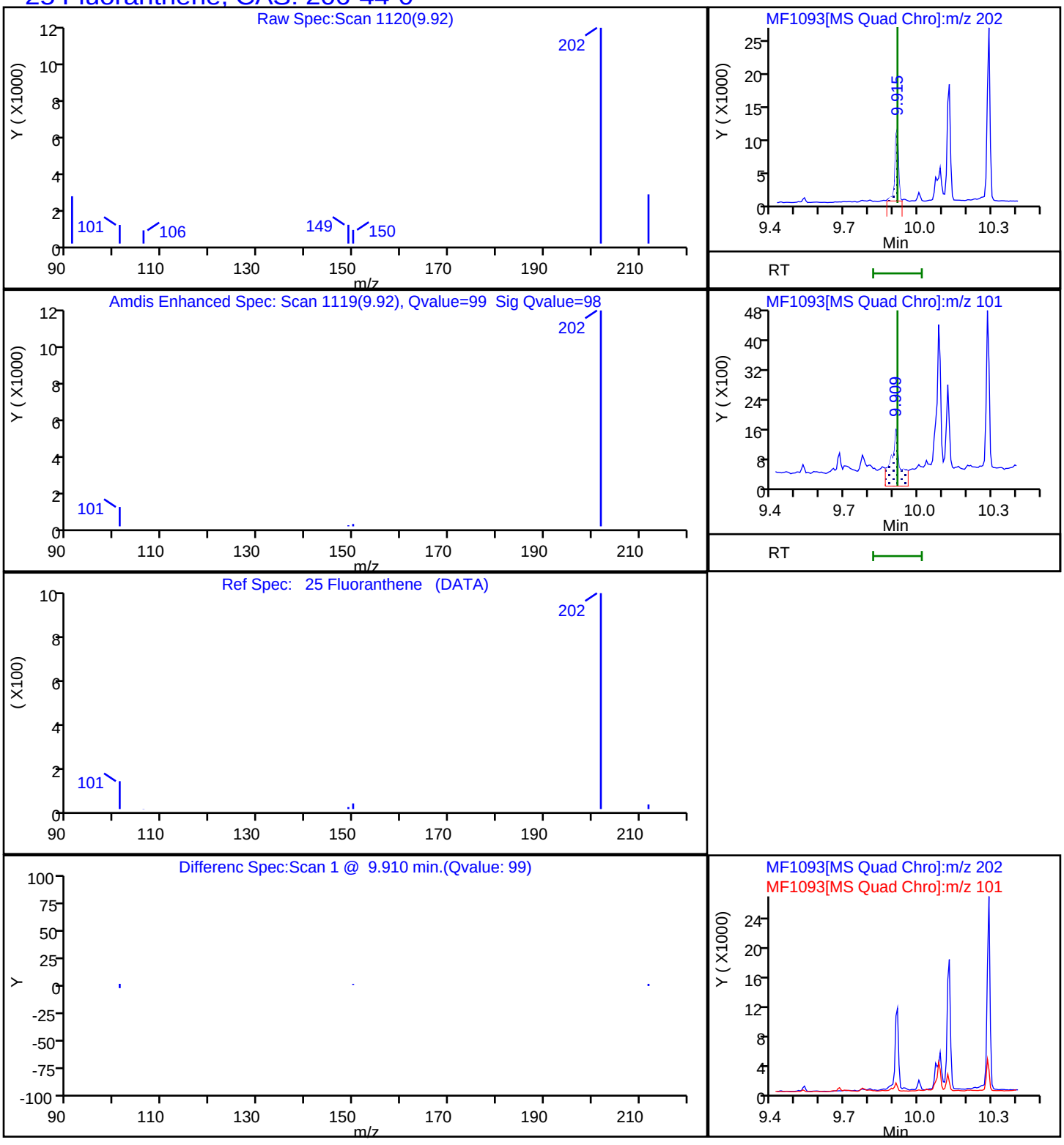
Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D

Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

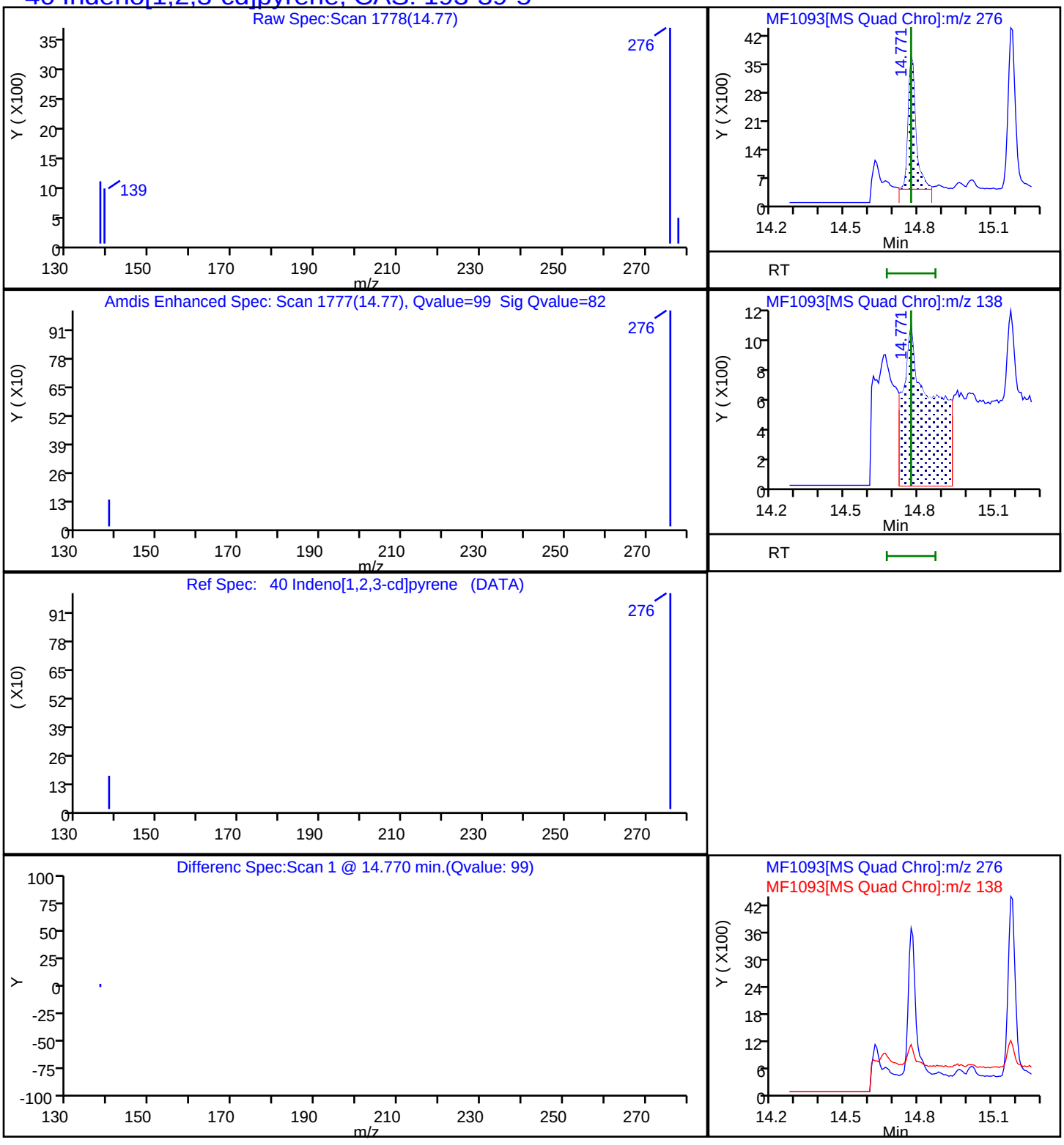


Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

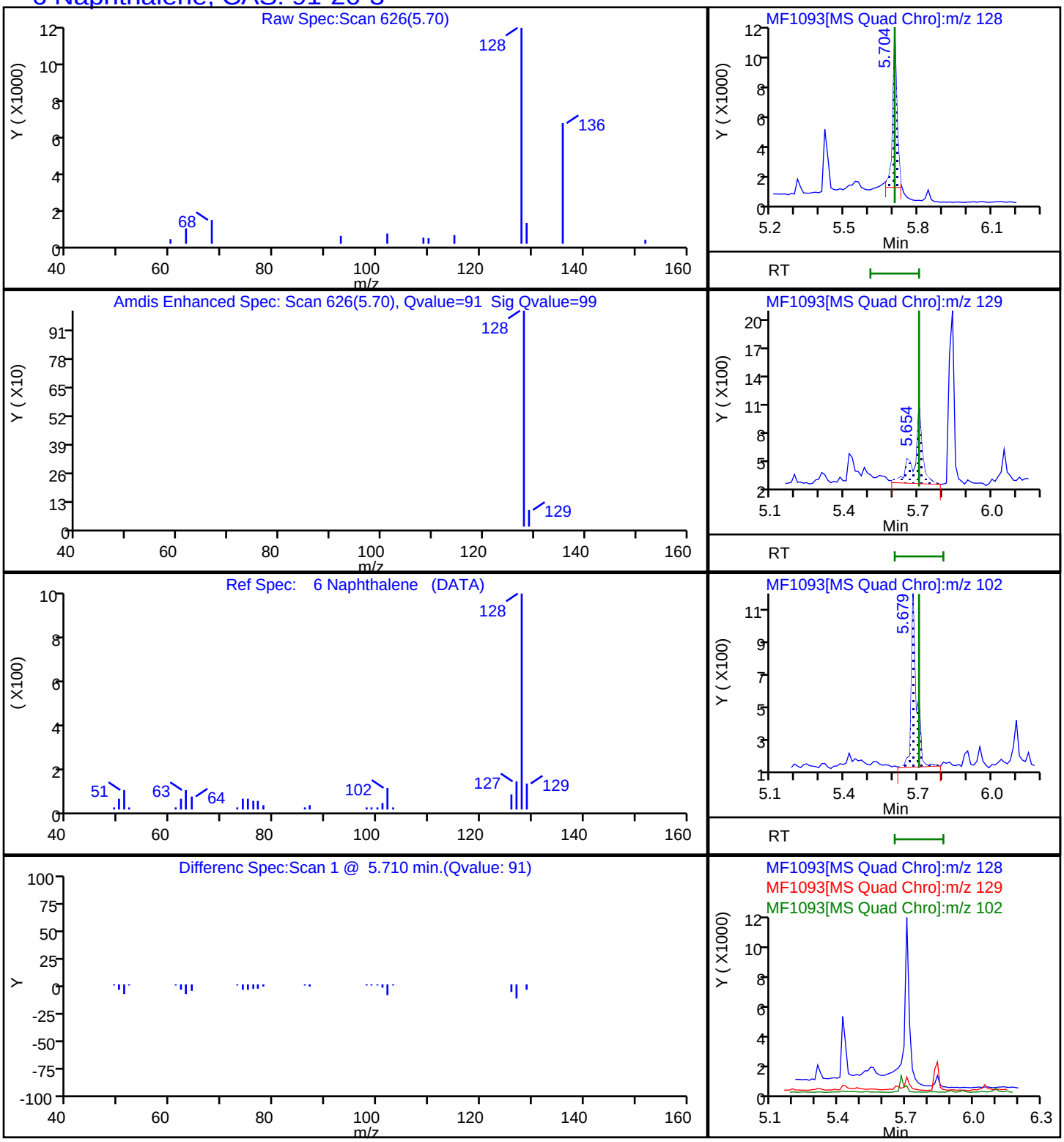


Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D		
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2
Client ID:	MW-12S-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

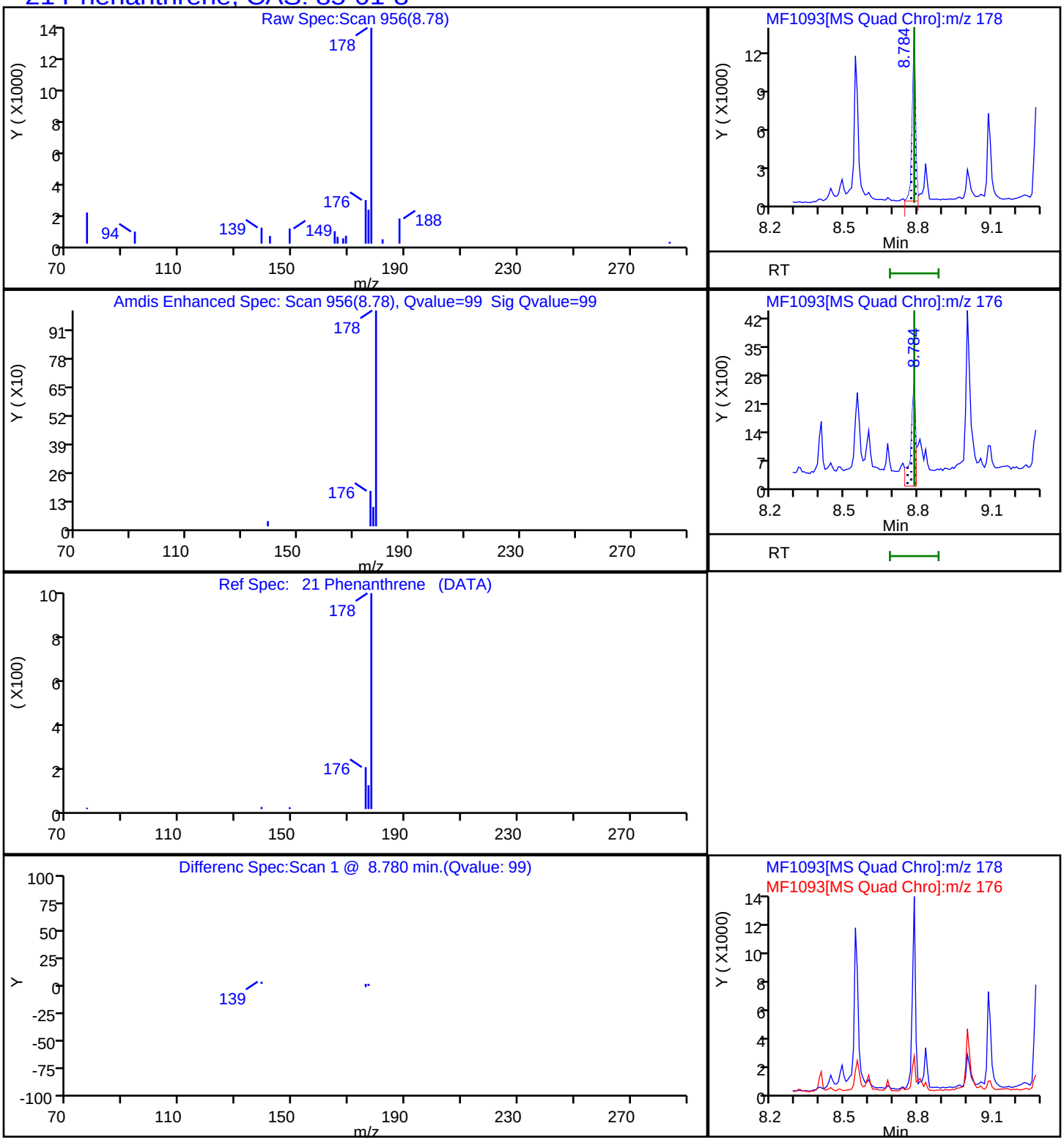
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D		
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2
Client ID:	MW-12S-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

21 Phenanthrene, CAS: 85-01-8



Report Date: 16-Jun-2023 03:31:19 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D

Injection Date: 15-Jun-2023 14:13:30 Instrument ID: HP21585

Lims ID: 410-130132-D-2-A Lab Sample ID: 410-130132-2

Client ID: MW-12S-20230607

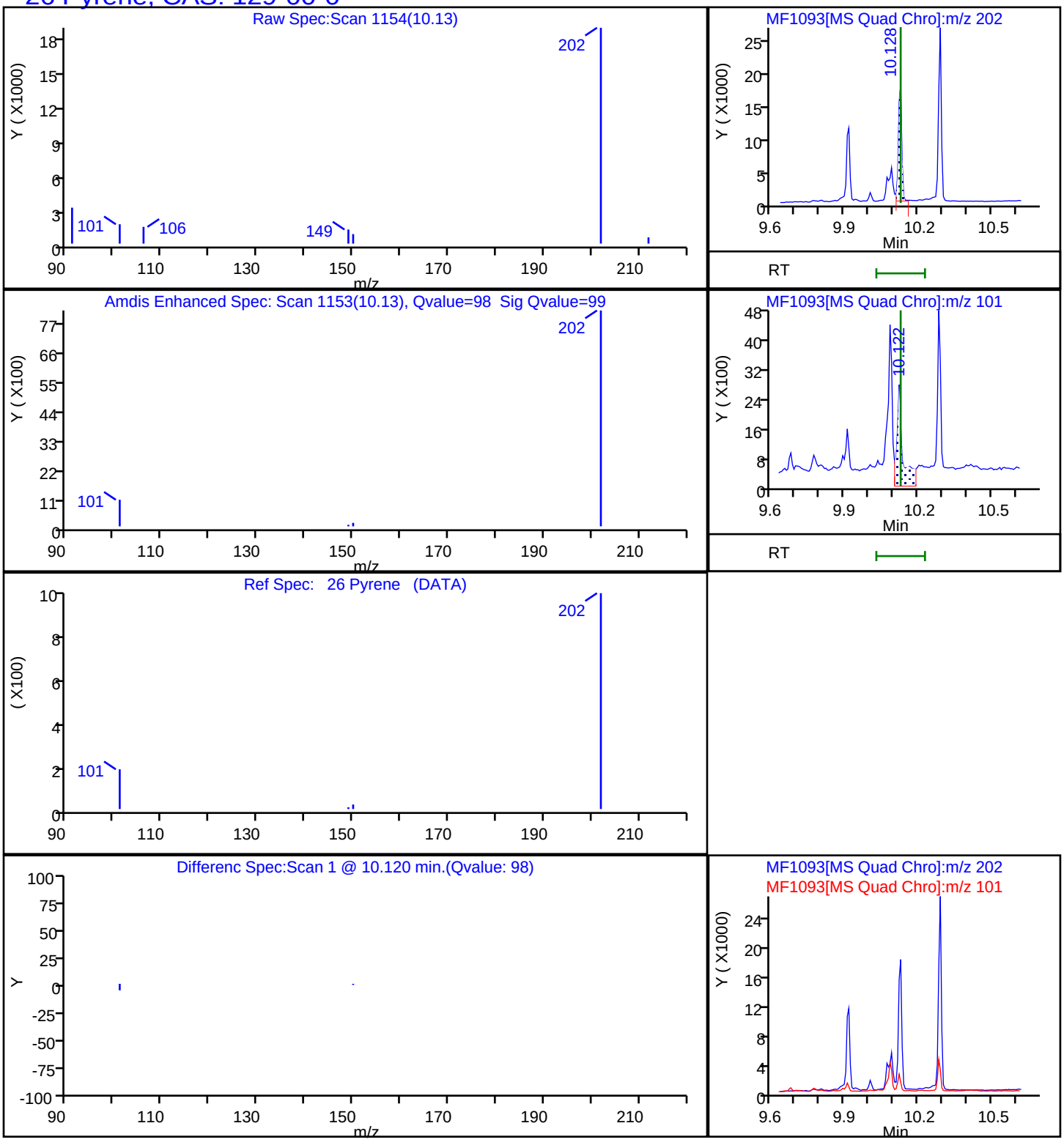
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

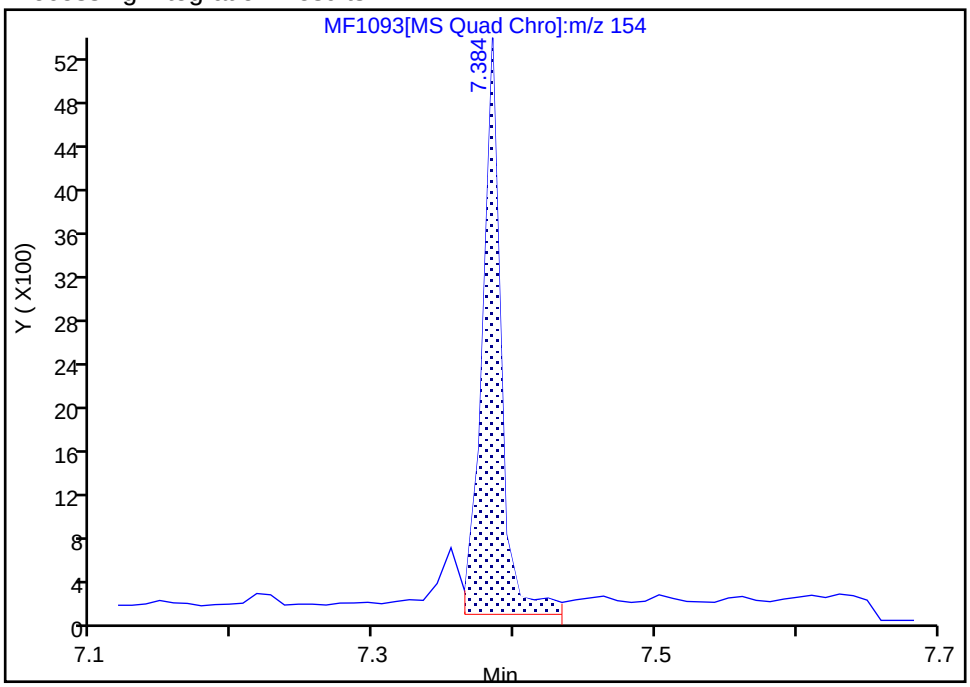
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

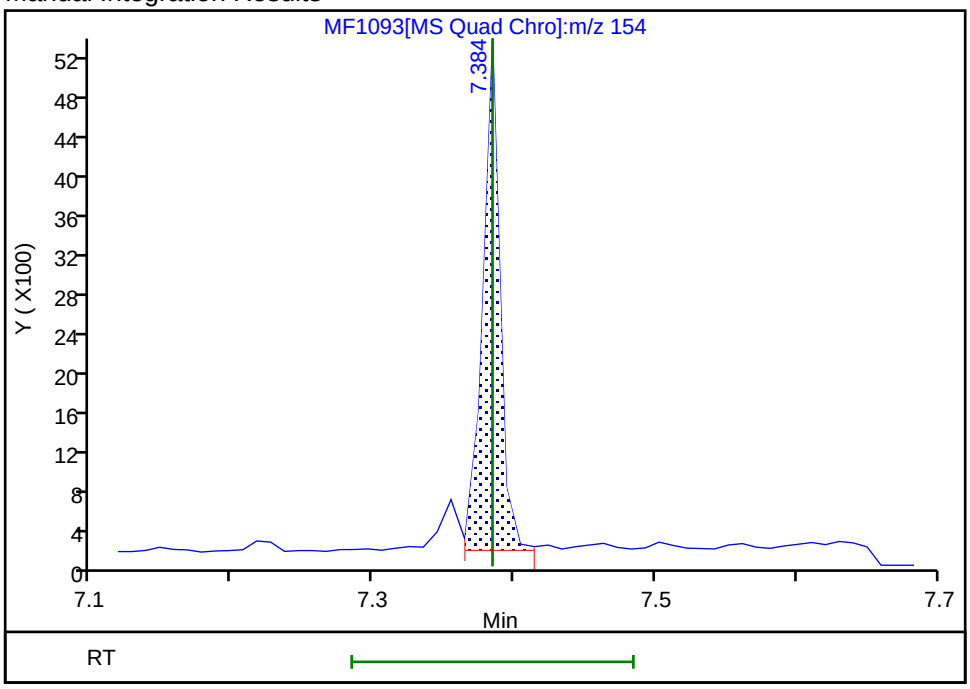
Processing Integration Results

RT: 7.38
Area: 4835
Amount: 0.007958
Amount Units: ug/ml



Manual Integration Results

RT: 7.38
Area: 4357
Amount: 0.007171
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:04 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

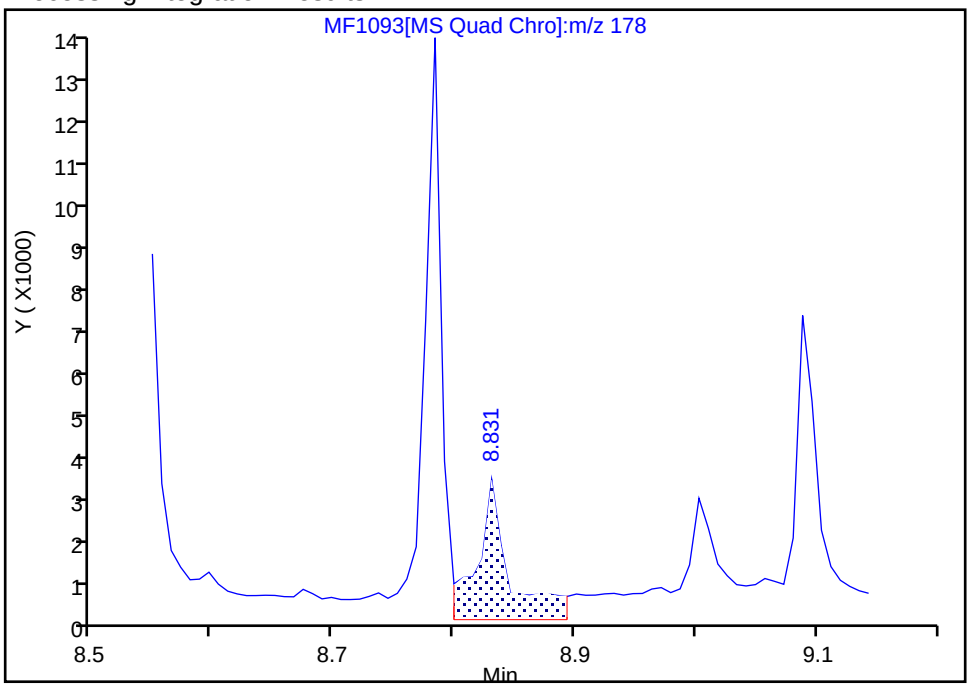
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

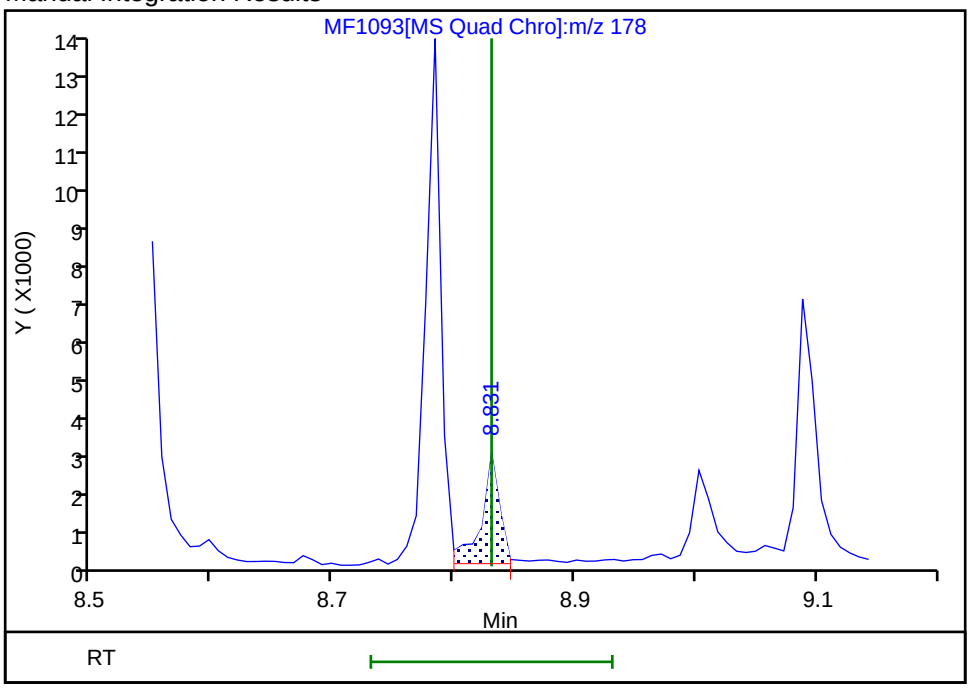
Processing Integration Results

RT: 8.83
Area: 5753
Amount: 0.005191
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 2728
Amount: 0.002462
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:23 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

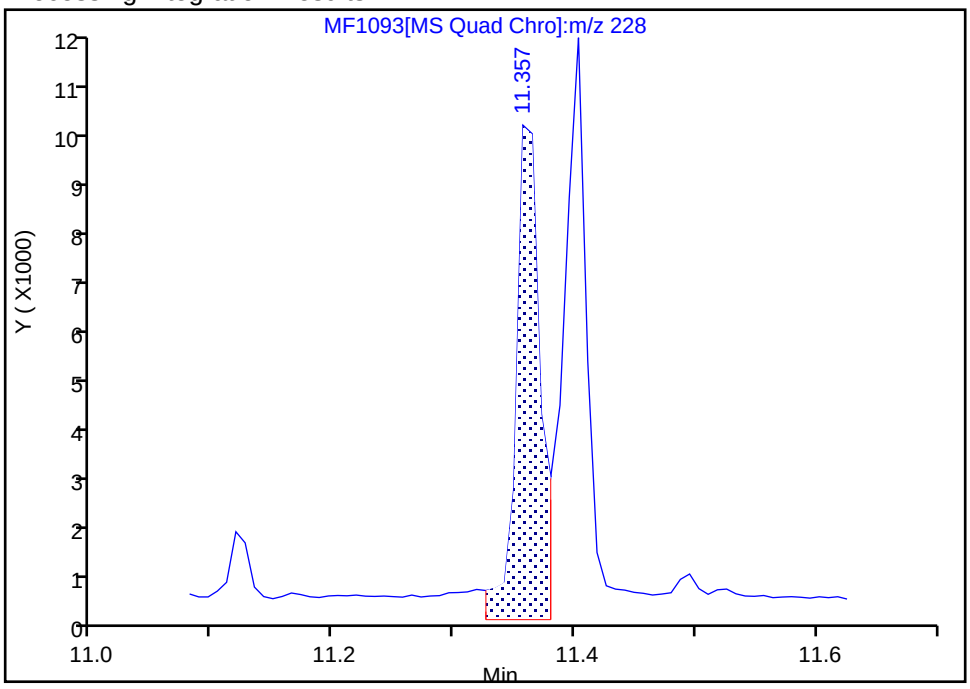
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

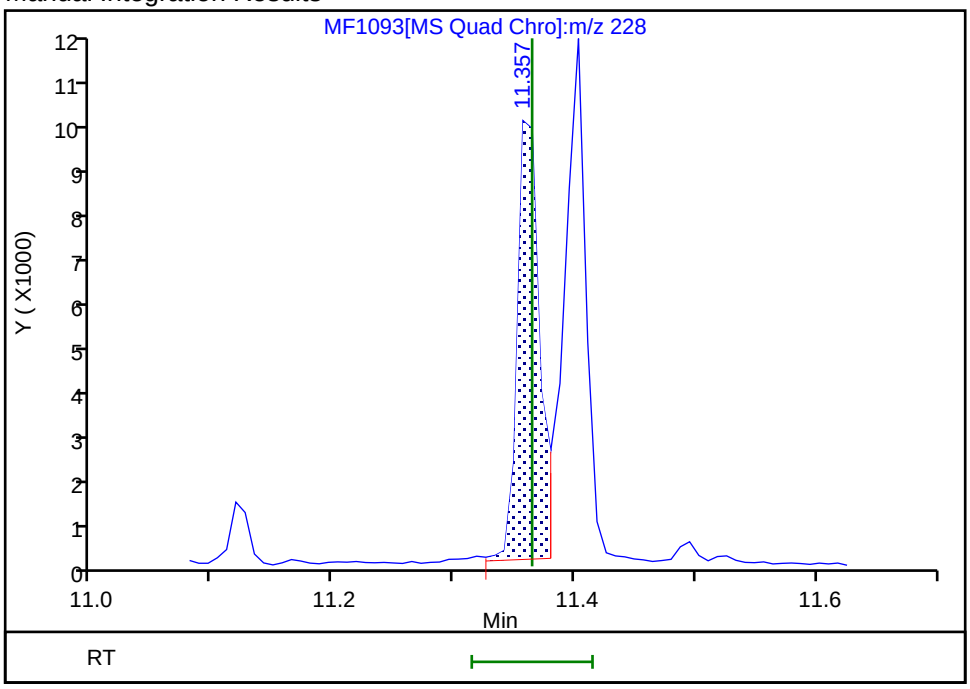
Processing Integration Results

RT: 11.36
Area: 13116
Amount: 0.010384
Amount Units: ug/ml



Manual Integration Results

RT: 11.36
Area: 11416
Amount: 0.009038
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:38 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

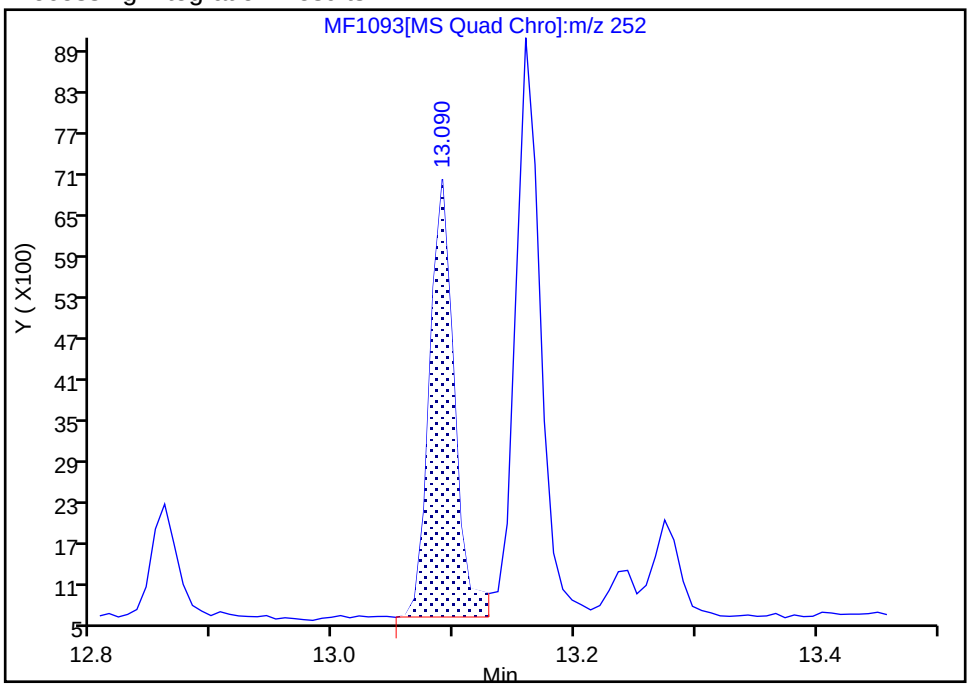
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

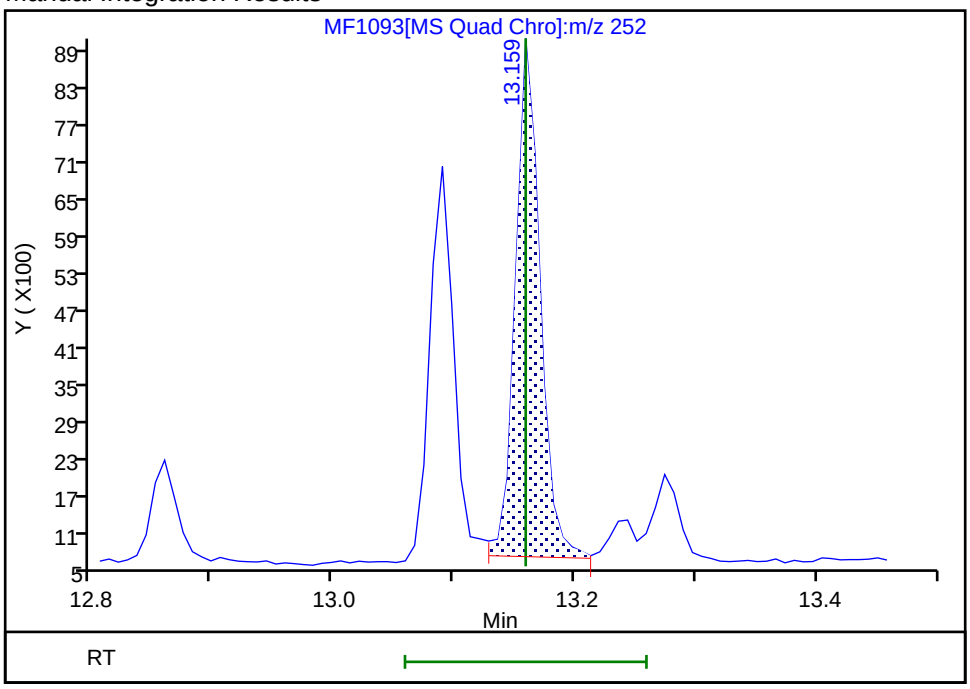
Processing Integration Results

RT: 13.09
Area: 9087
Amount: 0.007384
Amount Units: ug/ml



Manual Integration Results

RT: 13.16
Area: 11842
Amount: 0.009623
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:25:06 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

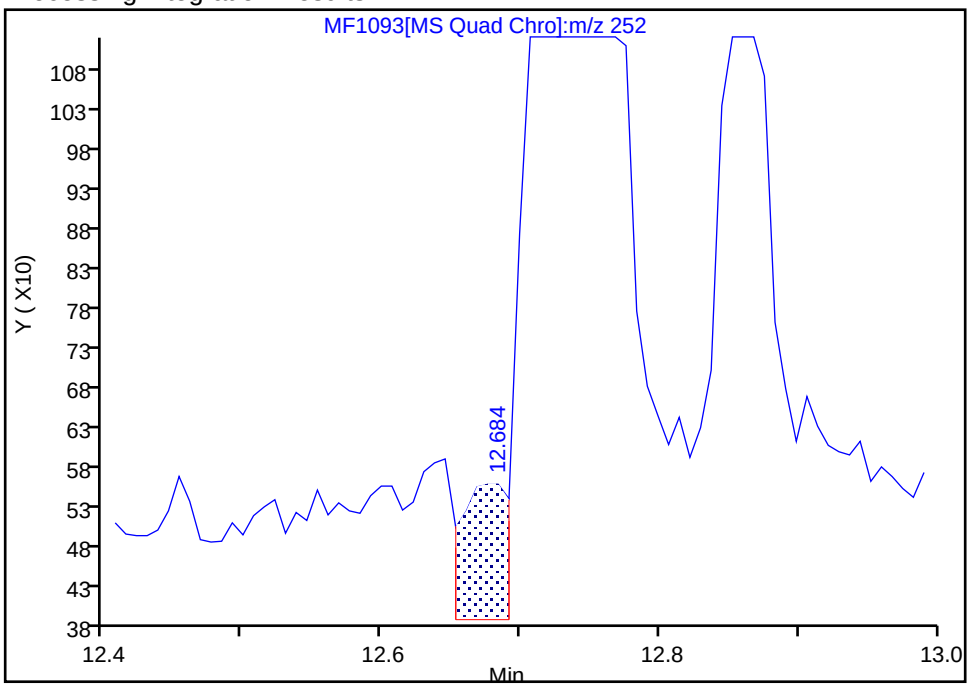
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

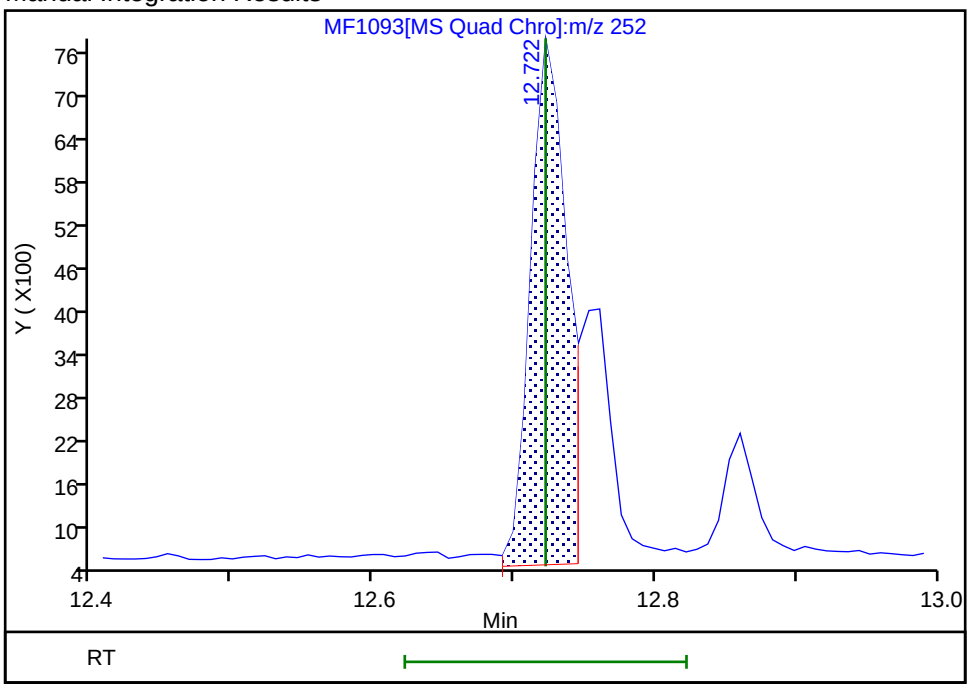
Processing Integration Results

RT: 12.68
Area: 358
Amount: 0.000263
Amount Units: ug/ml



Manual Integration Results

RT: 12.72
Area: 12708
Amount: 0.009345
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:54 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

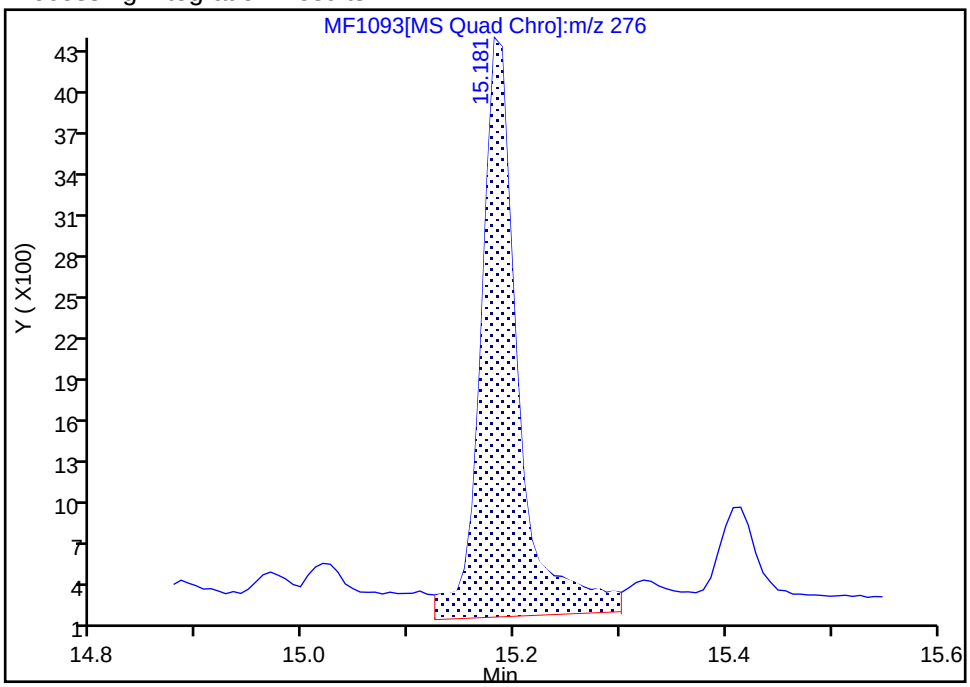
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

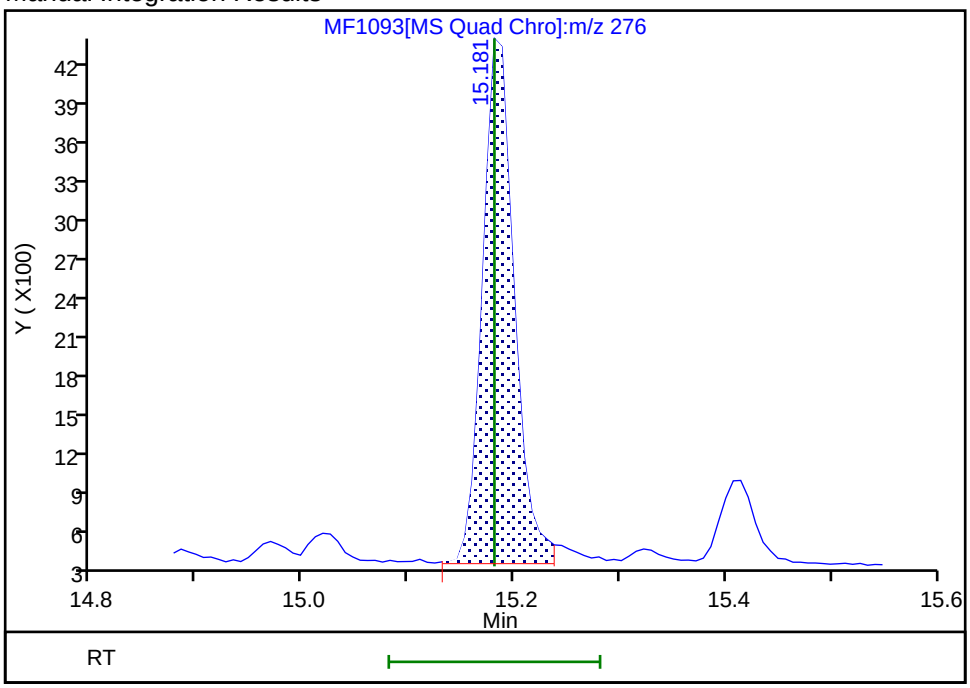
Processing Integration Results

RT: 15.18
Area: 10079
Amount: 0.006993
Amount Units: ug/ml



Manual Integration Results

RT: 15.18
Area: 8225
Amount: 0.005707
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:25:18 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

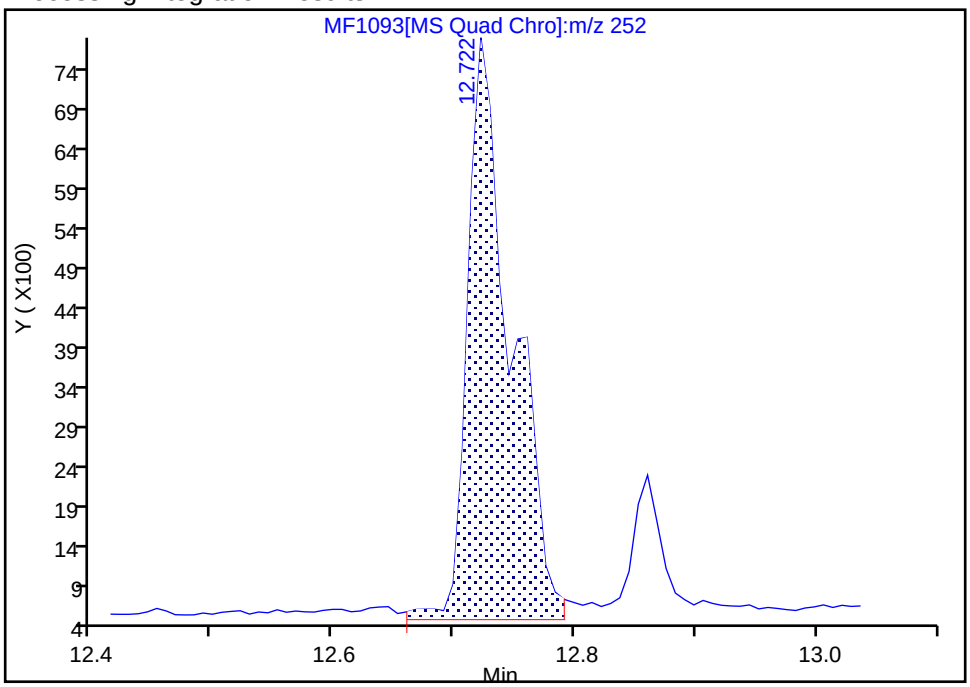
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

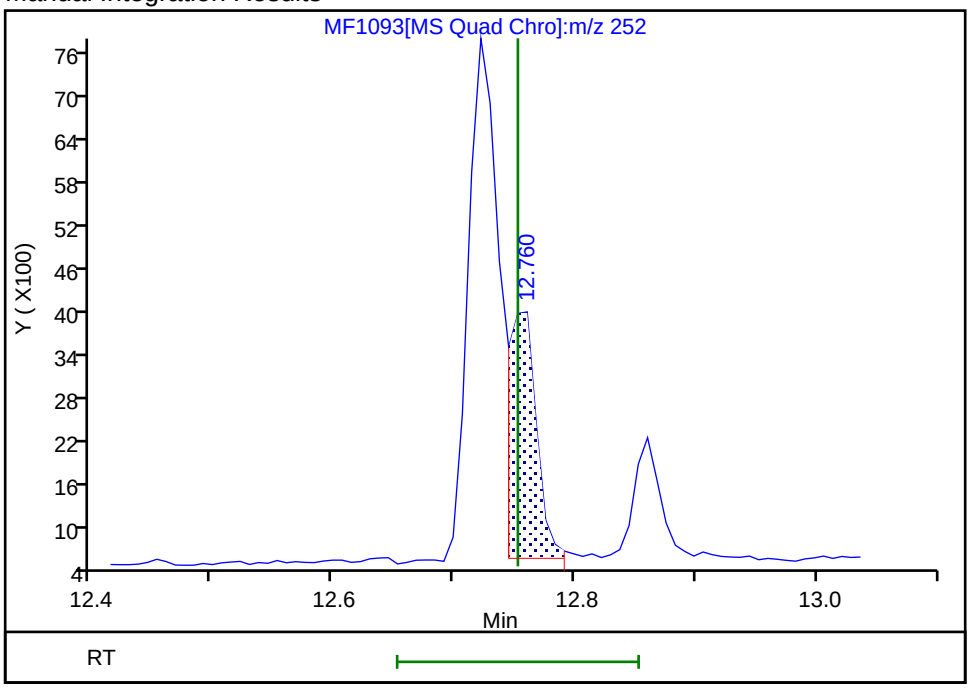
Processing Integration Results

RT: 12.72
Area: 18373
Amount: 0.012669
Amount Units: ug/ml



Manual Integration Results

RT: 12.76
Area: 4969
Amount: 0.003426
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:25:00 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

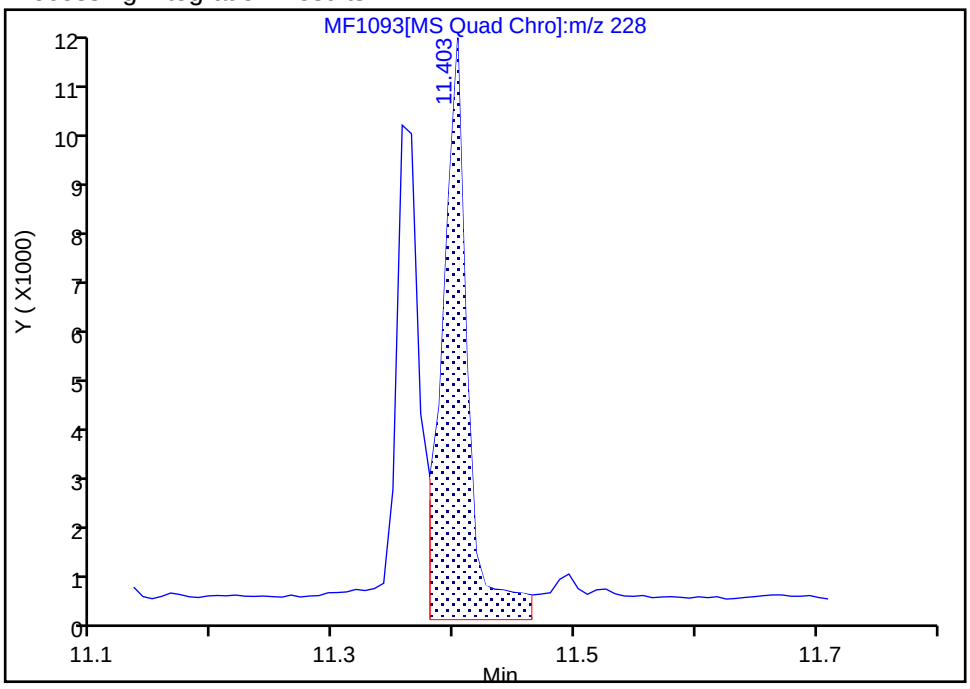
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

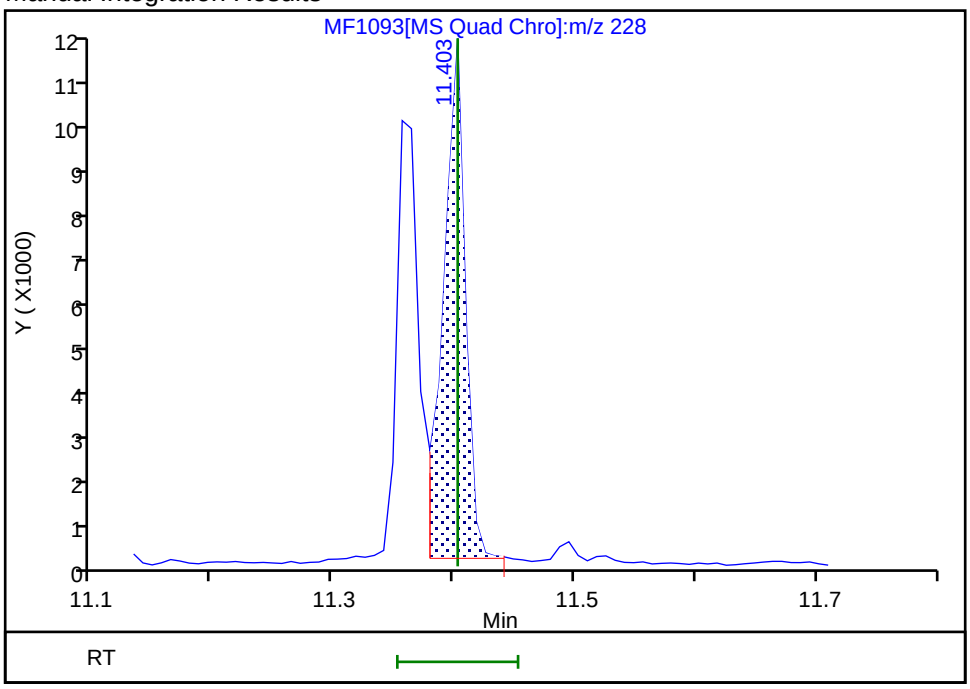
Processing Integration Results

RT: 11.40
Area: 15852
Amount: 0.010317
Amount Units: ug/ml



Manual Integration Results

RT: 11.40
Area: 13149
Amount: 0.008558
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:44 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

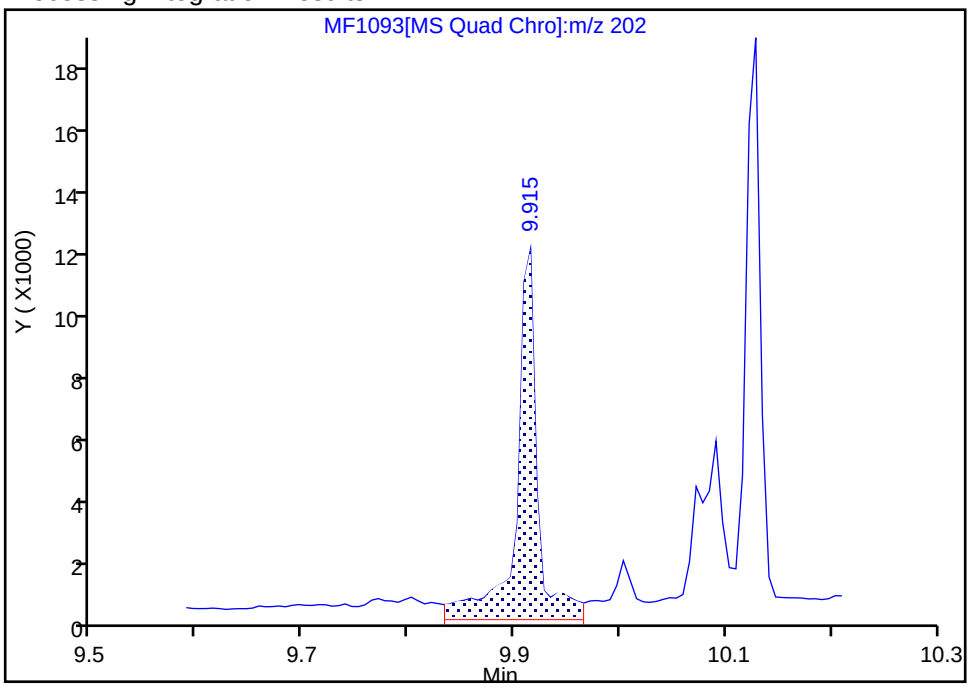
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

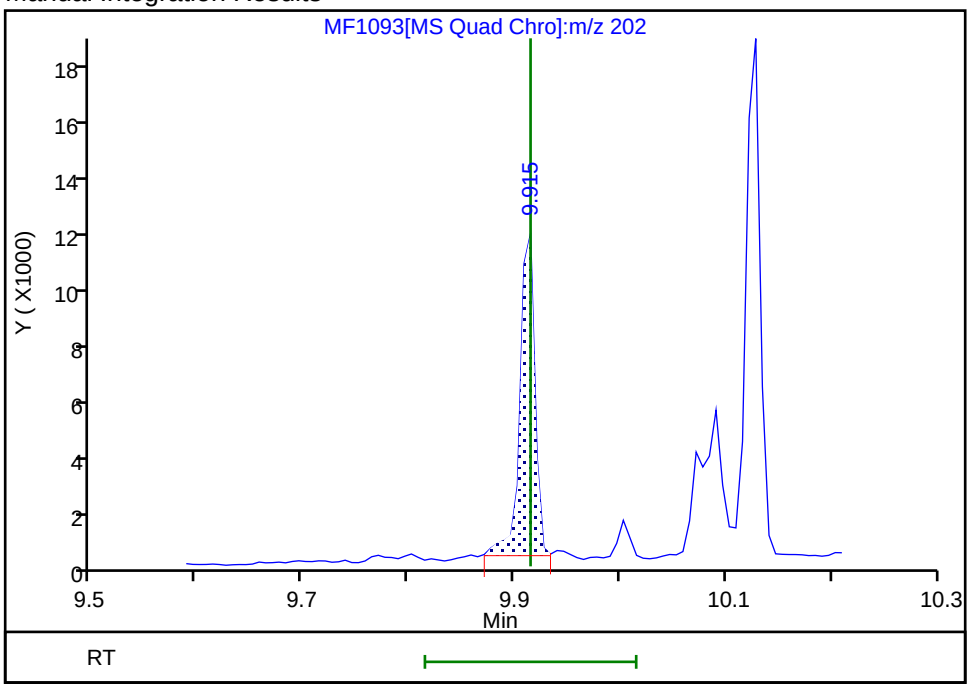
Processing Integration Results

RT: 9.92
Area: 16096
Amount: 0.011244
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 10975
Amount: 0.007666
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:29 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

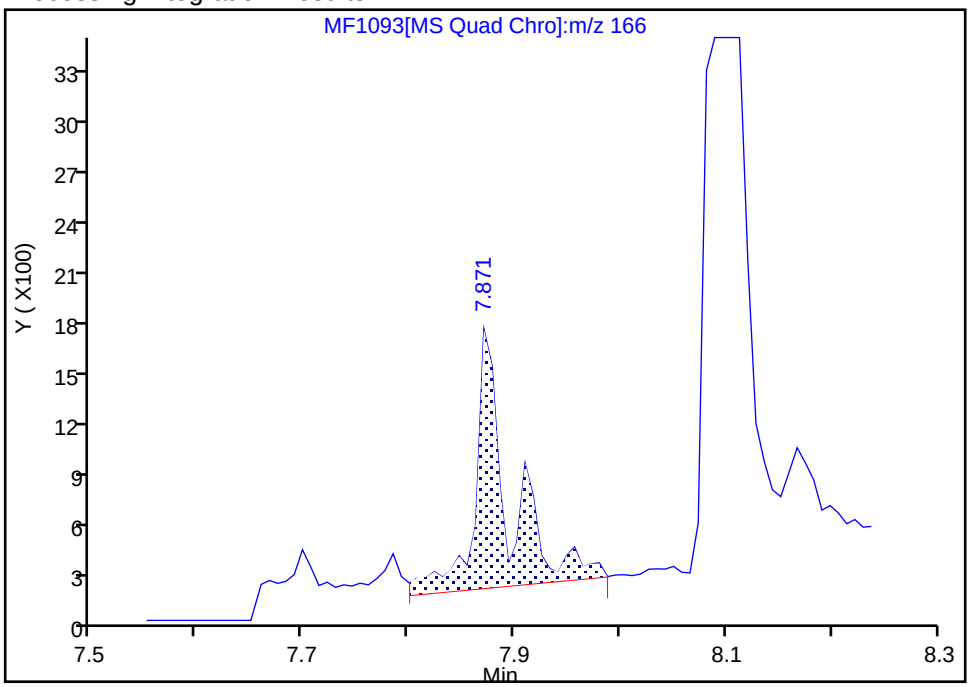
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

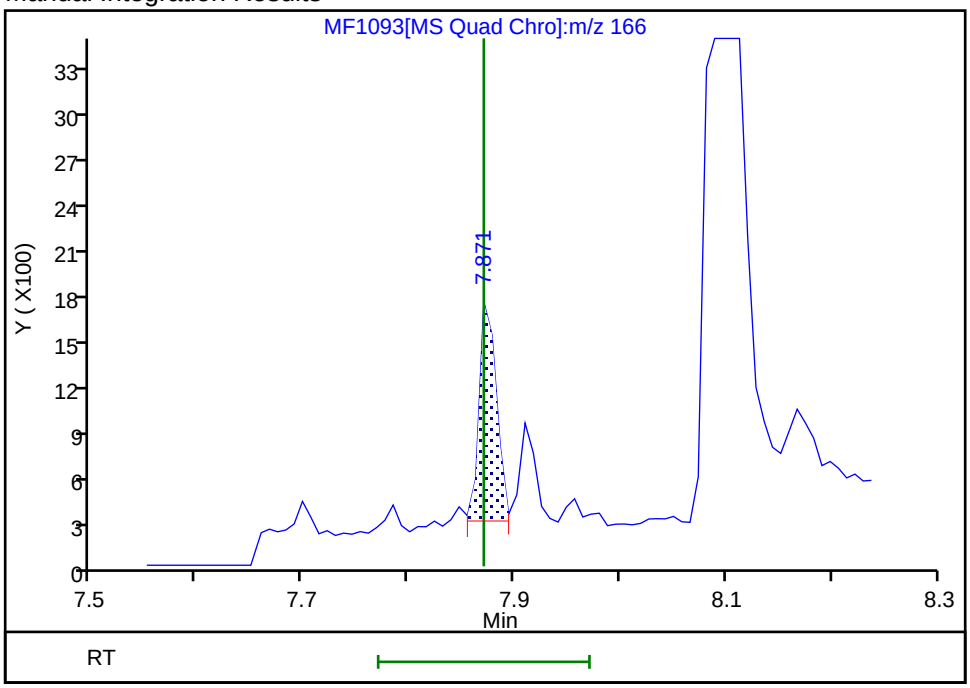
Processing Integration Results

RT: 7.87
Area: 3427
Amount: 0.004416
Amount Units: ug/ml



Manual Integration Results

RT: 7.87
Area: 1621
Amount: 0.002089
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:11 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

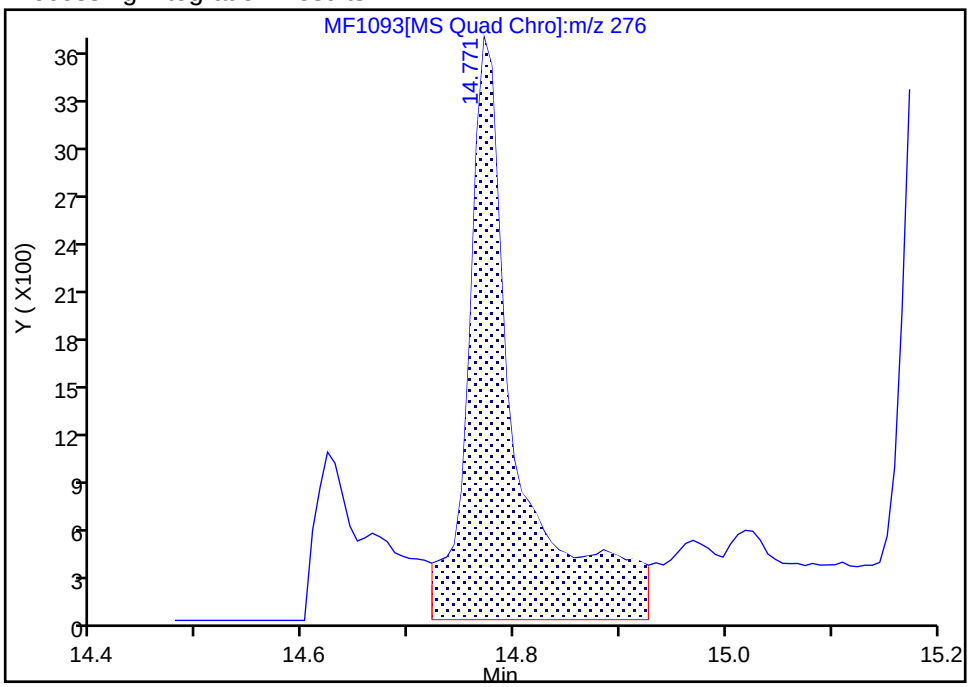
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

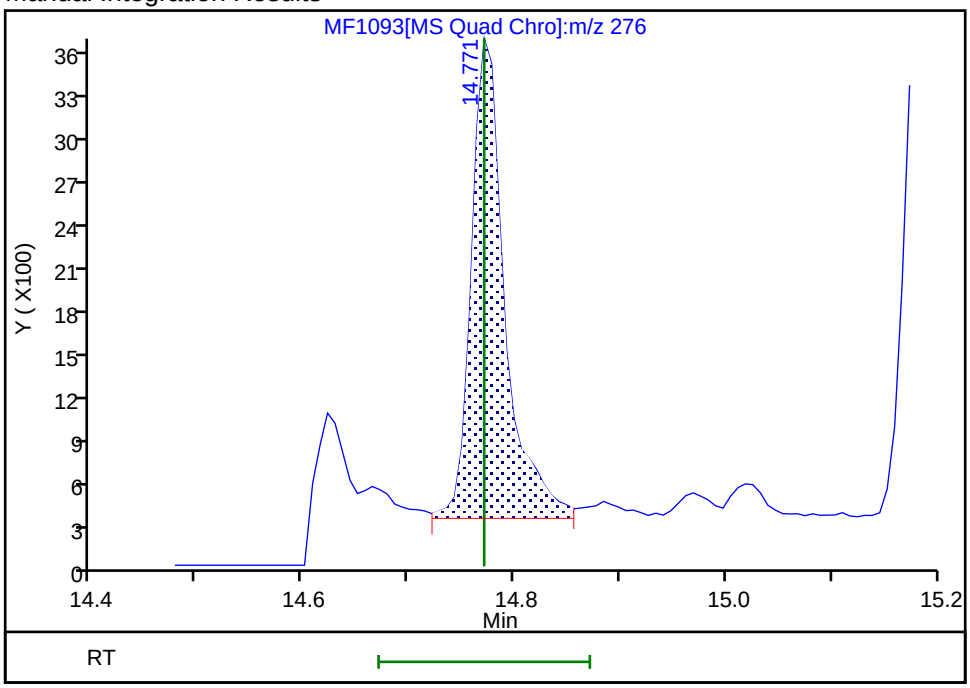
Processing Integration Results

RT: 14.77
Area: 11460
Amount: 0.010129
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 7204
Amount: 0.006367
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:25:12 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

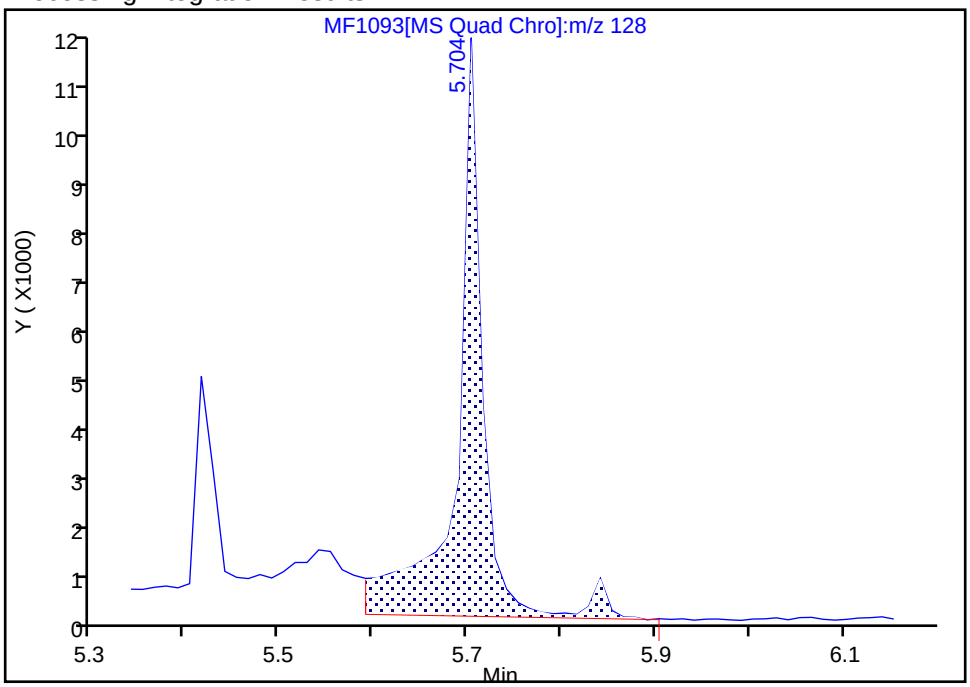
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

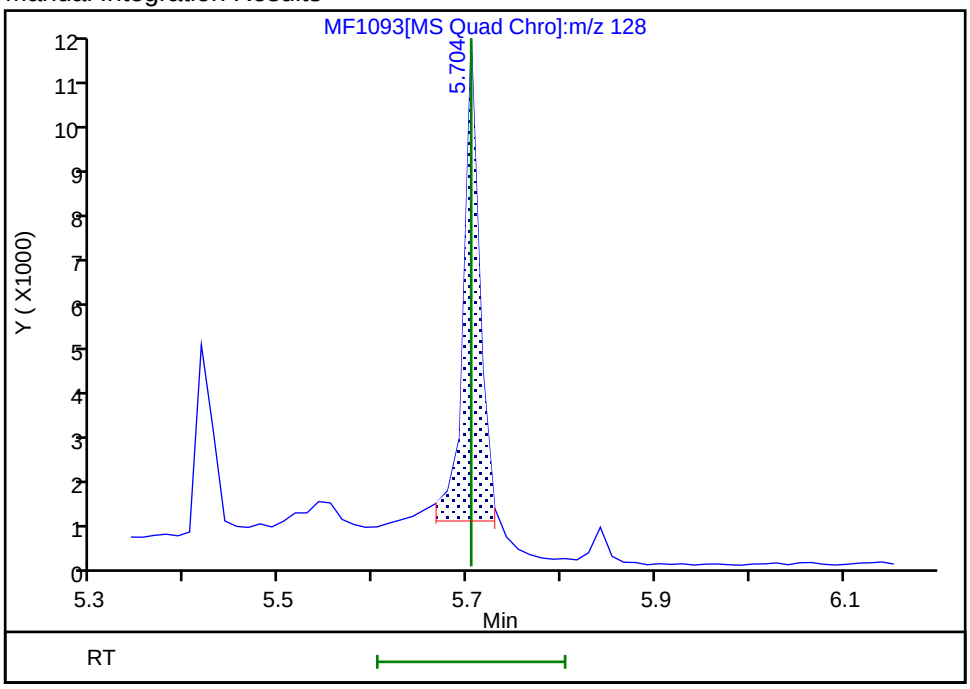
Processing Integration Results

RT: 5.70
Area: 21066
Amount: 0.021870
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 11682
Amount: 0.012128
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:23:55 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

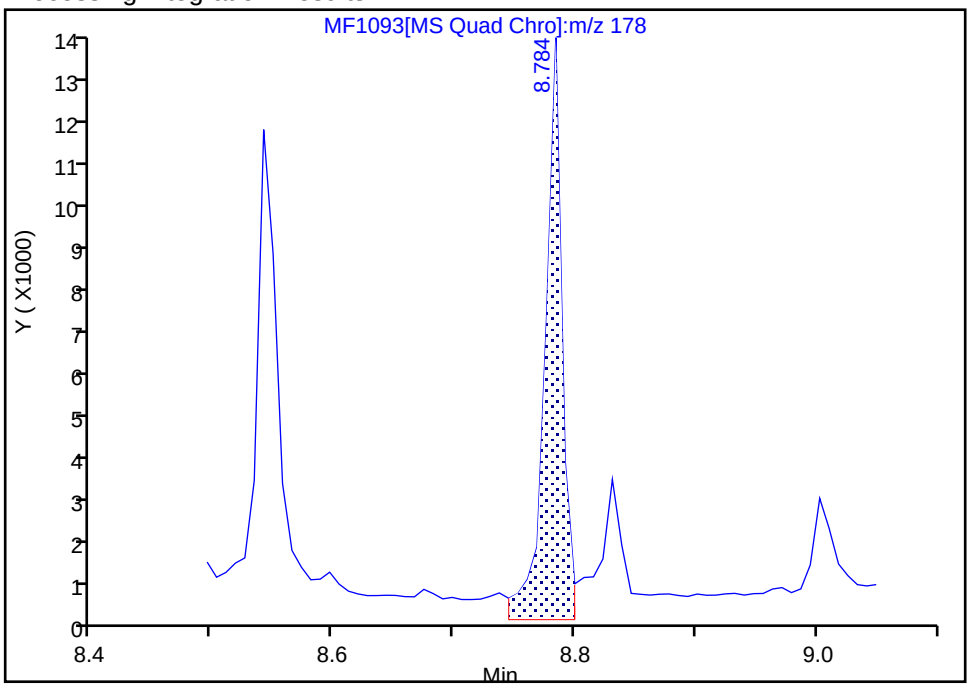
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

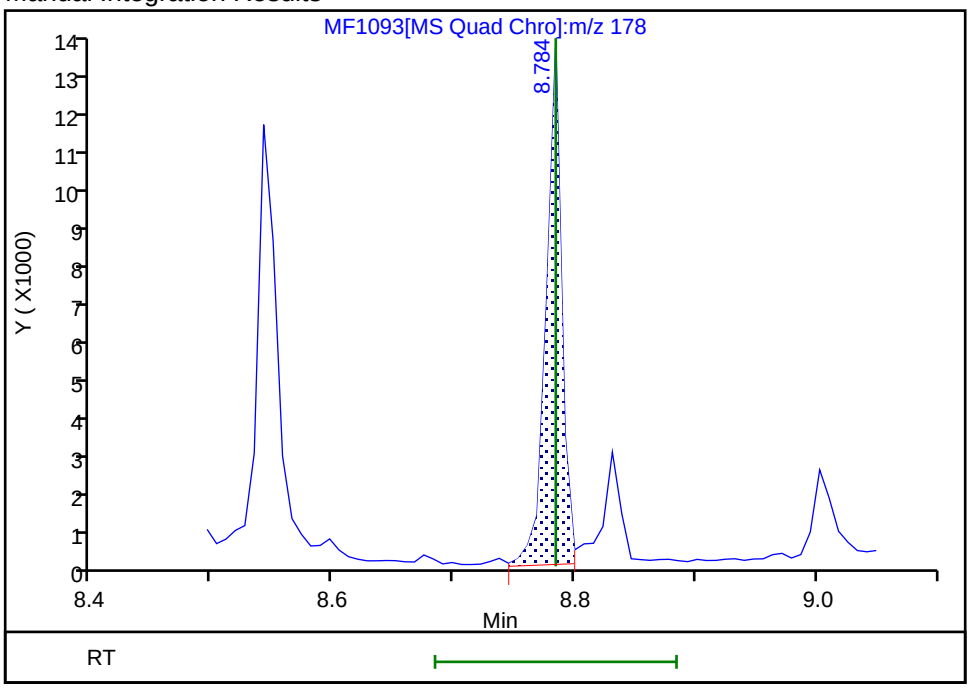
Processing Integration Results

RT: 8.78
Area: 12681
Amount: 0.009936
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 11184
Amount: 0.008763
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:18 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

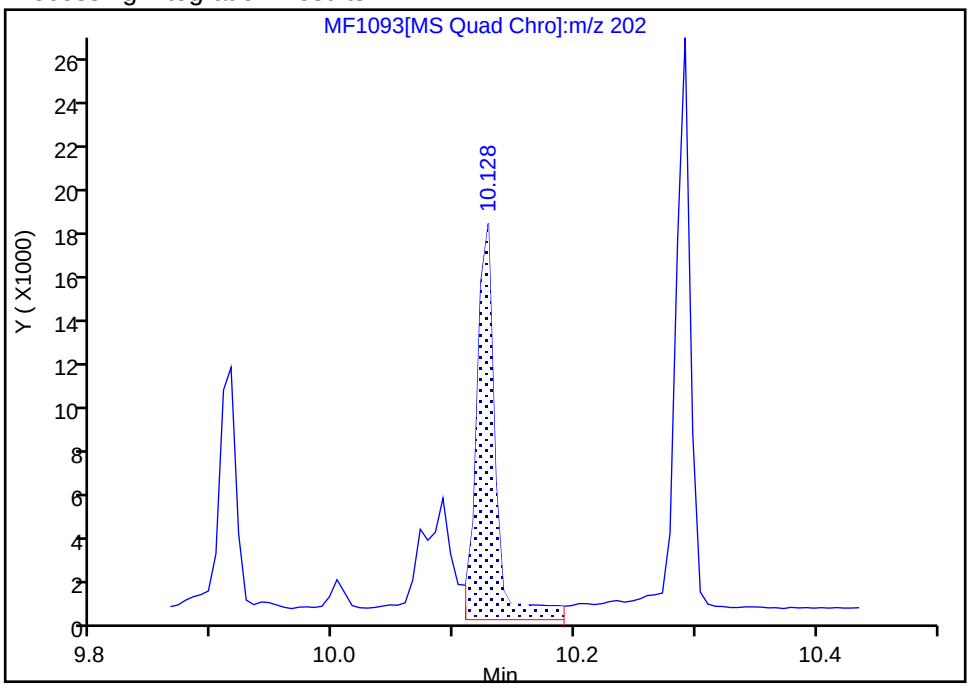
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1093.D				
Injection Date:	15-Jun-2023 14:13:30	Instrument ID:	HP21585		
Lims ID:	410-130132-D-2-A	Lab Sample ID:	410-130132-2		
Client ID:	MW-12S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

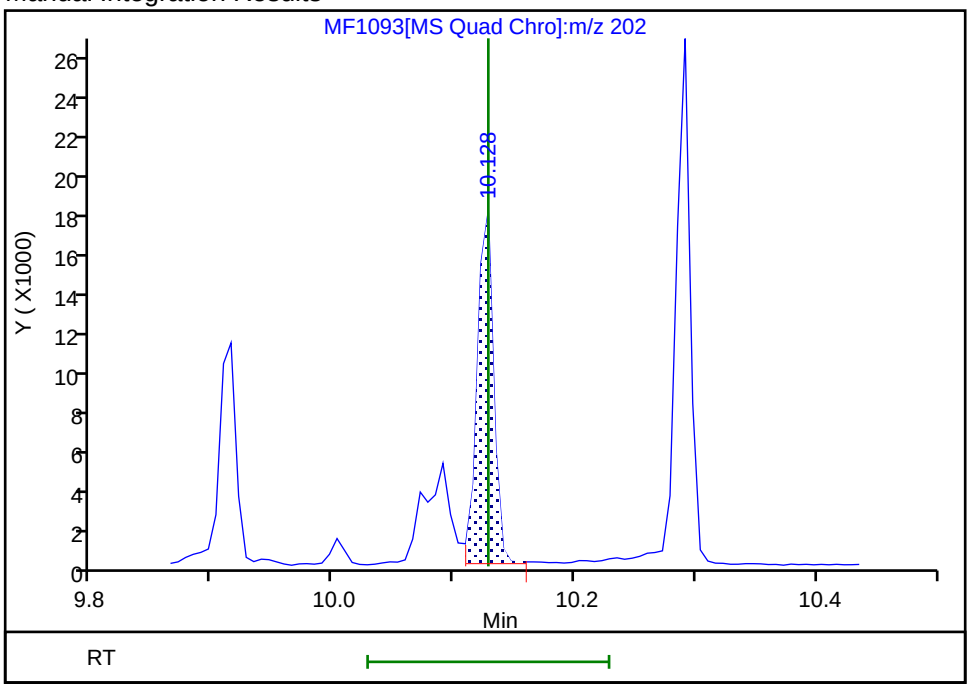
Processing Integration Results

RT: 10.13
Area: 19636
Amount: 0.012673
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 16583
Amount: 0.010703
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:24:33 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-12D-20230607
Lab Sample ID: 410-130132-3

Matrix: Water
Lab File ID: MF1094.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 13:23

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 247.6(mL)
Date Analyzed: 06/15/2023 14:34

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	0.072		0.071	0.030
85-01-8	Phenanthrene	ND		0.071	0.030
129-00-0	Pyrene	ND		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	44		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		33-120
93951-69-0	Fluoranthene-d10 (Surr)	78		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1094.D
Lims ID: 410-130132-D-3-A
Client ID: MW-12D-20230607
Sample Type: Client
Inject. Date: 15-Jun-2023 14:34:54 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-3-A
Misc. Info.: 410-0086657-025
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:26:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	63	61129	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	209896	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	92	17467	0.0179	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	96	95298	0.1865	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	90	130586	0.2500	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	262170	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	232700	0.1942	
25 Fluoranthene	202	9.915	9.915	0.000	97	2053	0.001404	7M
* 29 Chrysene-d12	240	11.372	11.372	0.000	55	245904	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	100	106073	0.1094	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	263633	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.778	14.778	0.007	98	414	0.000357	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

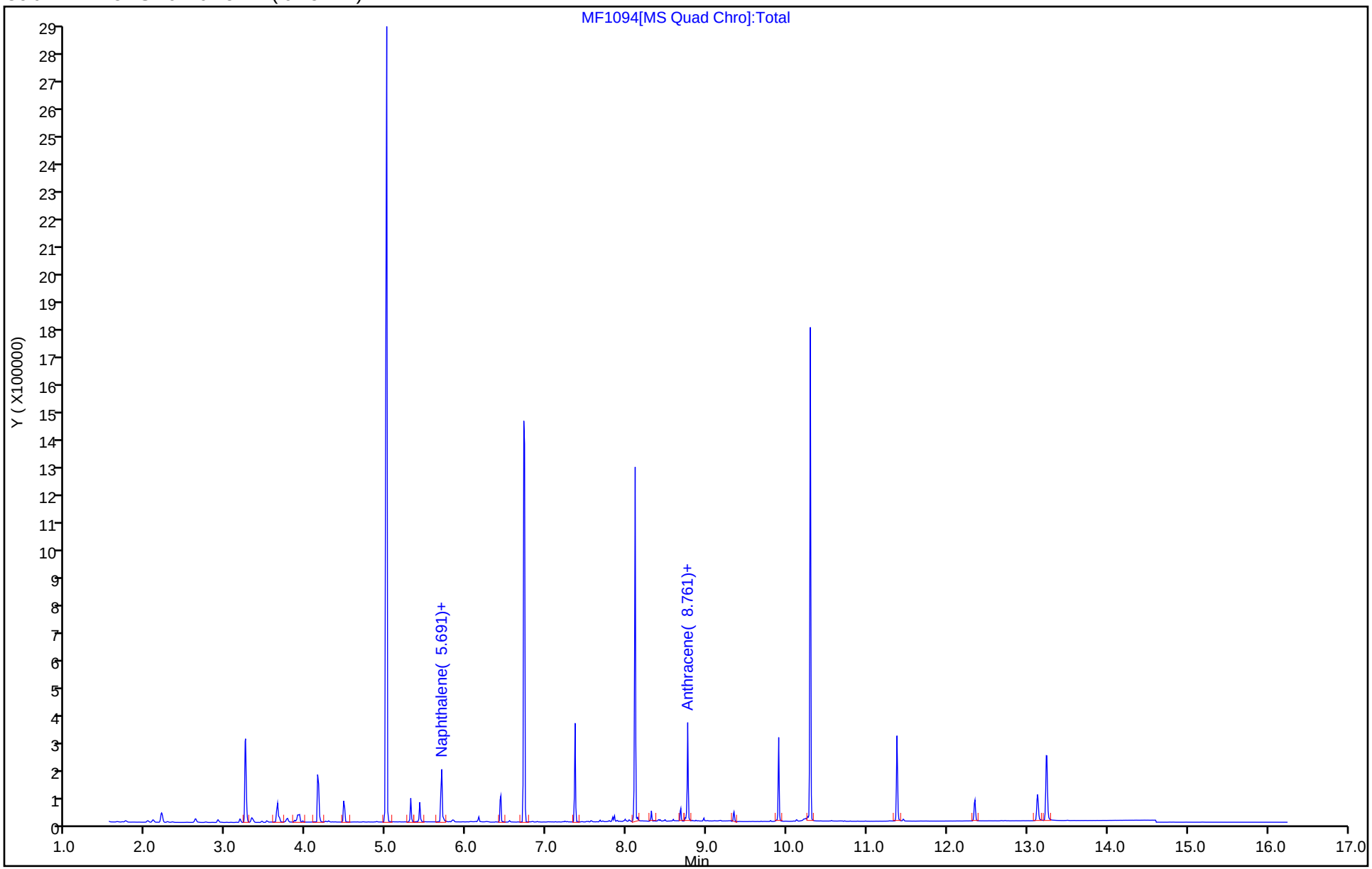
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jun-2023 03:31:20 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1094.D				
Injection Date:	15-Jun-2023 14:34:54	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-3-A	Lab Sample ID:	410-130132-3	Worklist Smp#:	25
Client ID:	MW-12D-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1094.D				
Lims ID:	410-130132-D-3-A				
Client ID:	MW-12D-20230607				
Sample Type:	Client				
Inject. Date:	15-Jun-2023 14:34:54	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-3-A				
Misc. Info.:	410-0086657-025				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	16-Jun-2023 03:30:30	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:26:13

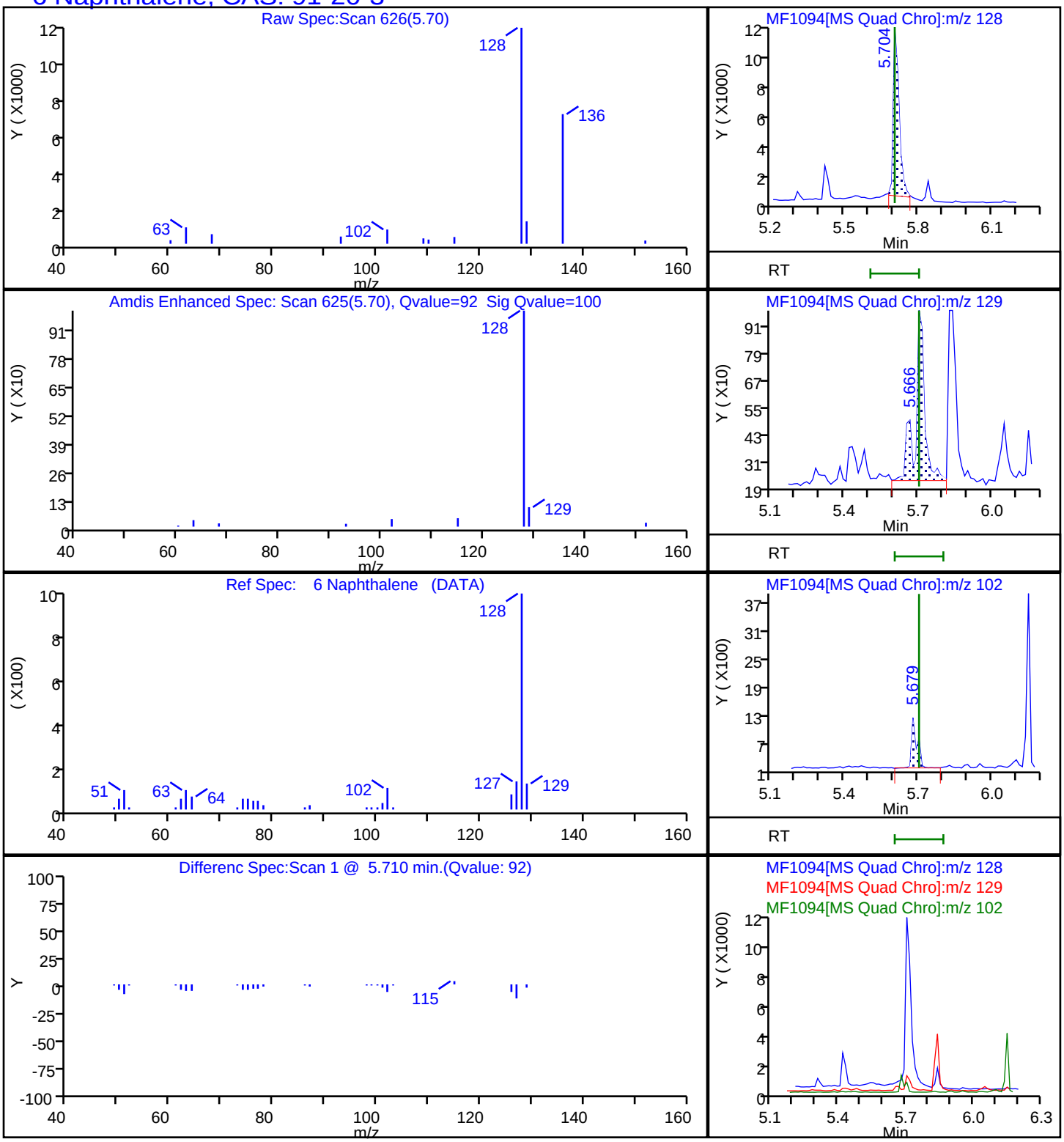
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1865	74.59
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1942	77.67
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1094	43.77

Report Date: 16-Jun-2023 03:31:20 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1094.D				
Injection Date:	15-Jun-2023 14:34:54	Instrument ID:	HP21585		
Lims ID:	410-130132-D-3-A	Lab Sample ID:	410-130132-3		
Client ID:	MW-12D-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

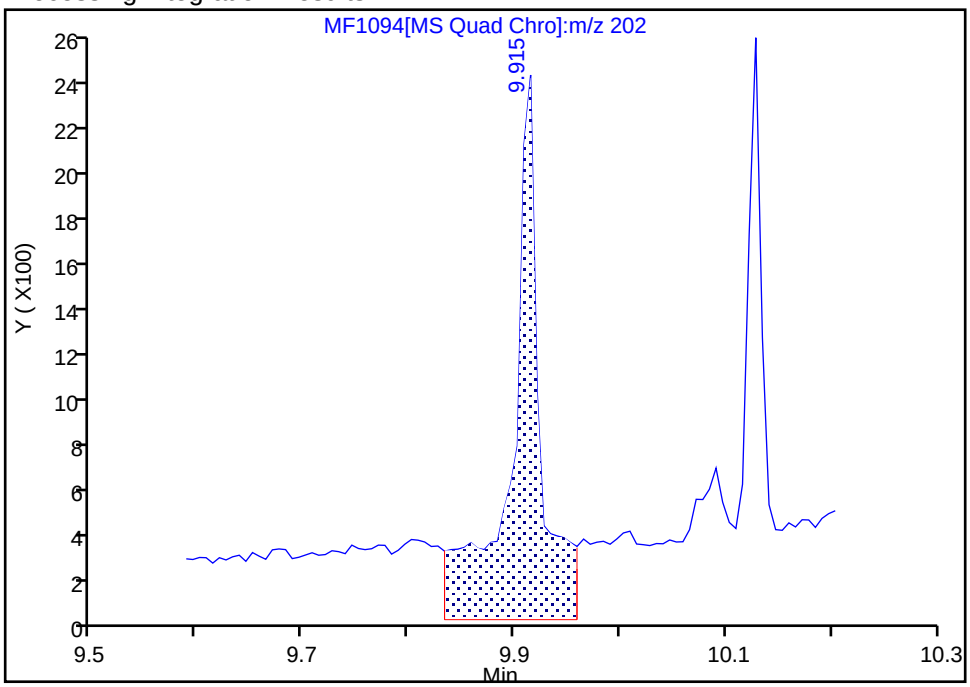
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1094.D				
Injection Date:	15-Jun-2023 14:34:54	Instrument ID:	HP21585		
Lims ID:	410-130132-D-3-A	Lab Sample ID:	410-130132-3		
Client ID:	MW-12D-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

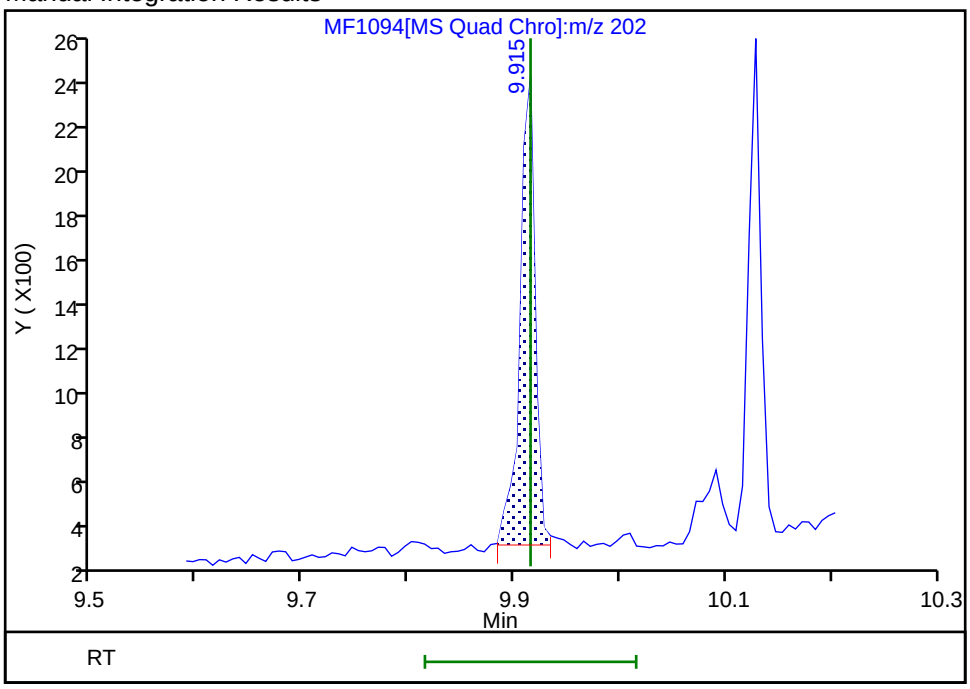
Processing Integration Results

RT: 9.92
Area: 4624
Amount: 0.003163
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 2053
Amount: 0.001404
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:26:00 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

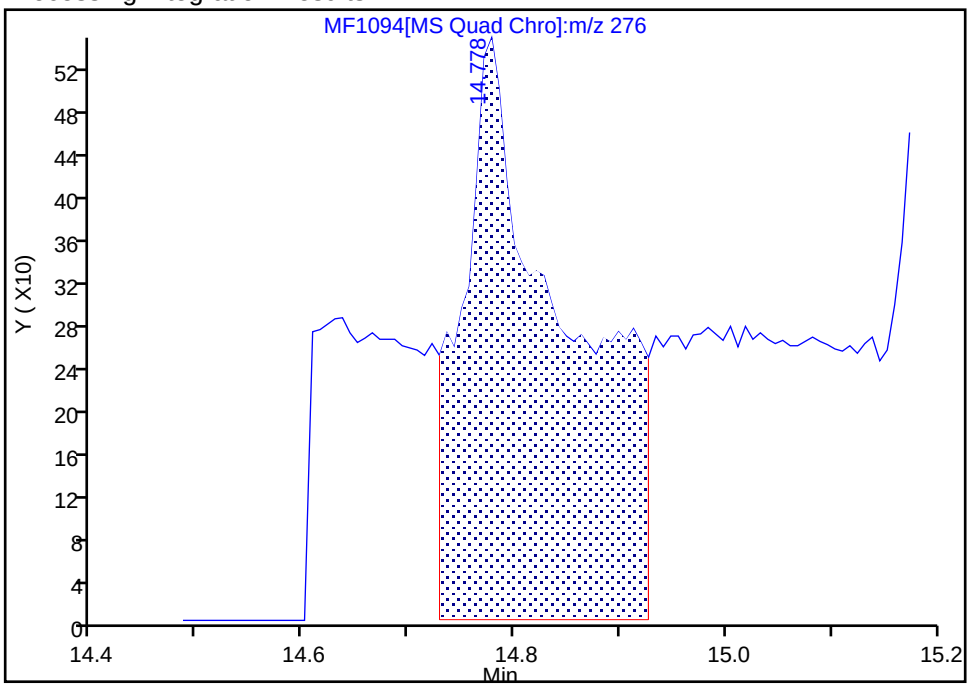
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1094.D				
Injection Date:	15-Jun-2023 14:34:54	Instrument ID:	HP21585		
Lims ID:	410-130132-D-3-A	Lab Sample ID:	410-130132-3		
Client ID:	MW-12D-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

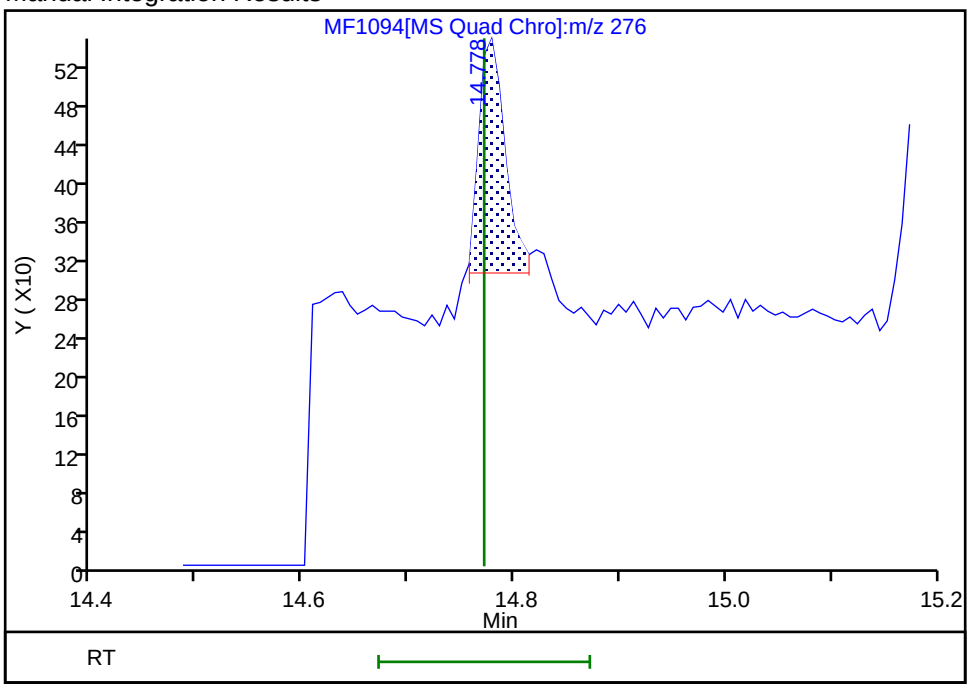
Processing Integration Results

RT: 14.78
Area: 3737
Amount: 0.003224
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 414
Amount: 0.000357
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:26:08 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

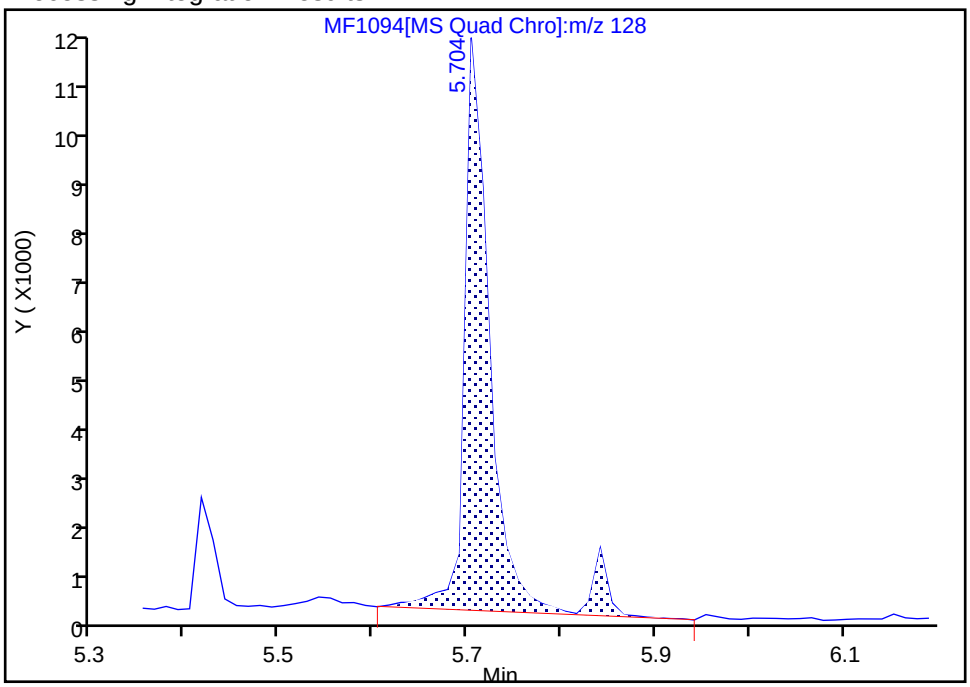
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1094.D				
Injection Date:	15-Jun-2023 14:34:54	Instrument ID:	HP21585		
Lims ID:	410-130132-D-3-A	Lab Sample ID:	410-130132-3		
Client ID:	MW-12D-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

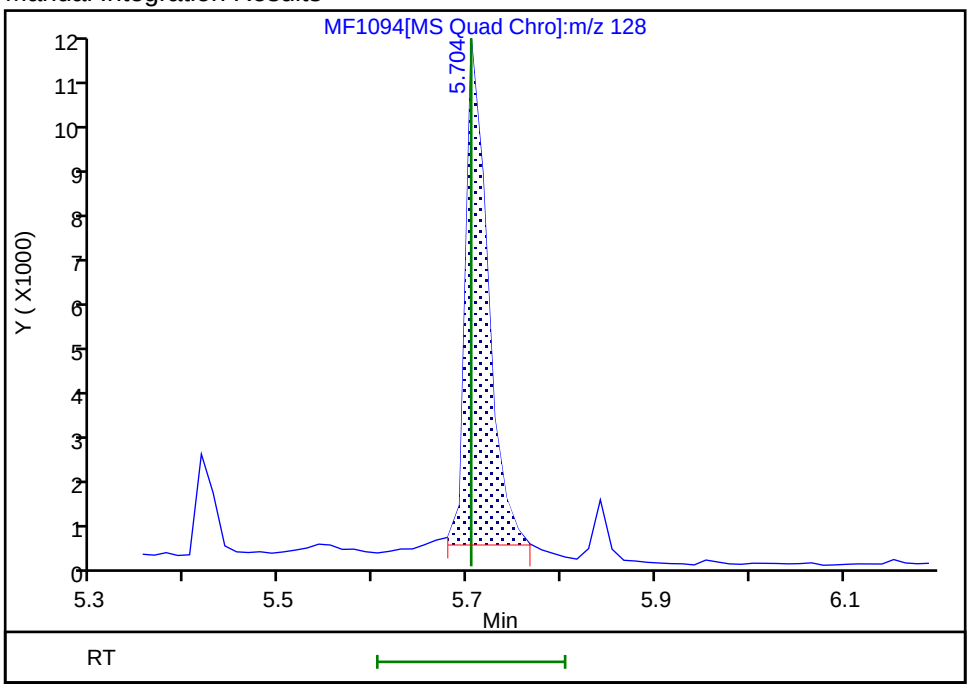
Processing Integration Results

RT: 5.70
Area: 21349
Amount: 0.021891
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 17467
Amount: 0.017910
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:25:52 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-11S-20230607
Lab Sample ID: 410-130132-4

Matrix: Water
Lab File ID: MF1095.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 14:55

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 240.7(mL)
Date Analyzed: 06/15/2023 14:56

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	0.63		0.052	0.010
120-12-7	Anthracene	0.21		0.052	0.010
56-55-3	Benzo[a]anthracene	0.60		0.052	0.010
50-32-8	Benzo[a]pyrene	0.30		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.52		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.26		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.14		0.052	0.010
218-01-9	Chrysene	0.60		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.042	J	0.052	0.021
206-44-0	Fluoranthene	3.4		0.052	0.010
86-73-7	Fluorene	0.17		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.24		0.052	0.021
91-20-3	Naphthalene	0.10		0.073	0.031
85-01-8	Phenanthrene	0.72		0.073	0.031
129-00-0	Pyrene	5.0		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		33-120
93951-69-0	Fluoranthene-d10 (Surr)	73		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D
Lims ID: 410-130132-D-4-A
Client ID: MW-11S-20230607
Sample Type: Client
Inject. Date: 15-Jun-2023 14:56:19 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-4-A
Misc. Info.: 410-0086657-026
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:28:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	99	61168	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	218628	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	92	25111	0.0247	M
$ 9 1-Methylnaphthalene-d10	152	6.419	6.429	-0.010	99	107362	0.2017	
12 Acenaphthylene	152	7.217	7.217	0.000	96	153062	0.1513	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	90	135310	0.2500	
14 Acenaphthene	154	7.384	7.384	0.000	91	3246415	4.95	E
17 Fluorene	166	7.871	7.871	0.000	100	34355	0.0410	M
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	271385	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	234699	0.1740	M
22 Anthracene	178	8.831	8.831	0.000	100	59246	0.0506	M
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	226786	0.1828	
25 Fluoranthene	202	9.915	9.915	0.000	100	1248269	0.8249	M
26 Pyrene	202	10.128	10.128	0.000	98	2047988	1.20	M
28 Benzo[a]anthracene	228	11.357	11.357	-0.007	100	199975	0.1433	M
* 29 Chrysene-d12	240	11.372	11.372	0.000	64	266592	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	247239	0.1456	M
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	200799	0.1251	M
34 Benzo[k]fluoranthene	252	12.753	12.753	0.000	100	57440	0.0335	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	100	229621	0.2055	
37 Benzo[a]pyrene	252	13.159	13.159	0.000	100	105286	0.0725	a
* 38 Perylene-d12	264	13.236	13.244	-0.008	100	303834	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	99	78476	0.0587	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	87	15476	0.0101	M
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	105793	0.0622	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

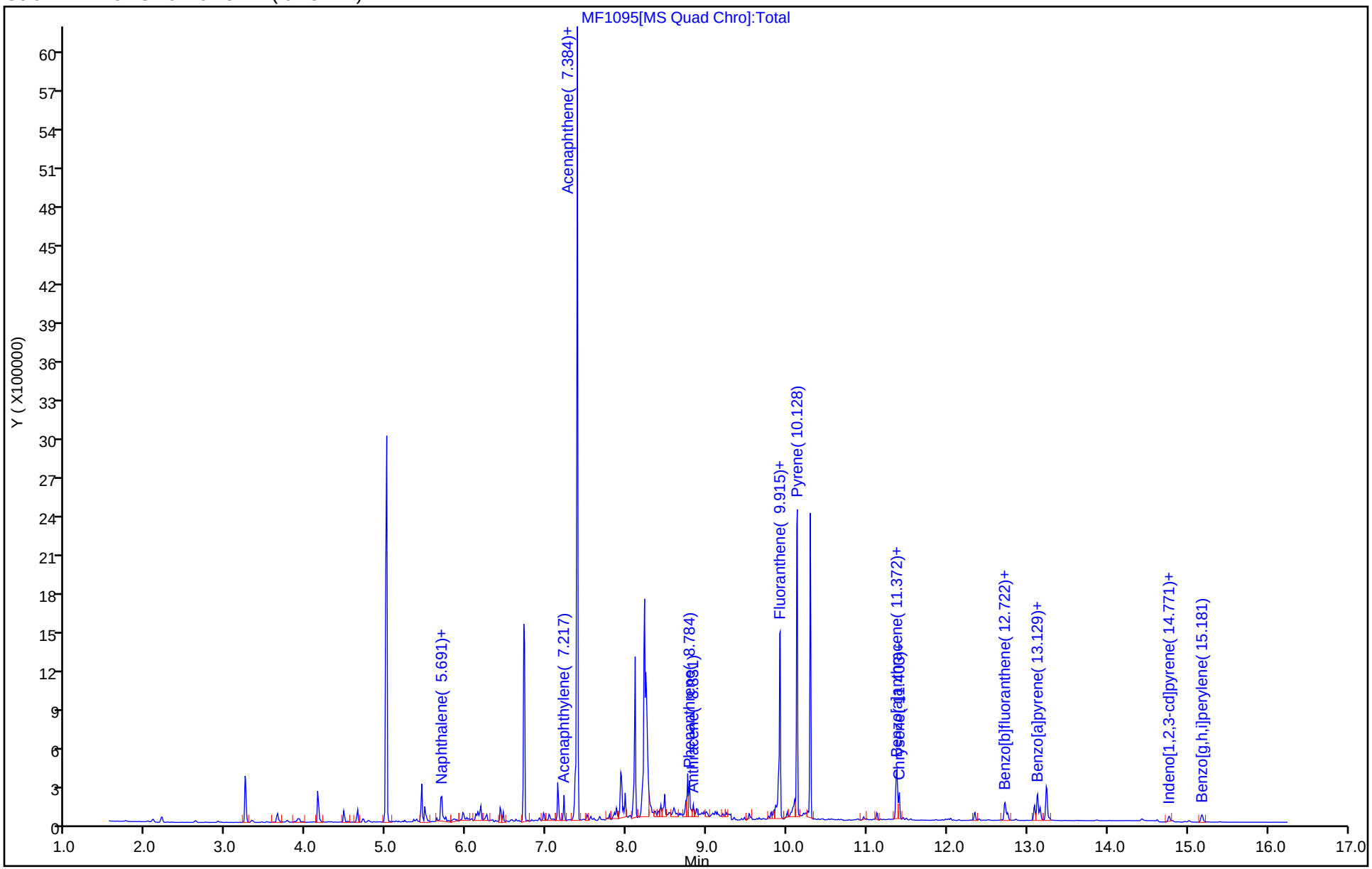
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4	Worklist Smp#:	26
Client ID:	MW-11S-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Lims ID:	410-130132-D-4-A				
Client ID:	MW-11S-20230607				
Sample Type:	Client				
Inject. Date:	15-Jun-2023 14:56:19	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-4-A				
Misc. Info.:	410-0086657-026				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	16-Jun-2023 03:30:30	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:28:11

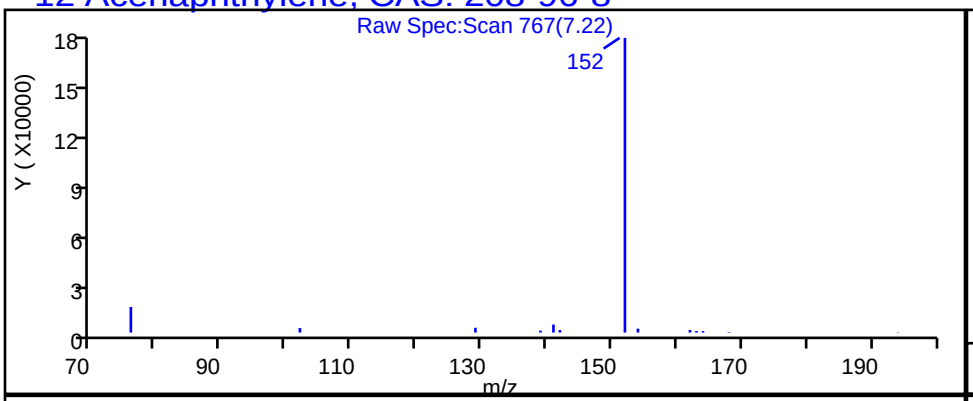
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.2017	80.67
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1828	73.13
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2055	82.21

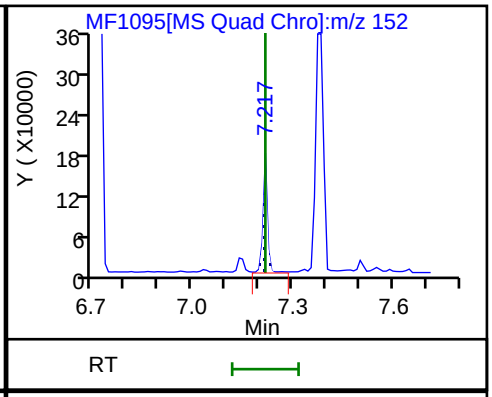
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

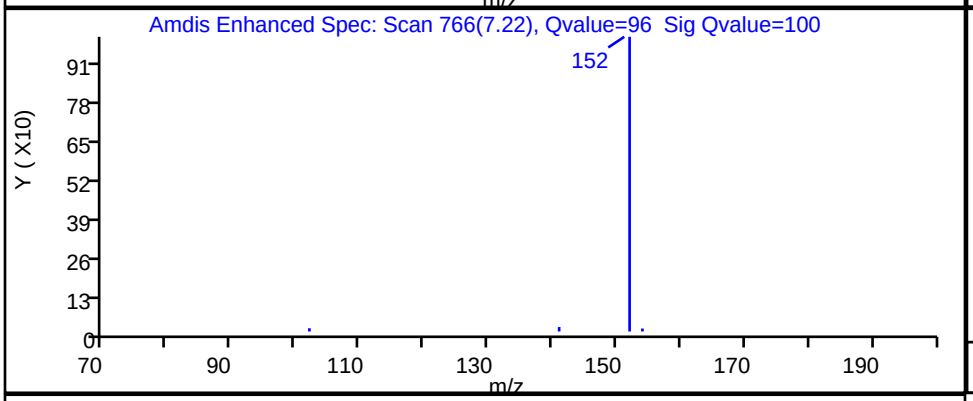
Eurofins Lancaster Laboratories Environment Testing, LLC

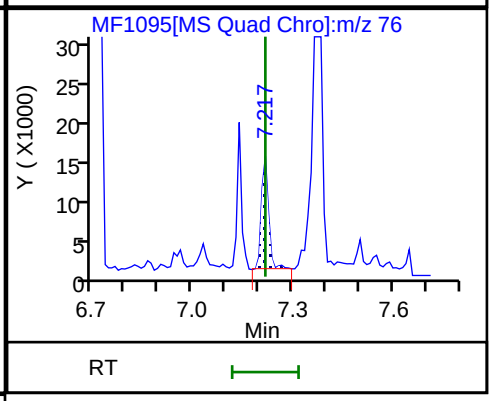
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

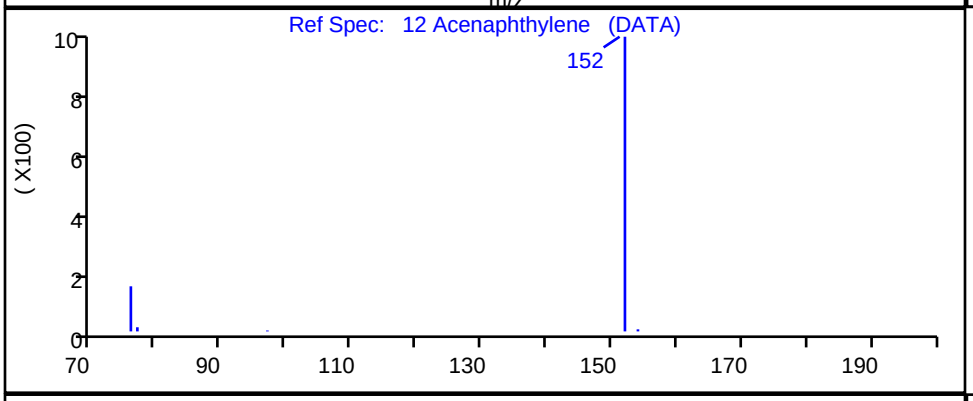
12 Acenaphthylene, CAS: 208-96-8

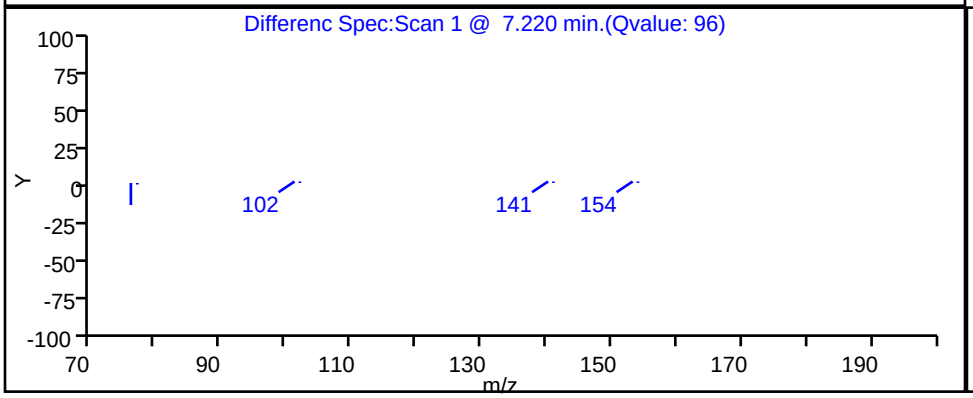


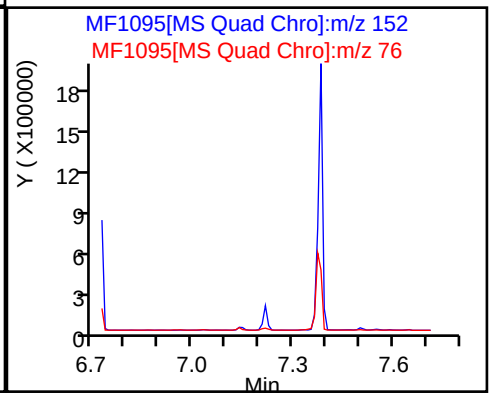












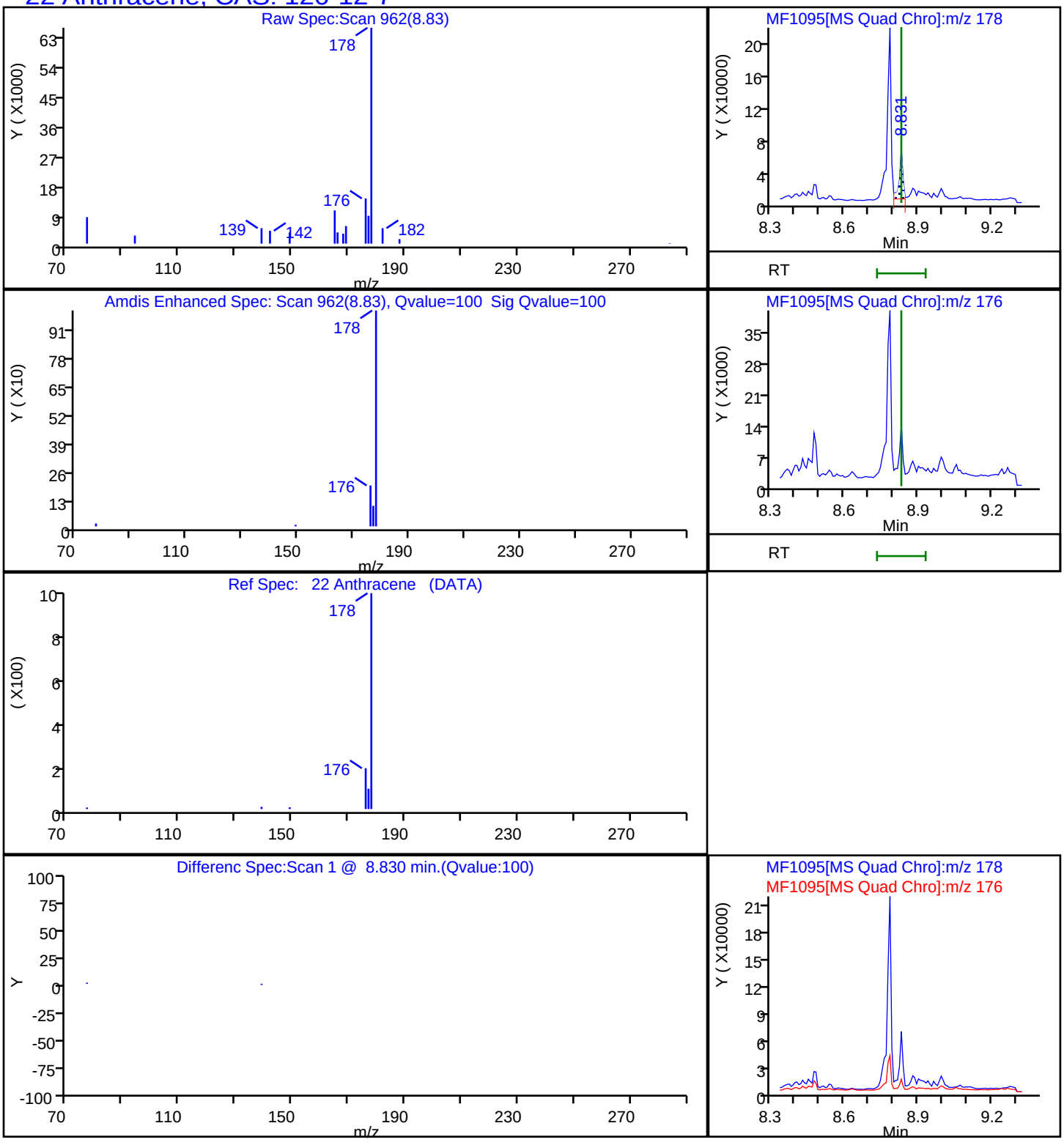
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7



Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

Injection Date: 15-Jun-2023 14:56:19 Instrument ID: HP21585

Lims ID: 410-130132-D-4-A Lab Sample ID: 410-130132-4

Client ID: MW-11S-20230607

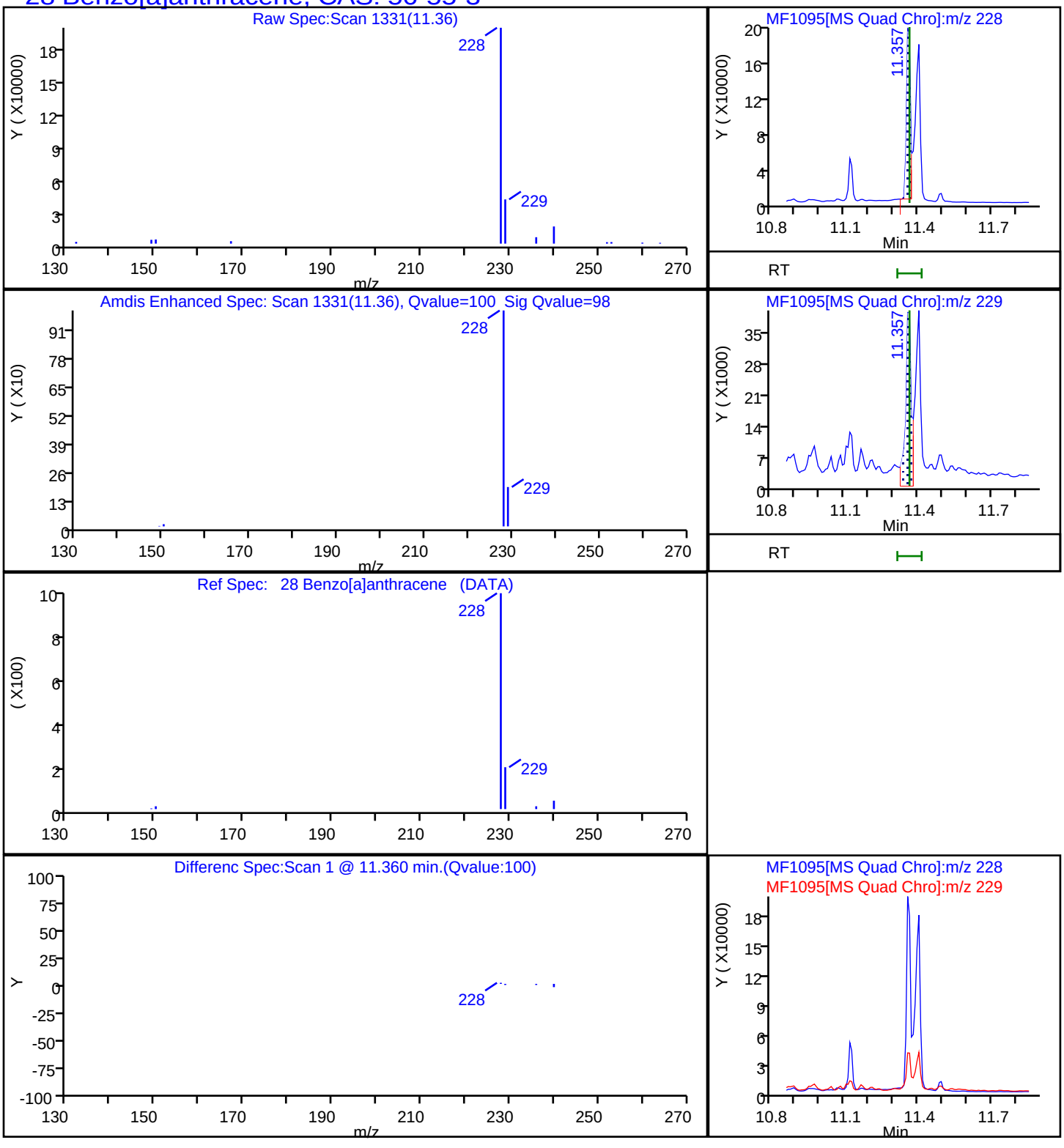
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

28 Benzo[a]anthracene, CAS: 56-55-3

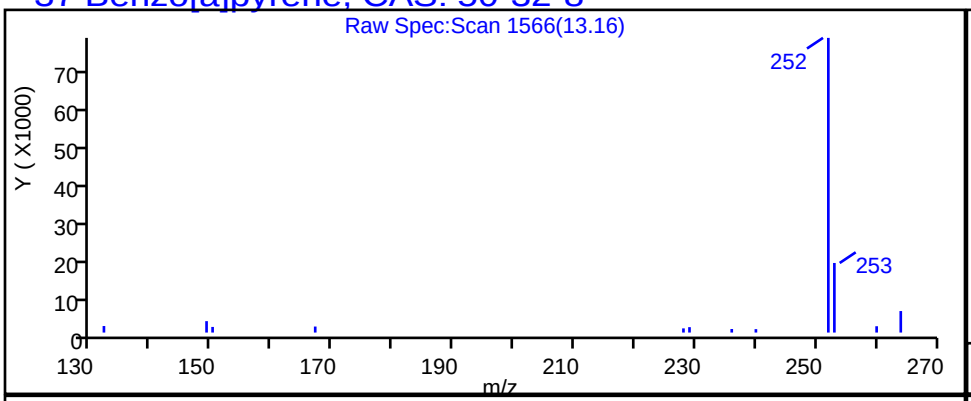


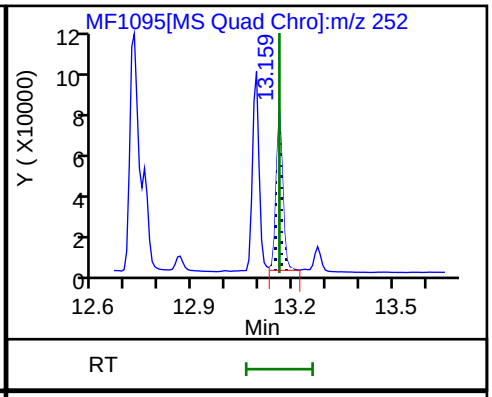
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

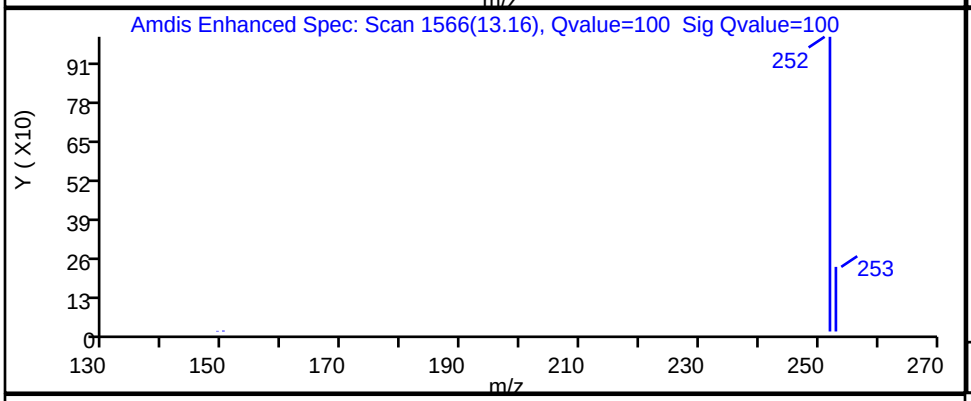
Eurofins Lancaster Laboratories Environment Testing, LLC

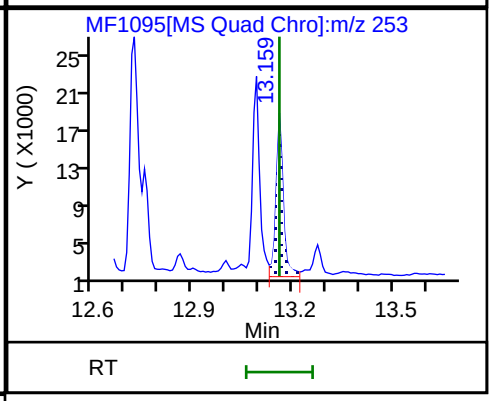
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

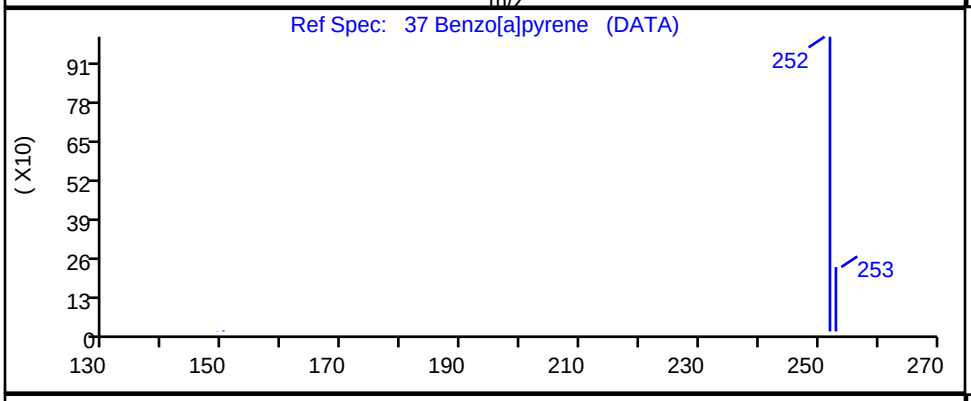
37 Benzo[a]pyrene, CAS: 50-32-8

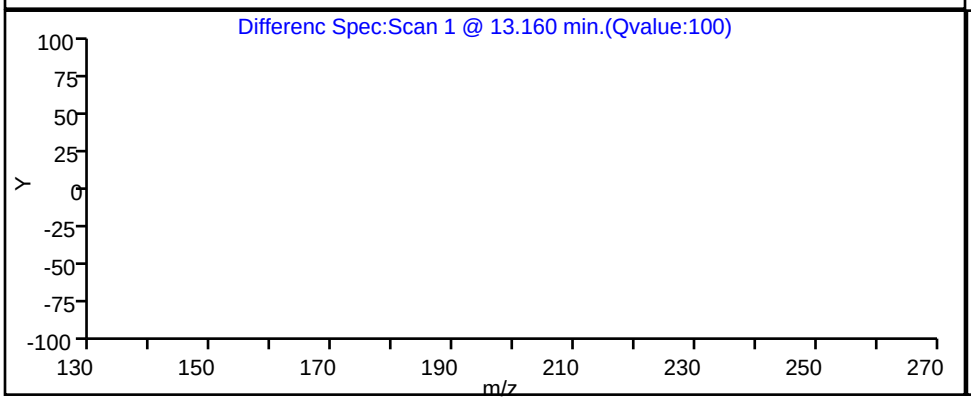


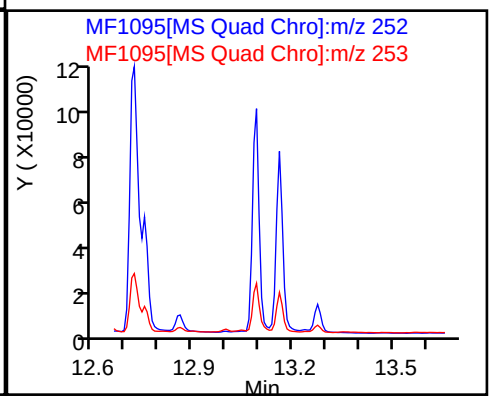










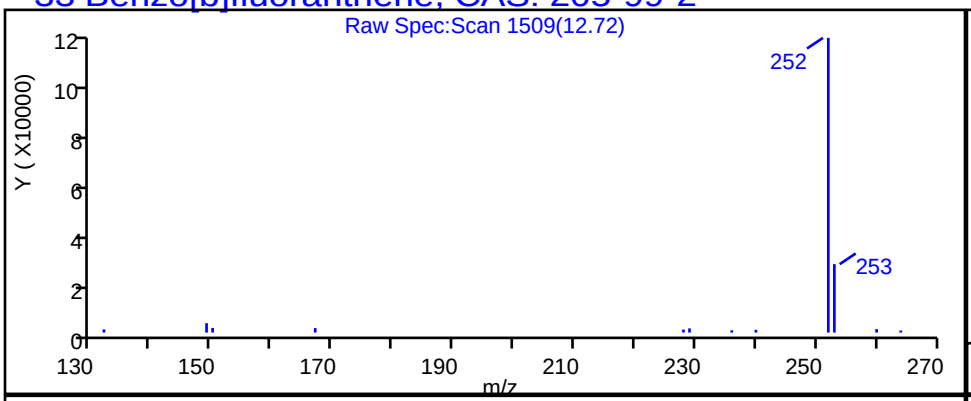


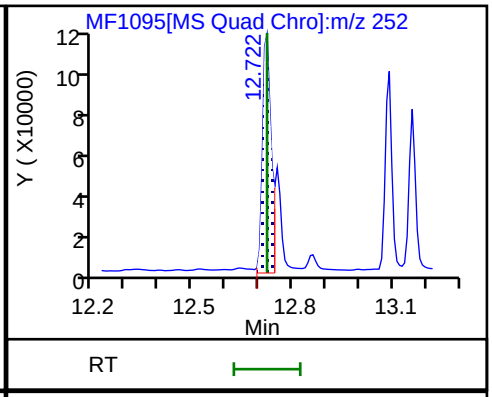
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

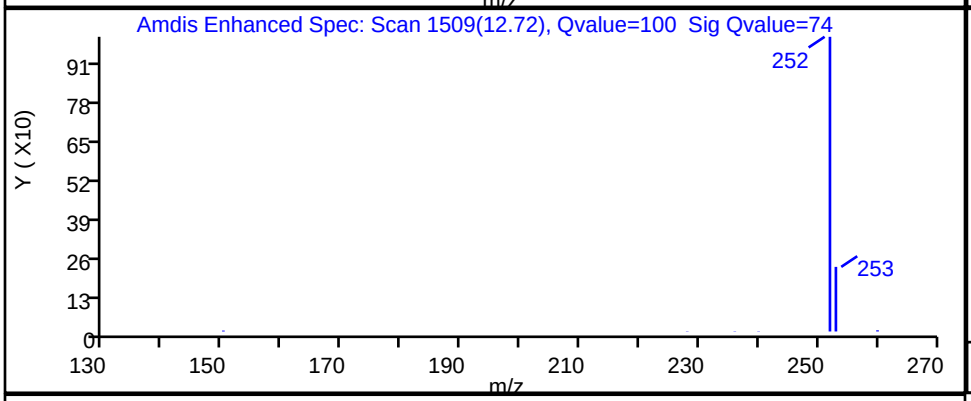
Eurofins Lancaster Laboratories Environment Testing, LLC

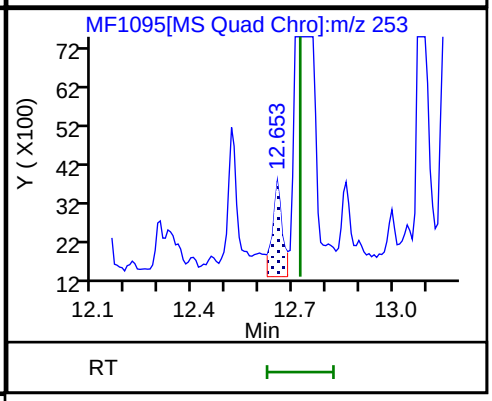
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

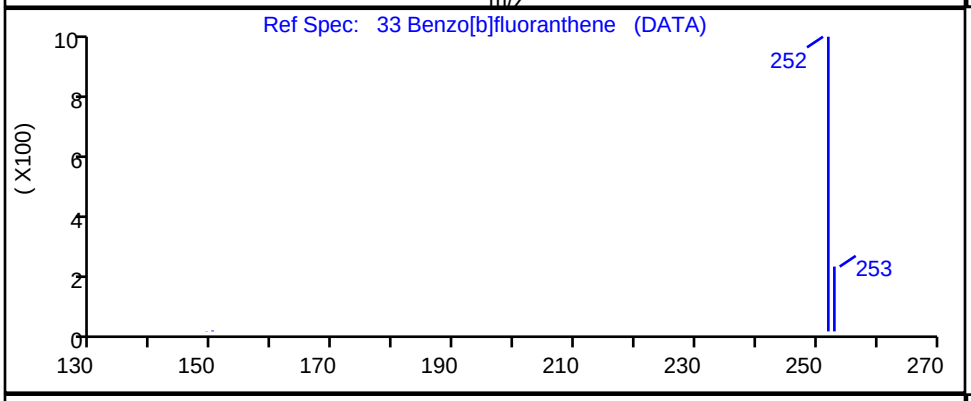
33 Benzo[b]fluoranthene, CAS: 205-99-2

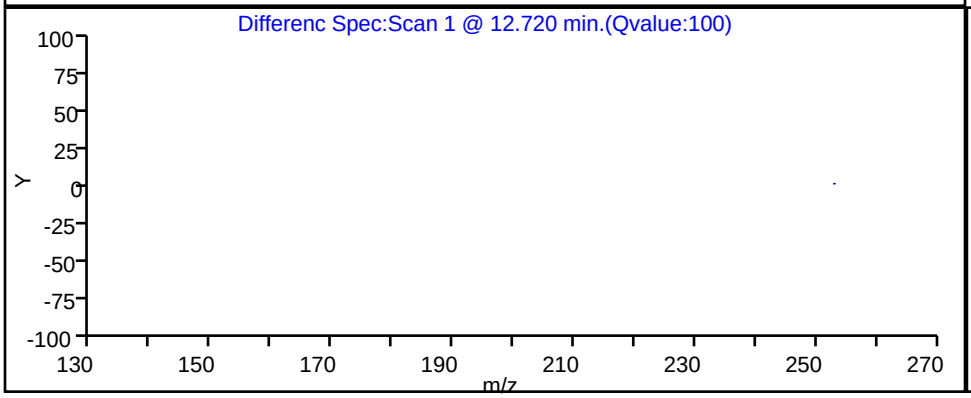


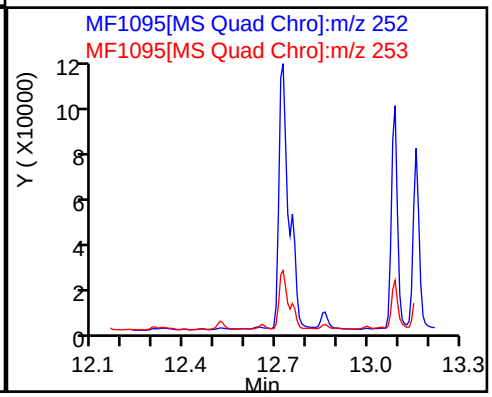










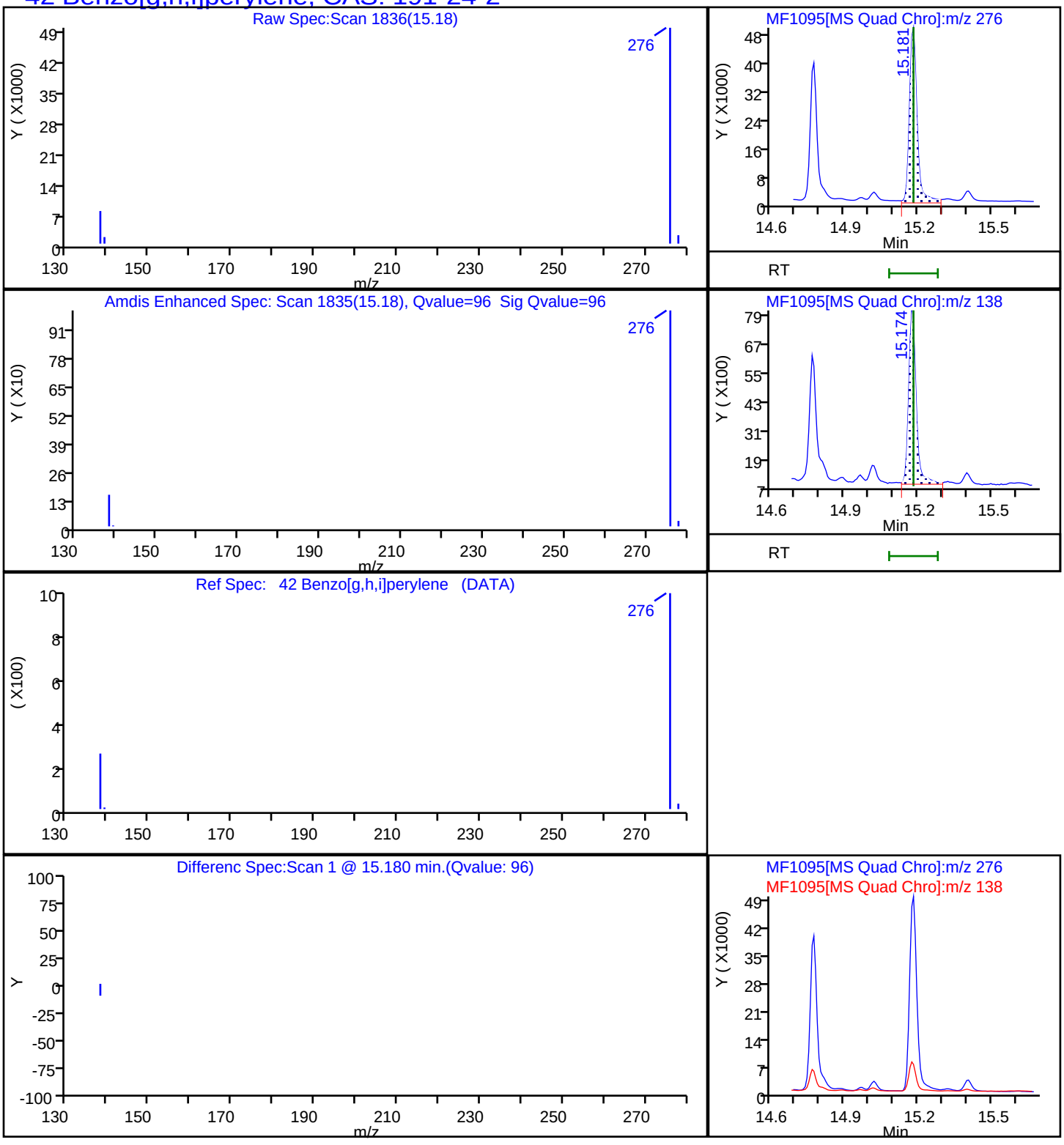


Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2



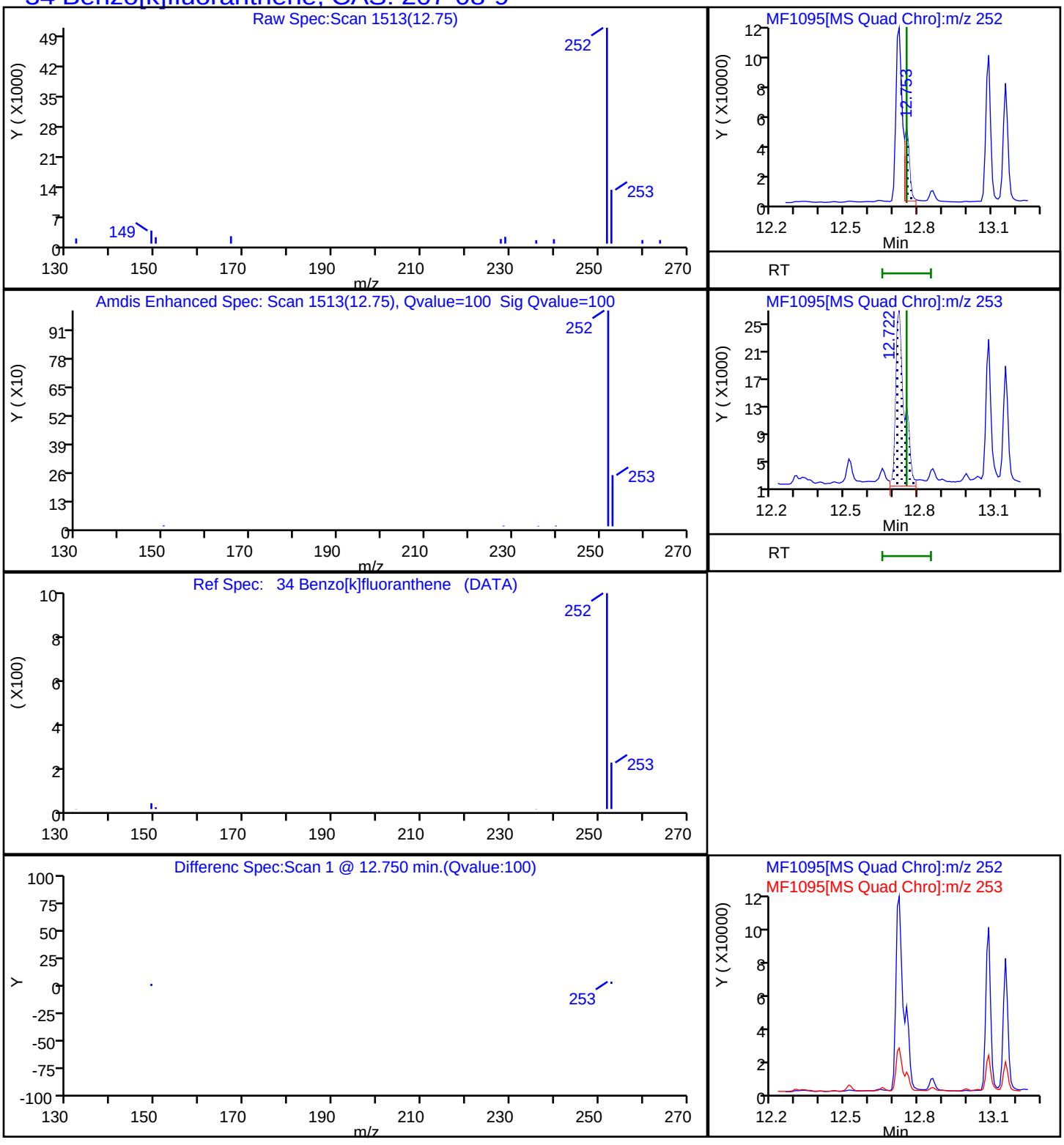
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

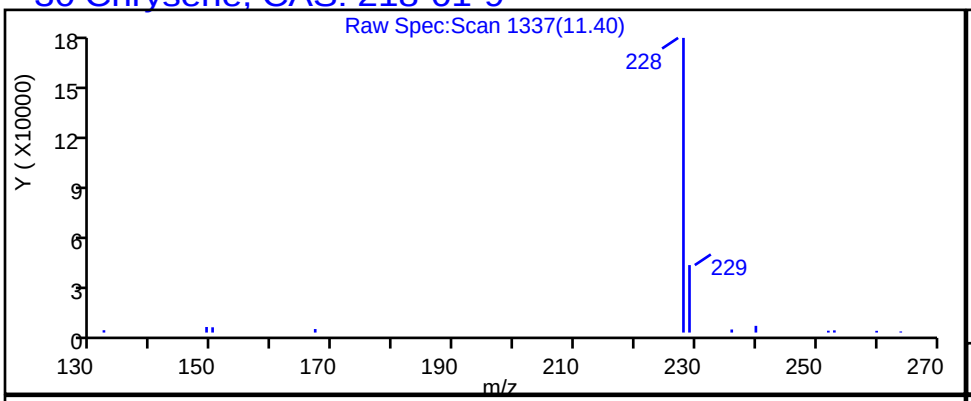


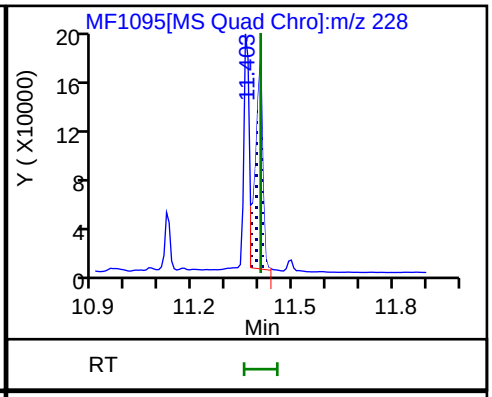
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

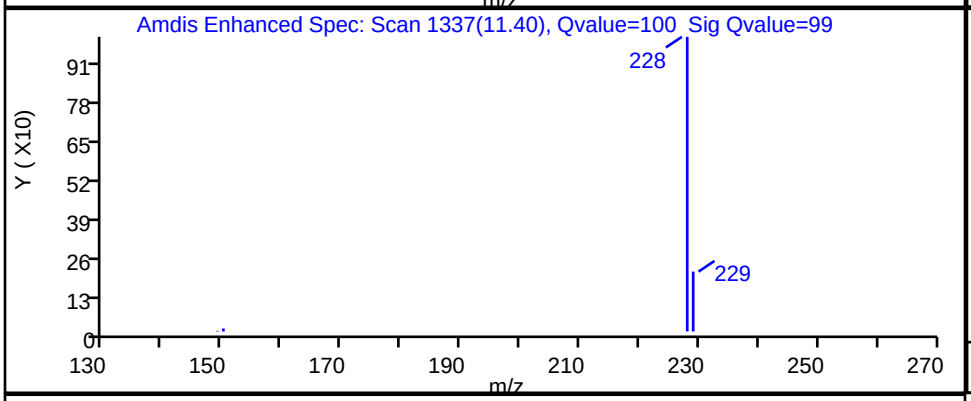
Eurofins Lancaster Laboratories Environment Testing, LLC

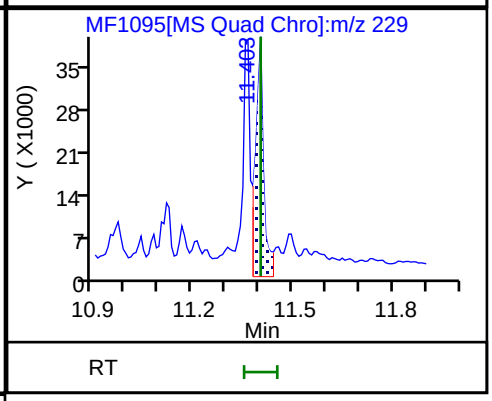
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

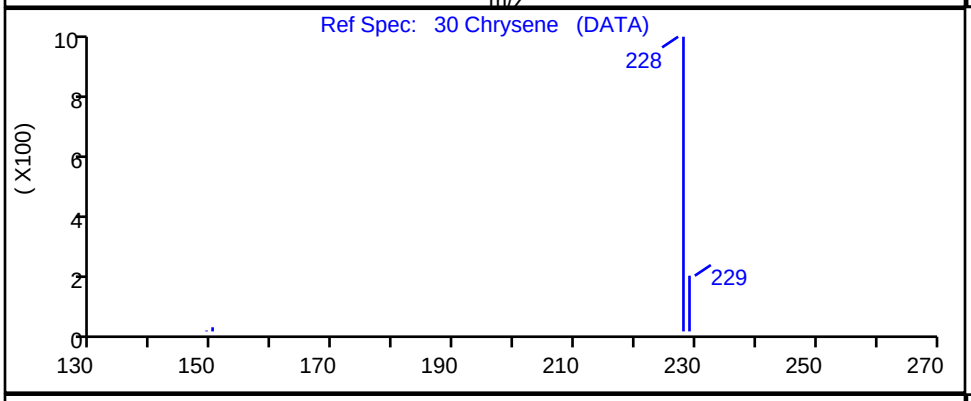
30 Chrysene, CAS: 218-01-9

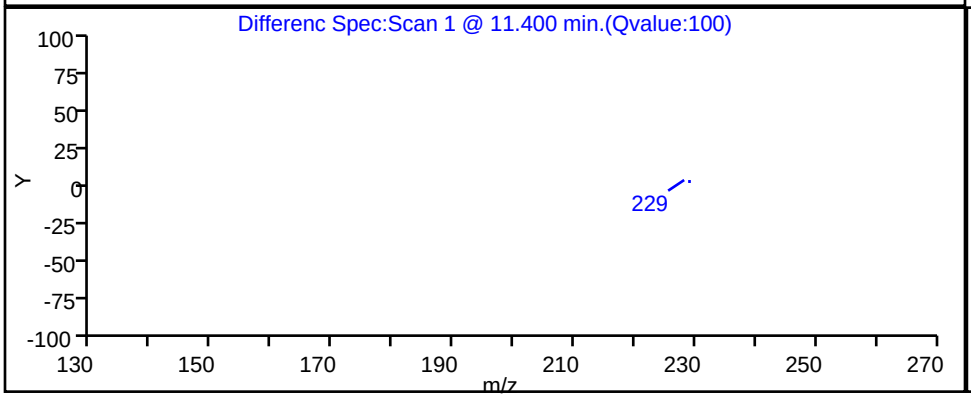


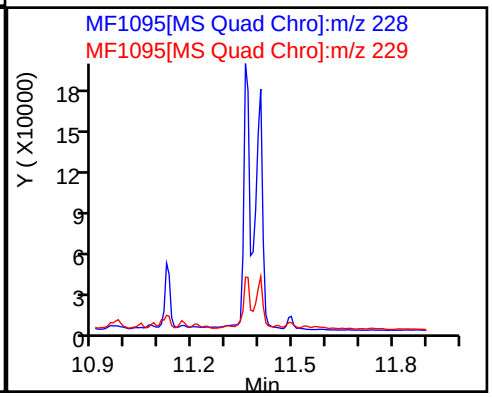










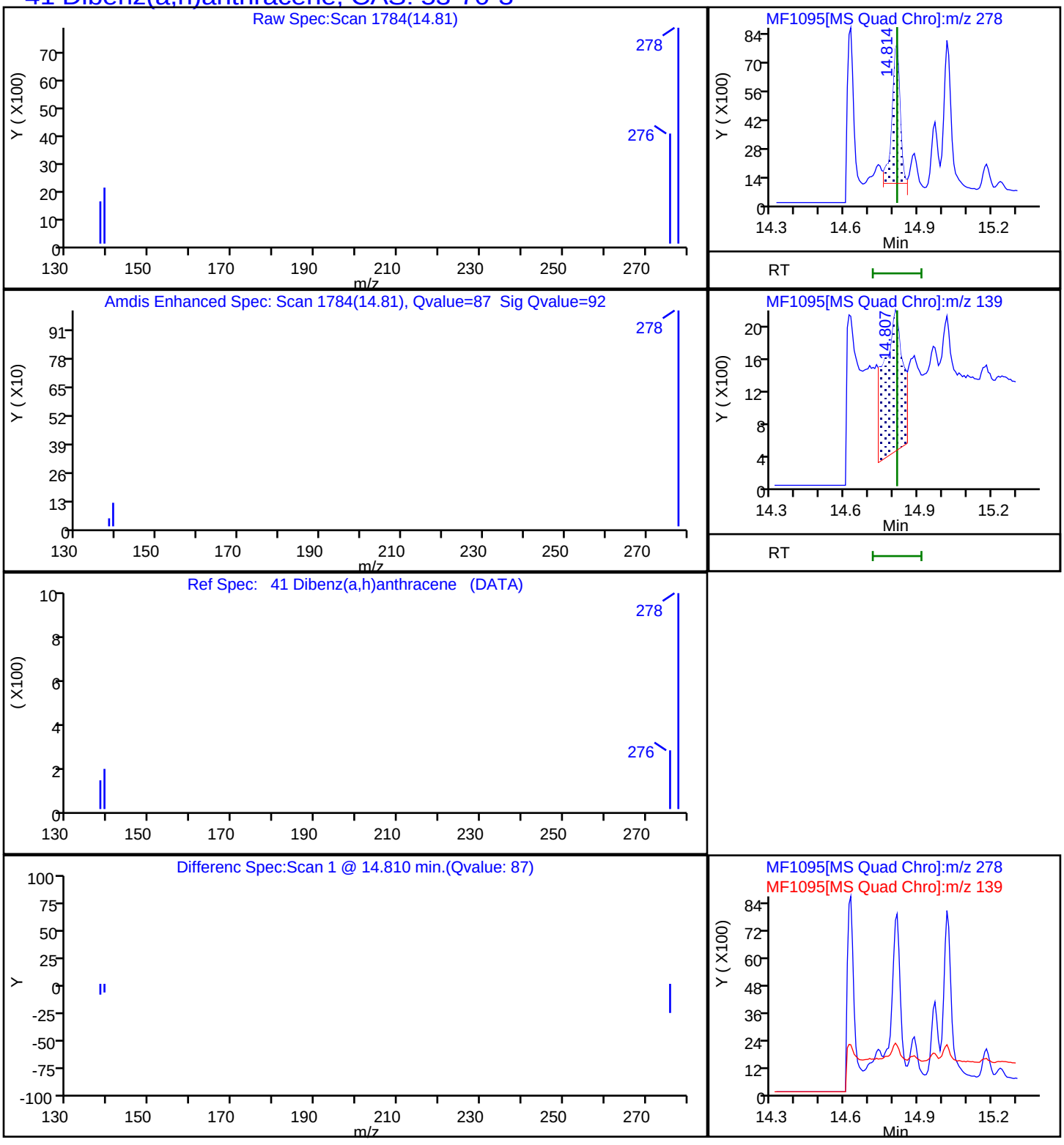


Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3



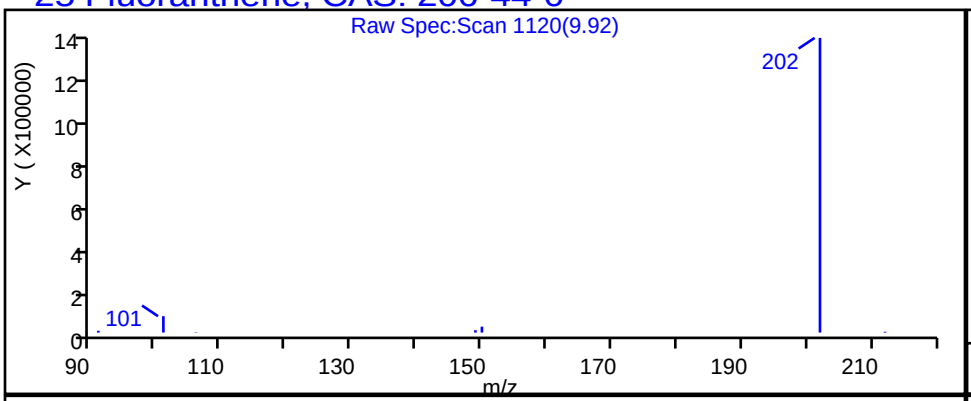
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

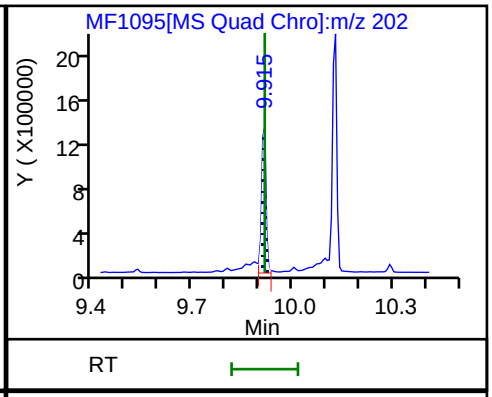
Eurofins Lancaster Laboratories Environment Testing, LLC

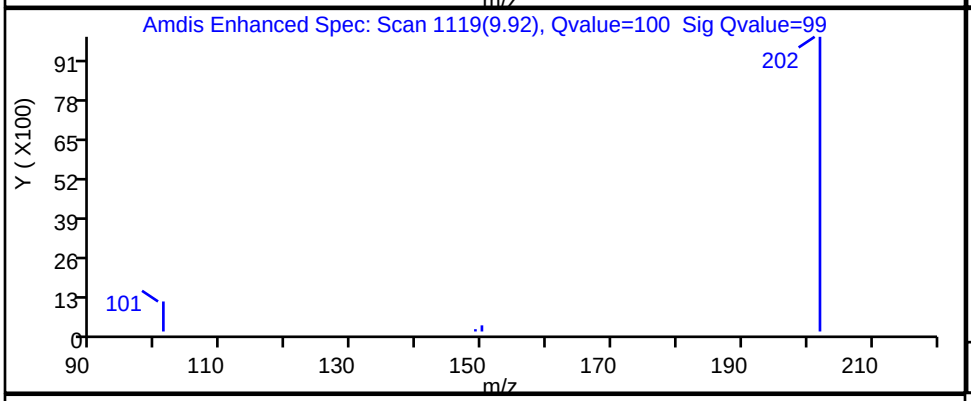
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

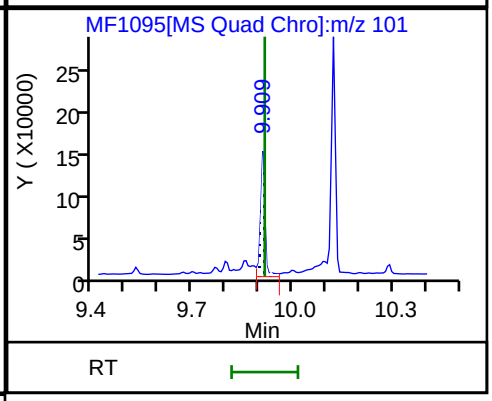
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4
Client ID:	MW-11S-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

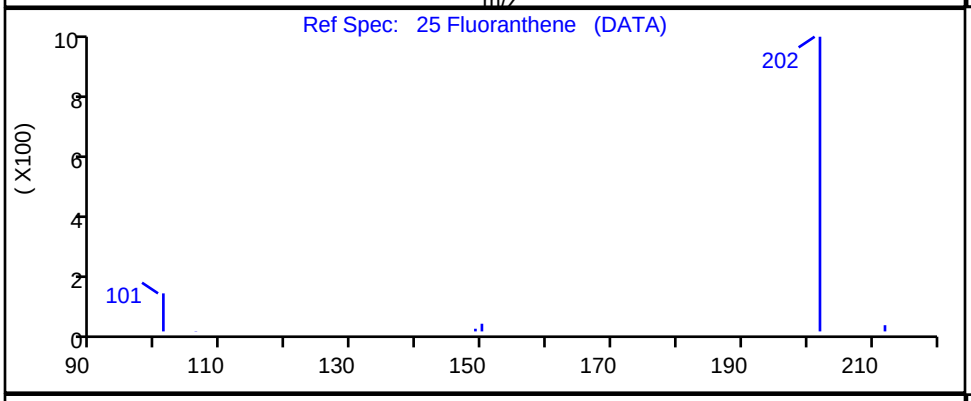
25 Fluoranthene, CAS: 206-44-0

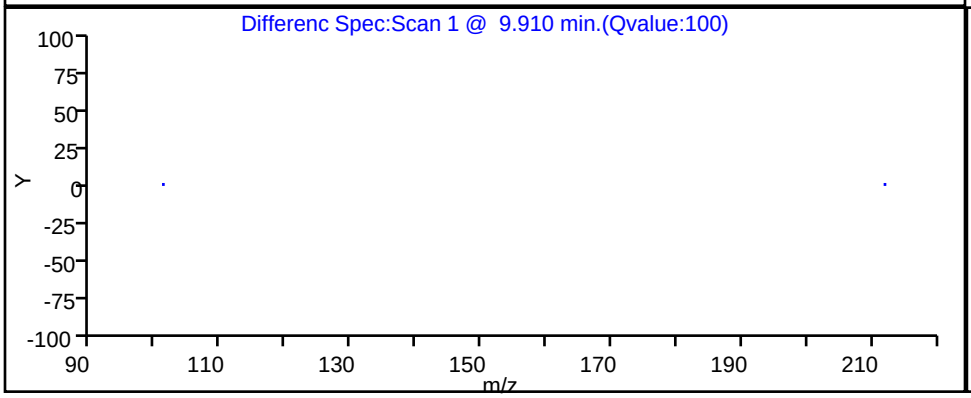


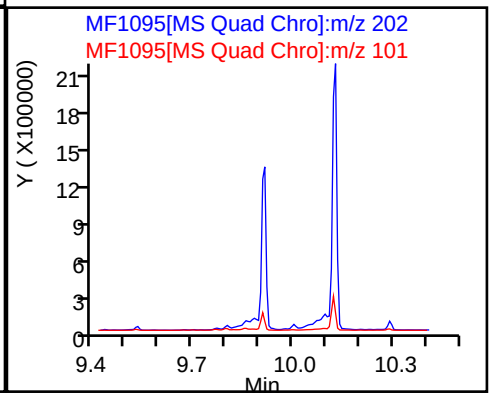












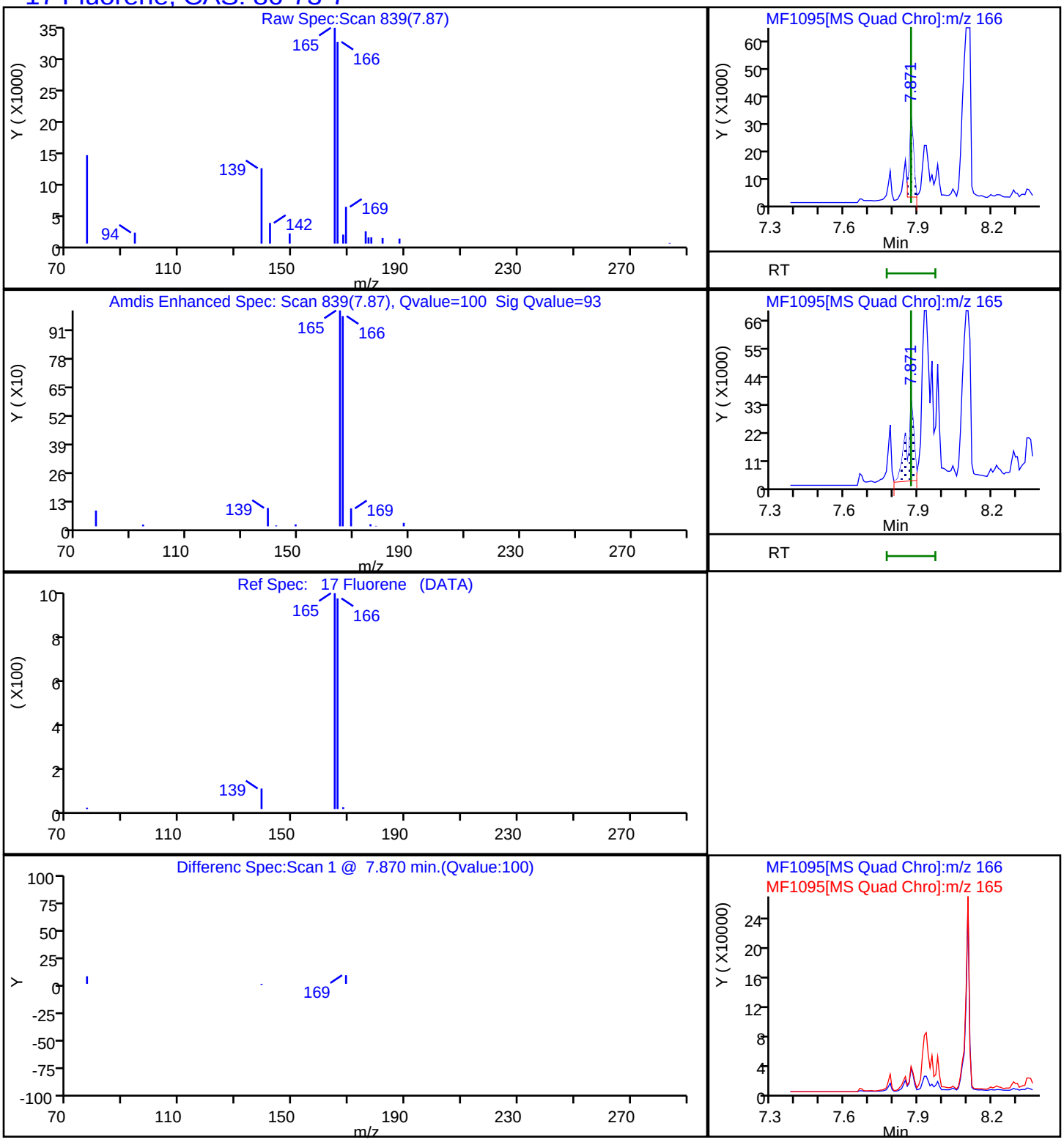
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

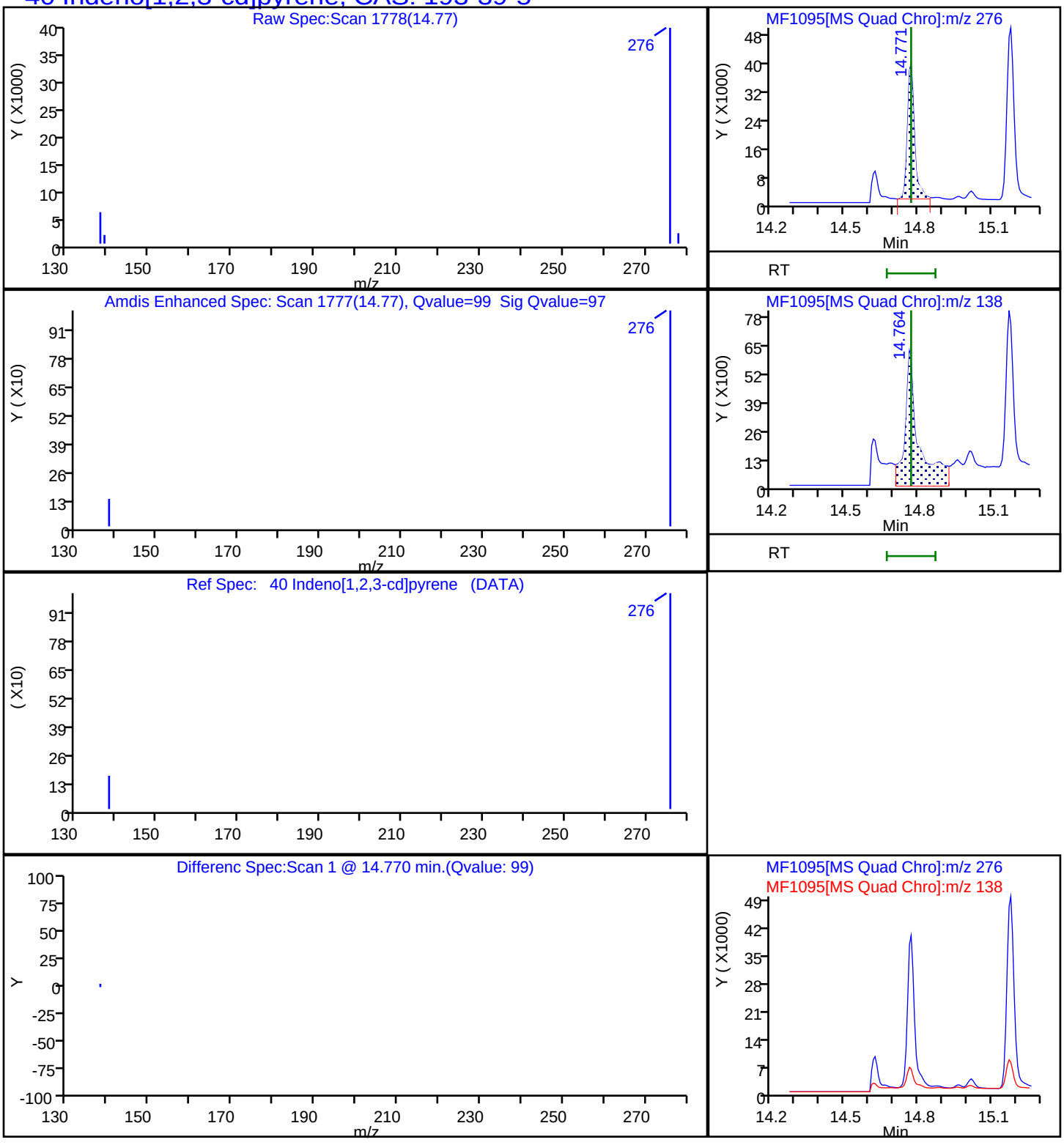


Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



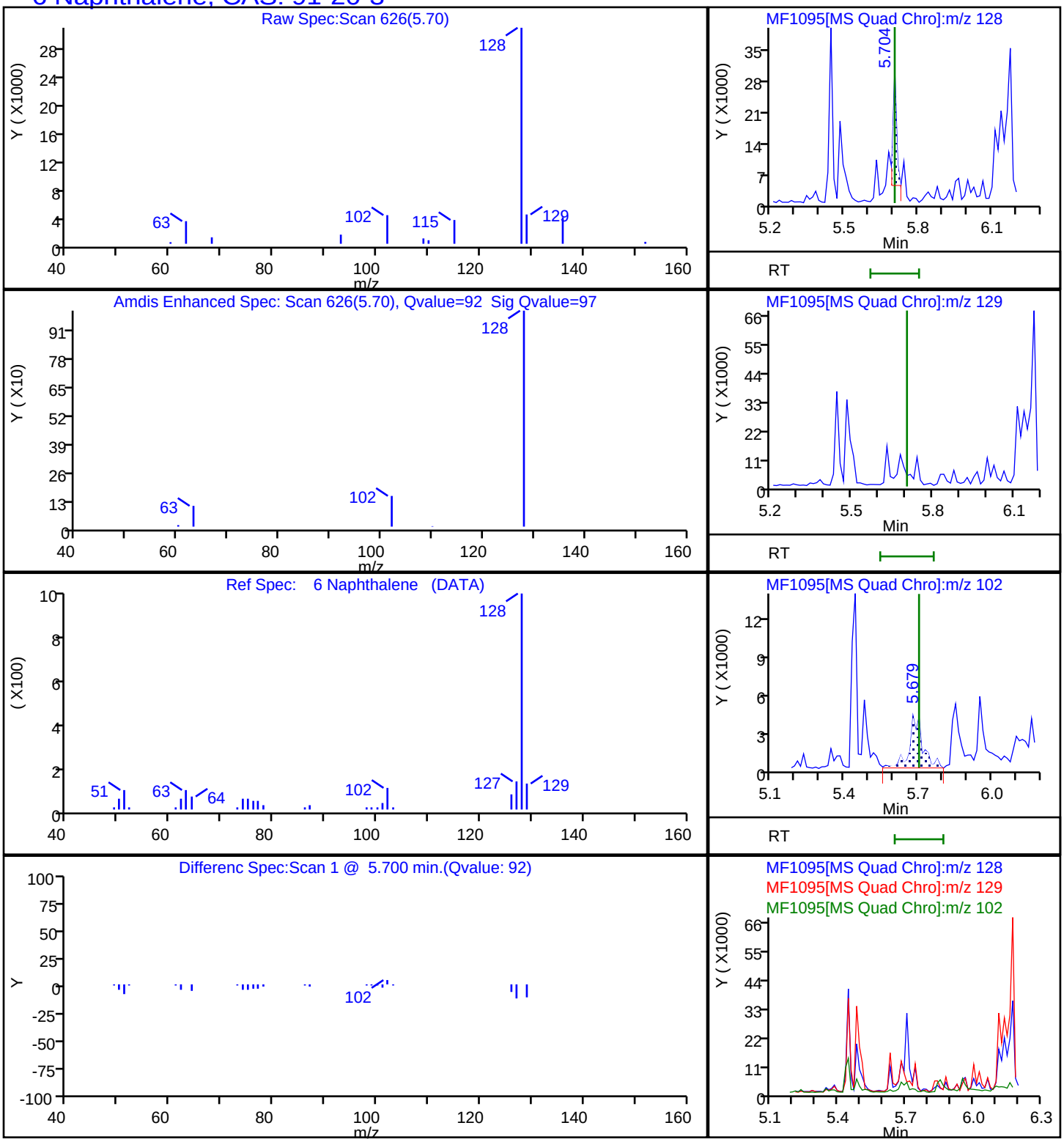
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



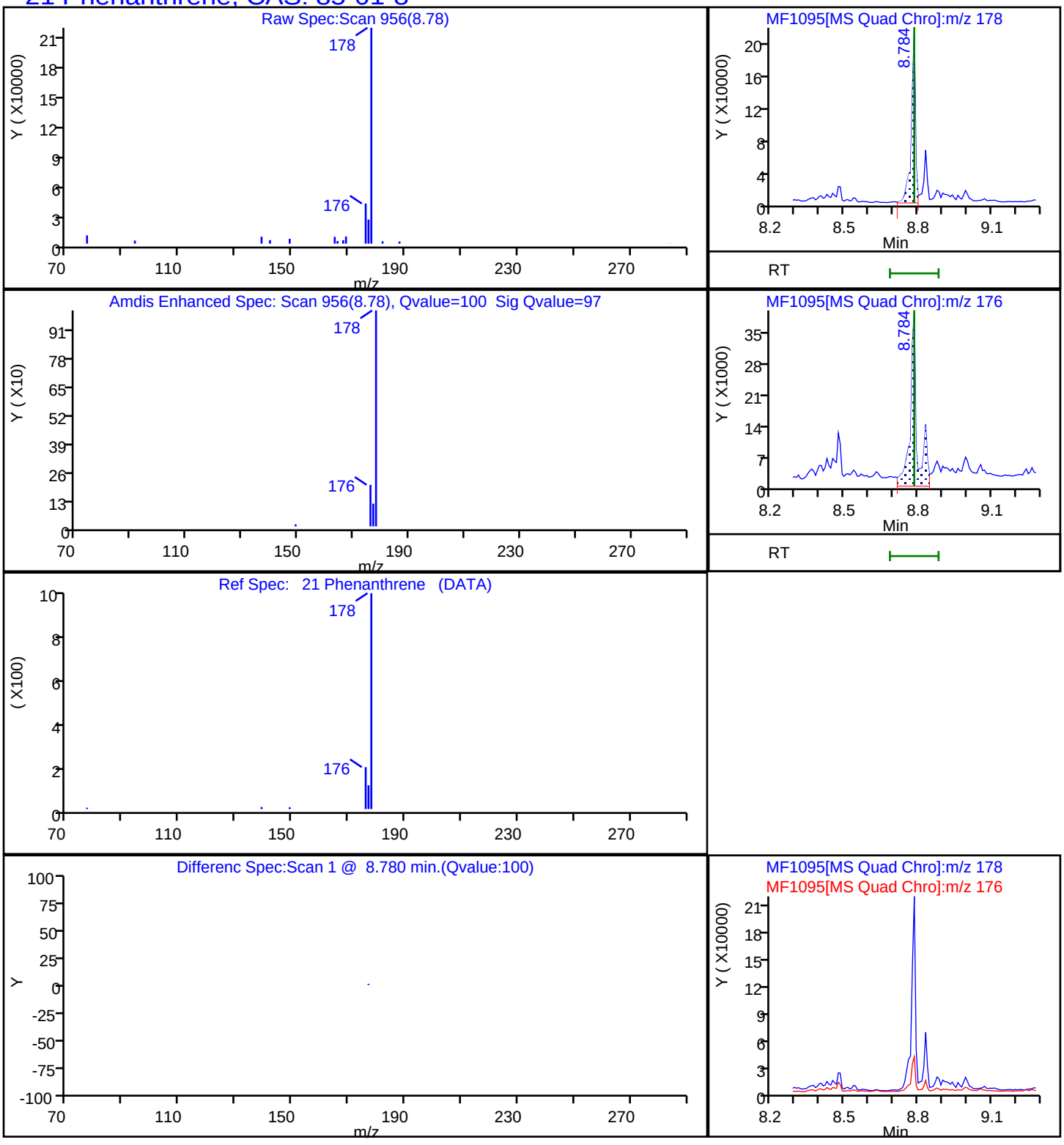
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8



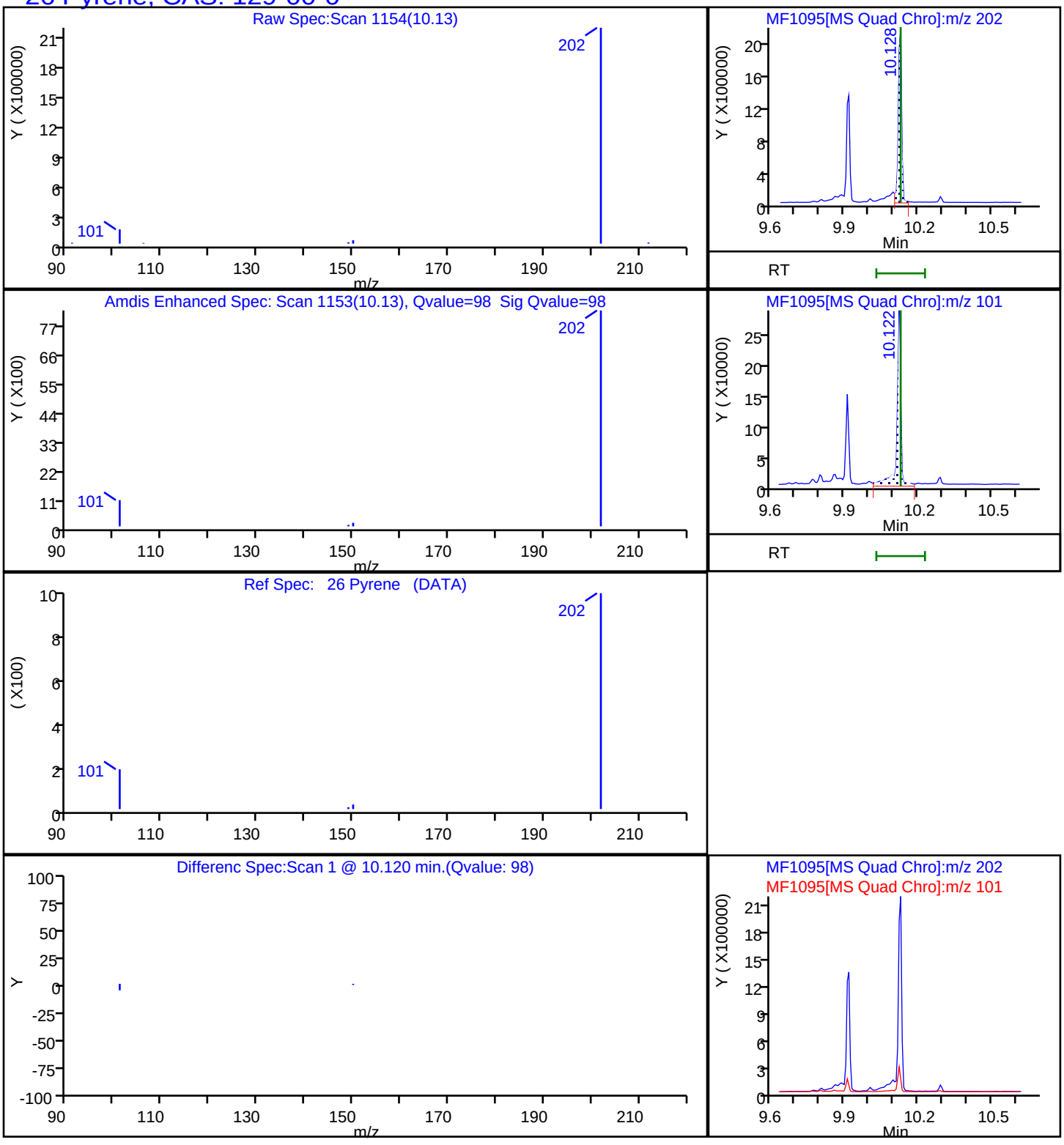
Report Date: 16-Jun-2023 03:31:21 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D

Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4
Client ID:	MW-11S-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

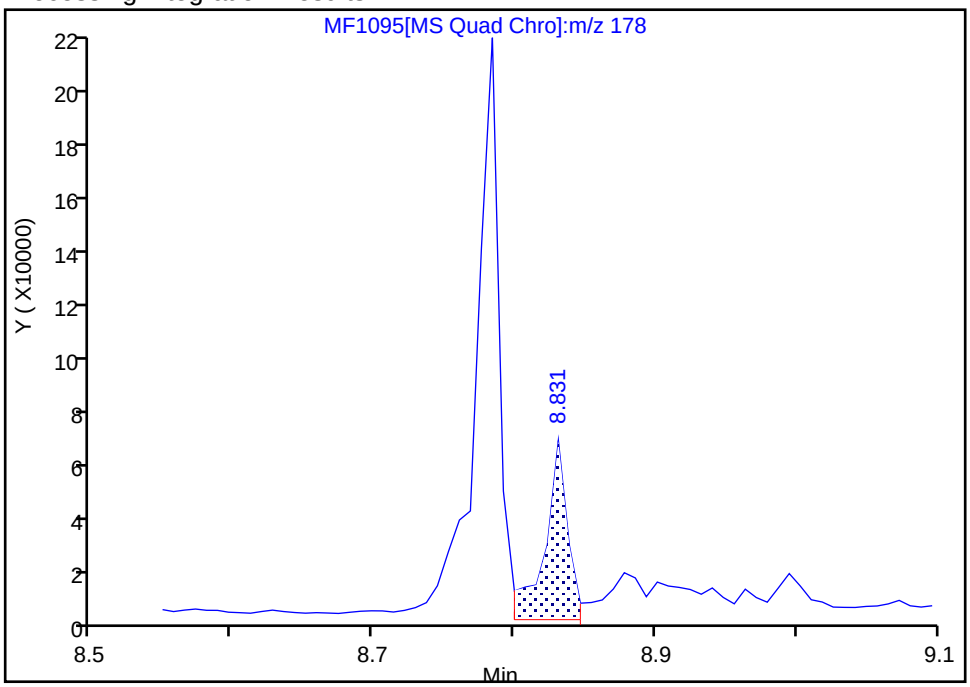
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

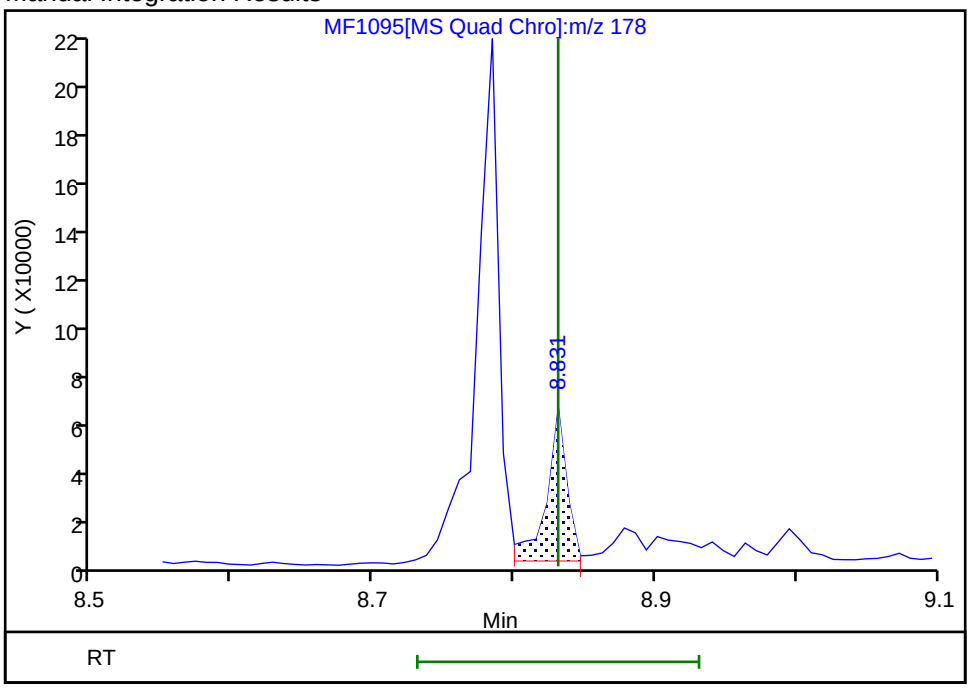
Processing Integration Results

RT: 8.83
Area: 72160
Amount: 0.061598
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 59246
Amount: 0.050574
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:04 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

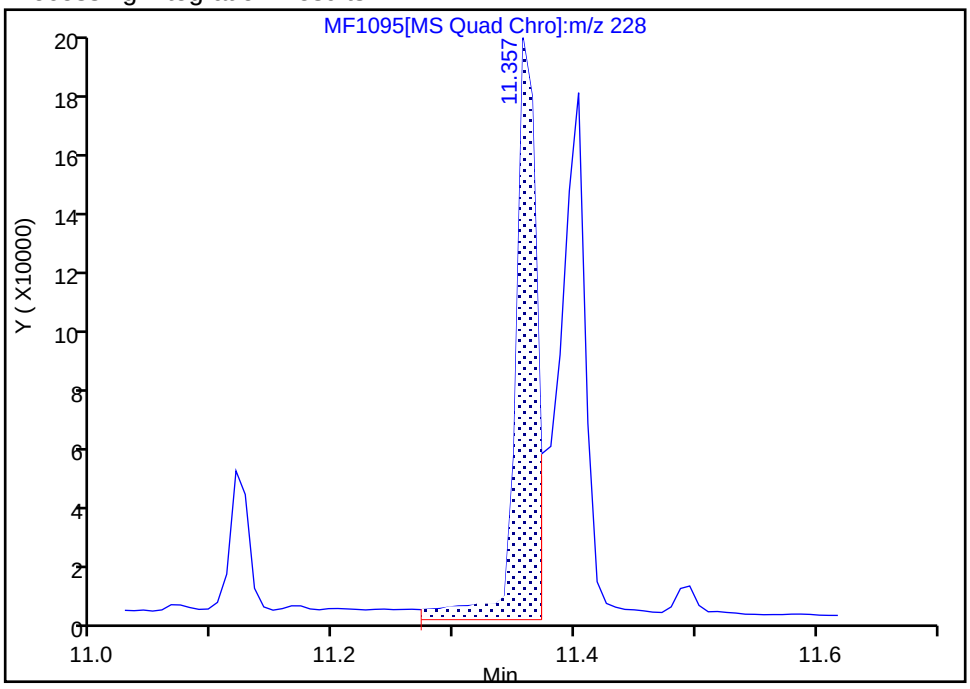
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

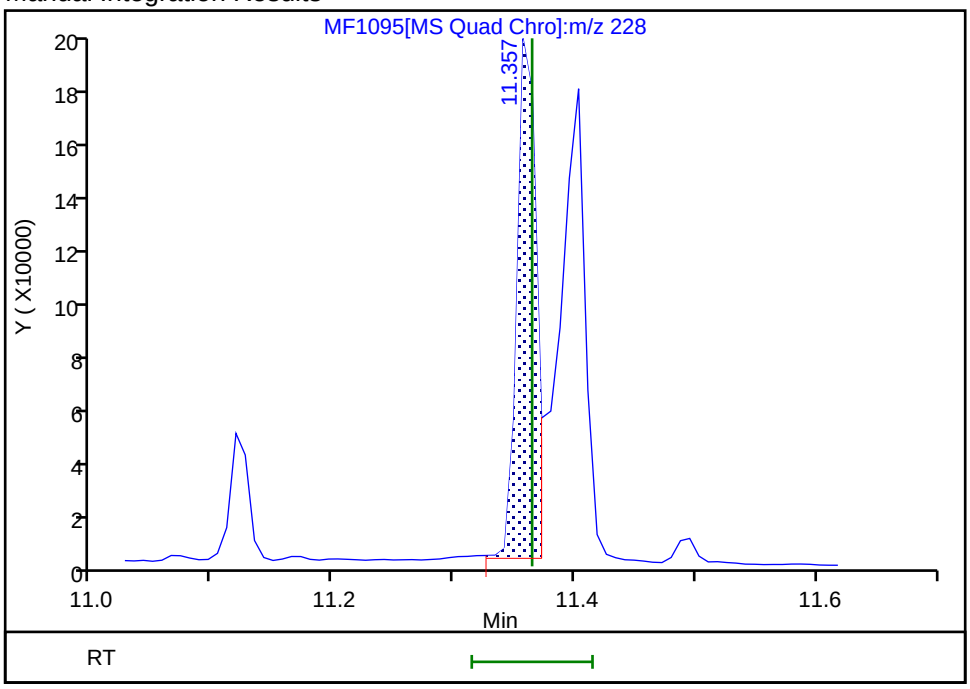
Processing Integration Results

RT: 11.36
Area: 225891
Amount: 0.161842
Amount Units: ug/ml



Manual Integration Results

RT: 11.36
Area: 199975
Amount: 0.143274
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:26 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

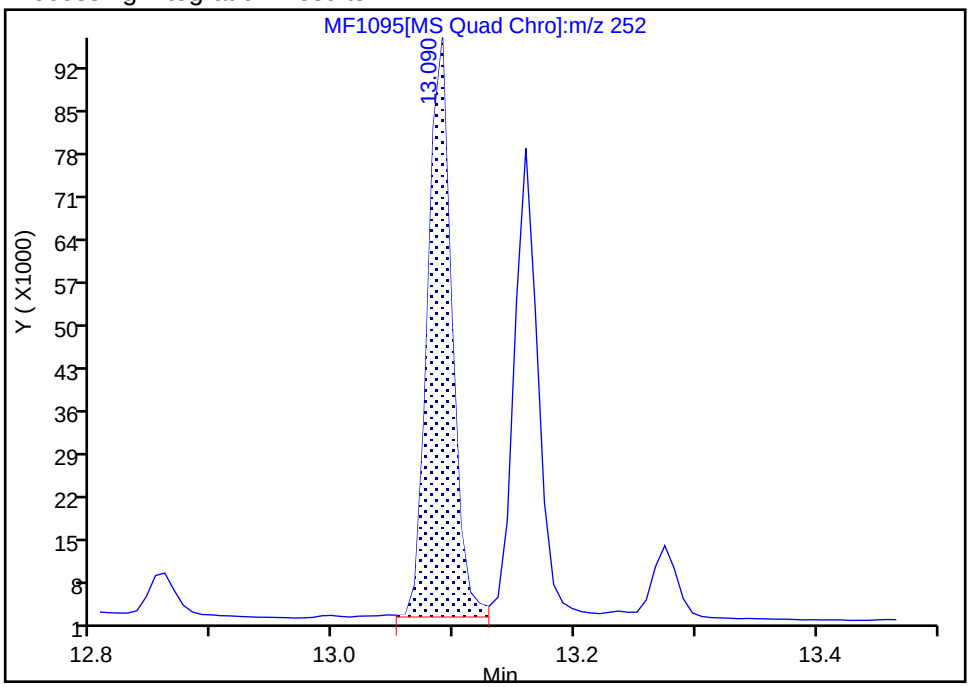
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

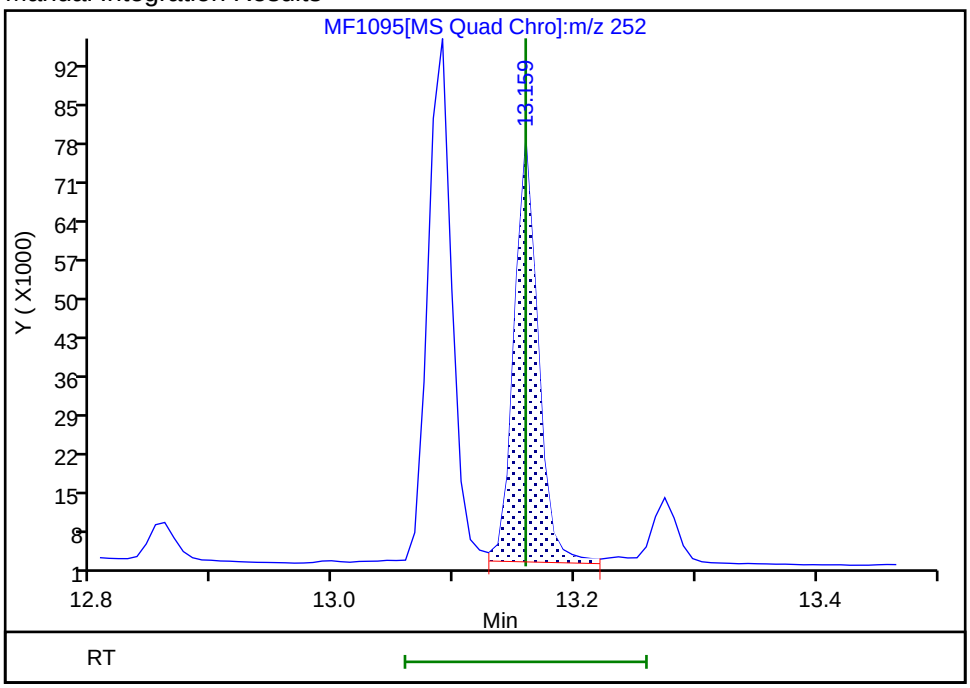
Processing Integration Results

RT: 13.09
Area: 130425
Amount: 0.089768
Amount Units: ug/ml



Manual Integration Results

RT: 13.16
Area: 105286
Amount: 0.072466
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:54 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

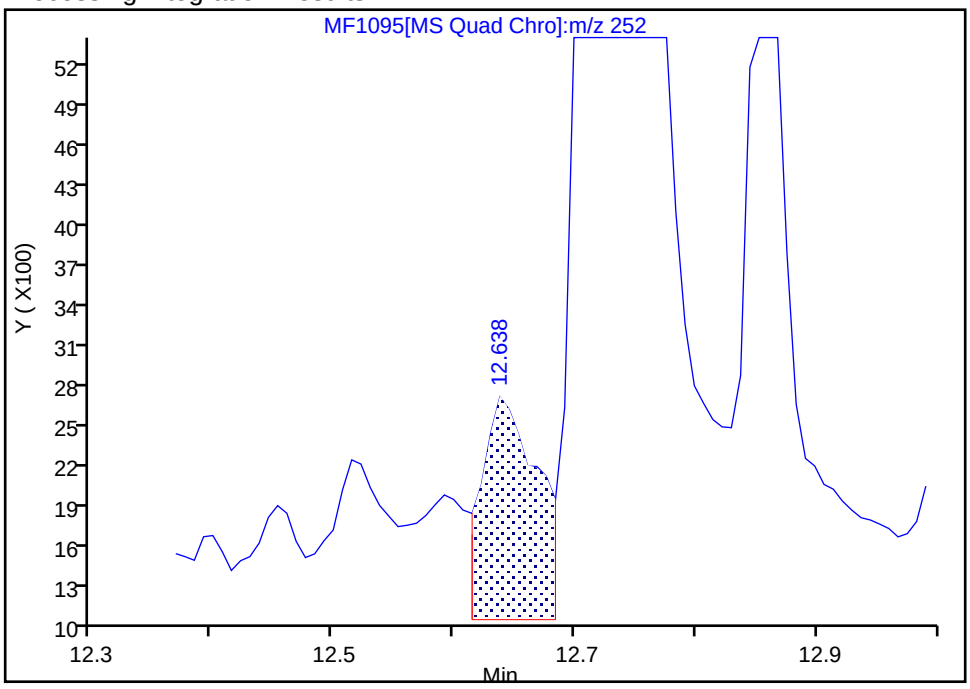
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

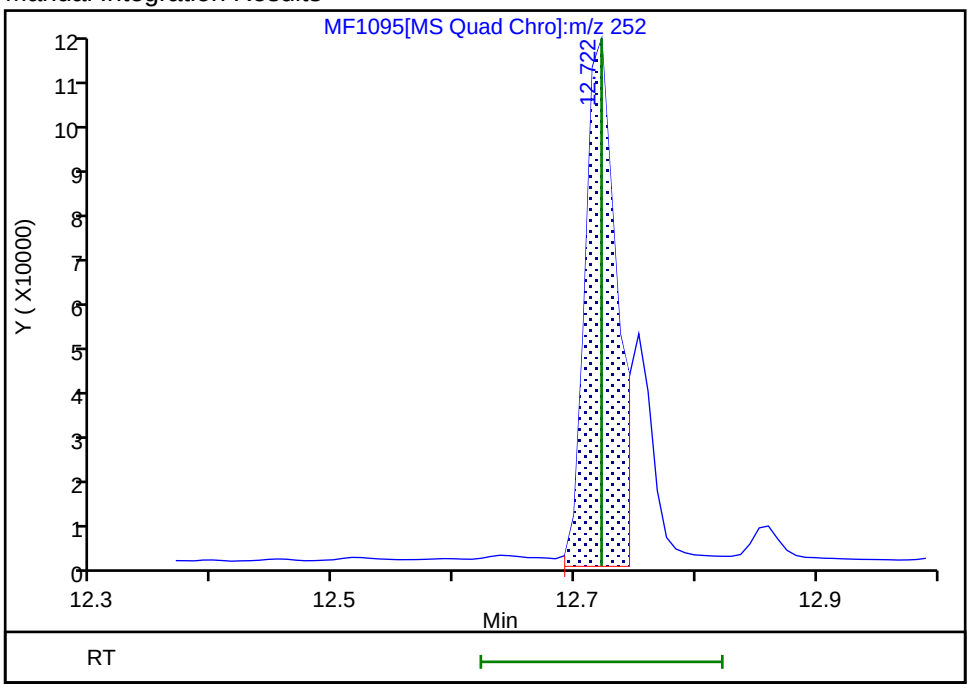
Processing Integration Results

RT: 12.64
Area: 5130
Amount: 0.003195
Amount Units: ug/ml



Manual Integration Results

RT: 12.72
Area: 200799
Amount: 0.125068
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:40 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

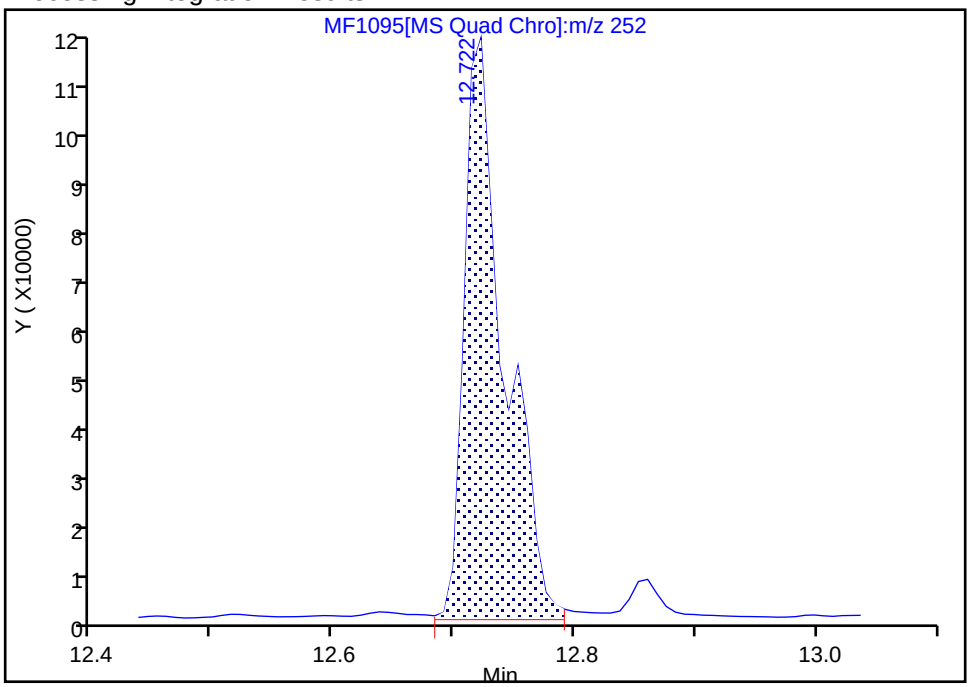
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

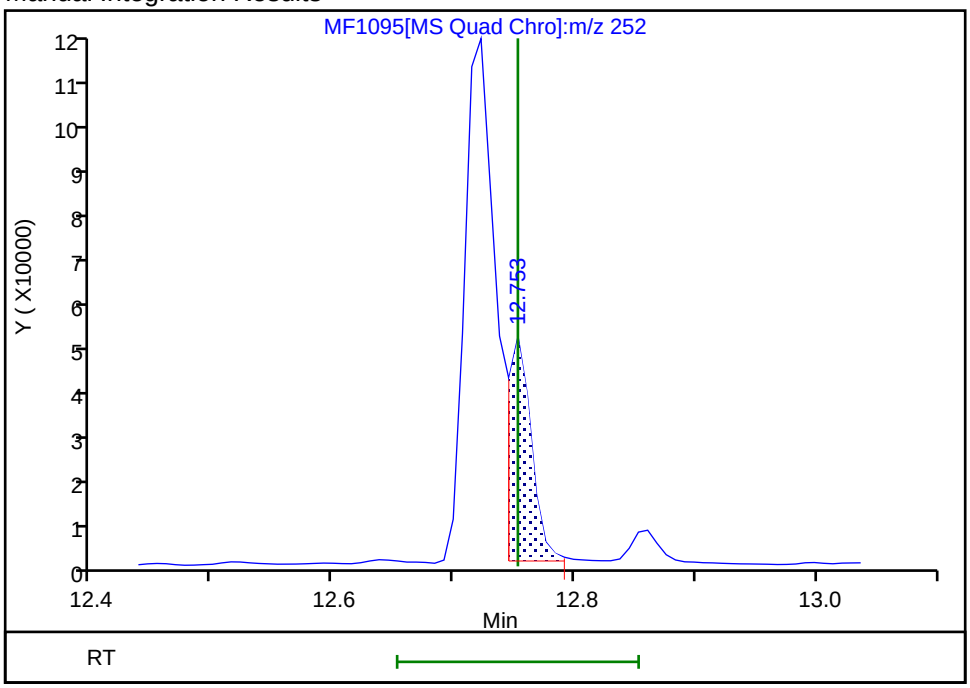
Processing Integration Results

RT: 12.72
Area: 260467
Amount: 0.152118
Amount Units: ug/ml



Manual Integration Results

RT: 12.75
Area: 57440
Amount: 0.033546
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:48 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

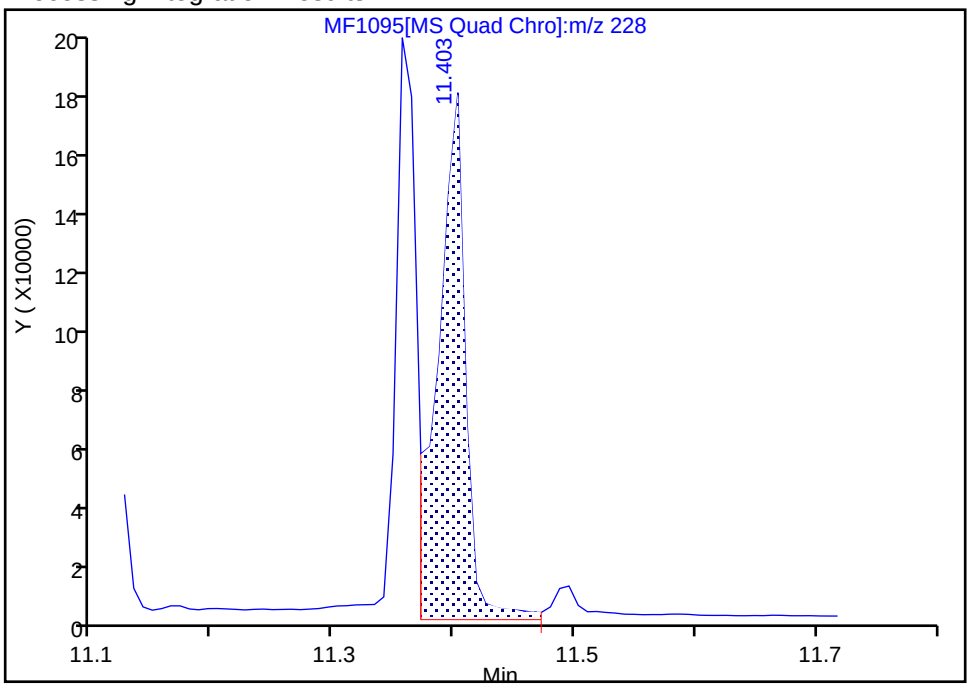
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

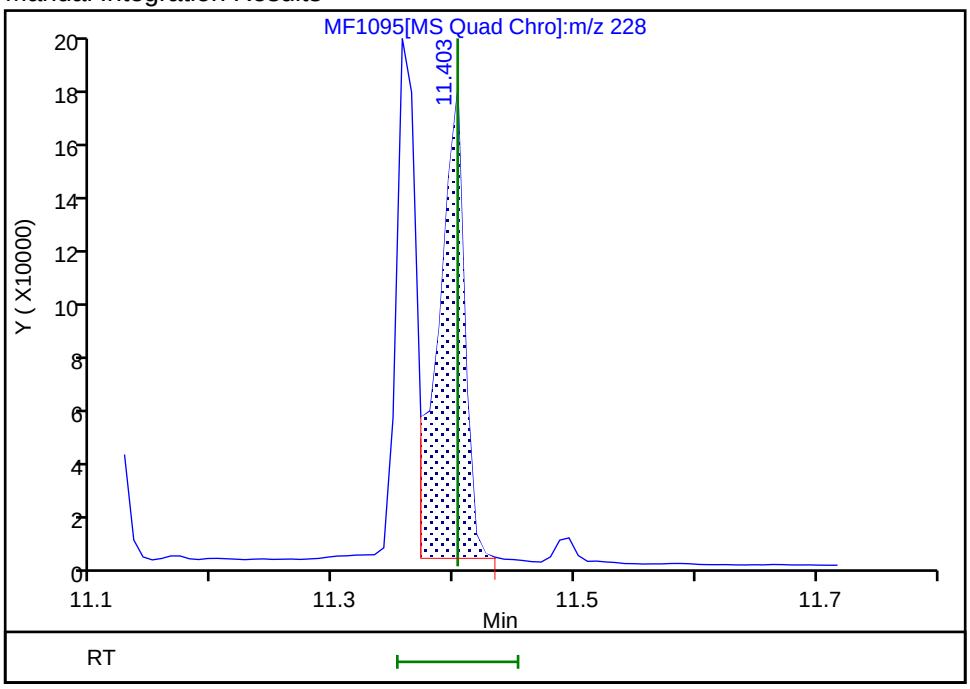
Processing Integration Results

RT: 11.40
Area: 269905
Amount: 0.158973
Amount Units: ug/ml



Manual Integration Results

RT: 11.40
Area: 247239
Amount: 0.145623
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:33 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

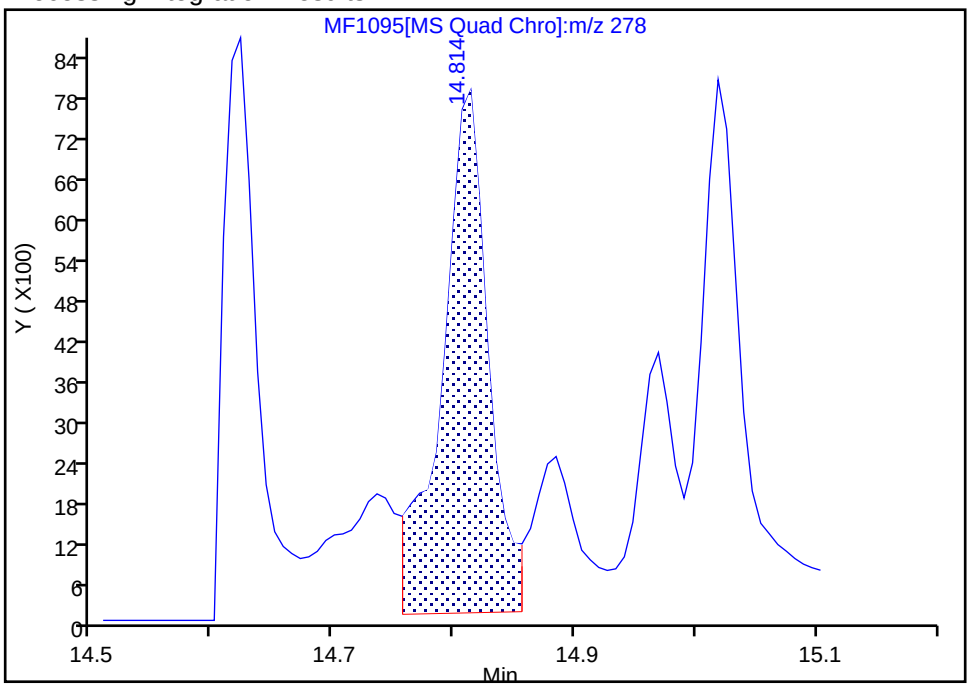
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

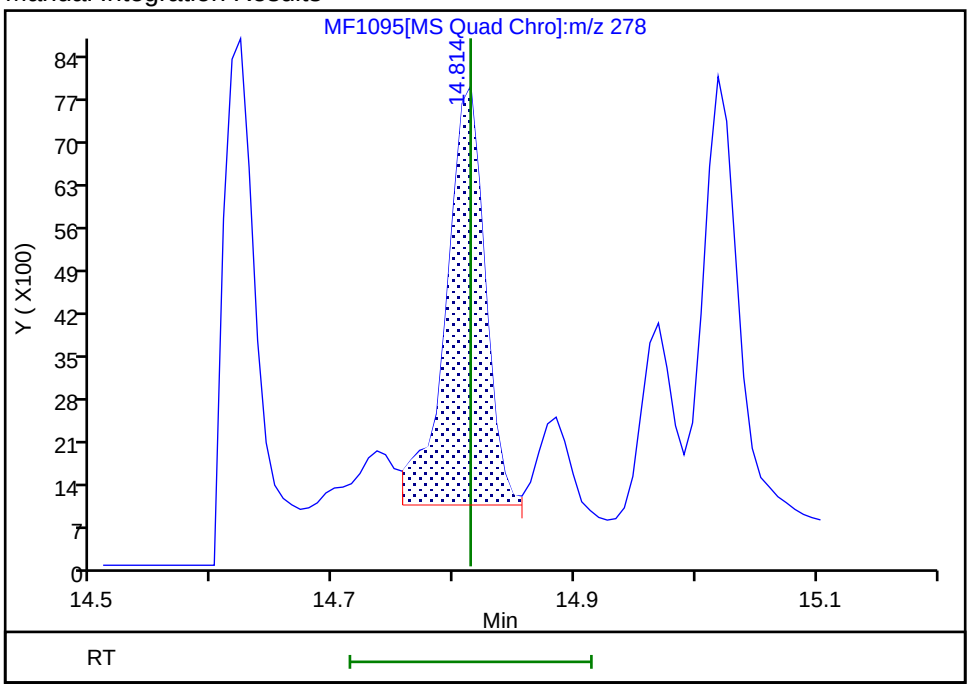
Processing Integration Results

RT: 14.81
Area: 20674
Amount: 0.013426
Amount Units: ug/ml



Manual Integration Results

RT: 14.81
Area: 15476
Amount: 0.010051
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:28:06 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

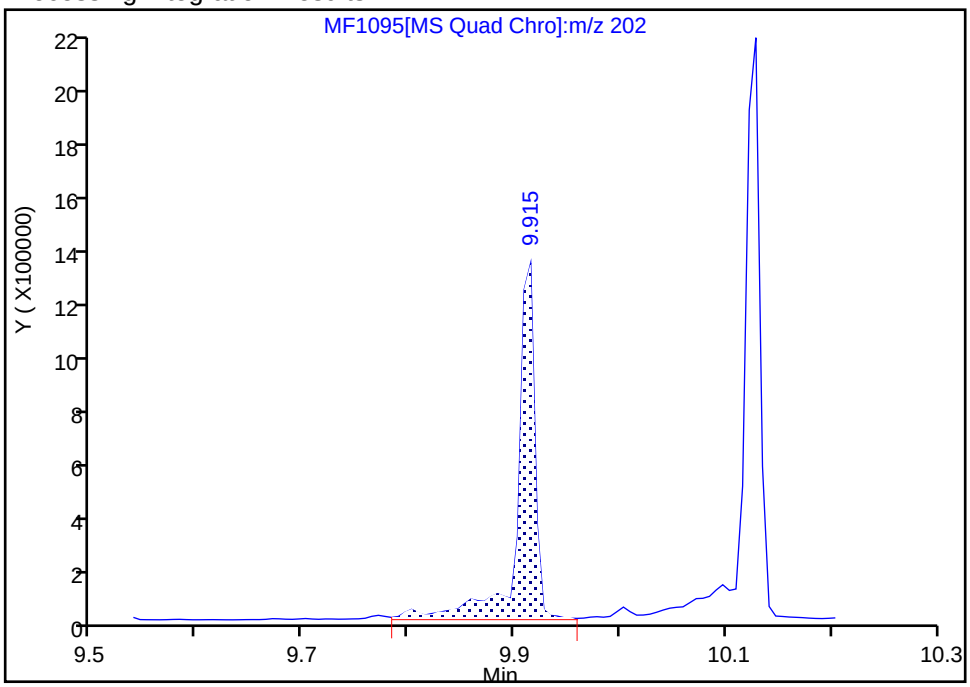
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

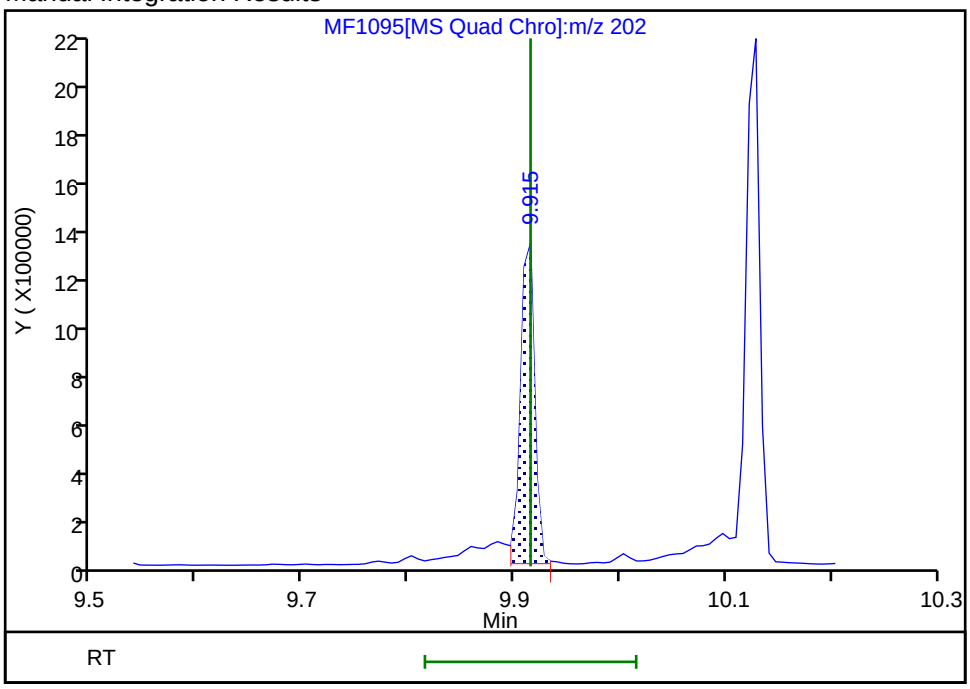
Processing Integration Results

RT: 9.92
Area: 1628661
Amount: 1.076240
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 1248269
Amount: 0.824872
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:13 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

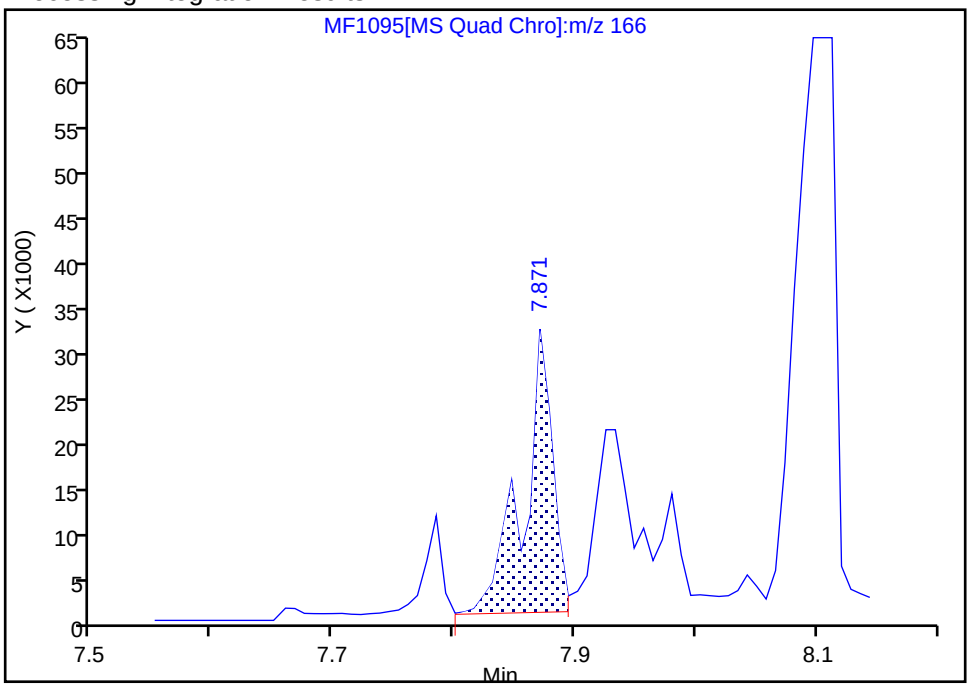
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

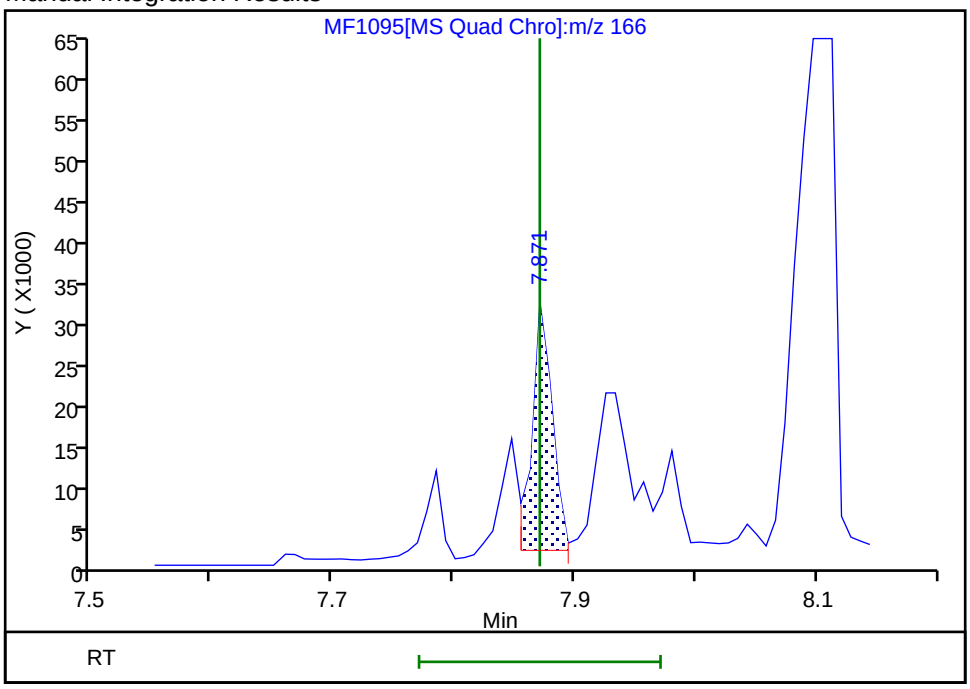
Processing Integration Results

RT: 7.87
Area: 52347
Amount: 0.062529
Amount Units: ug/ml



Manual Integration Results

RT: 7.87
Area: 34355
Amount: 0.041037
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:26:51 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

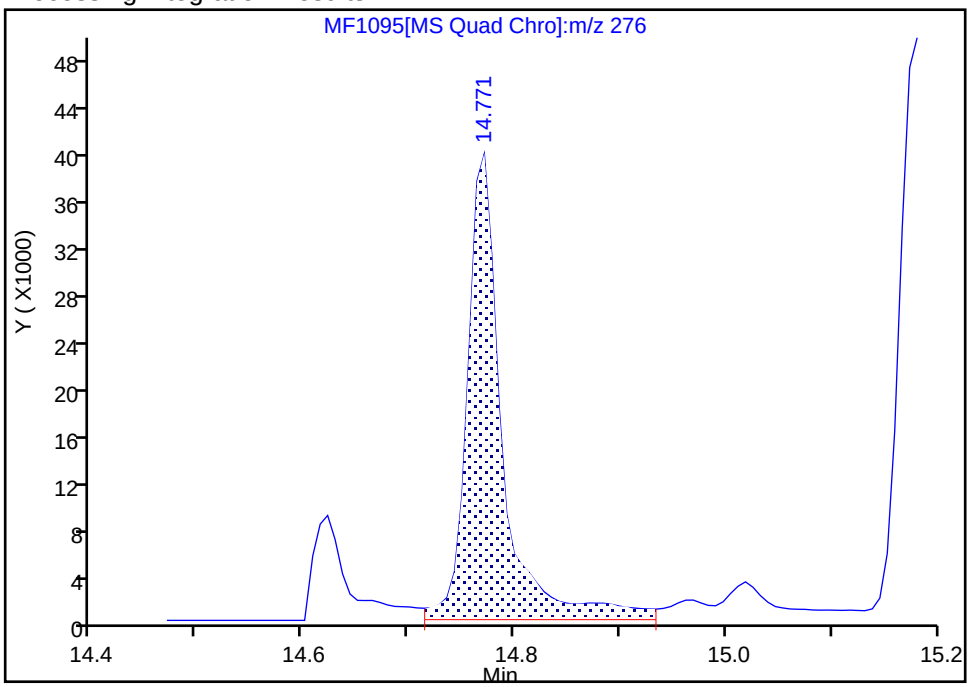
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

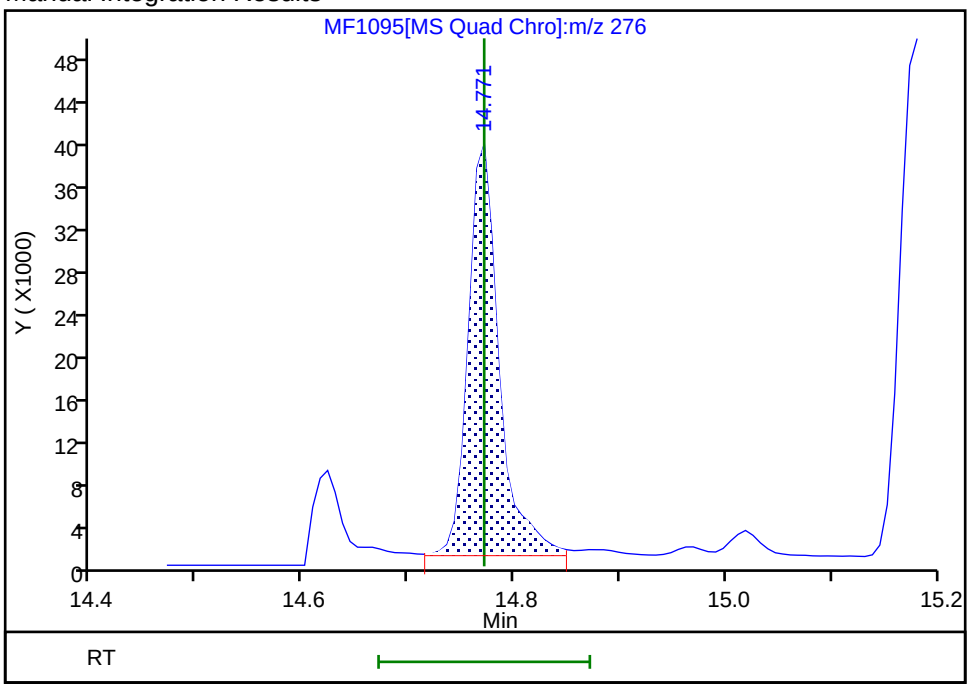
Processing Integration Results

RT: 14.77
Area: 91429
Amount: 0.068445
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 78476
Amount: 0.058748
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:28:00 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

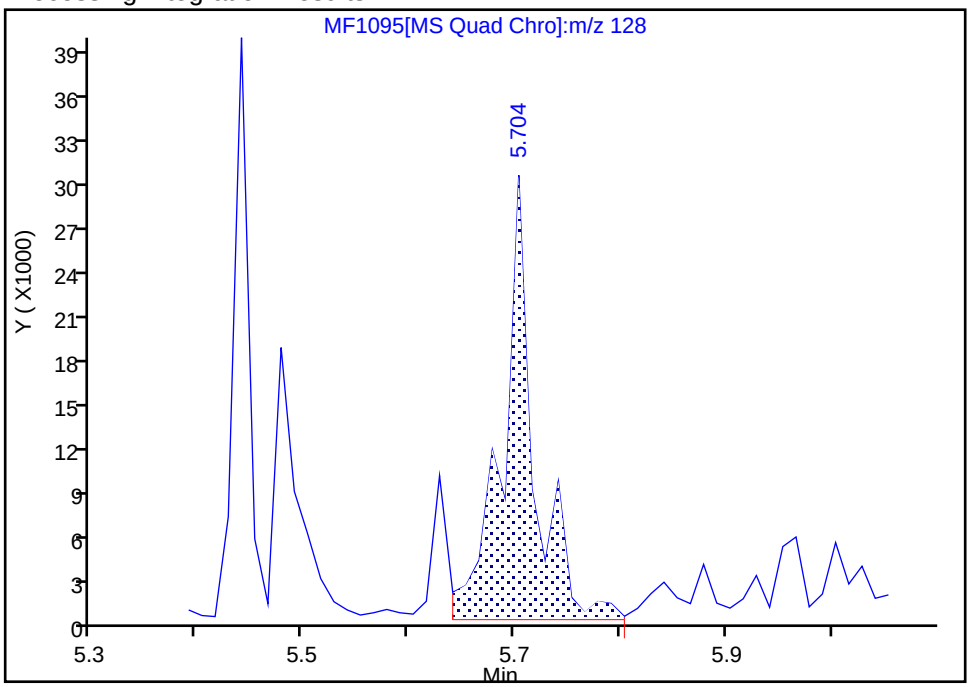
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

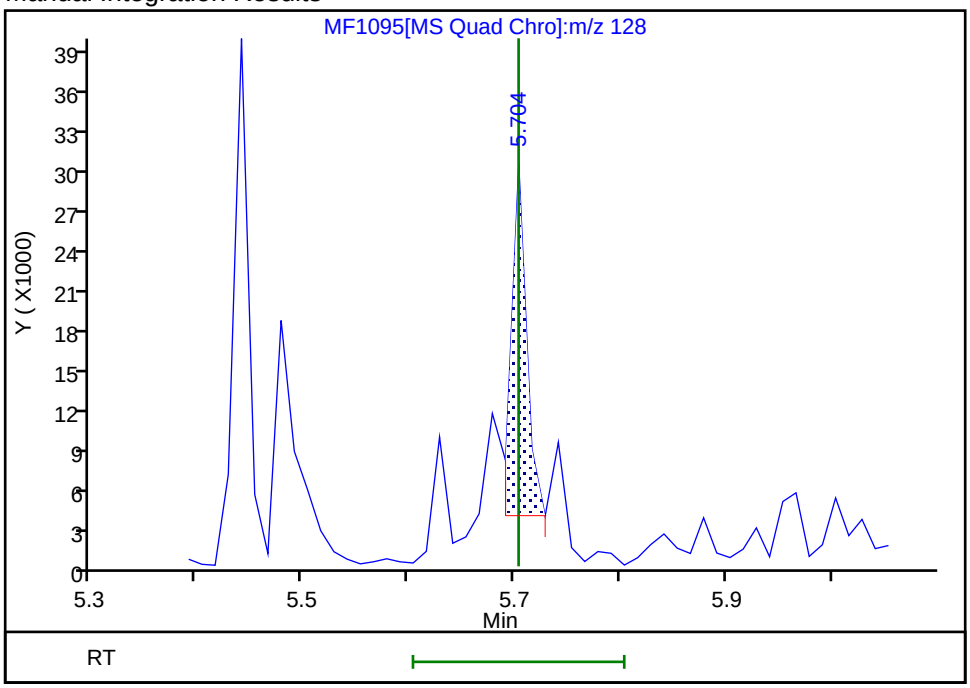
Processing Integration Results

RT: 5.70
Area: 63143
Amount: 0.062160
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 25111
Amount: 0.024720
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:26:41 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

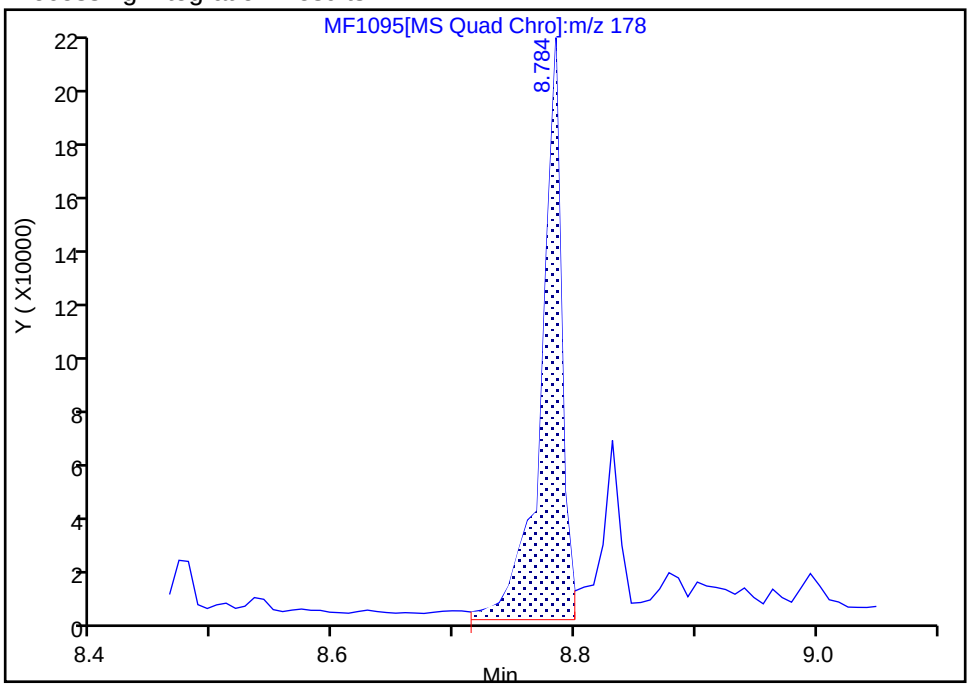
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

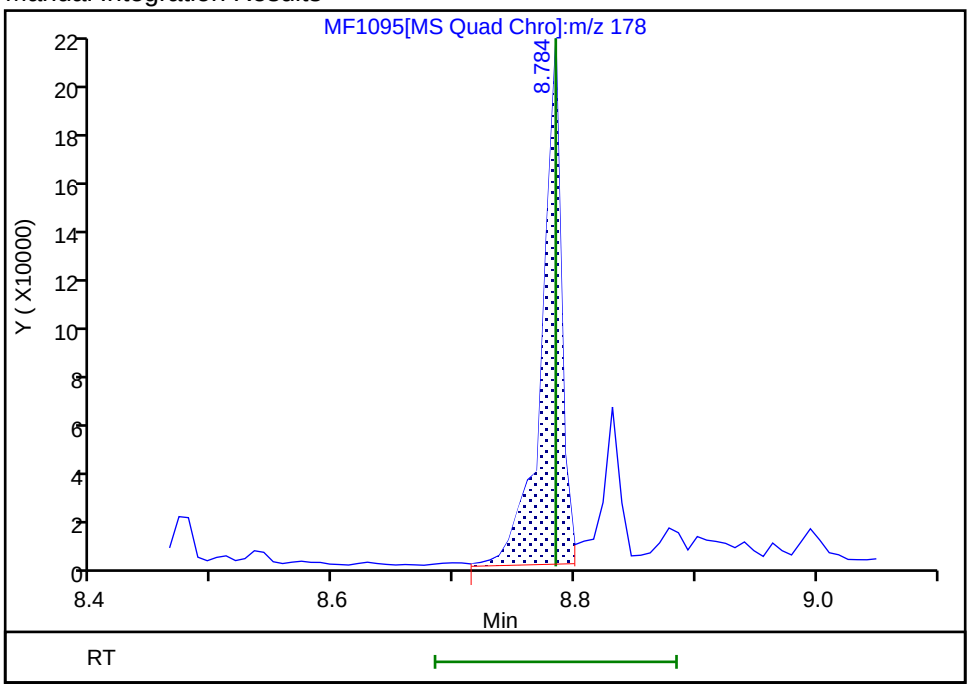
Processing Integration Results

RT: 8.78
Area: 248650
Amount: 0.184305
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 234699
Amount: 0.173964
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:00 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

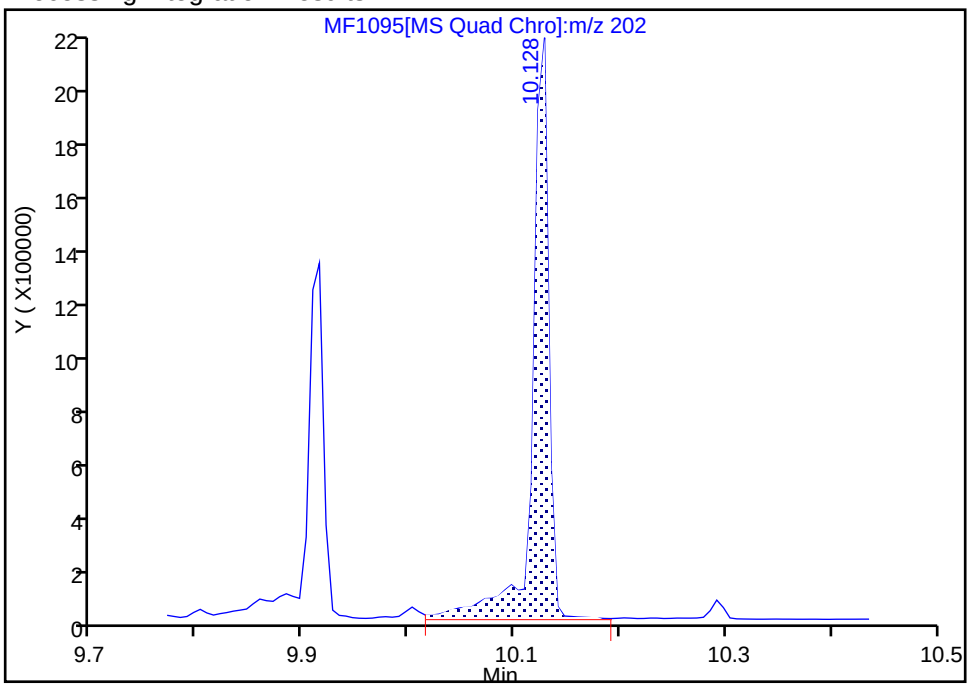
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1095.D				
Injection Date:	15-Jun-2023 14:56:19	Instrument ID:	HP21585		
Lims ID:	410-130132-D-4-A	Lab Sample ID:	410-130132-4		
Client ID:	MW-11S-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

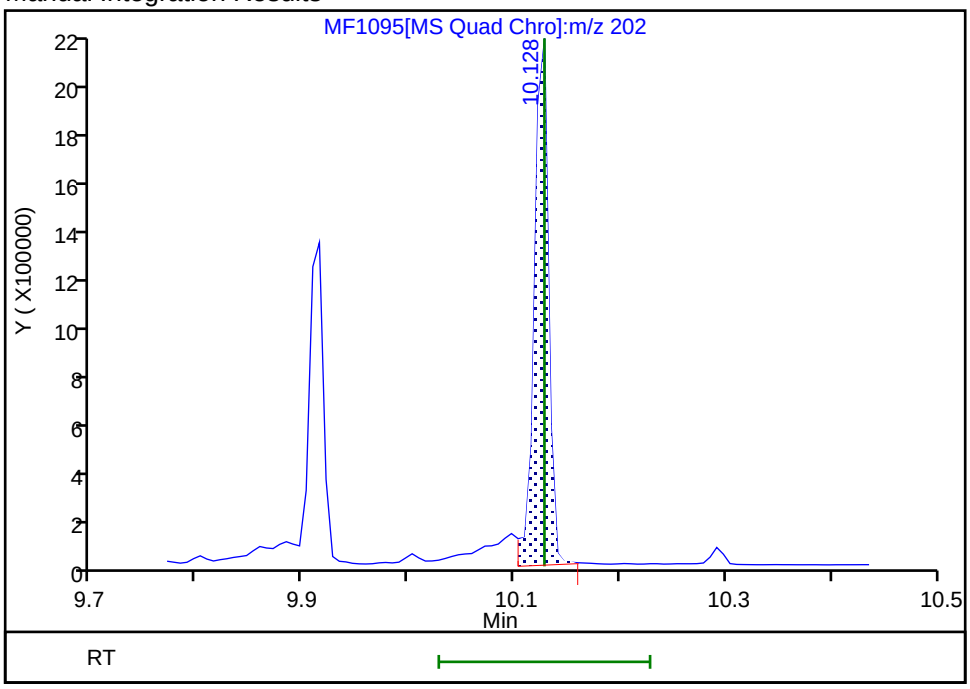
Processing Integration Results

RT: 10.13
Area: 2418014
Amount: 1.412321
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 2047988
Amount: 1.196195
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:27:20 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-11S-20230607 DL
Lab Sample ID: 410-130132-4 DL

Matrix: Water
Lab File ID: MF1167.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 14:55

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 240.7(mL)
Date Analyzed: 06/16/2023 11:07

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 5

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	21		0.26	0.052

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	84		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		33-120
93951-69-0	Fluoranthene-d10 (Surr)	88		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1167.D
Lims ID: 410-130132-D-4-A DL
Client ID: MW-11S-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 11:07:09 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 410-130132-D-4-A
Misc. Info.: 410-0086777-018
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:04:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	87	67326	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	94	231268	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	91	6940	0.006459	7M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.419	0.000	99	23024	0.0409	
12 Acenaphthylene	152	7.217	7.217	0.000	98	32945	0.0316	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	139462	0.2500	
14 Acenaphthene	154	7.384	7.385	0.000	86	693905	1.03	
17 Fluorene	166	7.871	7.871	0.000	100	8370	0.009700	M
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	276301	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	51641	0.0376	
22 Anthracene	178	8.831	8.831	0.000	100	15776	0.0132	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	55754	0.0441	
25 Fluoranthene	202	9.909	9.915	-0.006	100	312242	0.2027	
26 Pyrene	202	10.122	10.128	-0.006	99	488636	0.2808	
28 Benzo[a]anthracene	228	11.357	11.372	-0.008	100	44427	0.0313	
* 29 Chrysene-d12	240	11.372	11.372	0.000	57	270929	0.2500	
30 Chrysene	228	11.403	11.388	0.000	100	58001	0.0336	
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	39740	0.0254	M
34 Benzo[k]fluoranthene	252	12.753	12.761	-0.007	100	12126	0.007261	Ma
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.128	0.000	100	45642	0.0419	
37 Benzo[a]pyrene	252	13.159	13.167	0.000	100	21161	0.0149	a
* 38 Perylene-d12	264	13.244	13.244	0.000	100	296332	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	100	14386	0.0110	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	89	2921	0.001945	7M
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	19754	0.0119	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

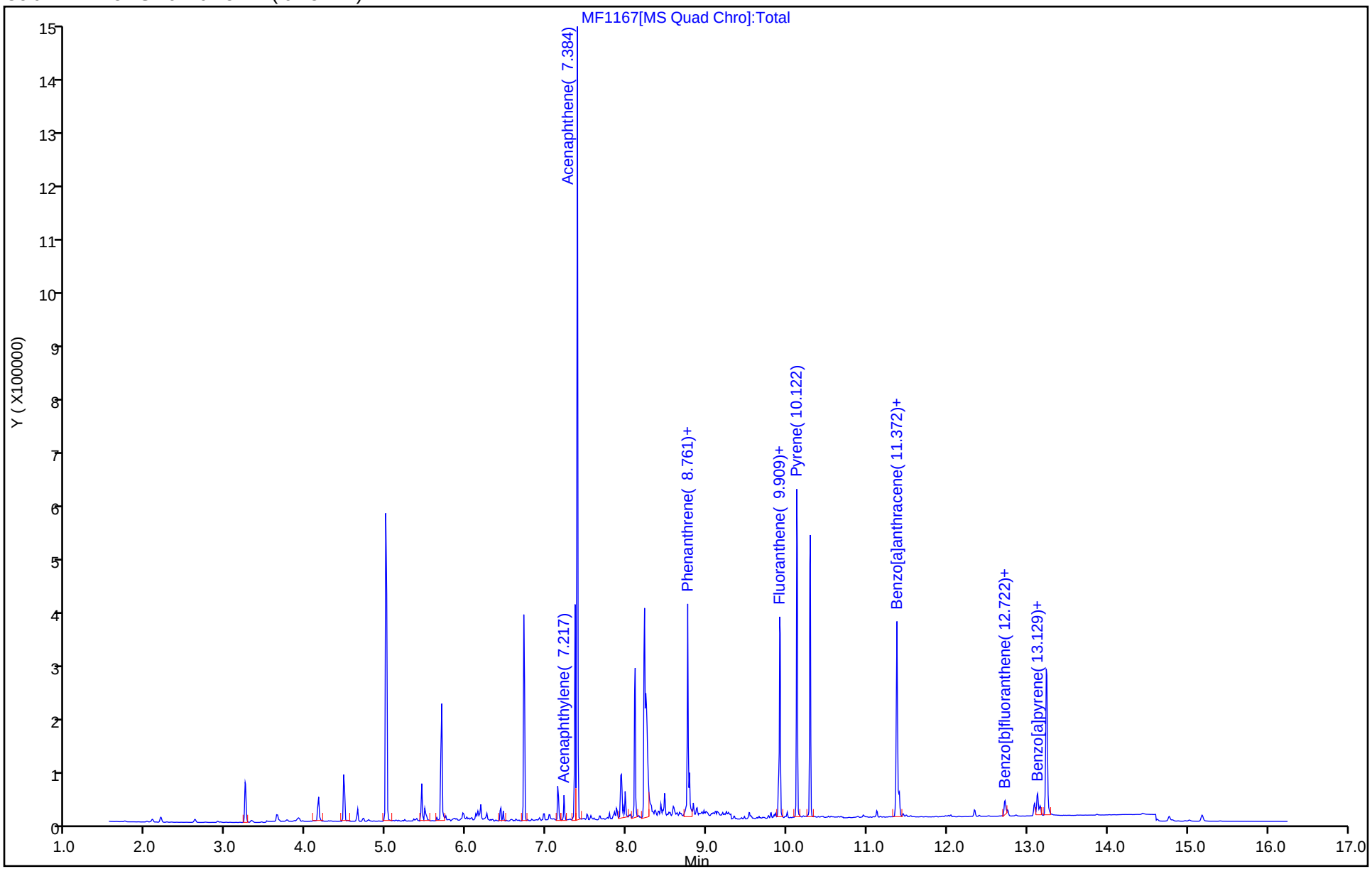
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 12:32:40 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1167.D				
Injection Date:	16-Jun-2023 11:07:09	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-4-A DL	Lab Sample ID:	410-130132-4	Worklist Smp#:	18
Client ID:	MW-11S-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1167.D				
Lims ID:	410-130132-D-4-A DL				
Client ID:	MW-11S-20230607				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 11:07:09	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	410-130132-D-4-A				
Misc. Info.:	410-0086777-018				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

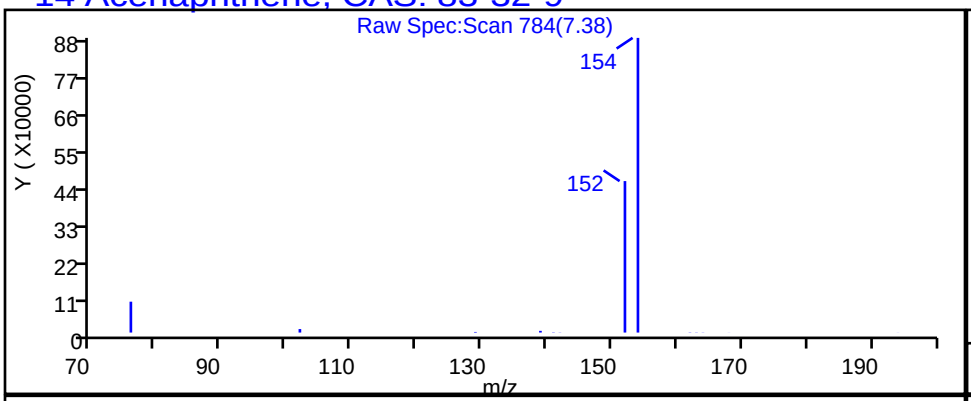
First Level Reviewer: SJ89 Date: 19-Jun-2023 12:04:34

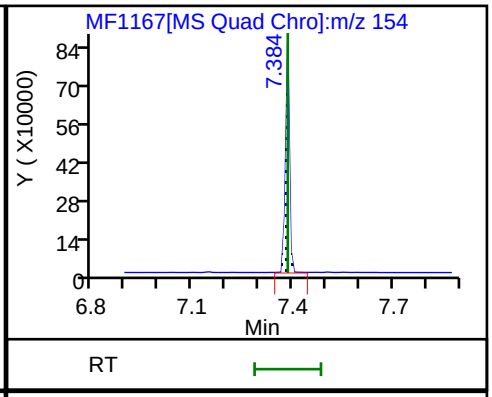
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.0409	81.78
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.0441	88.29
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.0419	83.77

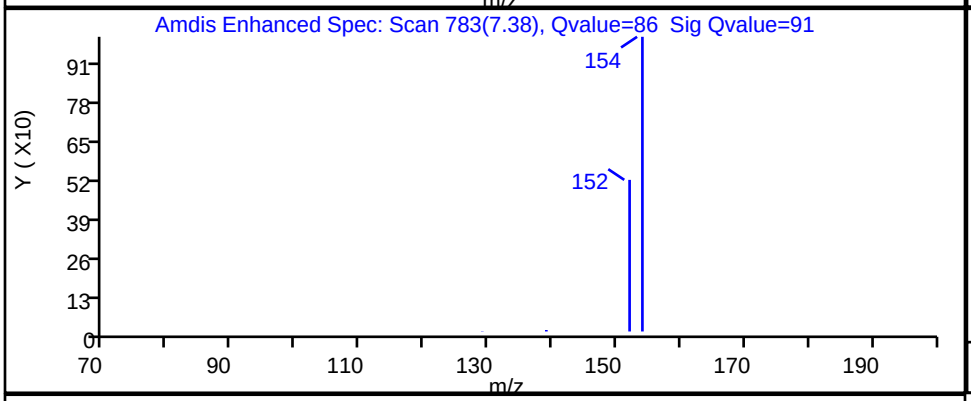
Eurofins Lancaster Laboratories Environment Testing, LLC

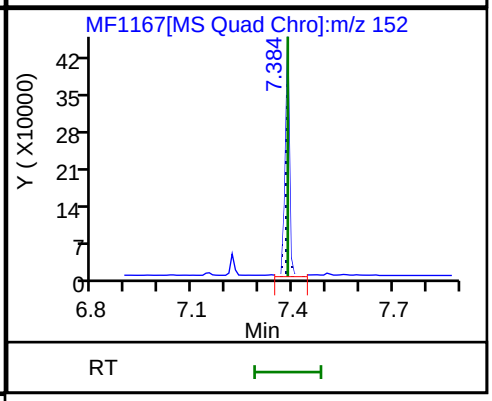
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1167.D		
Injection Date:	16-Jun-2023 11:07:09	Instrument ID:	HP21585
Lims ID:	410-130132-D-4-A DL	Lab Sample ID:	410-130132-4
Client ID:	MW-11S-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

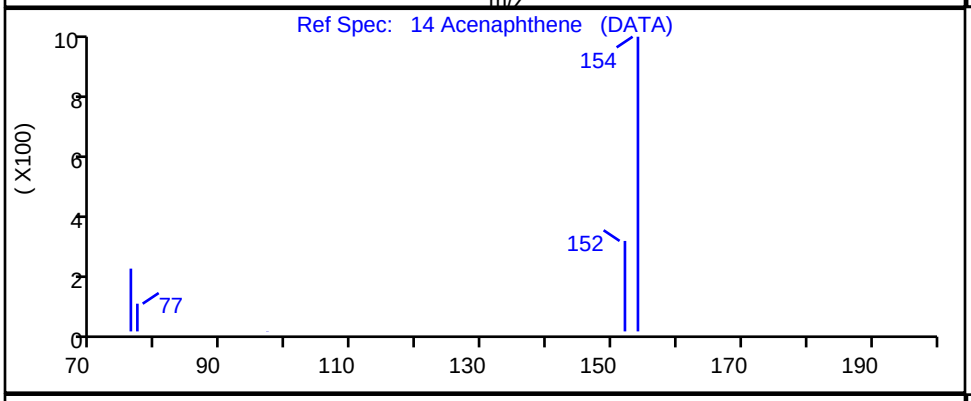
14 Acenaphthene, CAS: 83-32-9

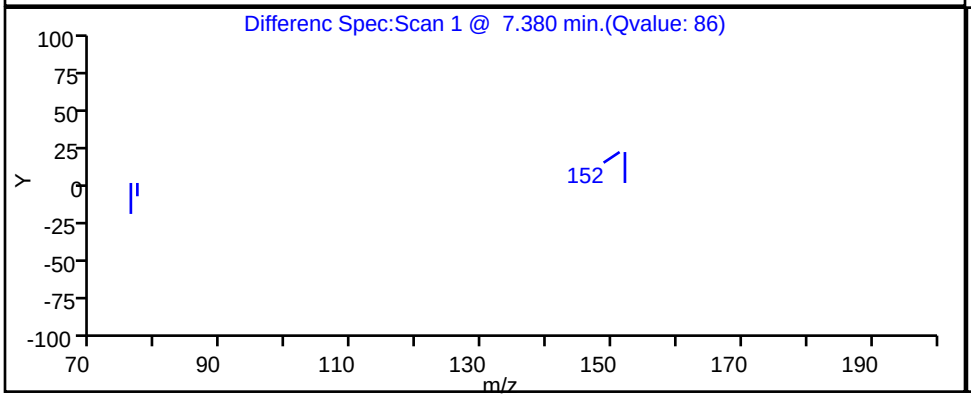


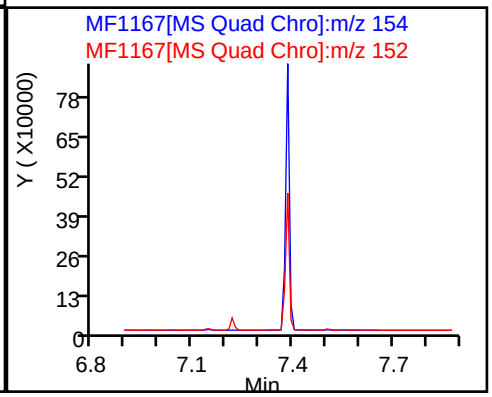












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-3-20230607
Lab Sample ID: 410-130132-5

Matrix: Water
Lab File ID: MF1096.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 15:39

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 244.9(mL)
Date Analyzed: 06/15/2023 15:17

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	3.9		0.051	0.010
120-12-7	Anthracene	1.8		0.051	0.010
56-55-3	Benzo[a]anthracene	0.42		0.051	0.010
50-32-8	Benzo[a]pyrene	0.012	J	0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	0.21		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	8.3		0.051	0.010
86-73-7	Fluorene	8.4		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
129-00-0	Pyrene	9.2		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	91		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	74		33-120
93951-69-0	Fluoranthene-d10 (Surr)	76		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D
Lims ID: 410-130132-D-5-A
Client ID: MW-3-20230607
Sample Type: Client
Inject. Date: 15-Jun-2023 15:17:42 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-5-A
Misc. Info.: 410-0086657-027
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:29:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	100	59467	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	239015	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	92	8961552	8.07	E
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	97	106974	0.1838	
12 Acenaphthylene	152	7.217	7.217	0.000	99	967641	0.9658	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	93	134023	0.2500	M
14 Acenaphthene	154	7.384	7.384	0.000	91	5081054	7.83	E
17 Fluorene	166	7.871	7.871	0.000	98	1698555	2.05	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	94	256269	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	4130240	3.24	E
22 Anthracene	178	8.831	8.831	0.000	100	488978	0.4420	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	223994	0.1912	M
25 Fluoranthene	202	9.915	9.915	0.000	100	2891840	2.02	M
26 Pyrene	202	10.128	10.128	0.000	99	3582841	2.26	M
28 Benzo[a]anthracene	228	11.365	11.357	0.001	100	132447	0.1024	
* 29 Chrysene-d12	240	11.372	11.372	0.000	64	246971	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	82355	0.0524	
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	99	3086	0.002167	7M
34 Benzo[k]fluoranthene	252	12.753	12.753	0.000	92	1152	0.000759	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	100	226061	0.2282	
37 Benzo[a]pyrene	252	13.159	13.159	0.000	100	3770	0.002926	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	269455	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	98	1161	0.000980	7M

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

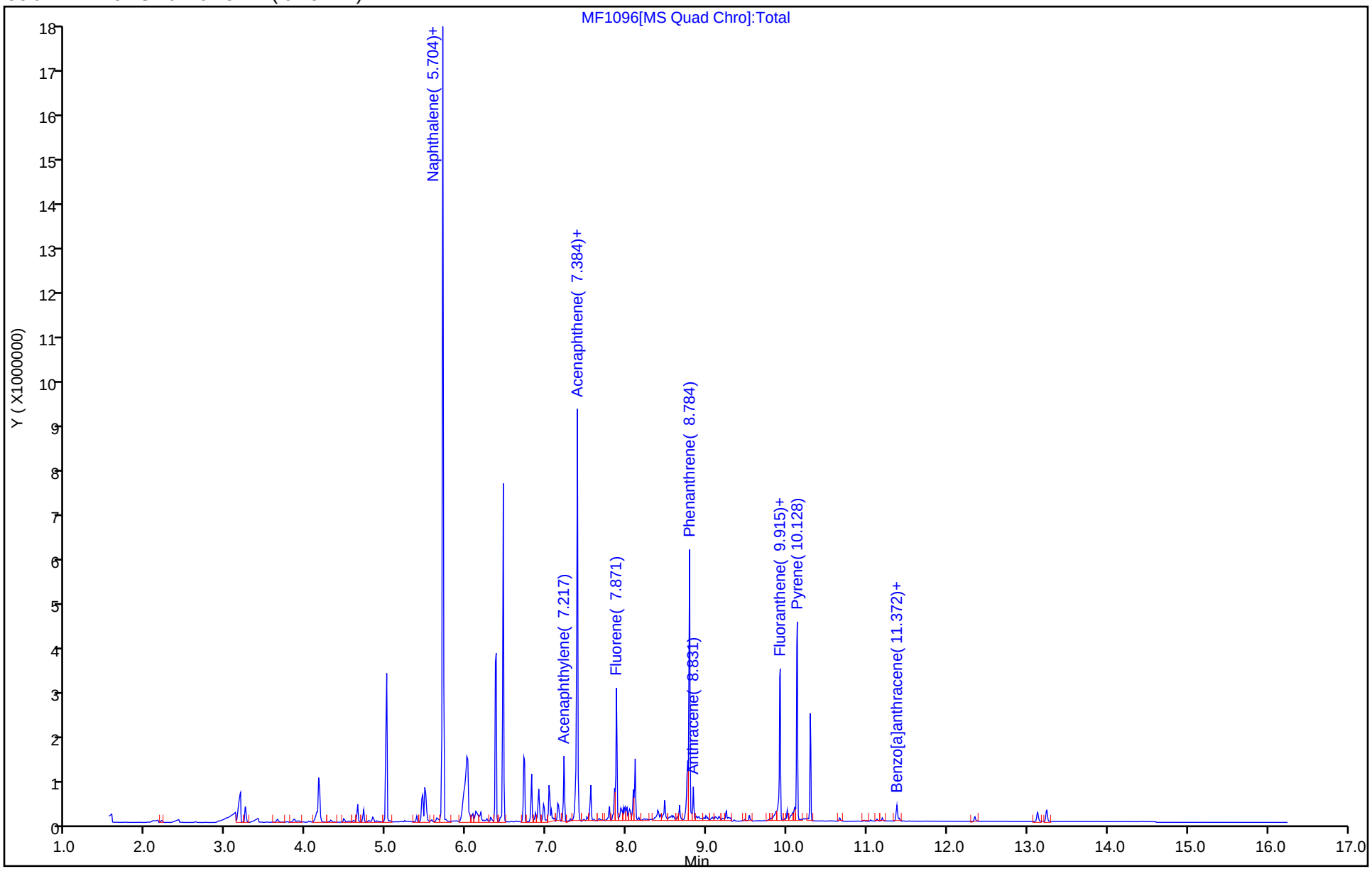
Report Date: 16-Jun-2023 03:31:22 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D

Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5	Worklist Smp#:	27
Client ID:	MW-3-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Lims ID:	410-130132-D-5-A				
Client ID:	MW-3-20230607				
Sample Type:	Client				
Inject. Date:	15-Jun-2023 15:17:42	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-5-A				
Misc. Info.:	410-0086657-027				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	16-Jun-2023 03:30:30	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

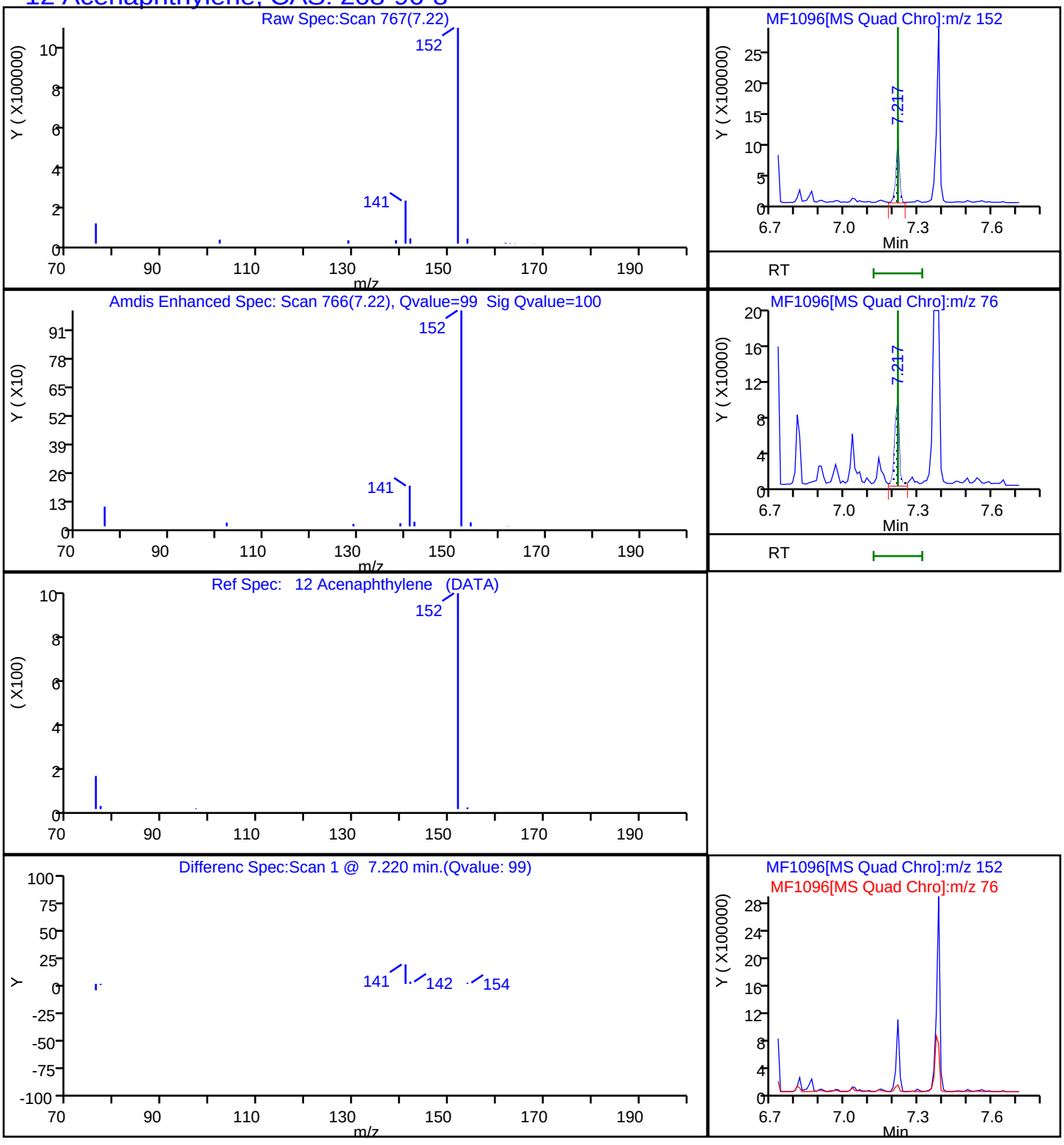
First Level Reviewer: UJM0 Date: 16-Jun-2023 03:29:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1838	73.53
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1912	76.49
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2282	91.26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D		
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5
Client ID:	MW-3-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

12 Acenaphthylene, CAS: 208-96-8



Report Date: 16-Jun-2023 03:31:22 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D

Injection Date: 15-Jun-2023 15:17:42 Instrument ID: HP21585

Lims ID: 410-130132-D-5-A Lab Sample ID: 410-130132-5

Client ID: MW-3-20230607

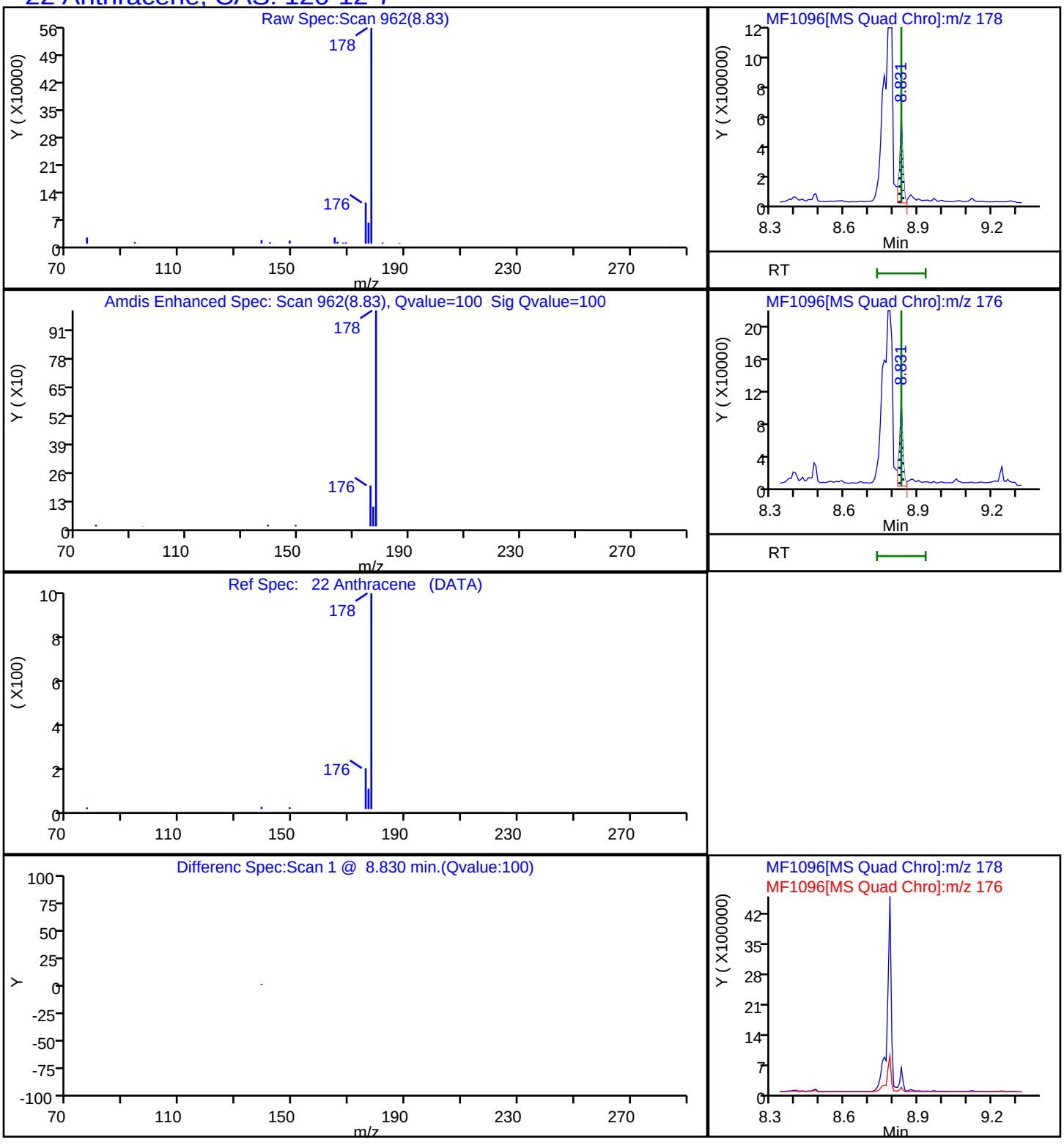
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 27

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

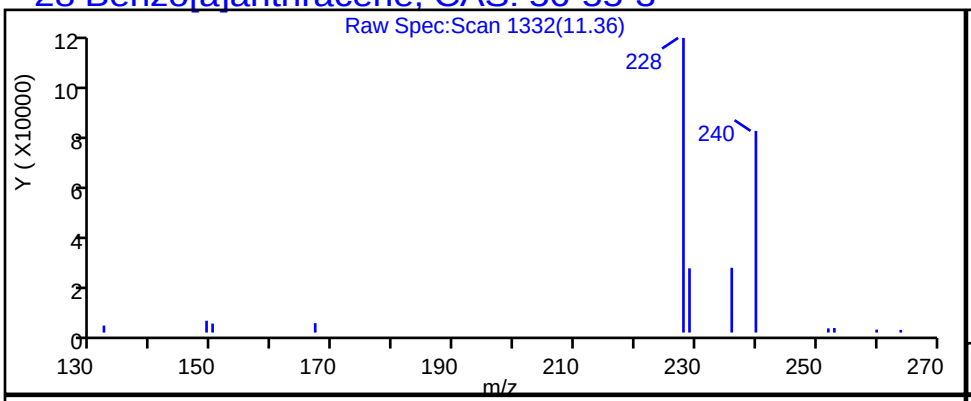
22 Anthracene, CAS: 120-12-7

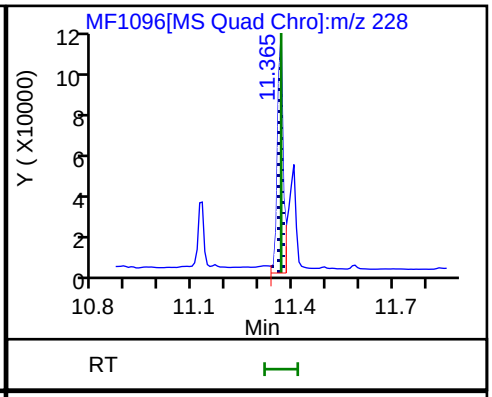


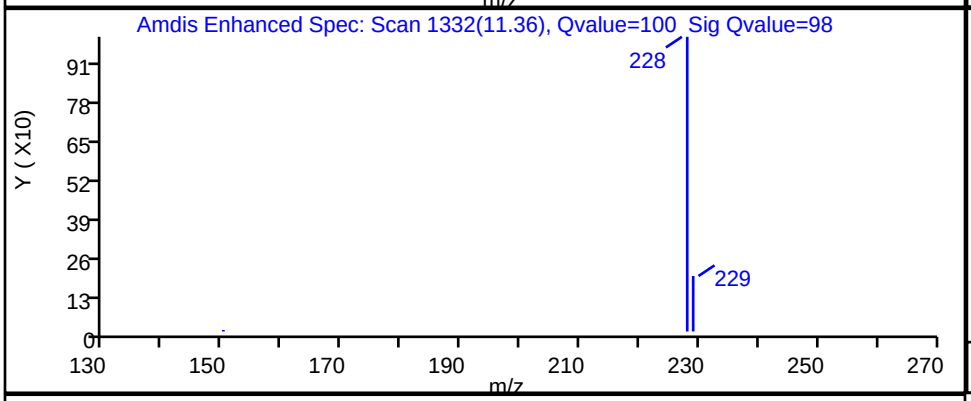
Eurofins Lancaster Laboratories Environment Testing, LLC

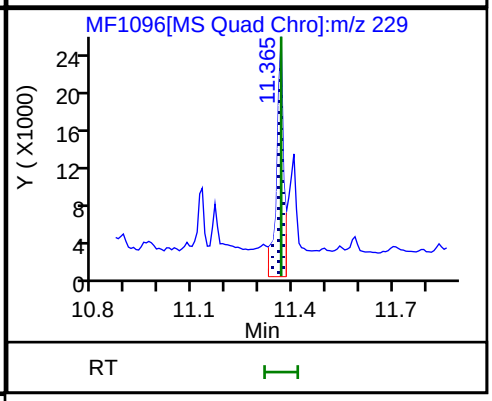
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

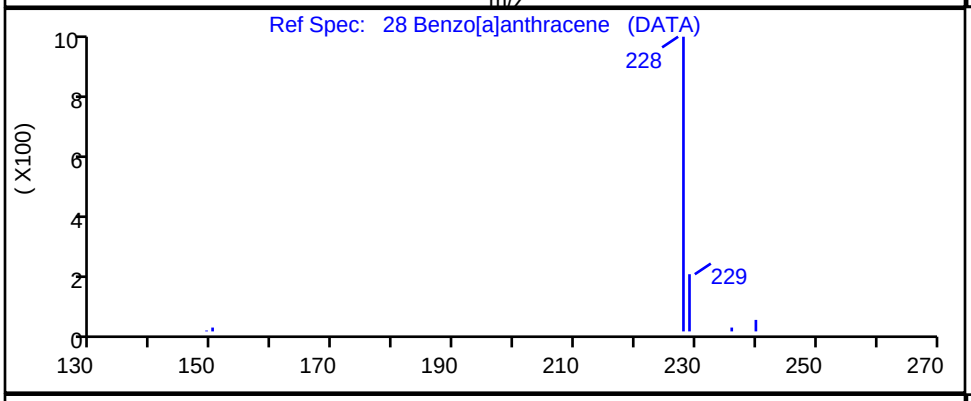
28 Benzo[a]anthracene, CAS: 56-55-3

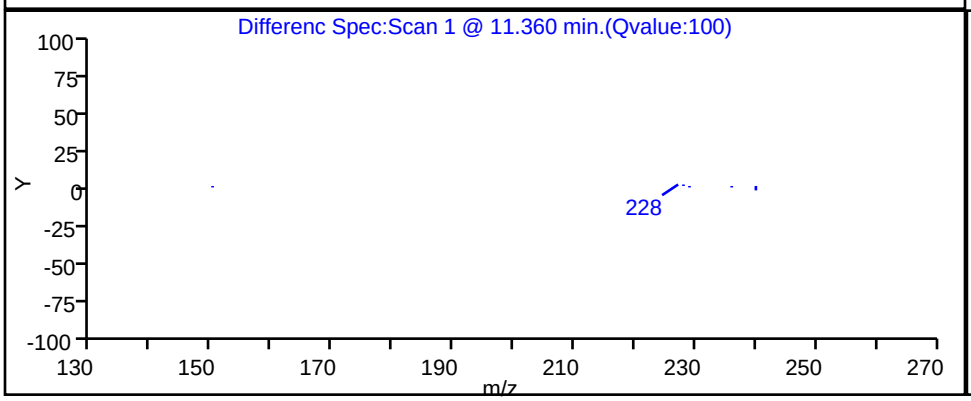


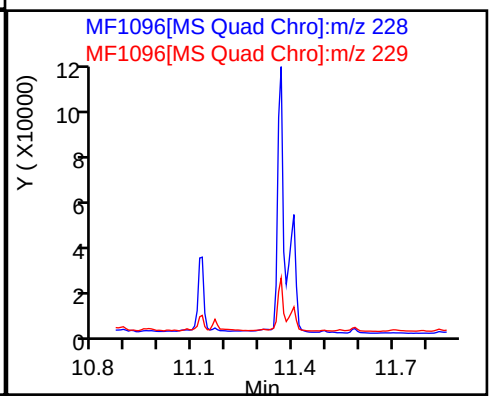








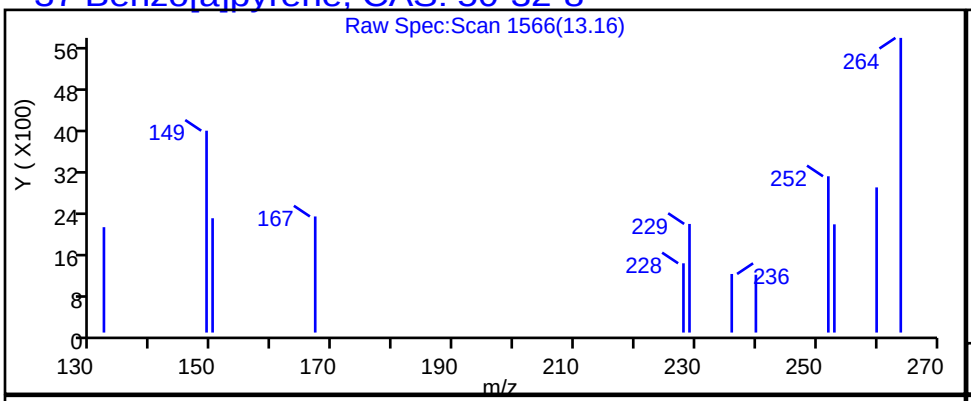


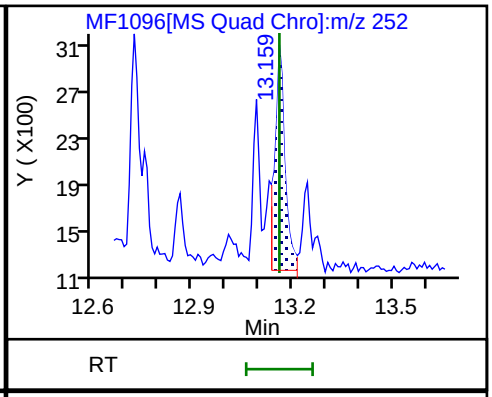


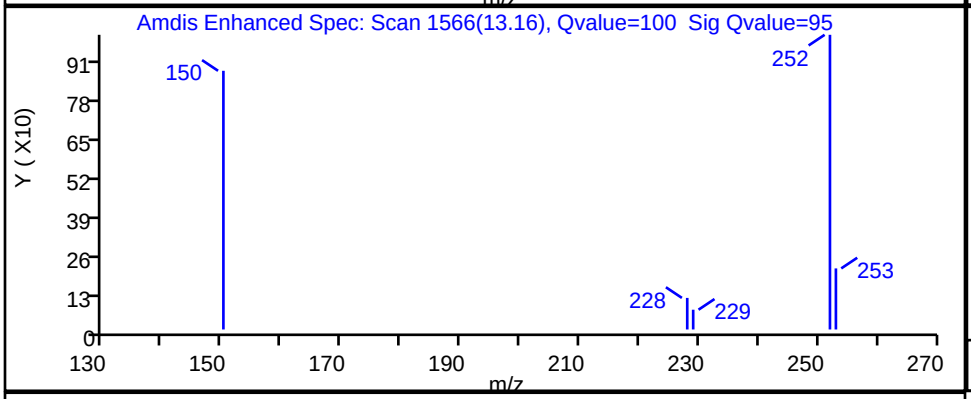
Eurofins Lancaster Laboratories Environment Testing, LLC

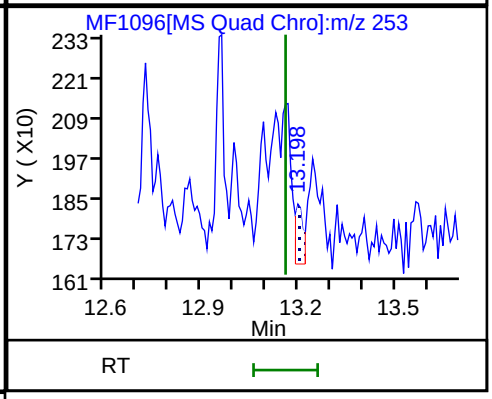
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

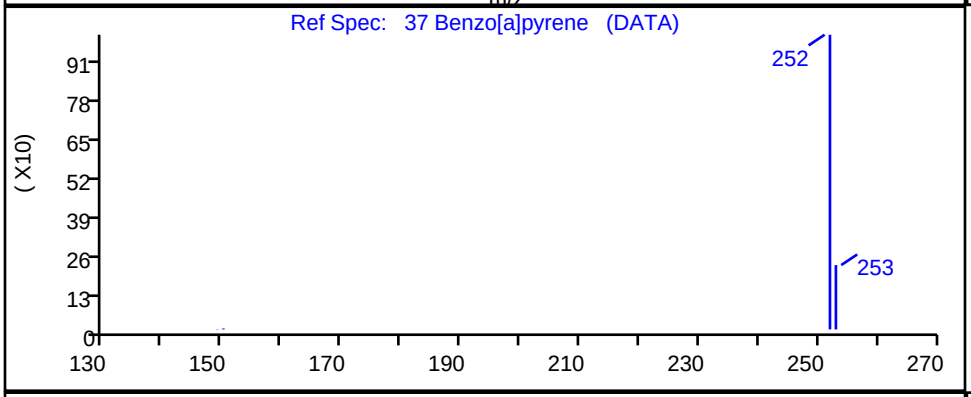
37 Benzo[a]pyrene, CAS: 50-32-8

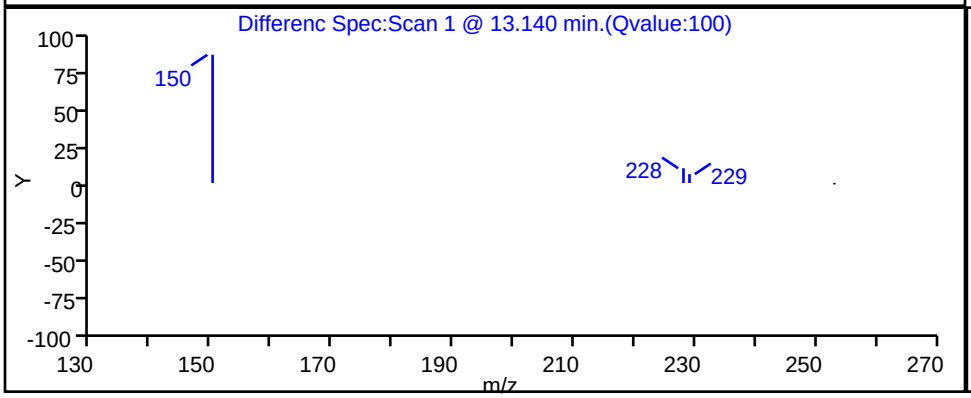


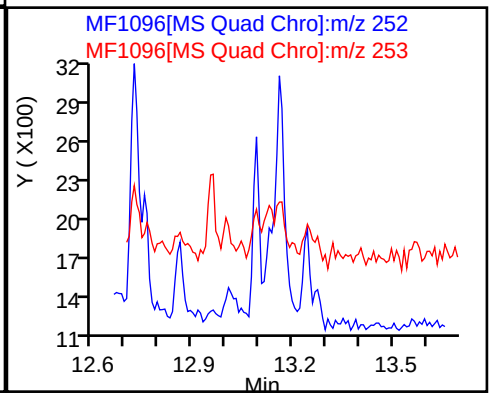










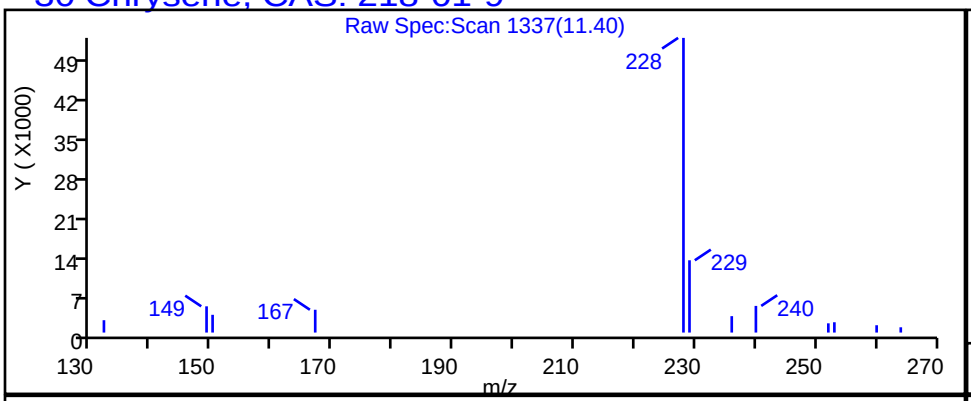


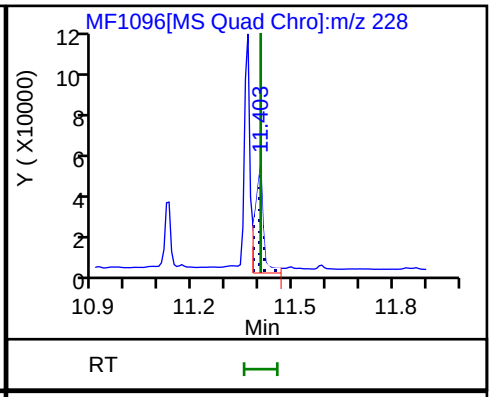
Report Date: 16-Jun-2023 03:31:22 Chrom Revision: 2.3 05-Jun-2023 19:02:10

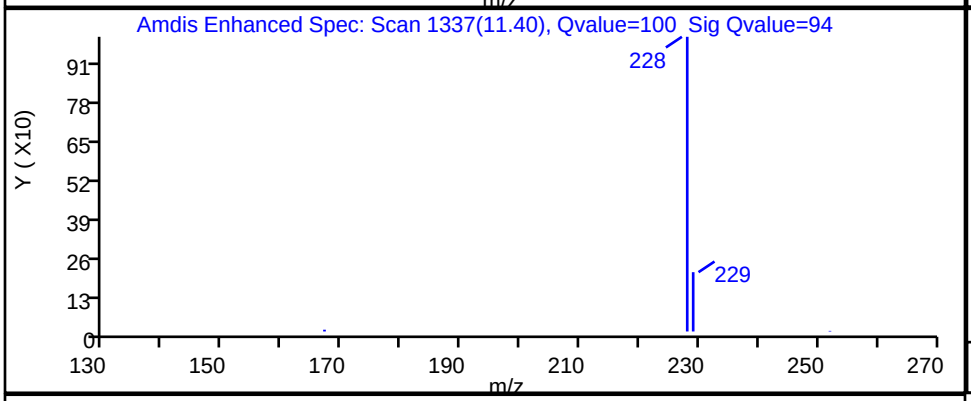
Eurofins Lancaster Laboratories Environment Testing, LLC

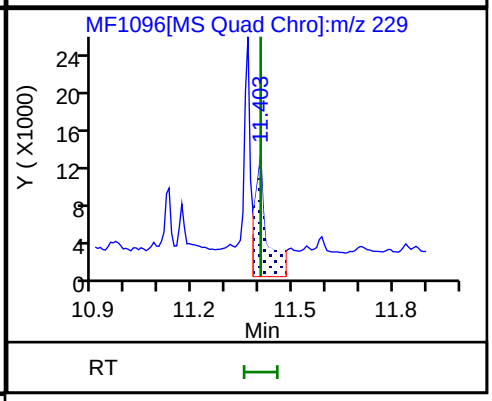
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

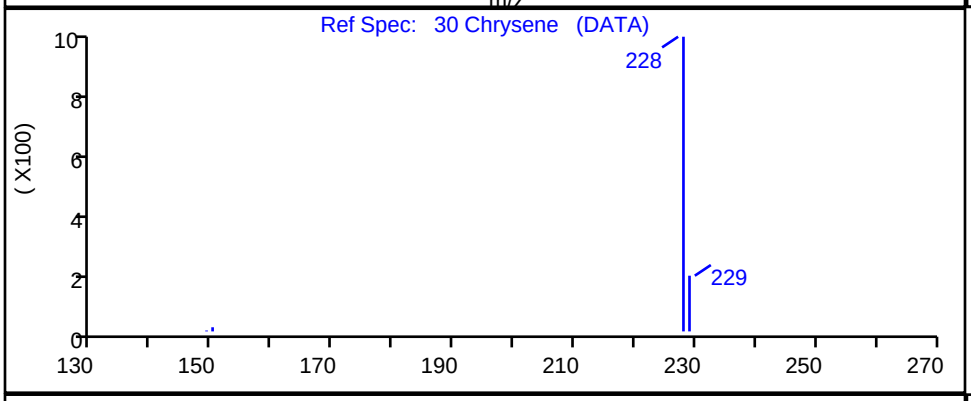
30 Chrysene, CAS: 218-01-9

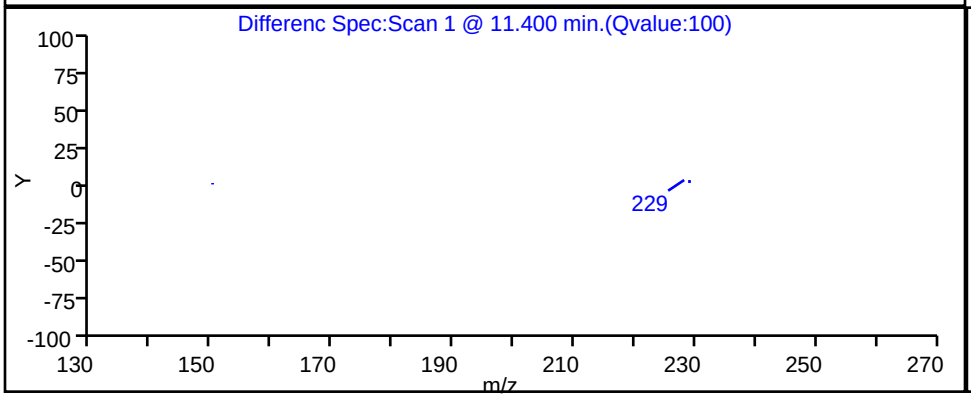


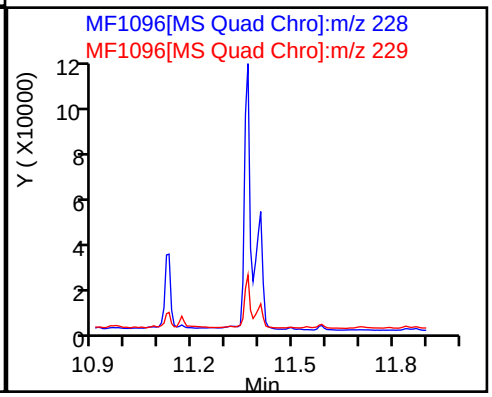












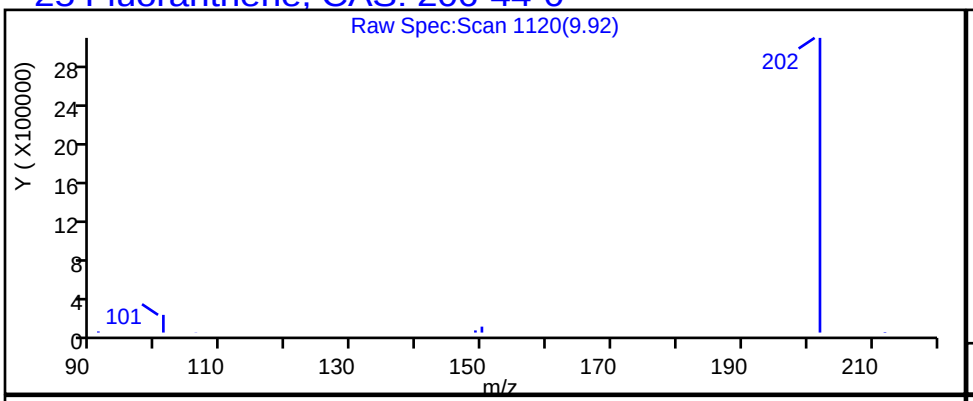
Report Date: 16-Jun-2023 03:31:22 Chrom Revision: 2.3 05-Jun-2023 19:02:10

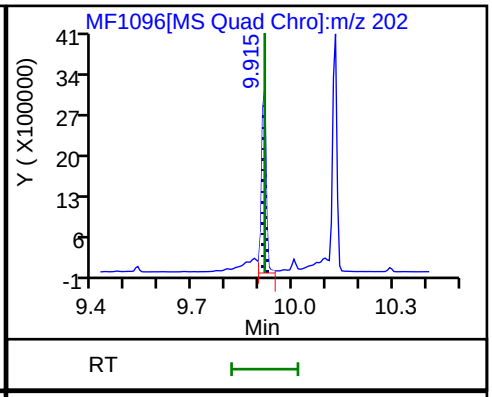
Eurofins Lancaster Laboratories Environment Testing, LLC

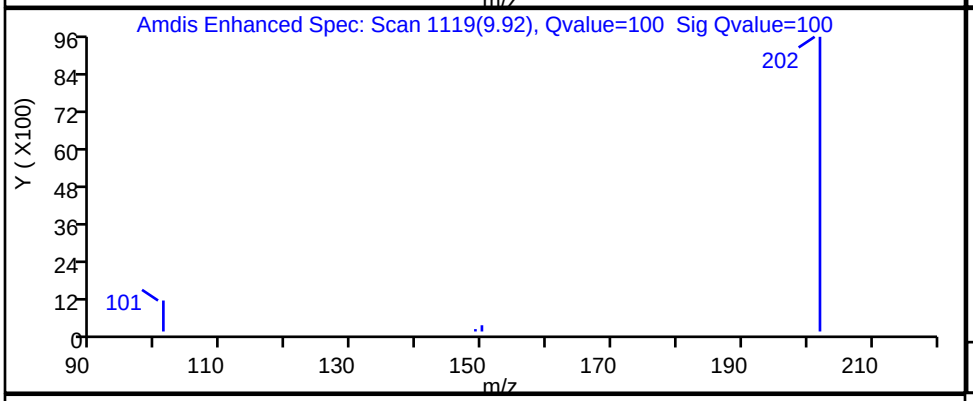
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D

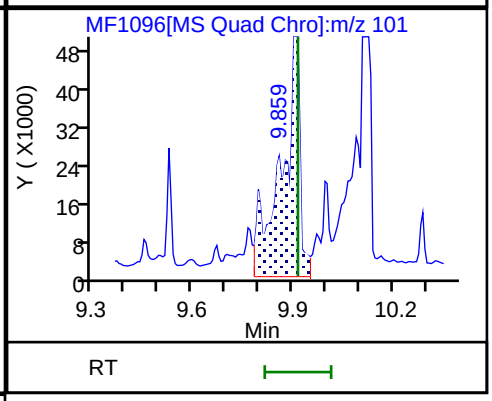
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

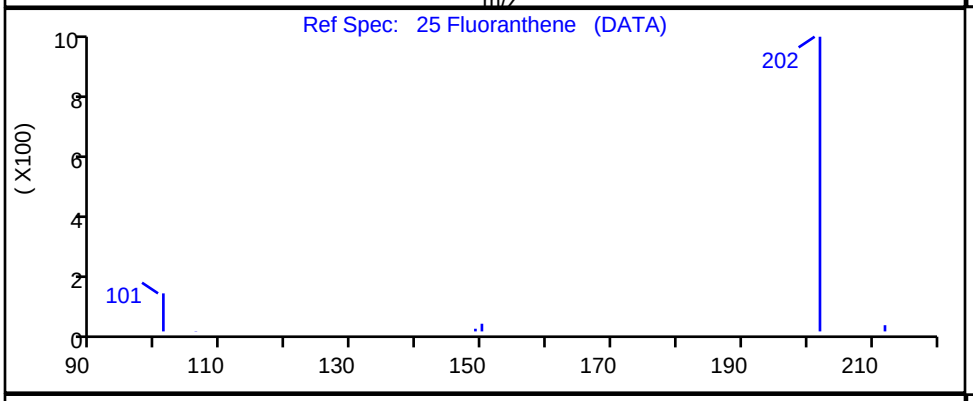
25 Fluoranthene, CAS: 206-44-0

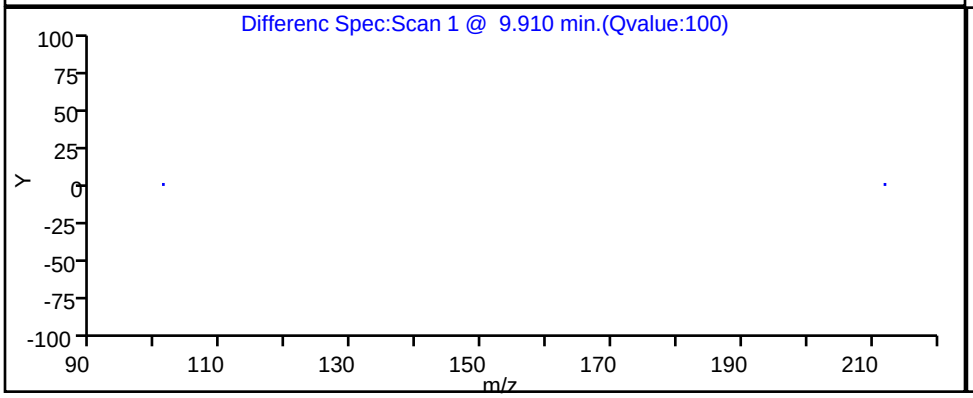


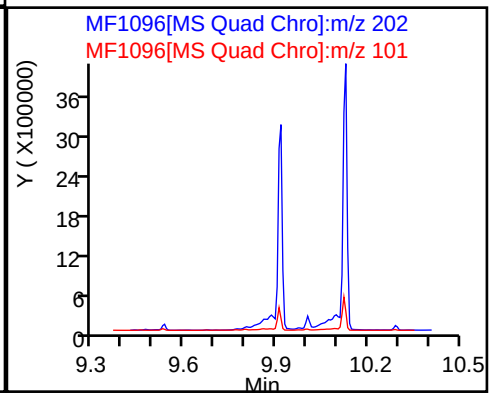












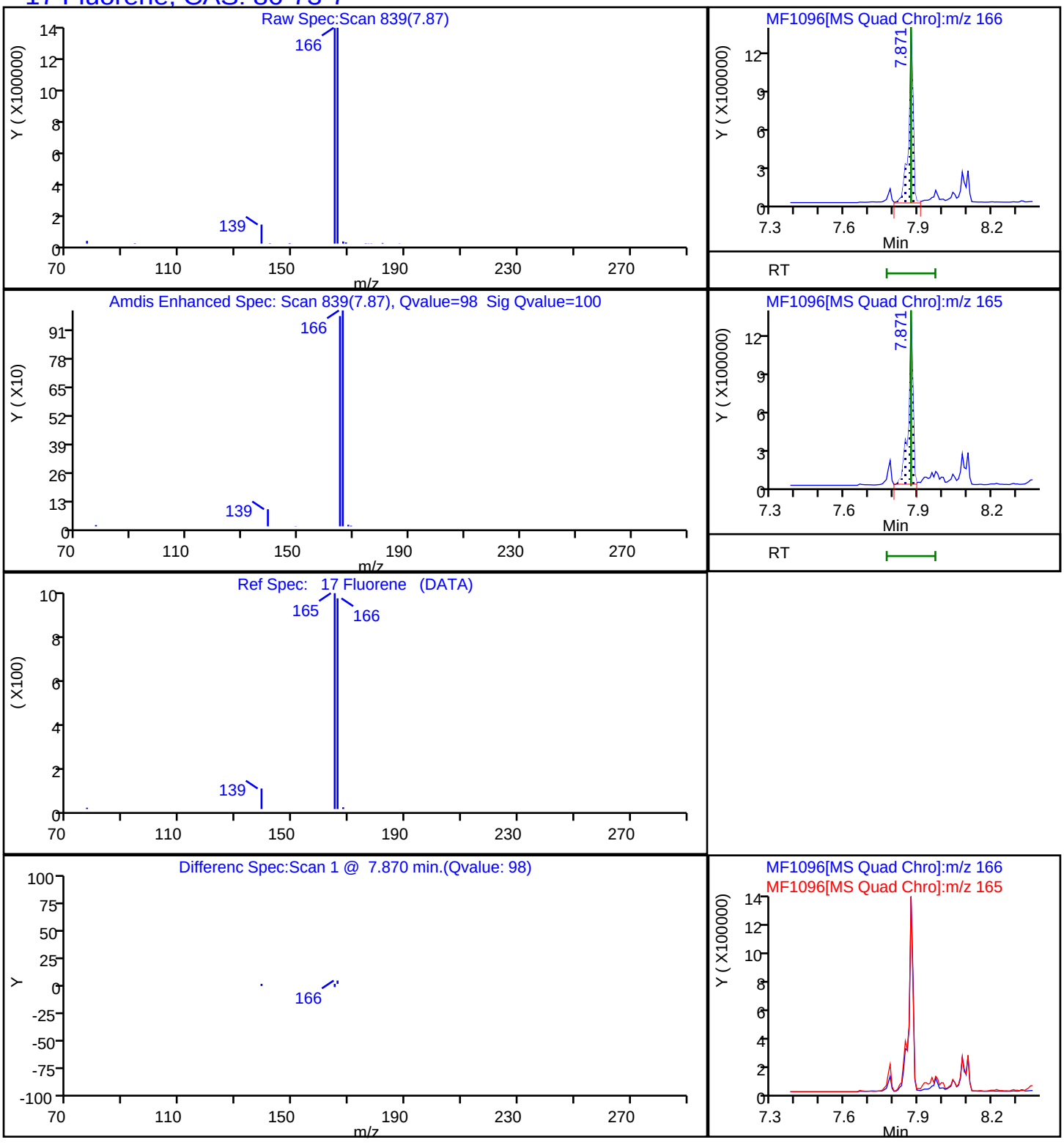
Report Date: 16-Jun-2023 03:31:22 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D

Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

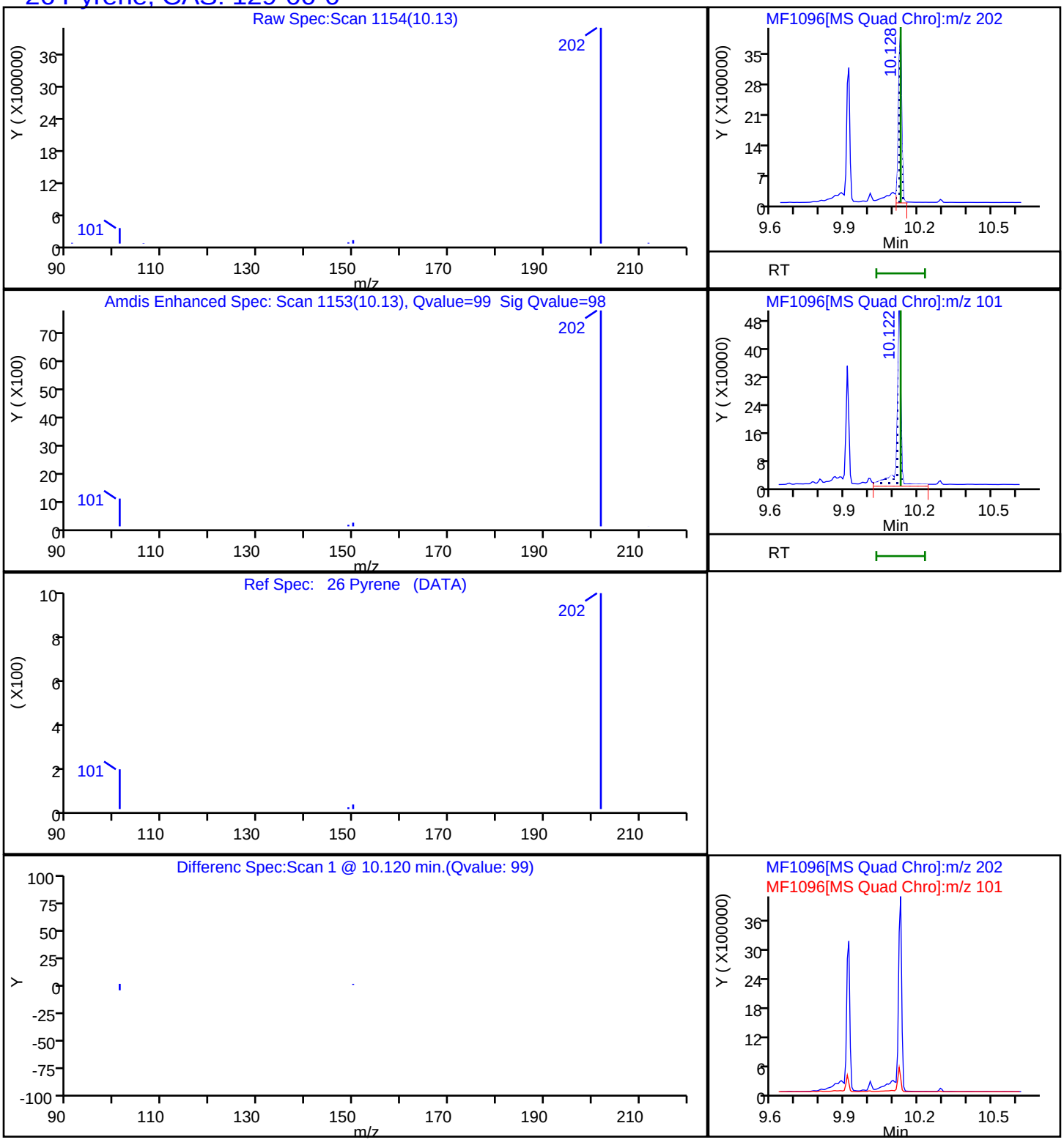


Report Date: 16-Jun-2023 03:31:22 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

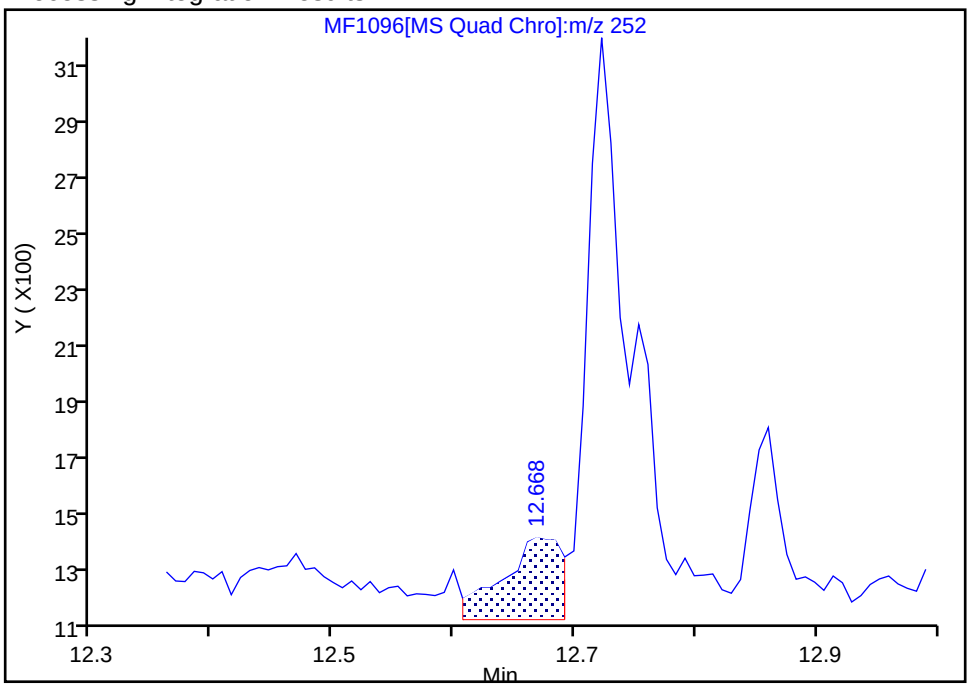
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

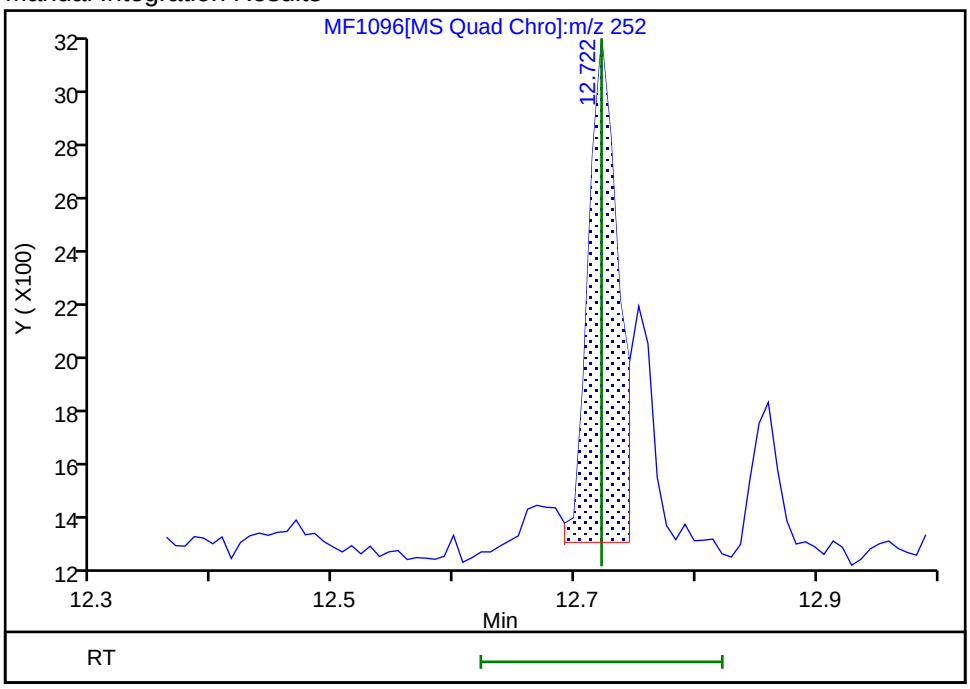
Processing Integration Results

RT: 12.67
Area: 928
Amount: 0.000652
Amount Units: ug/ml



Manual Integration Results

RT: 12.72
Area: 3086
Amount: 0.002167
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:29:15 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

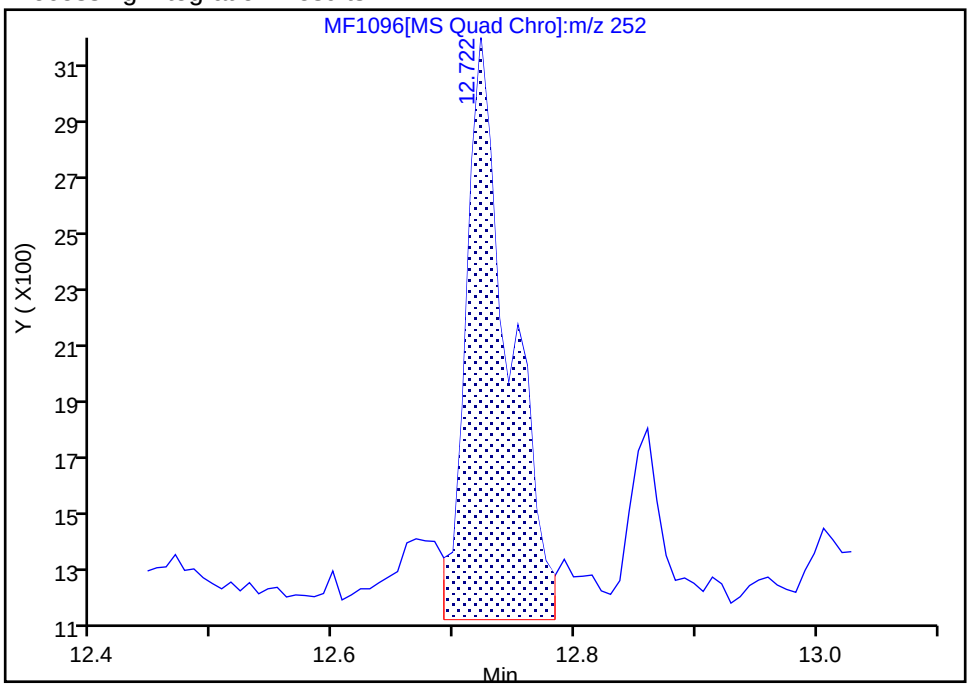
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

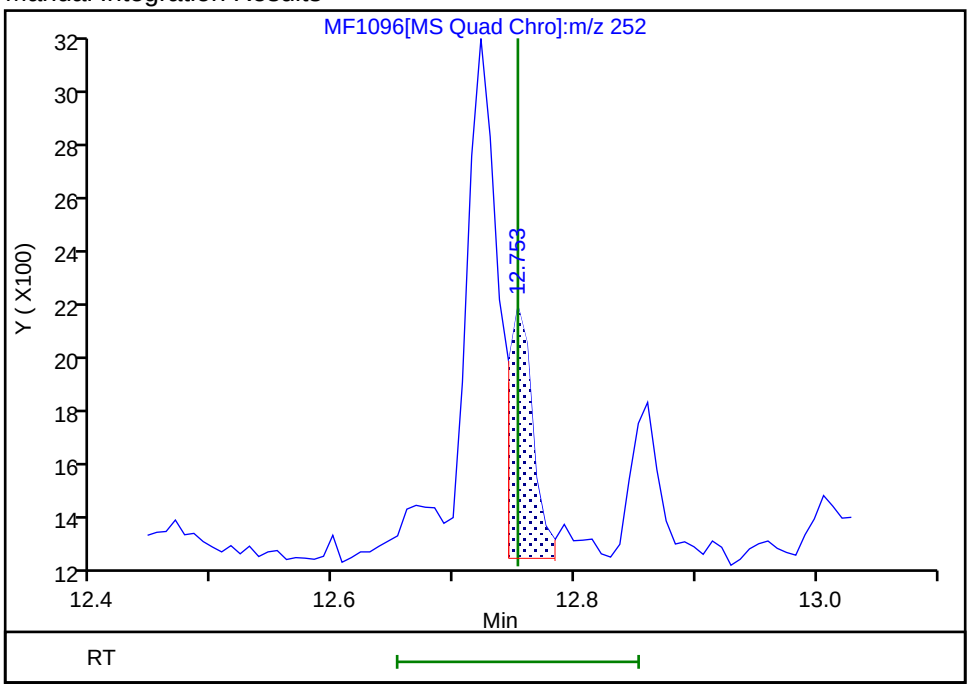
Processing Integration Results

RT: 12.72
Area: 4897
Amount: 0.003225
Amount Units: ug/ml



Manual Integration Results

RT: 12.75
Area: 1152
Amount: 0.000759
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:29:21 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

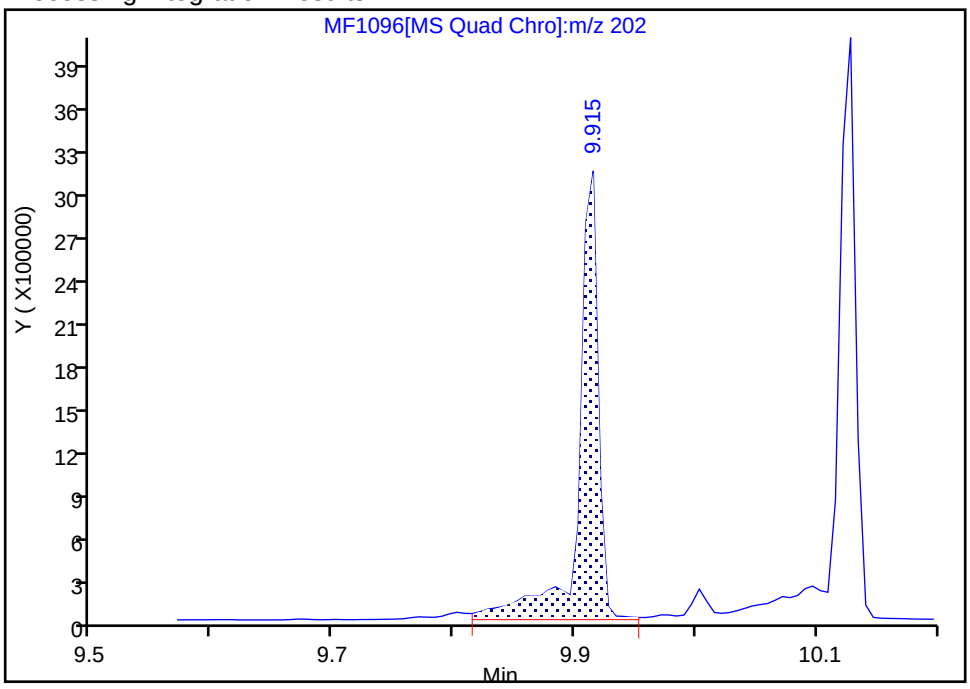
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

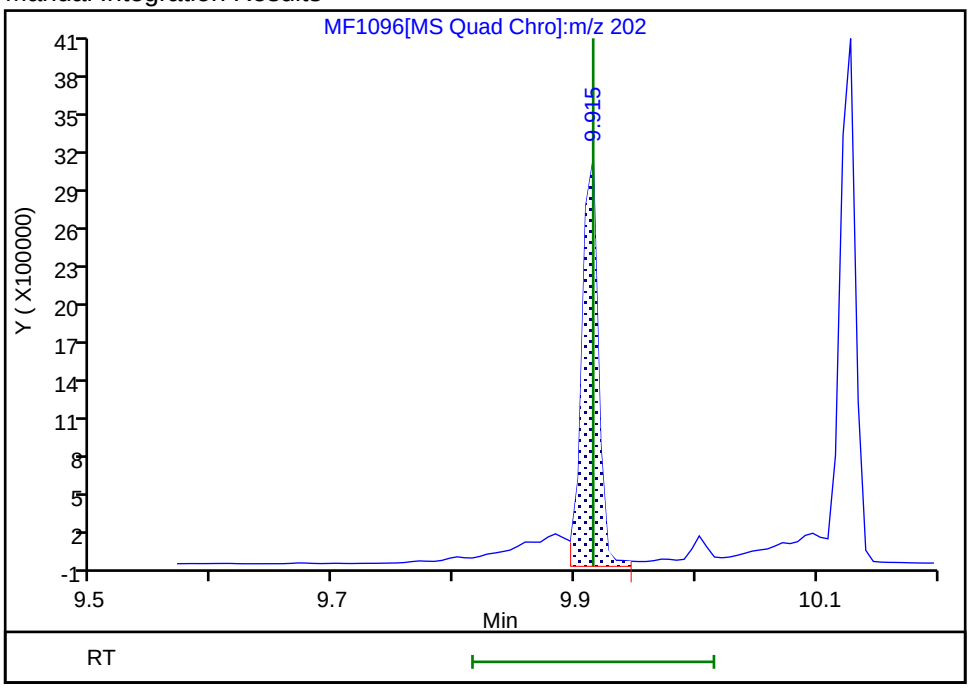
Processing Integration Results

RT: 9.92
Area: 3554323
Amount: 2.487282
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 2891840
Amount: 2.023683
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:29:00 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

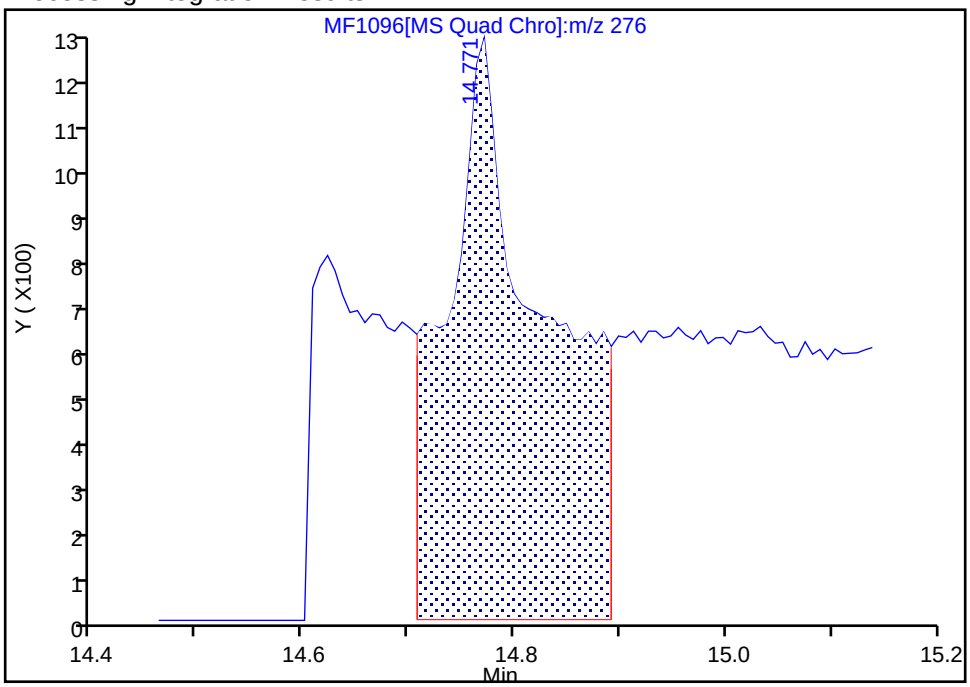
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

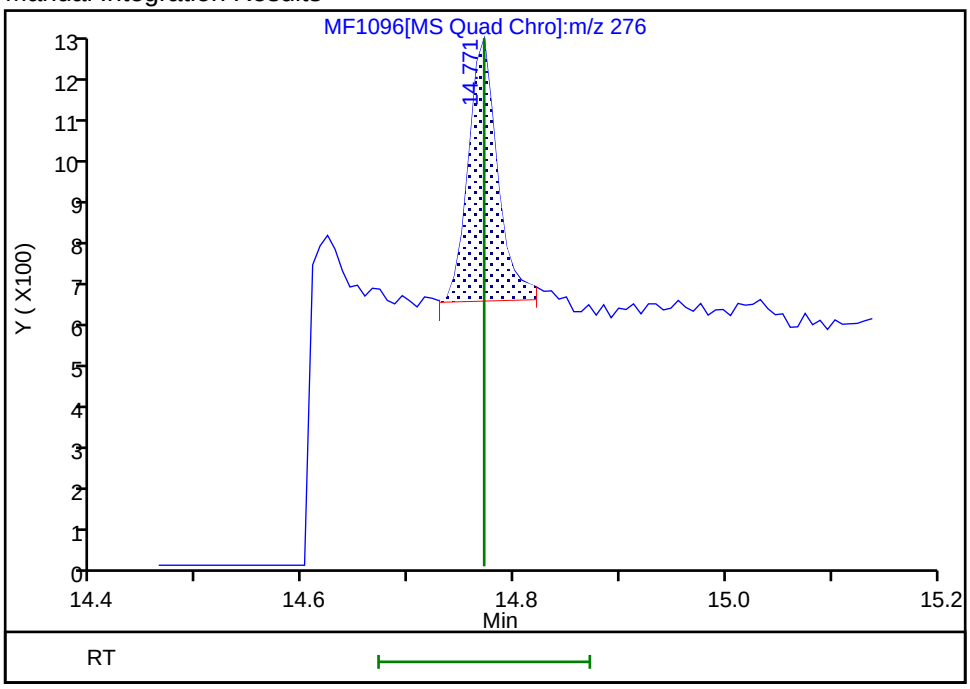
Processing Integration Results

RT: 14.77
Area: 7855
Amount: 0.006631
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 1161
Amount: 0.000980
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:29:28 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

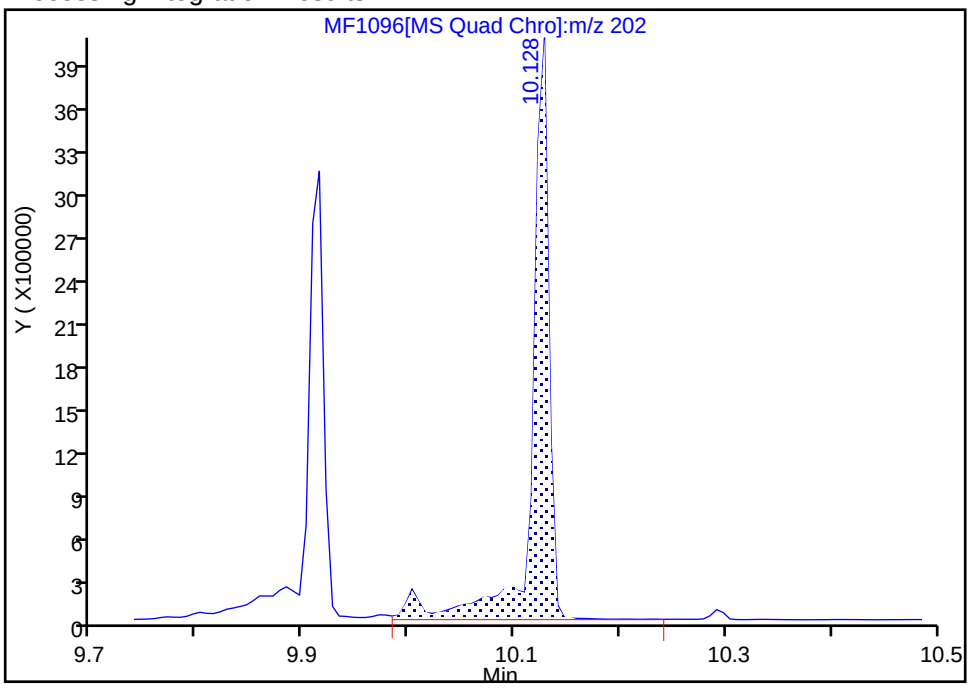
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

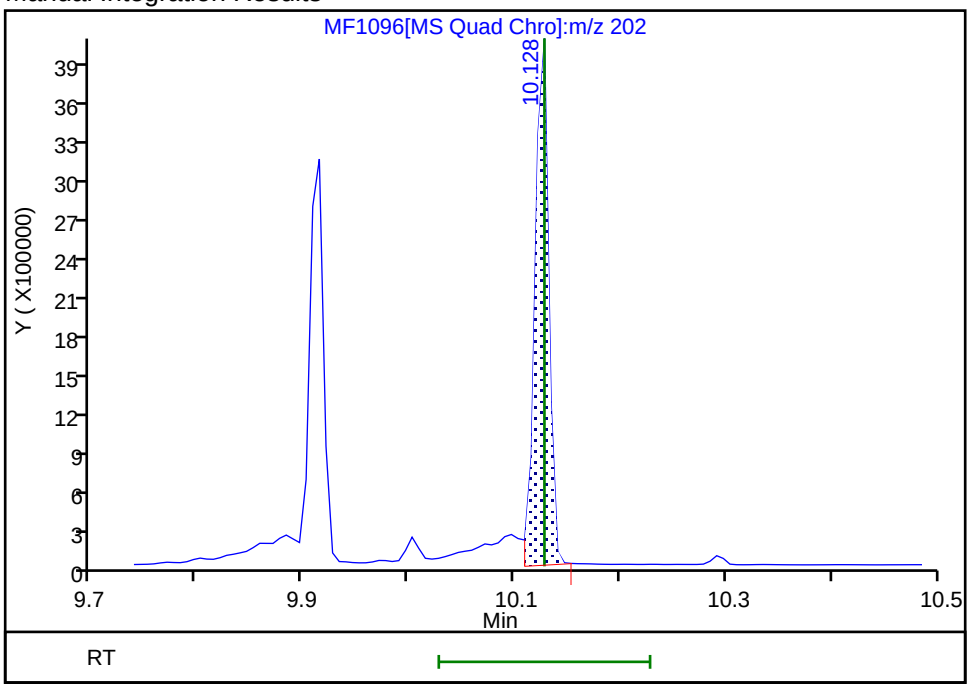
Processing Integration Results

RT: 10.13
Area: 4593721
Amount: 2.896279
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 3582841
Amount: 2.258933
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:29:06 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

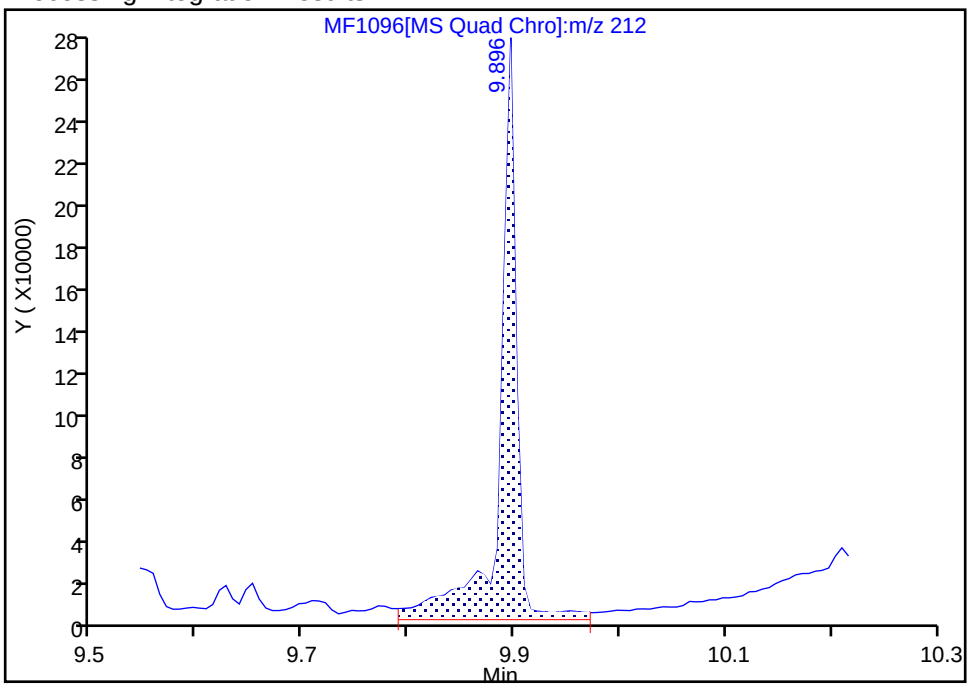
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

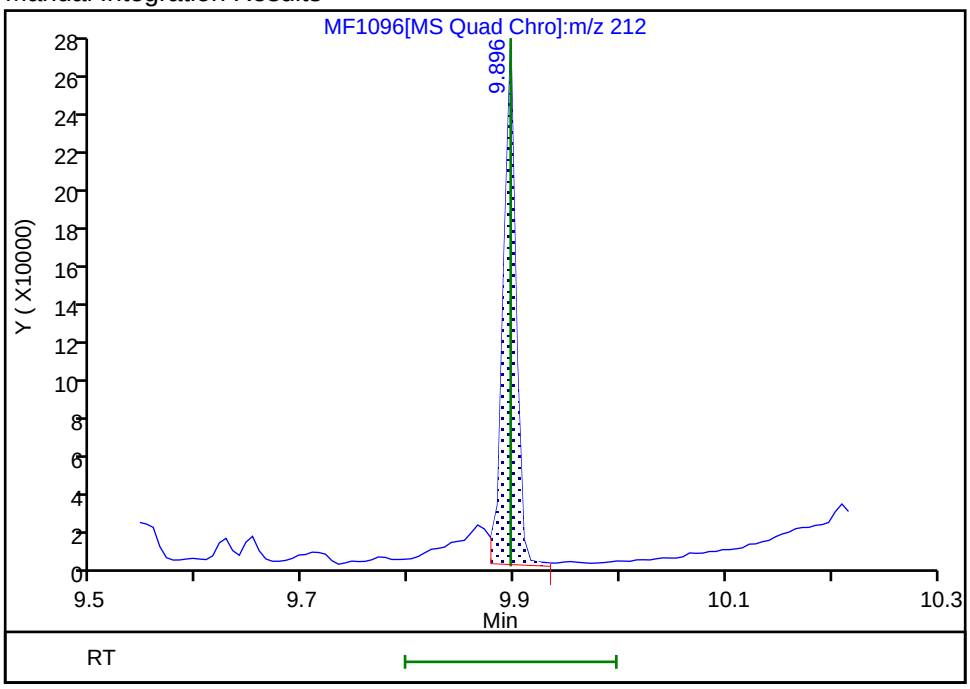
Processing Integration Results

RT: 9.90
Area: 310331
Amount: 0.264926
Amount Units: ug/ml



Manual Integration Results

RT: 9.90
Area: 223994
Amount: 0.191221
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:28:56 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

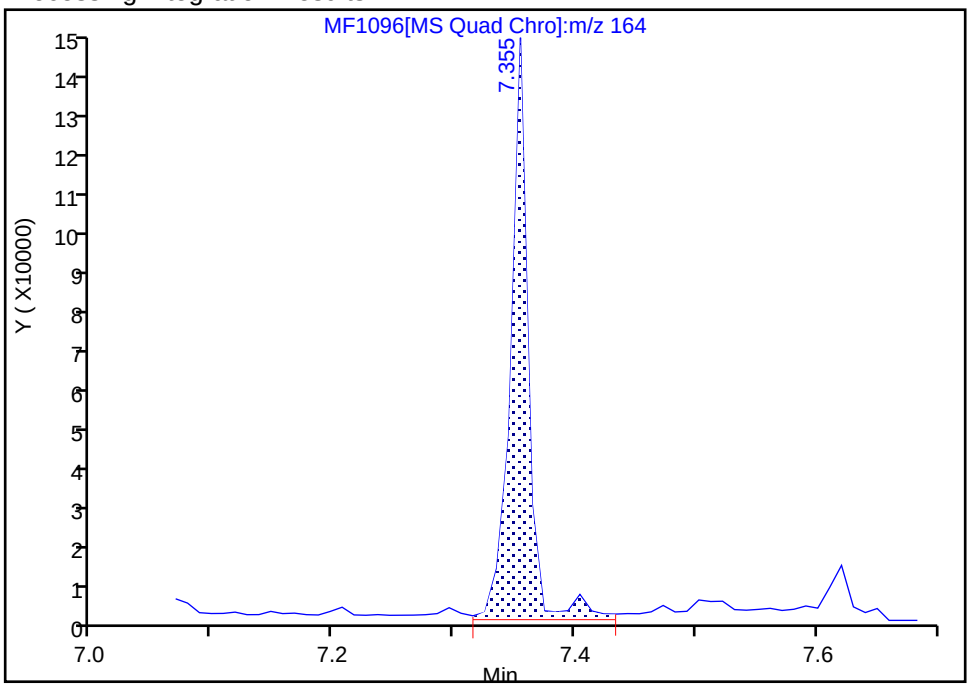
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1096.D				
Injection Date:	15-Jun-2023 15:17:42	Instrument ID:	HP21585		
Lims ID:	410-130132-D-5-A	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

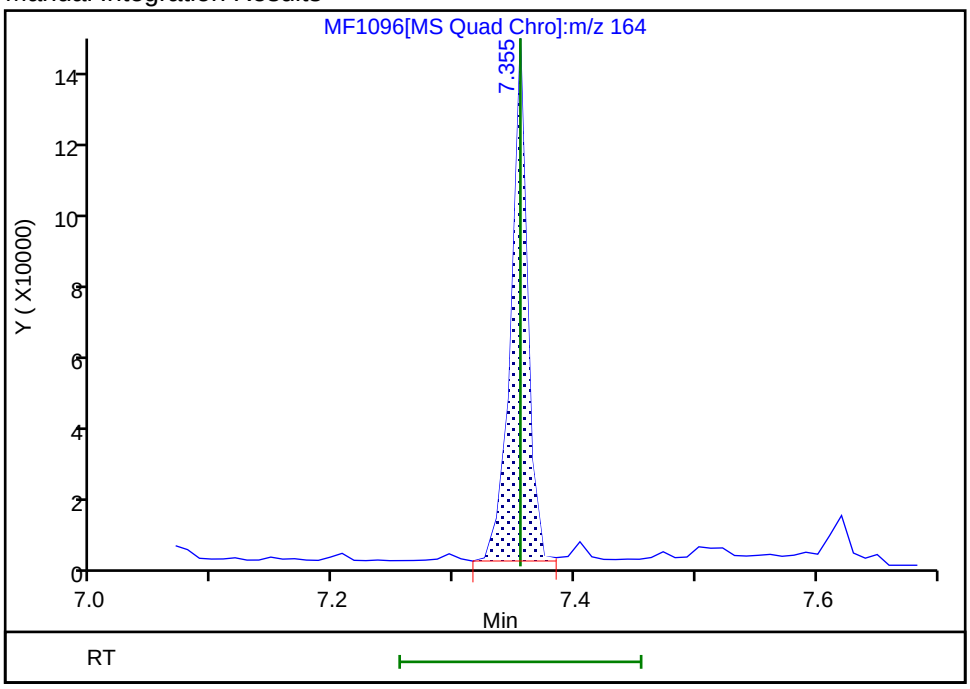
Processing Integration Results

RT: 7.35
Area: 144946
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 7.35
Area: 134023
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:28:43 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-3-20230607 DL
Lab Sample ID: 410-130132-5 DL

Matrix: Water
Lab File ID: MF1168.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 15:39

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 244.9(mL)
Date Analyzed: 06/16/2023 11:28

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 5

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	30		0.26	0.051
85-01-8	Phenanthrene	16		0.36	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		33-120
93951-69-0	Fluoranthene-d10 (Surr)	88		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1168.D
Lims ID: 410-130132-D-5-A DL
Client ID: MW-3-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 11:28:34 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 410-130132-D-5-A
Misc. Info.: 410-0086777-019
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 10:45:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.013	89	69388	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	244465	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	93	3015739	2.66	E
$ 9 1-Methylnaphthalene-d10	152	6.429	6.419	0.000	99	22245	0.0374	
12 Acenaphthylene	152	7.217	7.217	0.000	99	189886	0.1711	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	148486	0.2500	
14 Acenaphthene	154	7.384	7.385	0.000	86	1071505	1.49	
17 Fluorene	166	7.871	7.871	0.000	98	304595	0.3316	M
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	96	282169	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	1070585	0.7632	
22 Anthracene	178	8.831	8.831	0.000	100	117376	0.0964	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	57033	0.0442	
25 Fluoranthene	202	9.909	9.915	-0.006	100	724343	0.4604	M
26 Pyrene	202	10.122	10.128	-0.006	100	898492	0.4906	
28 Benzo[a]anthracene	228	11.364	11.372	-0.001	100	26634	0.0178	M
* 29 Chrysene-d12	240	11.372	11.372	0.000	57	285174	0.2500	
30 Chrysene	228	11.403	11.388	0.000	100	15141	0.008337	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	47402	0.0410	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	314216	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	96	350	0.000253	7M

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

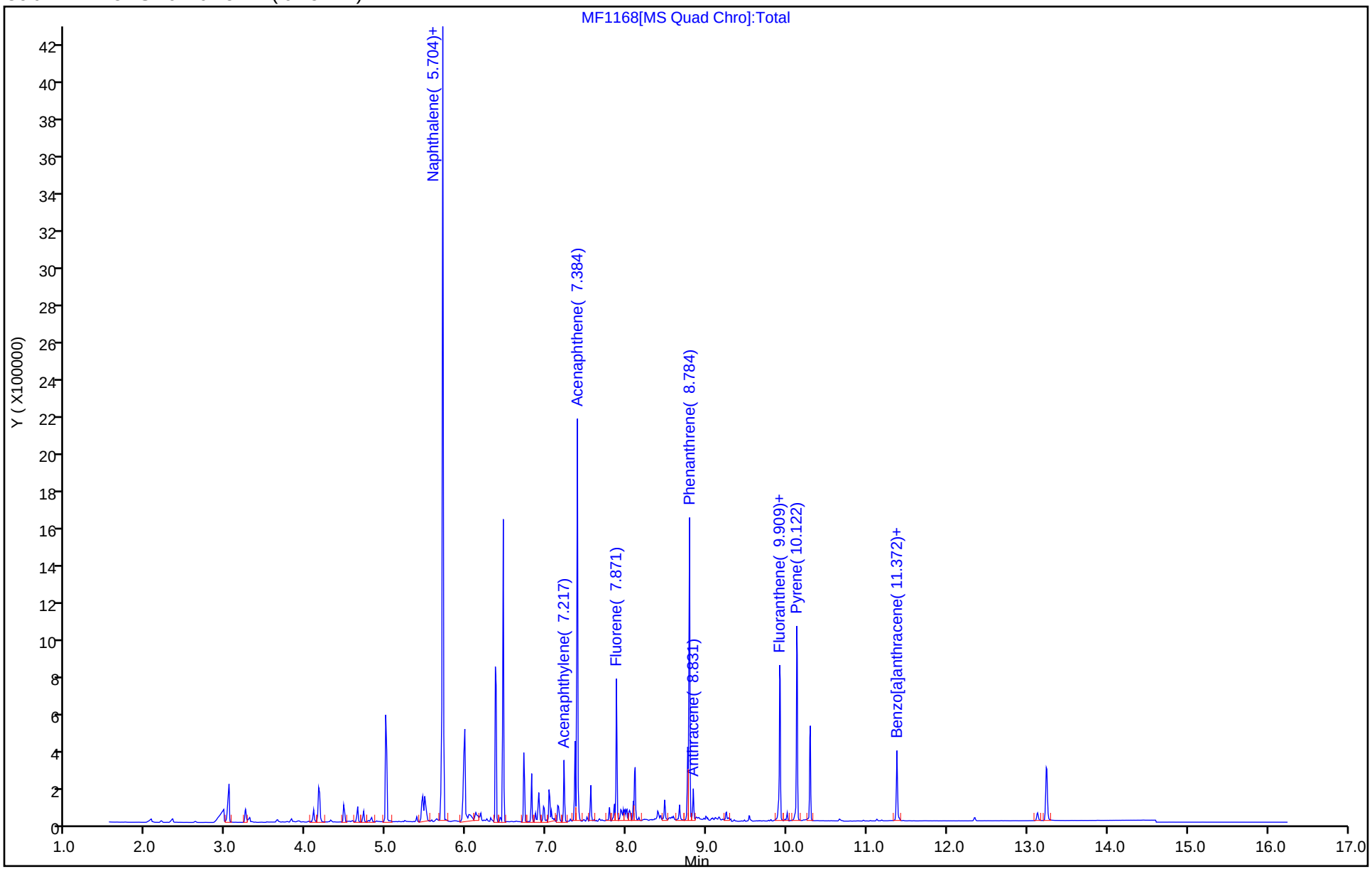
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 12:32:42 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1168.D				
Injection Date:	16-Jun-2023 11:28:34	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-5-A DL	Lab Sample ID:	410-130132-5	Worklist Smp#:	19
Client ID:	MW-3-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1168.D
Lims ID: 410-130132-D-5-A DL
Client ID: MW-3-20230607
Sample Type: Client
Inject. Date: 16-Jun-2023 11:28:34 ALS Bottle#: 0 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 410-130132-D-5-A
Misc. Info.: 410-0086777-019
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

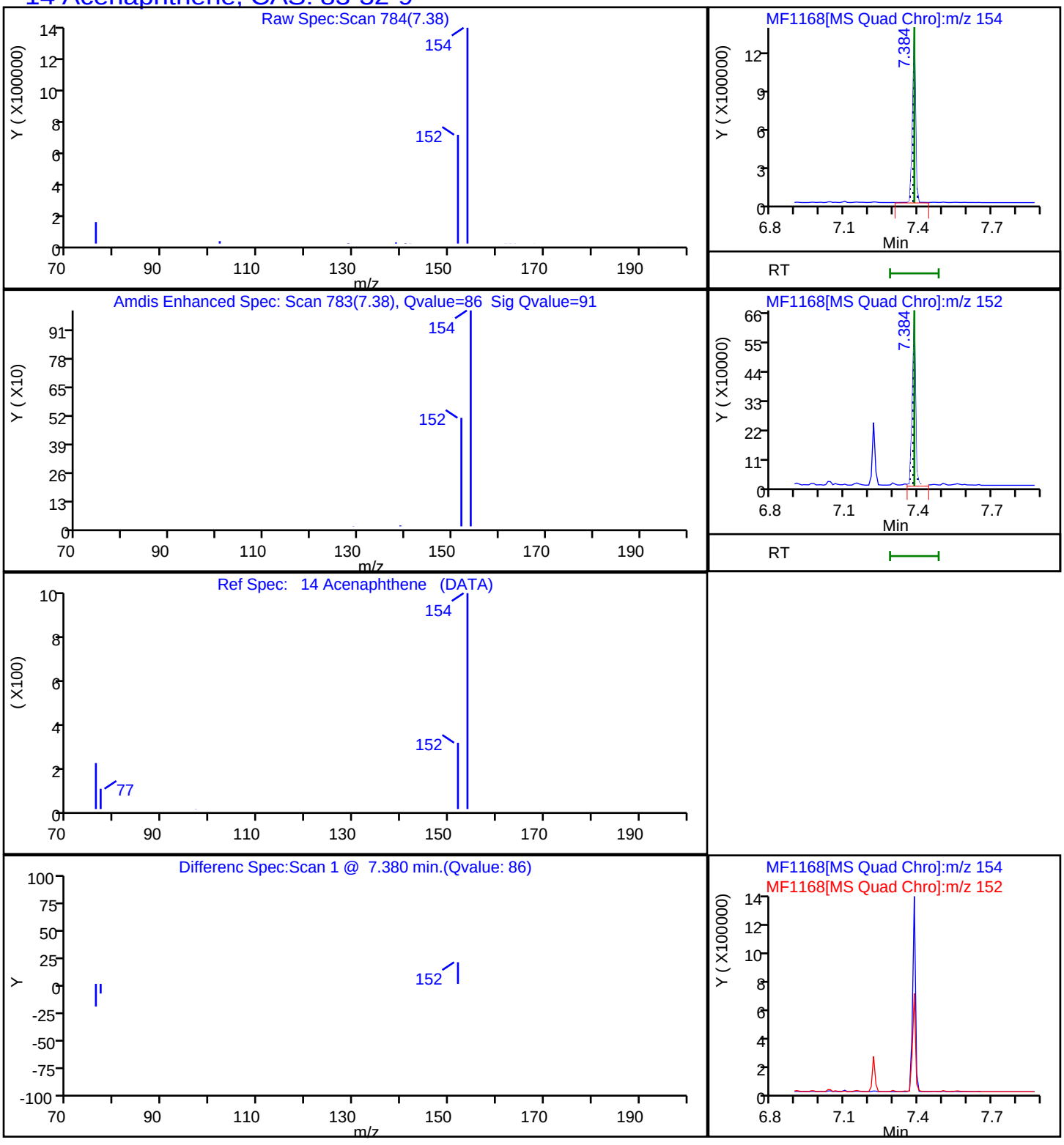
First Level Reviewer: SJ89 Date: 19-Jun-2023 10:45:23

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.0374	74.74
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.0442	88.44
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.0410	82.05

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1168.D		
Injection Date:	16-Jun-2023 11:28:34	Instrument ID:	HP21585
Lims ID:	410-130132-D-5-A DL	Lab Sample ID:	410-130132-5
Client ID:	MW-3-20230607		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	5.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

14 Acenaphthene, CAS: 83-32-9



Report Date: 19-Jun-2023 12:32:42 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1168.D

Injection Date: 16-Jun-2023 11:28:34 Instrument ID: HP21585

Lims ID: 410-130132-D-5-A DL Lab Sample ID: 410-130132-5

Client ID: MW-3-20230607

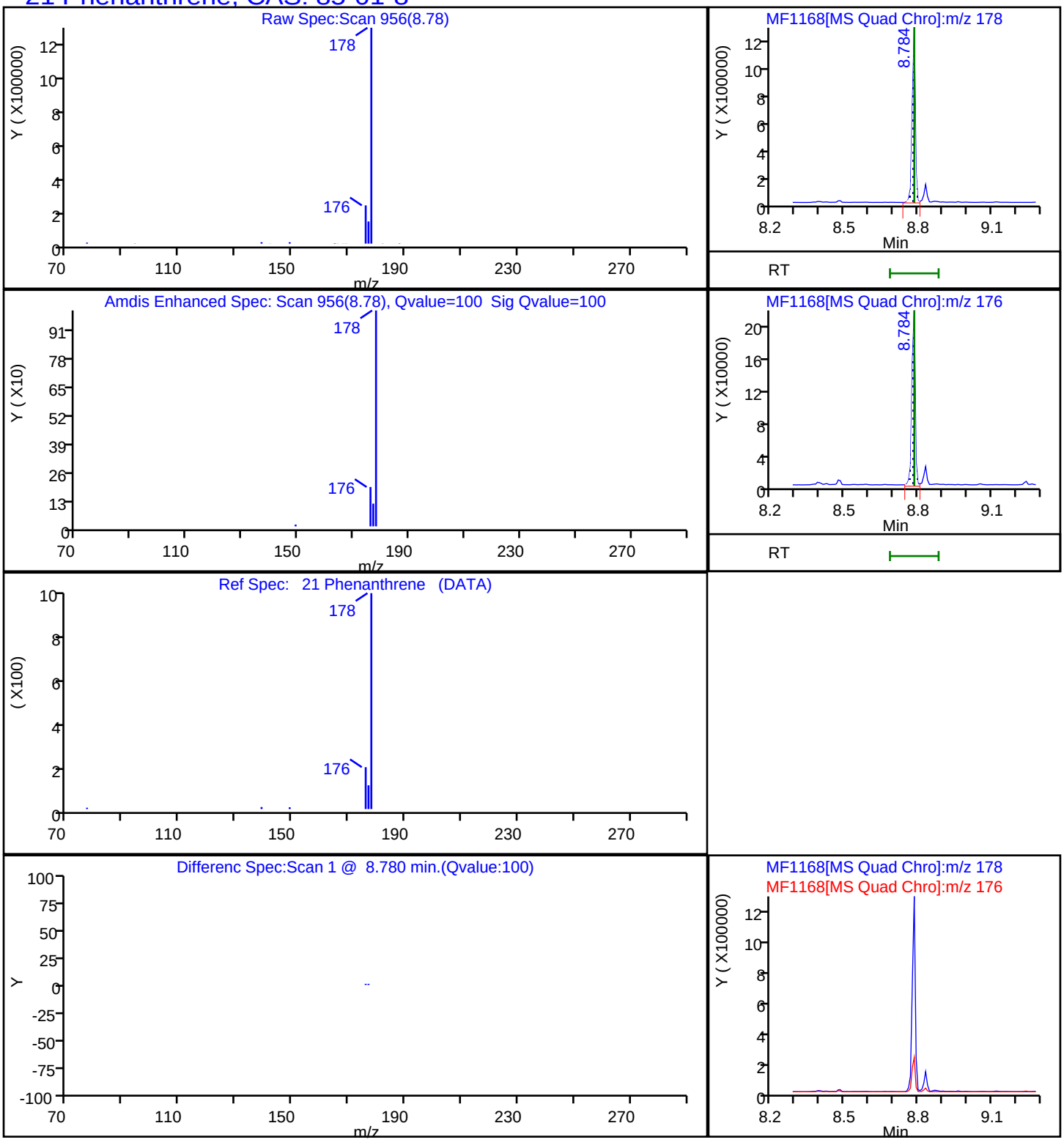
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 5.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

21 Phenanthrene, CAS: 85-01-8



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-3-20230607 DL2
Lab Sample ID: 410-130132-5 DL2

Matrix: Water
Lab File ID: NF1061.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 15:39

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 244.9(mL)
Date Analyzed: 06/19/2023 16:30

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 25

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 388200
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	65		1.8	0.77

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	91		33-120
93951-69-0	Fluoranthene-d10 (Surr)	108		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1061.D
Lims ID: 410-130132-D-5-A DL2
Client ID: MW-3-20230607
Sample Type: Client
Inject. Date: 19-Jun-2023 16:30:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 25.0000
Sample Info: 410-130132-D-5-A
Misc. Info.: 410-0086950-011
Operator ID: kel10217 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Jun-2023 04:44:23 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: UJM0 Date: 20-Jun-2023 04:37:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.544	4.544	0.000	97	27981	0.2500	
* 5 Naphthalene-d8	136	5.744	5.744	0.000	100	86869	0.2500	
6 Naphthalene	128	5.769	5.781	0.000	99	202724	0.6377	
$ 9 1-Methylnaphthalene-d10	152	6.487	6.487	0.009	97	1370	0.009062	
12 Acenaphthylene	152	7.278	7.280	0.000	99	11259	0.0377	
* 13 Acenaphthene-d10	164	7.408	7.408	0.000	88	39737	0.2500	
14 Acenaphthene	154	7.438	7.440	0.000	95	59243	0.3361	
17 Fluorene	166	7.933	7.928	0.007	99	15594	0.0784	
* 20 Phenanthrene-d10	188	8.821	8.822	-0.001	100	62343	0.2500	
21 Phenanthrene	178	8.845	8.830	0.008	100	48402	0.1852	
22 Anthracene	178	8.891	8.884	0.000	99	5305	0.0210	
$ 24 Fluoranthene-d10 (Surr)	212	9.954	9.954	0.006	96	2170	0.0108	
25 Fluoranthene	202	9.967	9.967	0.000	99	29209	0.1162	
26 Pyrene	202	10.186	10.185	0.006	95	33544	0.1063	
28 Benzo[a]anthracene	228	11.450	11.458	0.000	29	1045	0.004471	M
* 29 Chrysene-d12	240	11.465	11.458	0.007	82	46084	0.2500	M
30 Chrysene	228	11.496	11.495	0.008	99	451	0.001916	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.298	13.289	0.015	98	1359	0.008453	
* 38 Perylene-d12	264	13.405	13.398	0.007	95	47920	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

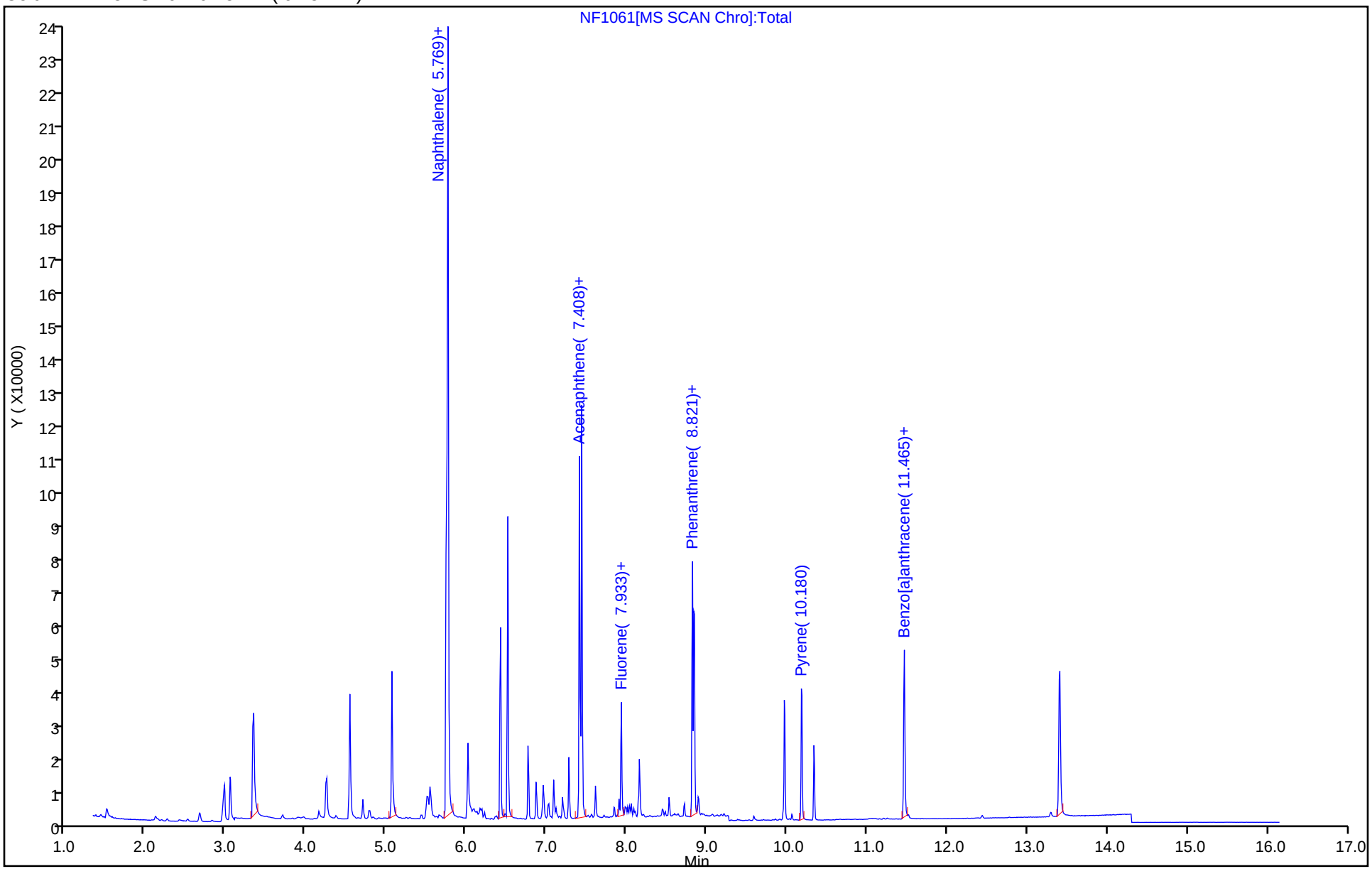
MSS_RVSIM_IS_00036 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Jun-2023 04:44:24 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1061.D				
Injection Date:	19-Jun-2023 16:30:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	410-130132-D-5-A DL2	Lab Sample ID:	410-130132-5	Worklist Smp#:	11
Client ID:	MW-3-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	25.0000	ALS Bottle#:	11
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1061.D				
Lims ID:	410-130132-D-5-A DL2				
Client ID:	MW-3-20230607				
Sample Type:	Client				
Inject. Date:	19-Jun-2023 16:30:30	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	25.0000		
Sample Info:	410-130132-D-5-A				
Misc. Info.:	410-0086950-011				
Operator ID:	kel10217	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	20-Jun-2023 04:44:23	Calib Date:	22-Feb-2023 01:02:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1674				

First Level Reviewer: UJM0 Date: 20-Jun-2023 04:37:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.009062	90.62
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.0108	107.70
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.008453	84.53

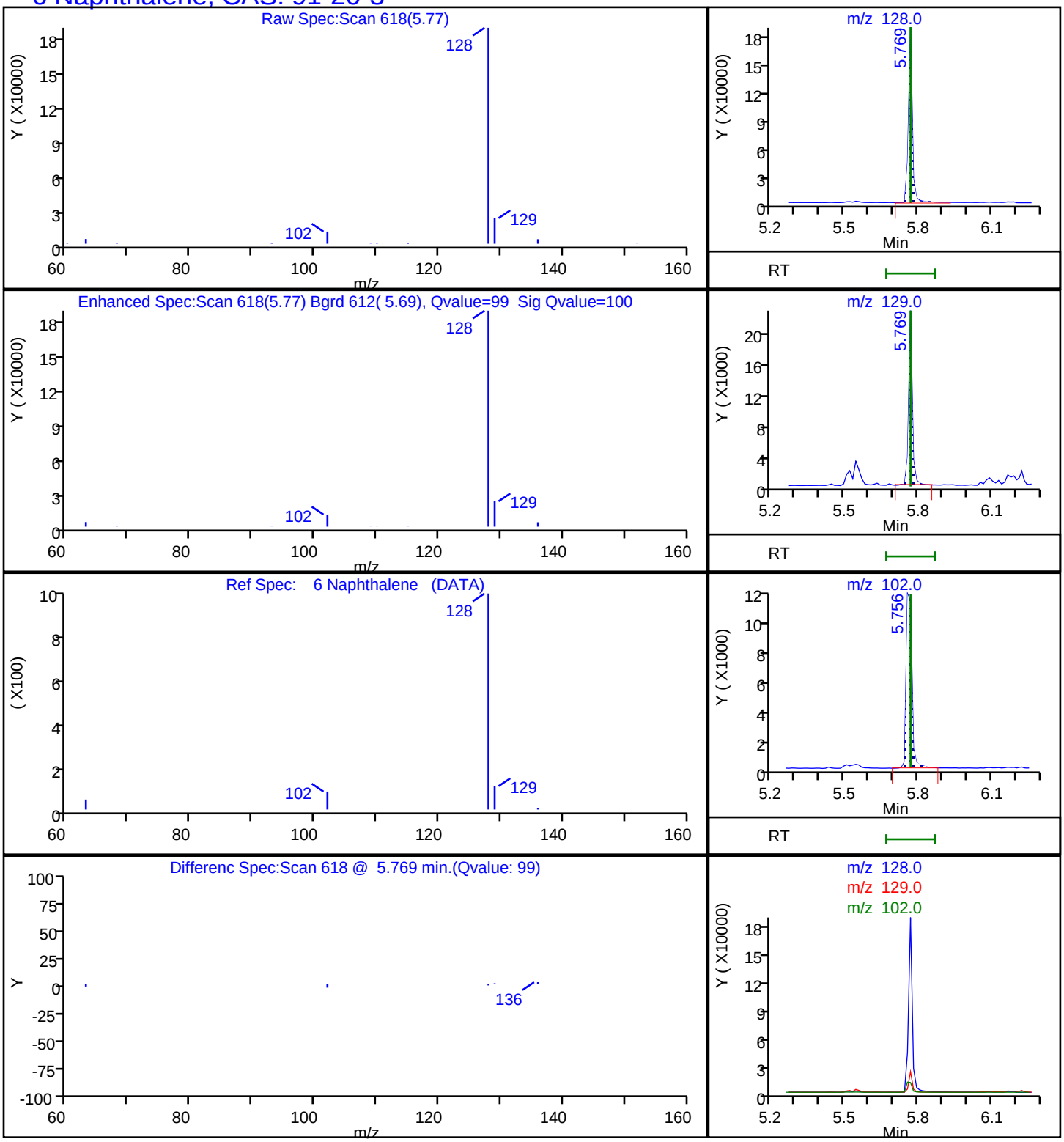
Report Date: 20-Jun-2023 04:44:24 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1061.D

Injection Date:	19-Jun-2023 16:30:30	Instrument ID:	HP23263		
Lims ID:	410-130132-D-5-A DL2	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	kel10217	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	25.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

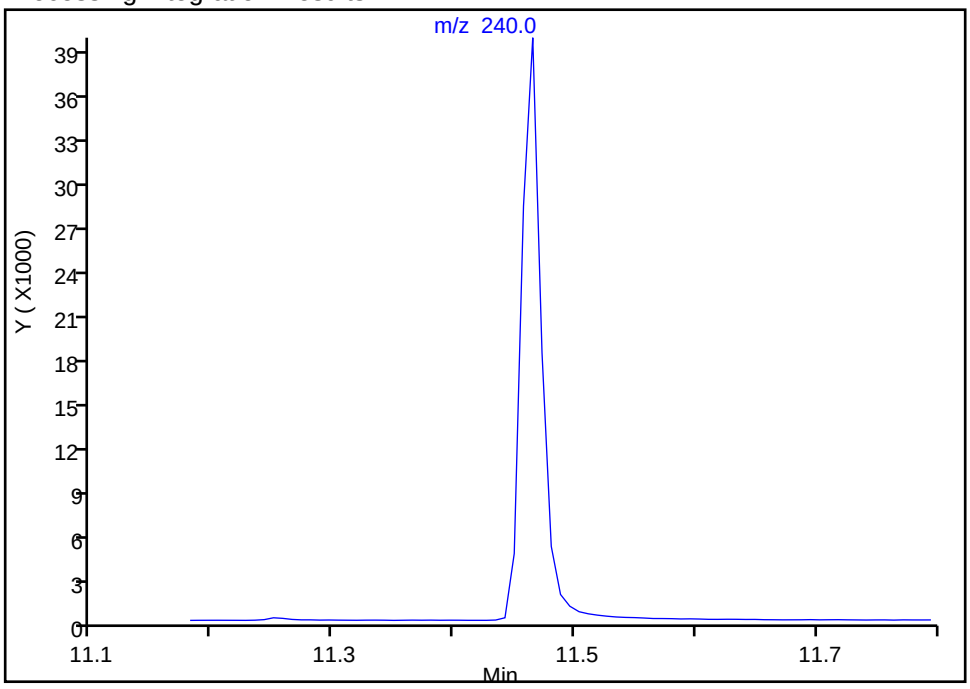
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1061.D				
Injection Date:	19-Jun-2023 16:30:30	Instrument ID:	HP23263		
Lims ID:	410-130132-D-5-A DL2	Lab Sample ID:	410-130132-5		
Client ID:	MW-3-20230607				
Operator ID:	kel10217	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	25.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 29 Chrysene-d12, CAS: 1719-03-5

Signal: 1

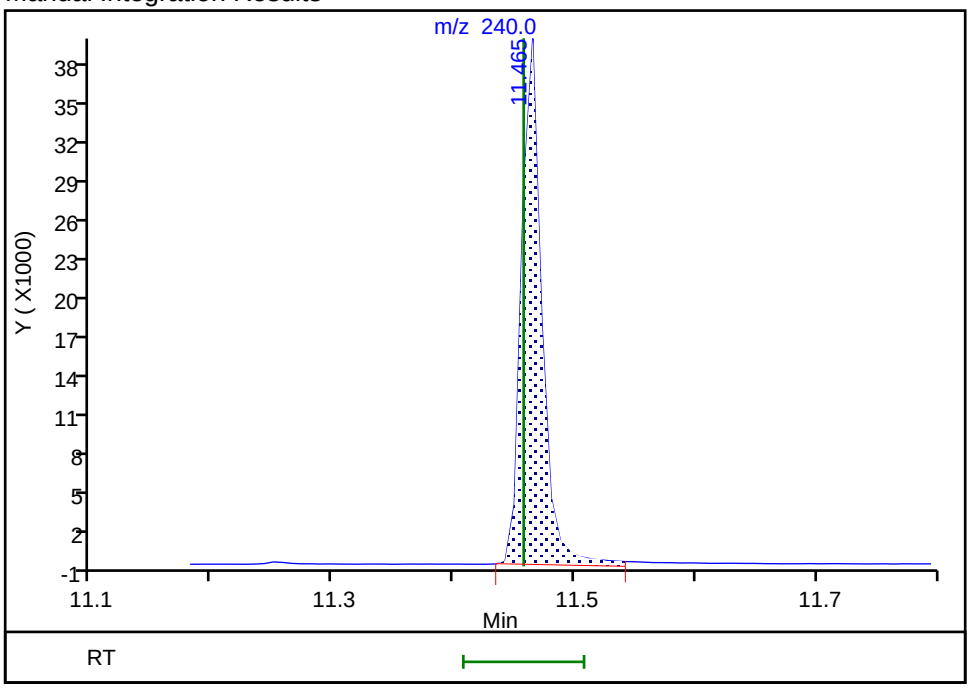
Not Detected
Expected RT: 11.46

Processing Integration Results



Manual Integration Results

RT: 11.47
Area: 46084
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 20-Jun-2023 04:37:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: DUP-20230607
Lab Sample ID: 410-130132-6

Matrix: Water
Lab File ID: MF1097.D

Analysis Method: 8270E SIM
Date Collected: 06/07/2023 00:00

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 247.9(mL)
Date Analyzed: 06/15/2023 15:39

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	0.067	J	0.071	0.030
85-01-8	Phenanthrene	ND		0.071	0.030
129-00-0	Pyrene	ND		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	43		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		33-120
93951-69-0	Fluoranthene-d10 (Surr)	83		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1097.D
Lims ID: 410-130132-D-6-A
Client ID: DUP-20230607
Sample Type: Client
Inject. Date: 15-Jun-2023 15:39:03 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-6-A
Misc. Info.: 410-0086657-028
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:30:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	88	62794	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	215299	0.2500	
6 Naphthalene	128	5.716	5.716	0.012	91	16535	0.0165	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	98	100366	0.1915	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	91	127270	0.2500	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	254969	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	243282	0.2087	
25 Fluoranthene	202	9.915	9.915	0.000	97	1462	0.001028	7M
* 29 Chrysene-d12	240	11.372	11.372	0.000	55	251640	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	-0.001	100	106840	0.1063	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	273430	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.778	14.778	0.007	100	408	0.000339	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

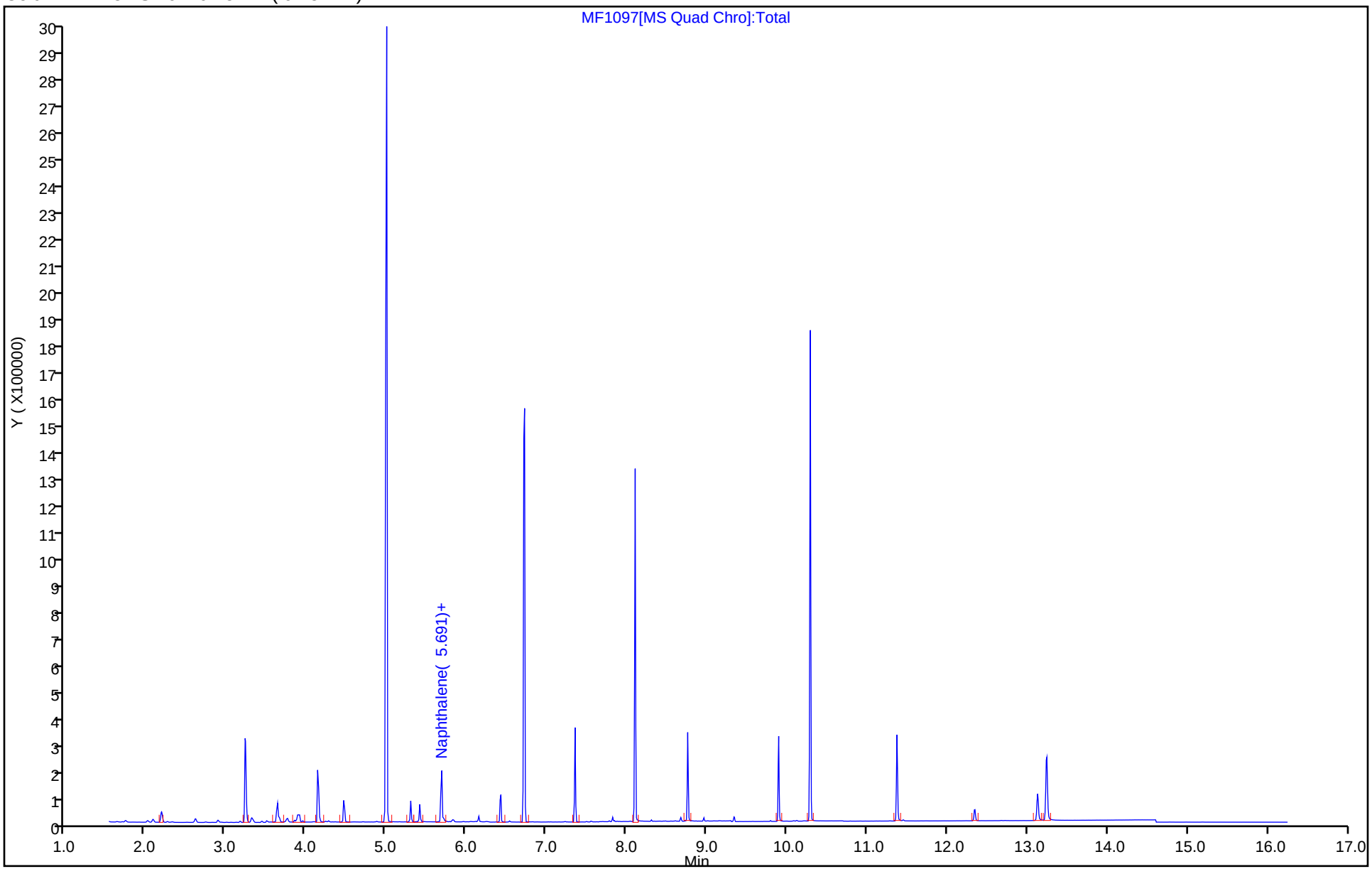
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Jun-2023 03:31:23 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1097.D				
Injection Date:	15-Jun-2023 15:39:03	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-6-A	Lab Sample ID:	410-130132-6	Worklist Smp#:	28
Client ID:	DUP-20230607				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1097.D				
Lims ID:	410-130132-D-6-A				
Client ID:	DUP-20230607				
Sample Type:	Client				
Inject. Date:	15-Jun-2023 15:39:03	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-6-A				
Misc. Info.:	410-0086657-028				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	16-Jun-2023 03:30:30	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1630				

First Level Reviewer: UJM0 Date: 16-Jun-2023 03:30:30

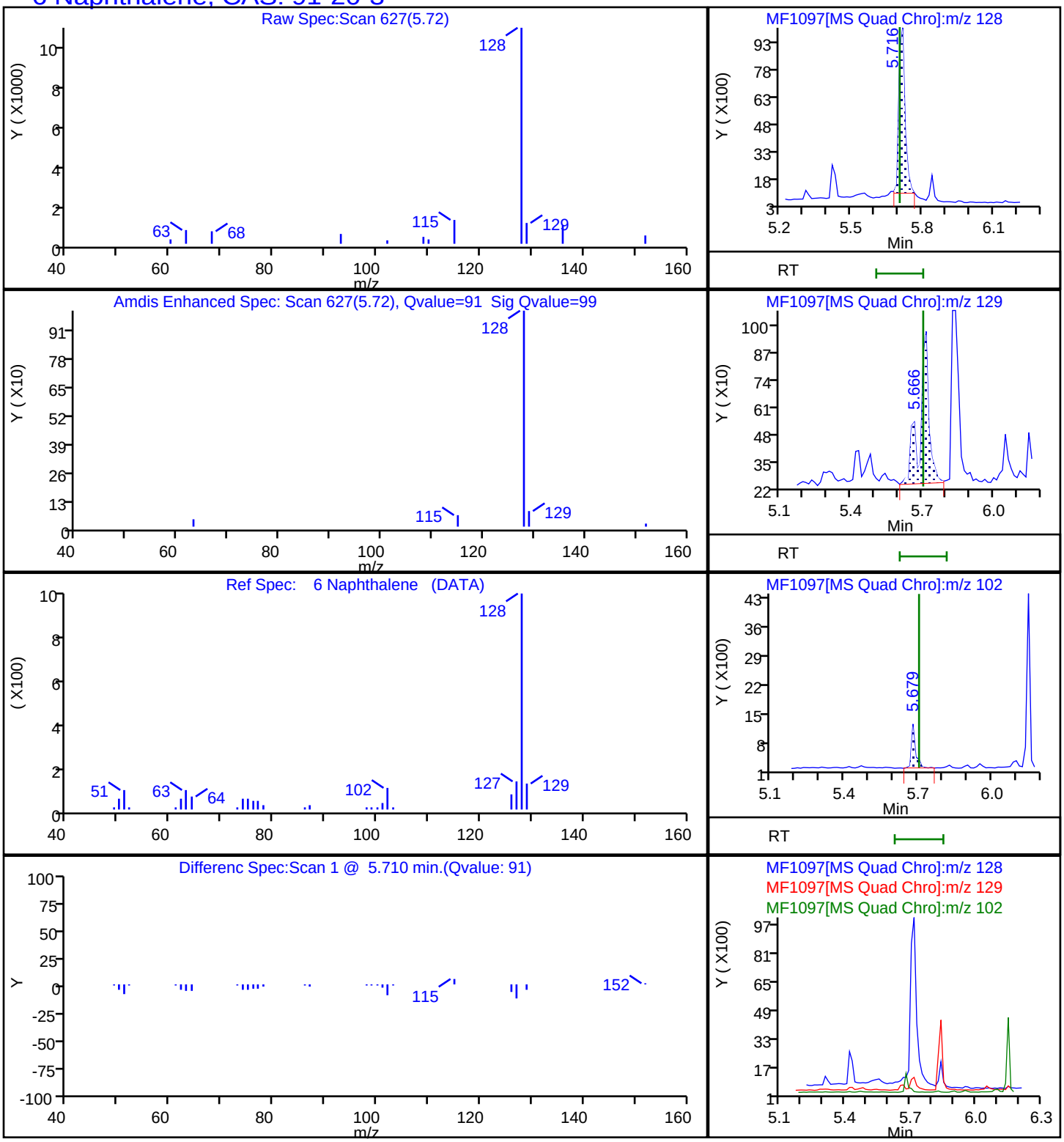
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1915	76.58
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2087	83.50
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1063	42.50

Report Date: 16-Jun-2023 03:31:23 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1097.D				
Injection Date:	15-Jun-2023 15:39:03	Instrument ID:	HP21585		
Lims ID:	410-130132-D-6-A	Lab Sample ID:	410-130132-6		
Client ID:	DUP-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

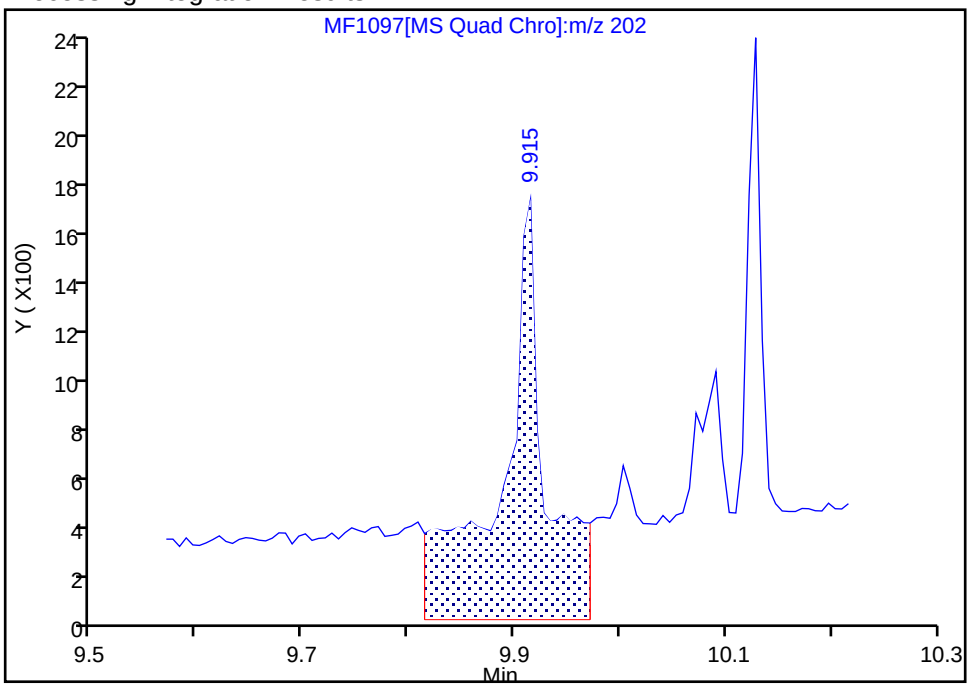
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1097.D				
Injection Date:	15-Jun-2023 15:39:03	Instrument ID:	HP21585		
Lims ID:	410-130132-D-6-A	Lab Sample ID:	410-130132-6		
Client ID:	DUP-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

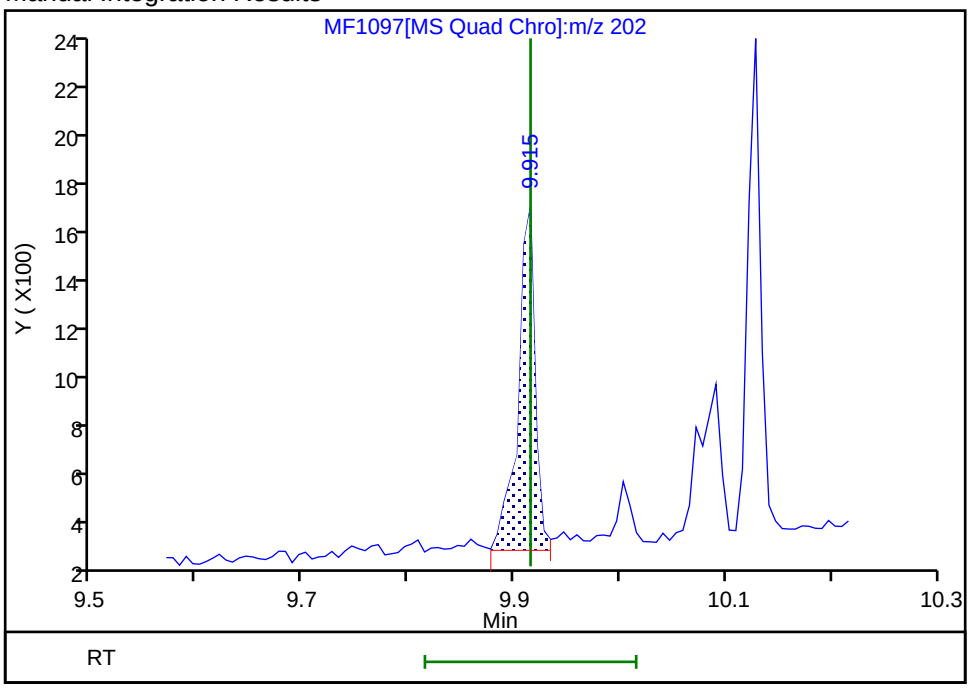
Processing Integration Results

RT: 9.92
Area: 4931
Amount: 0.003468
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 1462
Amount: 0.001028
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:30:16 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

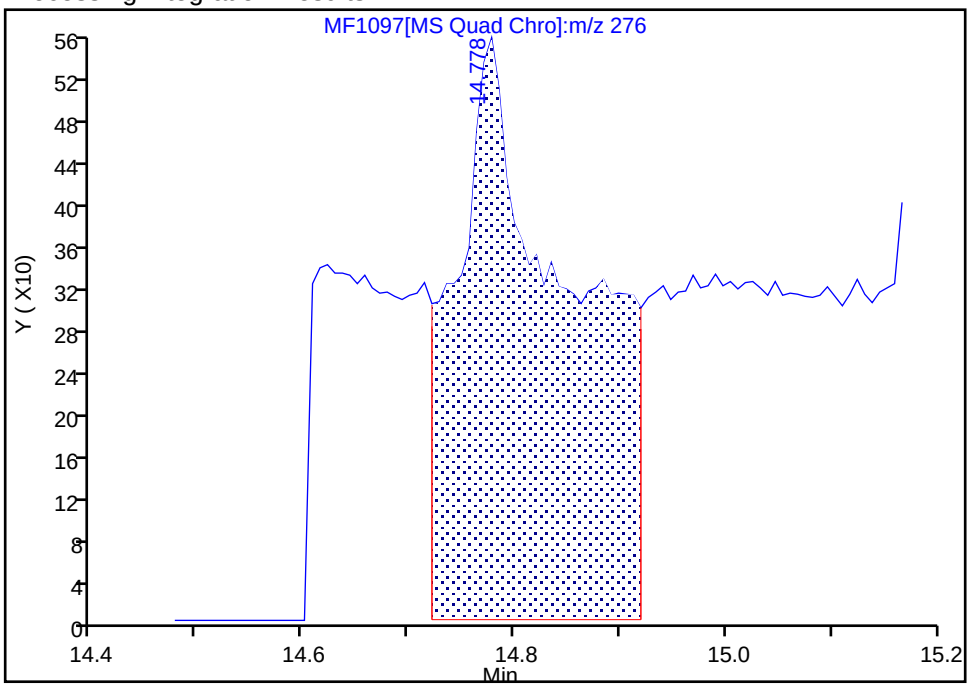
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1097.D				
Injection Date:	15-Jun-2023 15:39:03	Instrument ID:	HP21585		
Lims ID:	410-130132-D-6-A	Lab Sample ID:	410-130132-6		
Client ID:	DUP-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

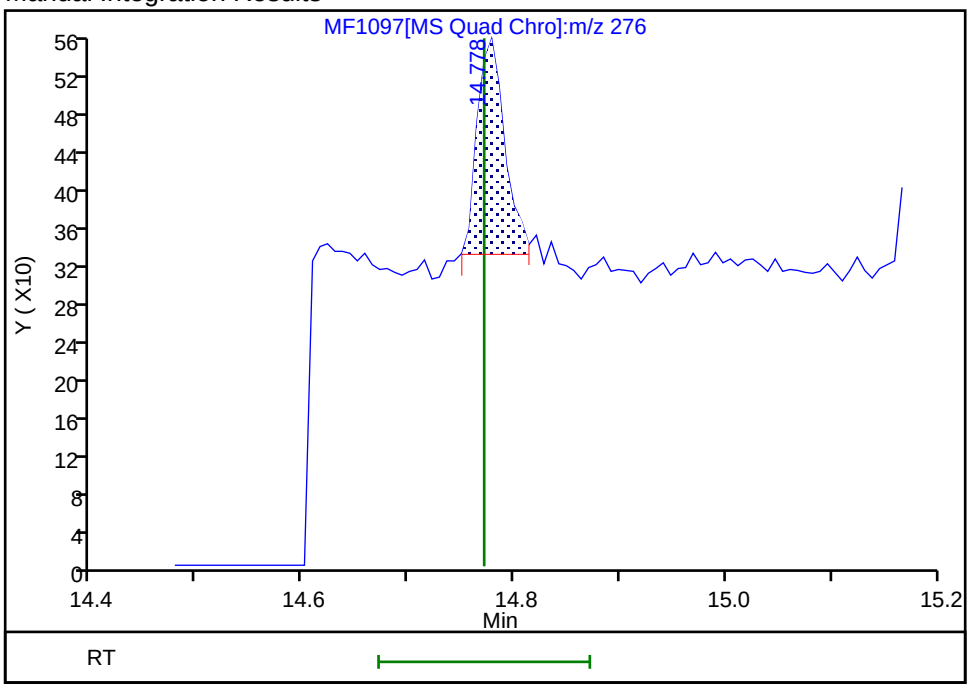
Processing Integration Results

RT: 14.78
Area: 4188
Amount: 0.003484
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 408
Amount: 0.000339
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:30:25 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

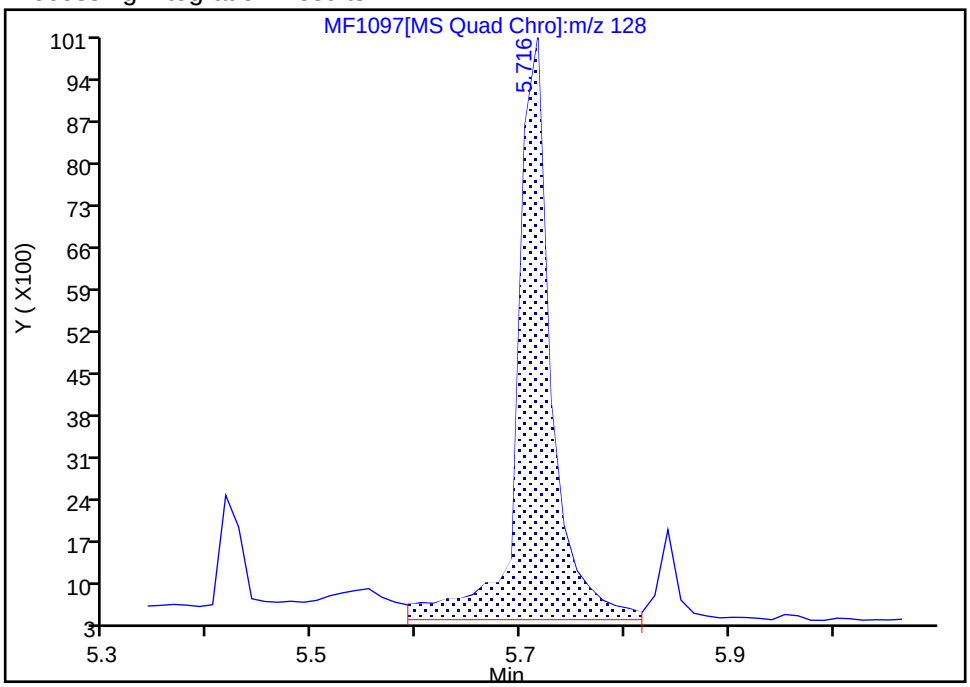
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1097.D				
Injection Date:	15-Jun-2023 15:39:03	Instrument ID:	HP21585		
Lims ID:	410-130132-D-6-A	Lab Sample ID:	410-130132-6		
Client ID:	DUP-20230607				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

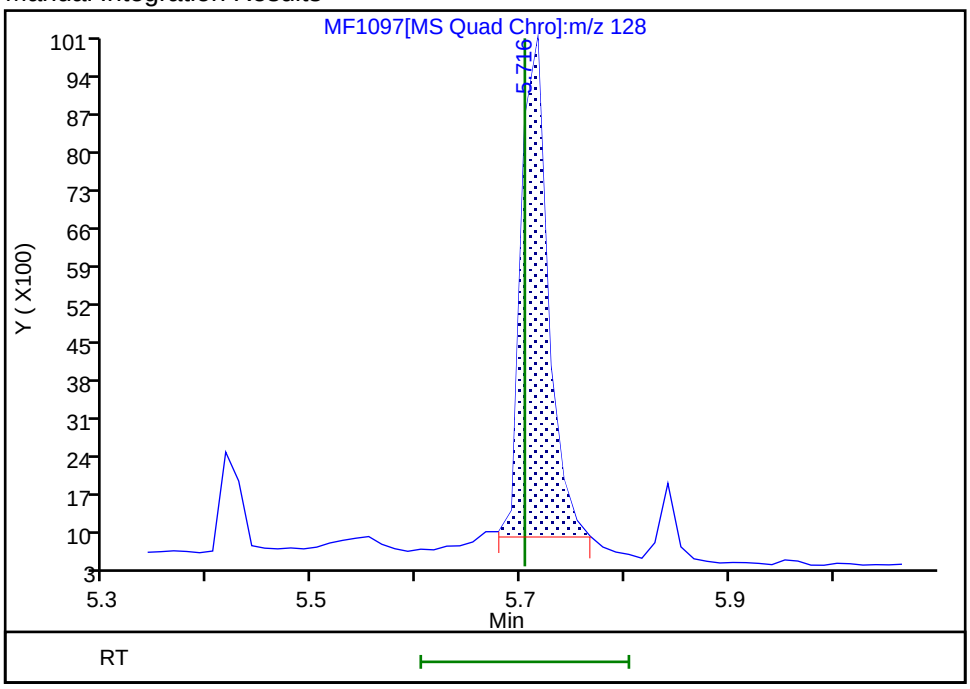
Processing Integration Results

RT: 5.72
Area: 22112
Amount: 0.022104
Amount Units: ug/ml



Manual Integration Results

RT: 5.72
Area: 16535
Amount: 0.016529
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 03:30:07 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-13S-20230608
Lab Sample ID: 410-130132-7

Matrix: Water
Lab File ID: MF1172.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 08:40

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 244(mL)
Date Analyzed: 06/16/2023 12:54

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.025	J	0.051	0.010
208-96-8	Acenaphthylene	0.064		0.051	0.010
120-12-7	Anthracene	0.028	J	0.051	0.010
56-55-3	Benzo[a]anthracene	0.022	J	0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	0.047	J	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	0.014	J	0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	0.062	J	0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	1.6		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	51		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		33-120
93951-69-0	Fluoranthene-d10 (Surr)	73		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D
Lims ID: 410-130132-D-7-A
Client ID: MW-13S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 12:54:23 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-7-A
Misc. Info.: 410-0086777-023
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:18:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	99	81209	0.2500	M
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	276557	0.2500	M
6 Naphthalene	128	5.704	5.716	0.000	92	19569	0.0152	M
$ 9 1-Methylnaphthalene-d10	152	6.419	6.419	-0.010	96	114466	0.1700	
12 Acenaphthylene	152	7.217	7.217	0.000	96	20593	0.0156	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	88	176368	0.2500	
14 Acenaphthene	154	7.375	7.385	-0.009	92	5275	0.006174	M
17 Fluorene	166	7.871	7.871	0.000	84	1688	0.001547	7M
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	94	332994	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	67	9915	0.005989	7M
22 Anthracene	178	8.831	8.831	0.000	98	9787	0.006809	M
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	278701	0.1831	
25 Fluoranthene	202	9.915	9.915	0.000	7	6166	0.003321	M
26 Pyrene	202	10.122	10.128	-0.006	98	780334	0.3895	M
28 Benzo[a]anthracene	228	11.357	11.372	-0.008	82	8693	0.005323	M
* 29 Chrysene-d12	240	11.372	11.372	0.000	67	311954	0.2500	
30 Chrysene	228	11.388	11.388	-0.015	98	22655	0.0114	M
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	99	3716	0.002021	7M
34 Benzo[k]fluoranthene	252	12.753	12.761	-0.007	100	1361	0.000694	7Ma
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.128	0.000	100	163055	0.1274	
* 38 Perylene-d12	264	13.236	13.244	-0.008	100	348032	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	100	1138	0.000744	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

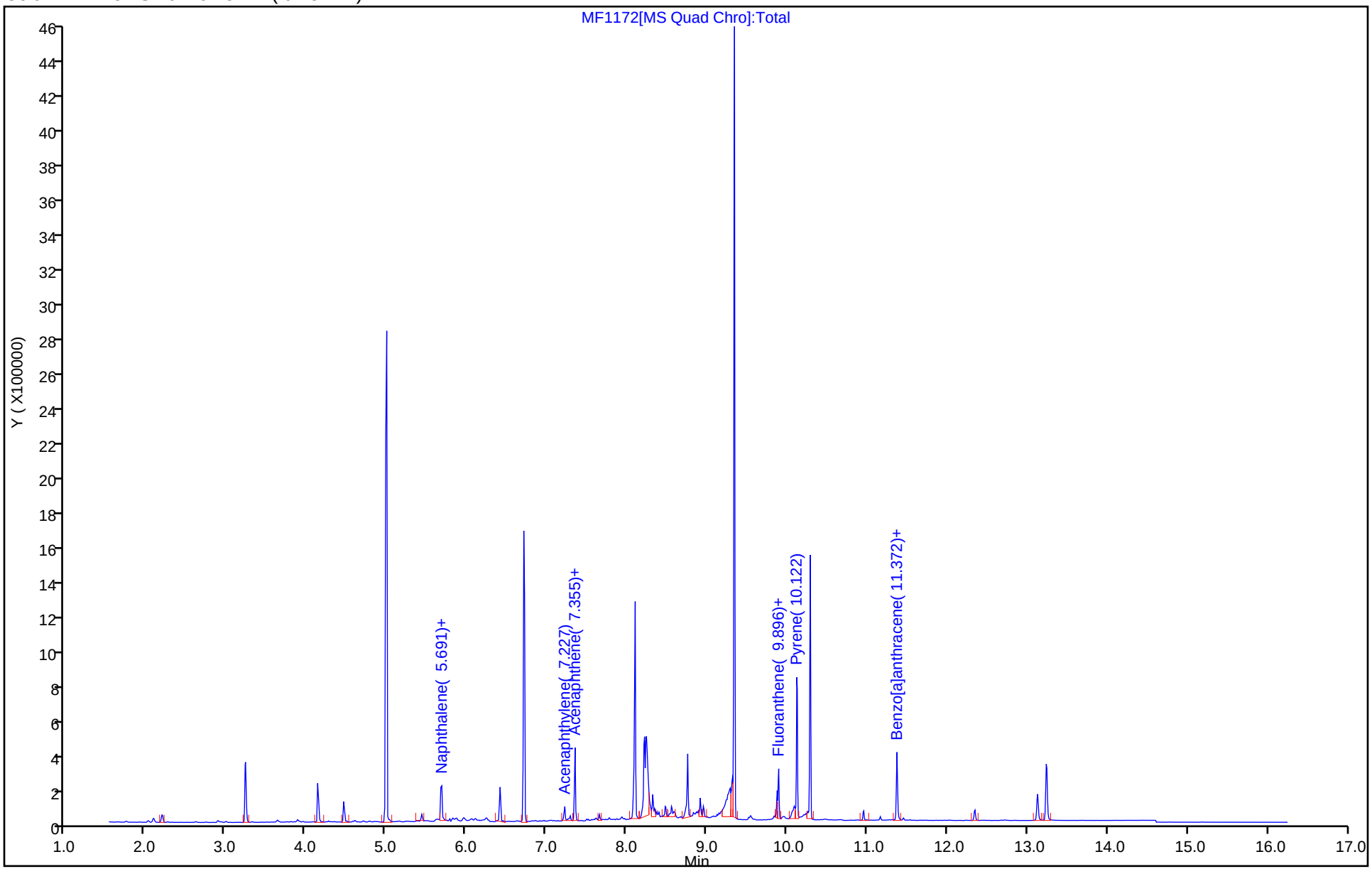
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 12:32:49 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7	Worklist Smp#:	23
Client ID:	MW-13S-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Lims ID:	410-130132-D-7-A				
Client ID:	MW-13S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 12:54:23	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-7-A				
Misc. Info.:	410-0086777-023				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

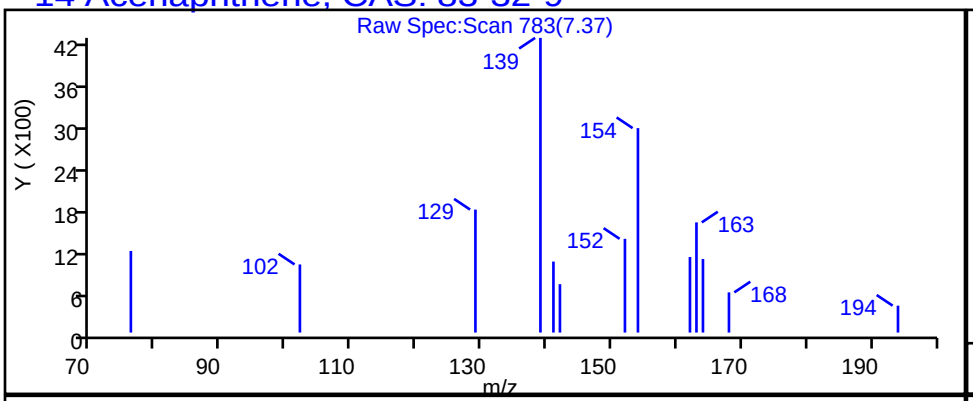
First Level Reviewer: SJ89 Date: 19-Jun-2023 12:18:23

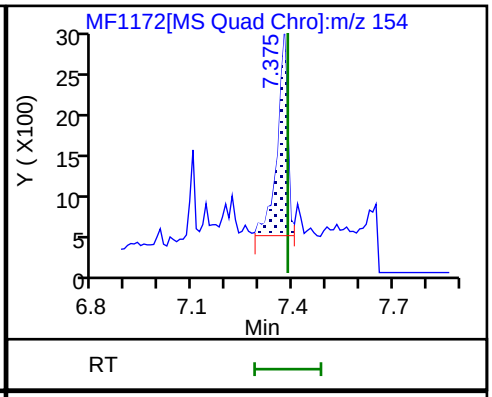
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1700	68.00
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1831	73.24
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1274	50.96

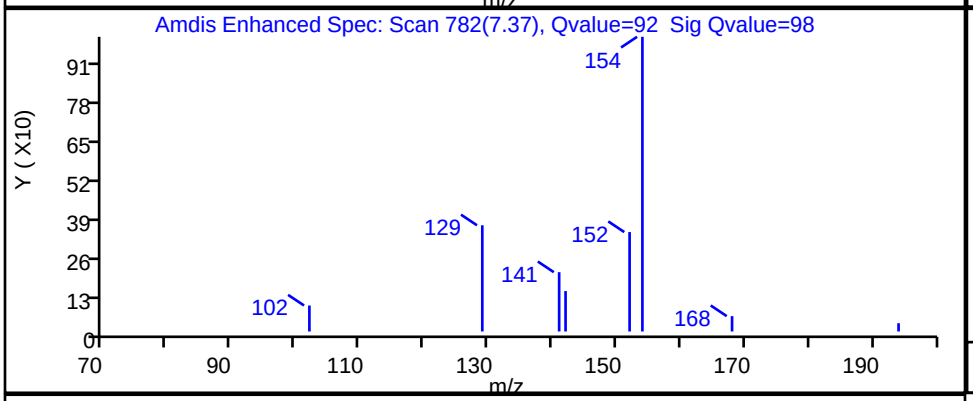
Eurofins Lancaster Laboratories Environment Testing, LLC

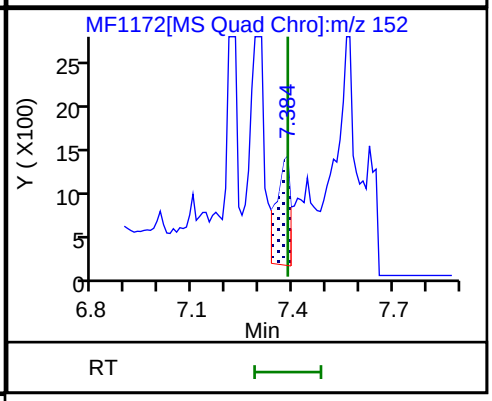
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

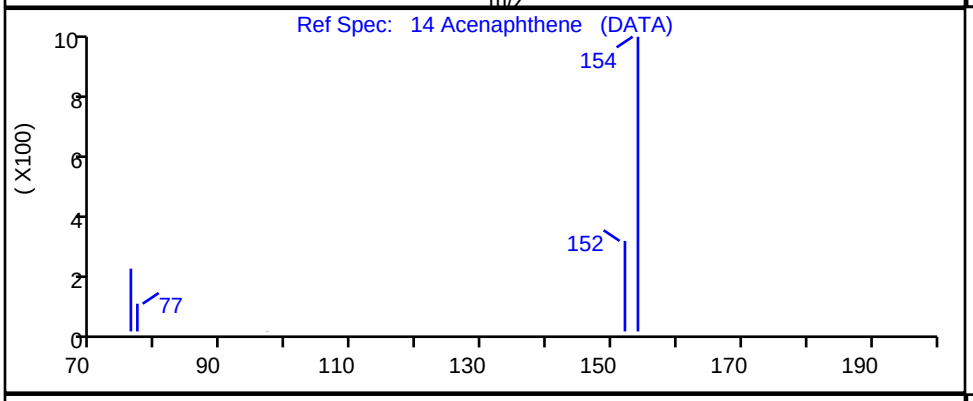
14 Acenaphthene, CAS: 83-32-9

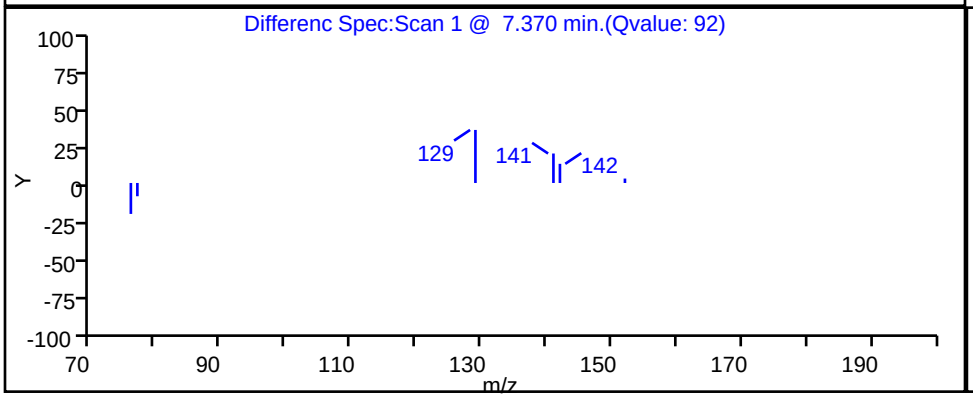


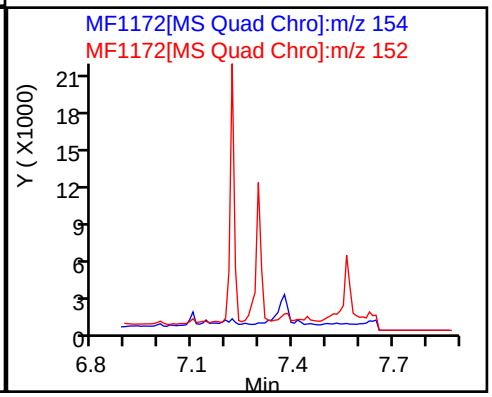










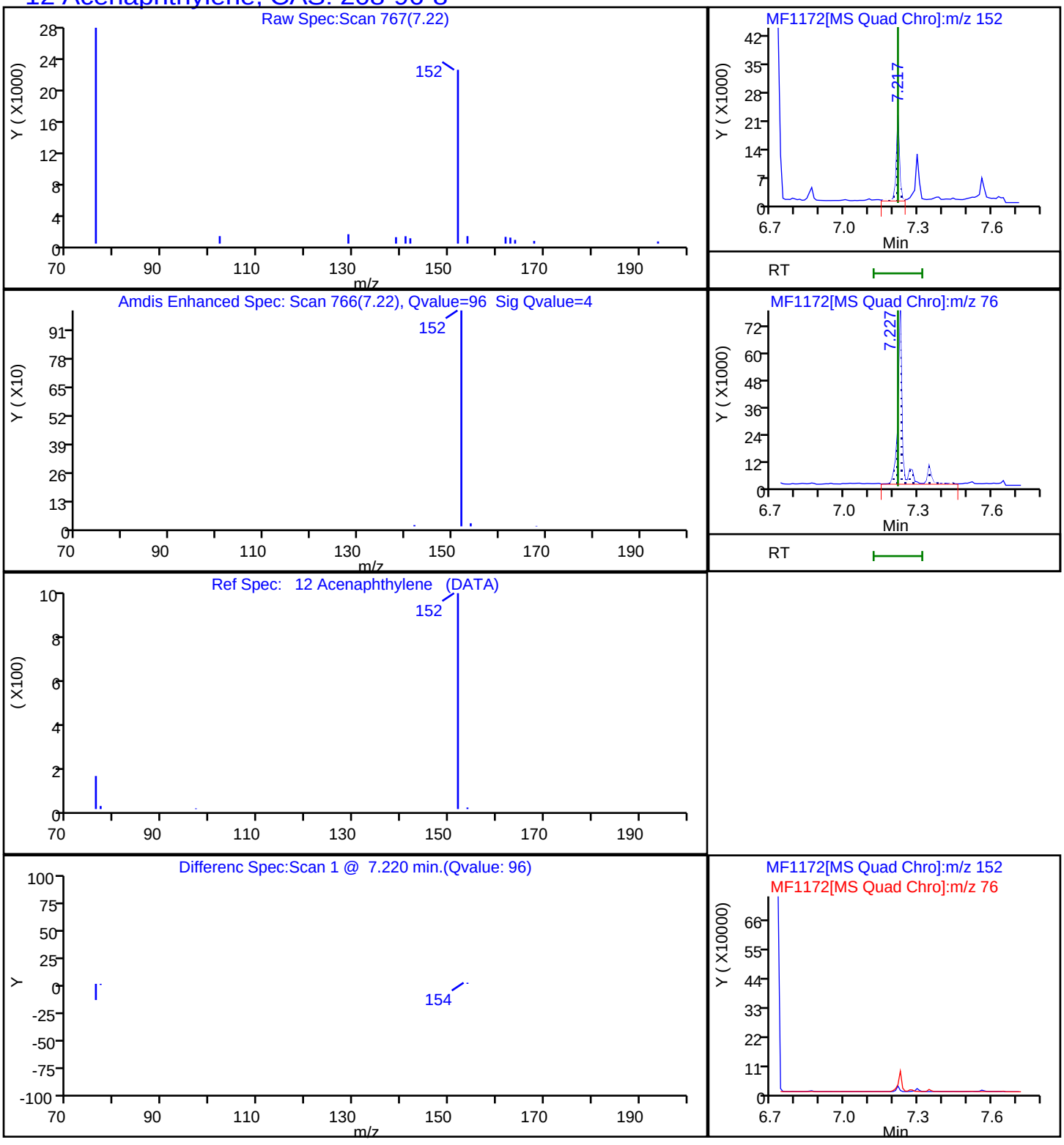


Report Date: 19-Jun-2023 12:32:49 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

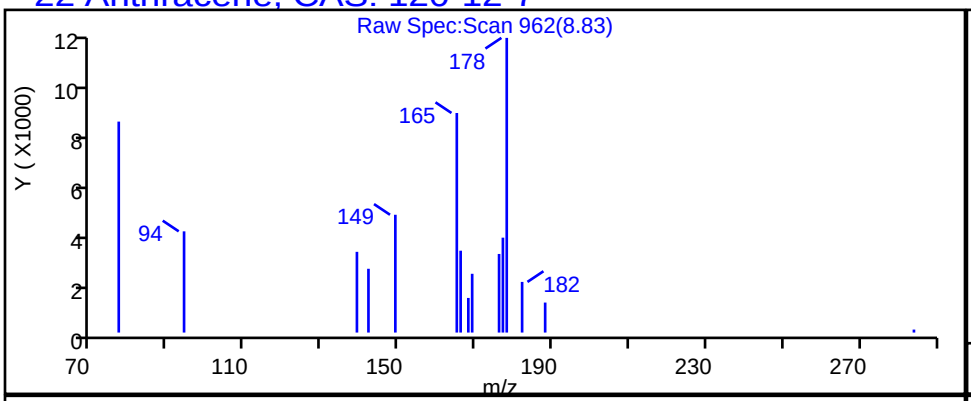
12 Acenaphthylene, CAS: 208-96-8

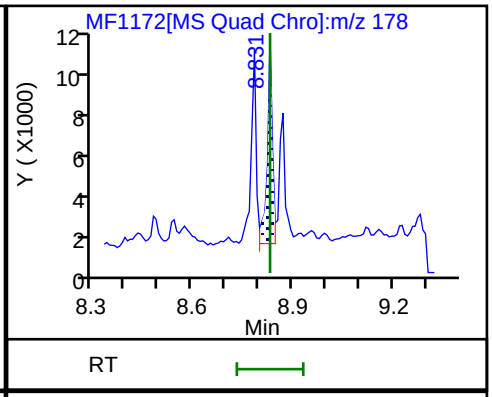


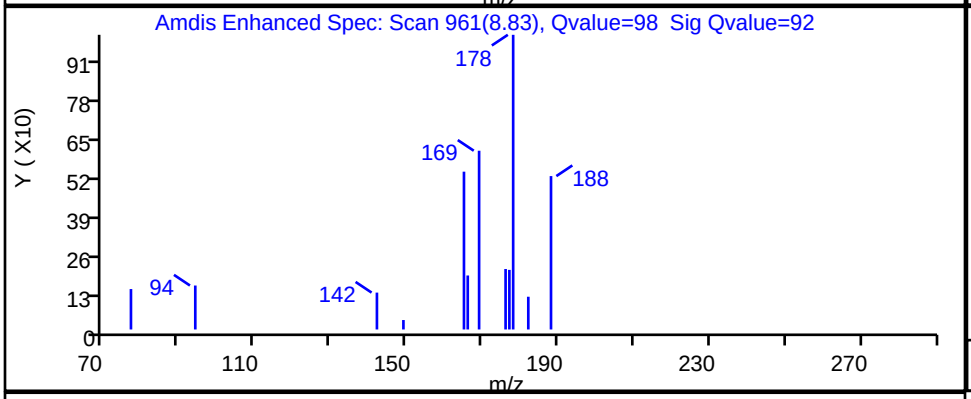
Eurofins Lancaster Laboratories Environment Testing, LLC

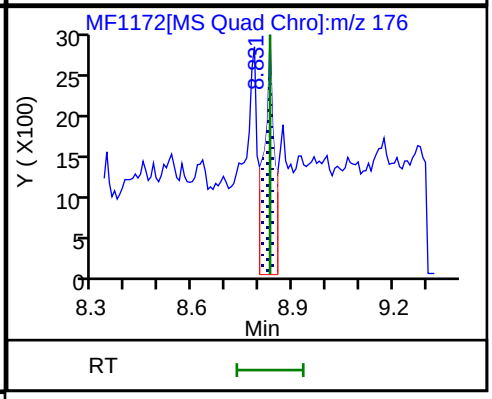
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

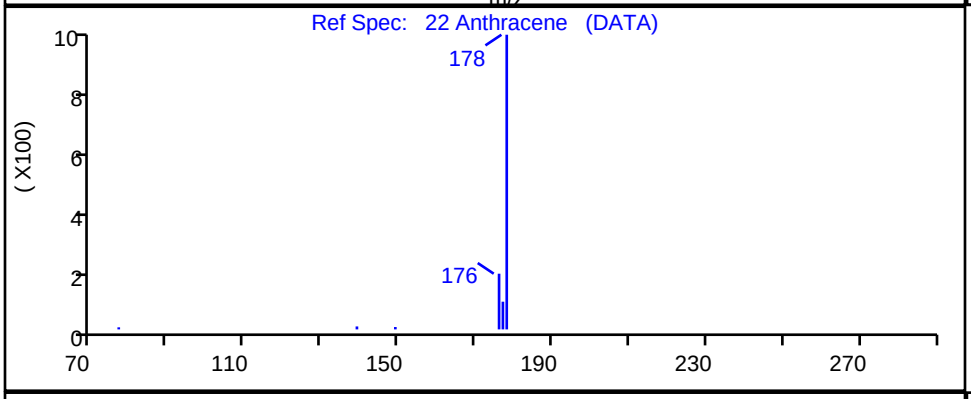
22 Anthracene, CAS: 120-12-7

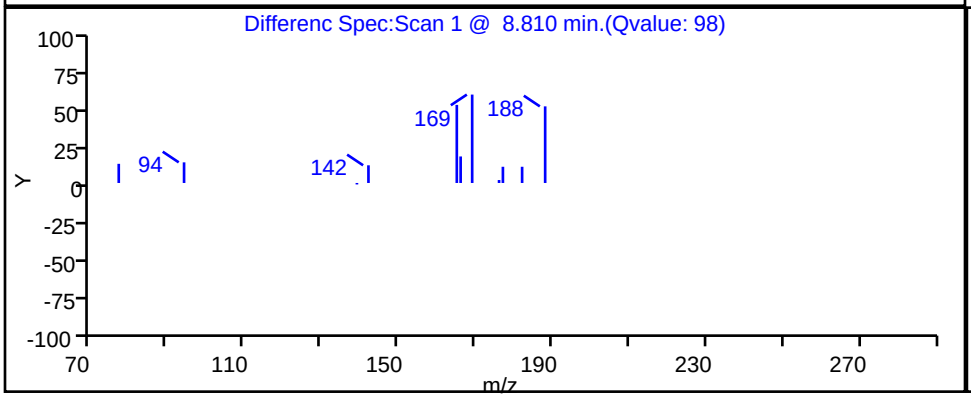


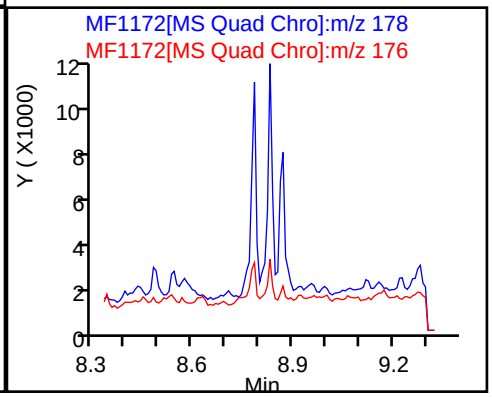








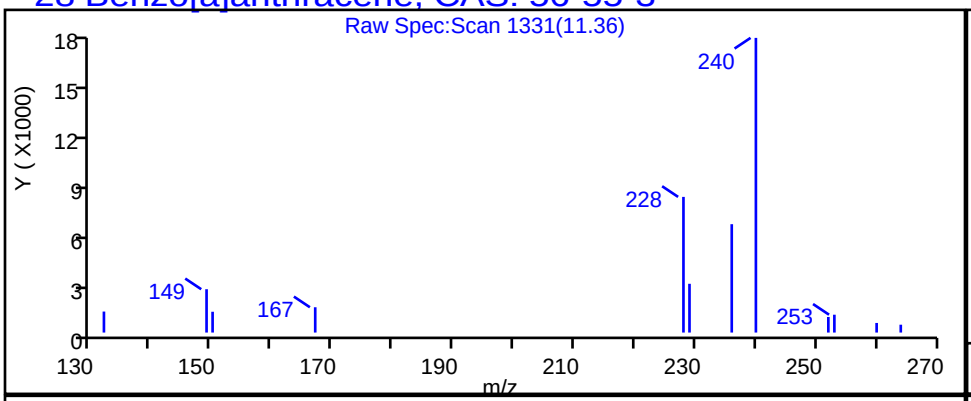


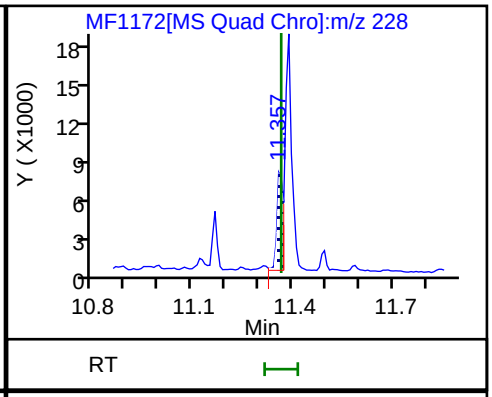


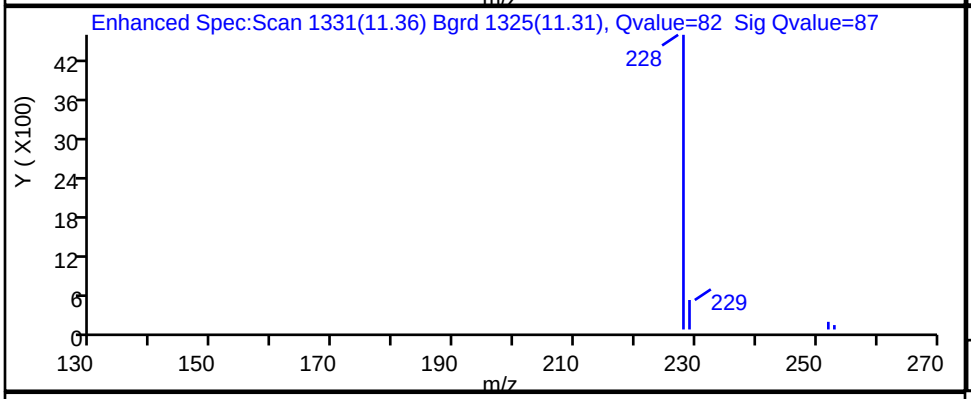
Eurofins Lancaster Laboratories Environment Testing, LLC

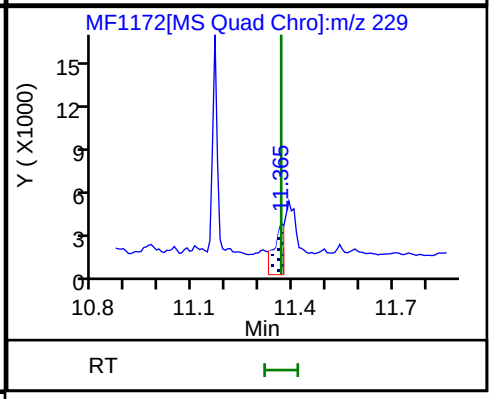
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D		
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7
Client ID:	MW-13S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

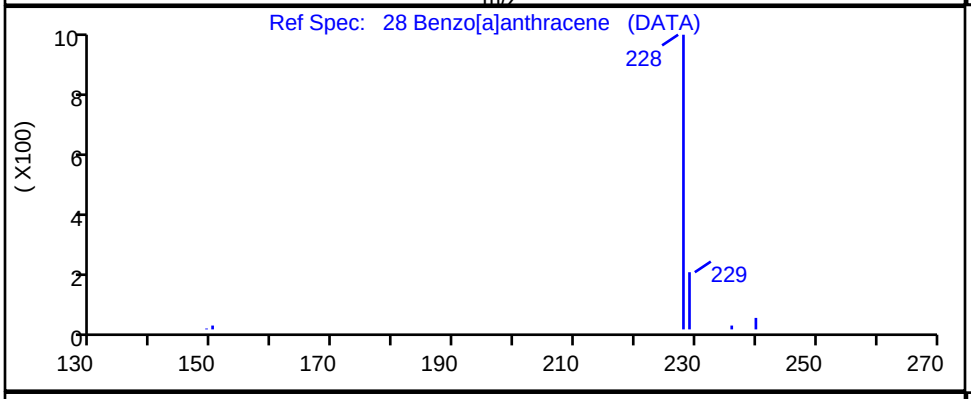
28 Benzo[a]anthracene, CAS: 56-55-3

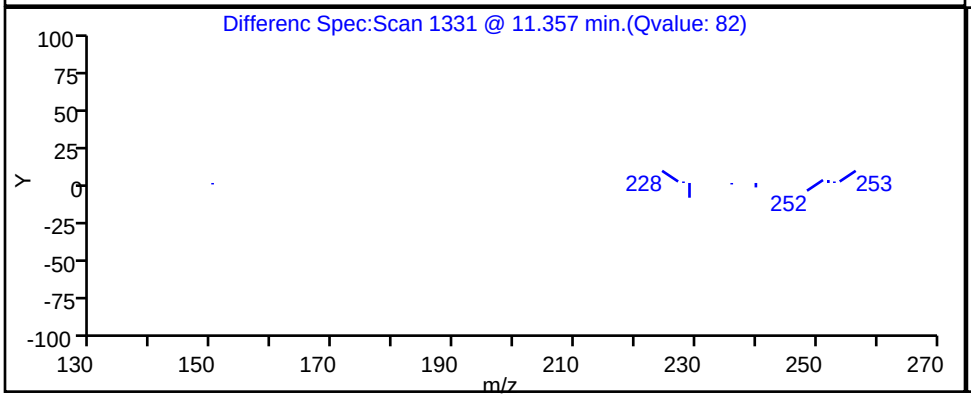


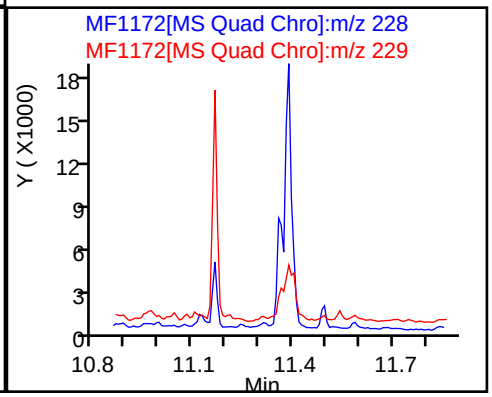








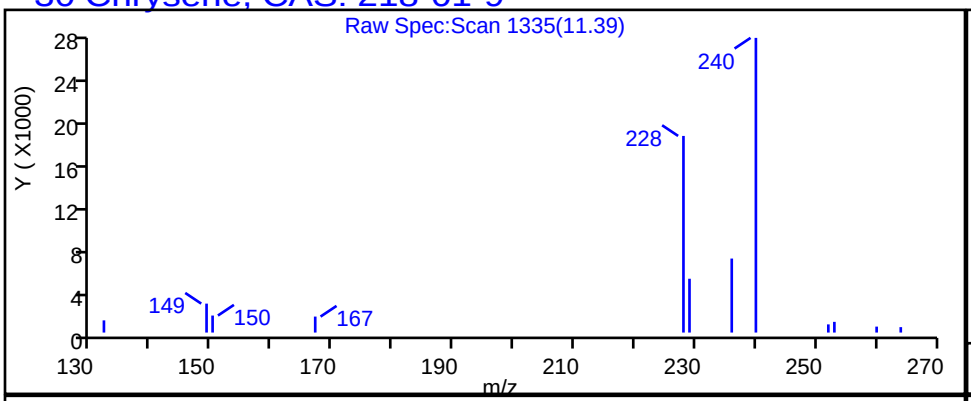


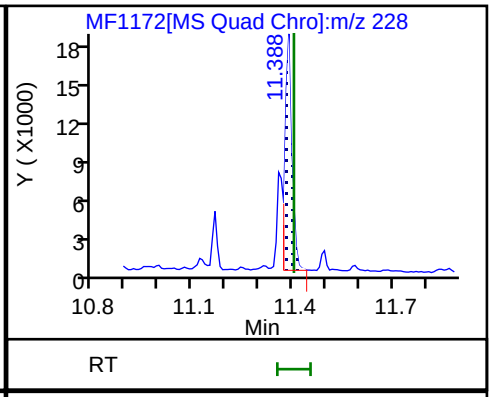


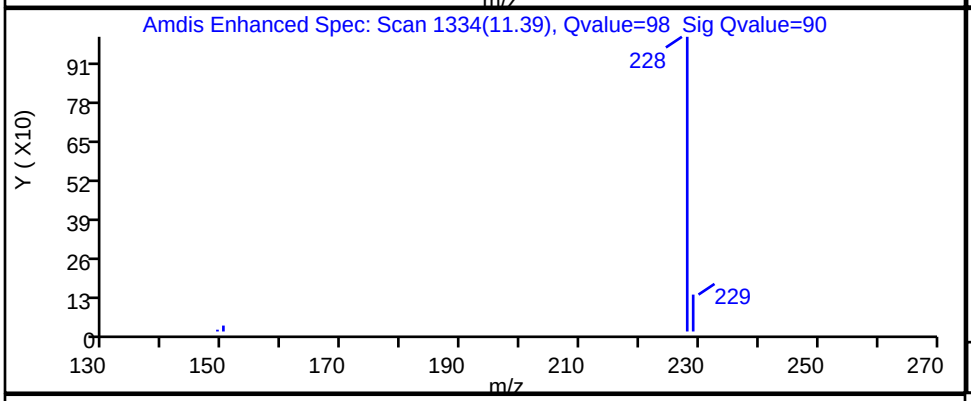
Eurofins Lancaster Laboratories Environment Testing, LLC

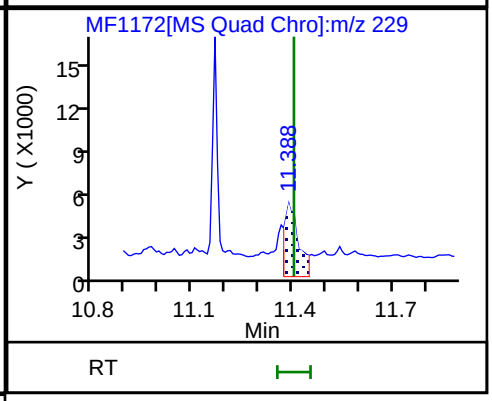
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

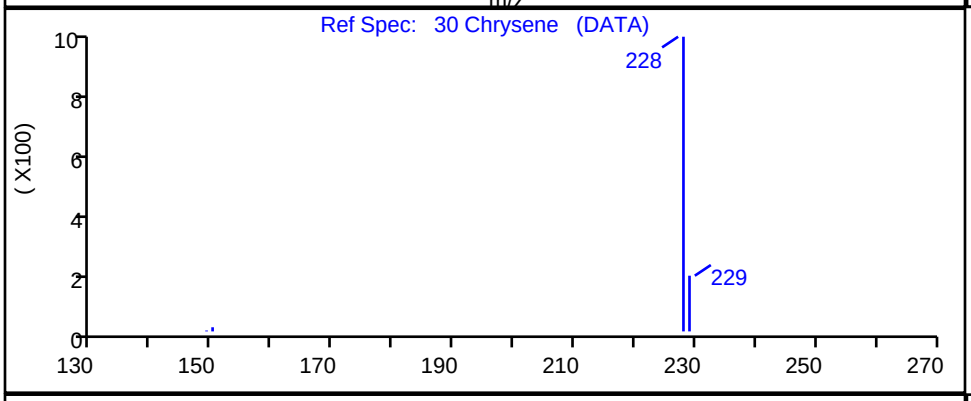
30 Chrysene, CAS: 218-01-9

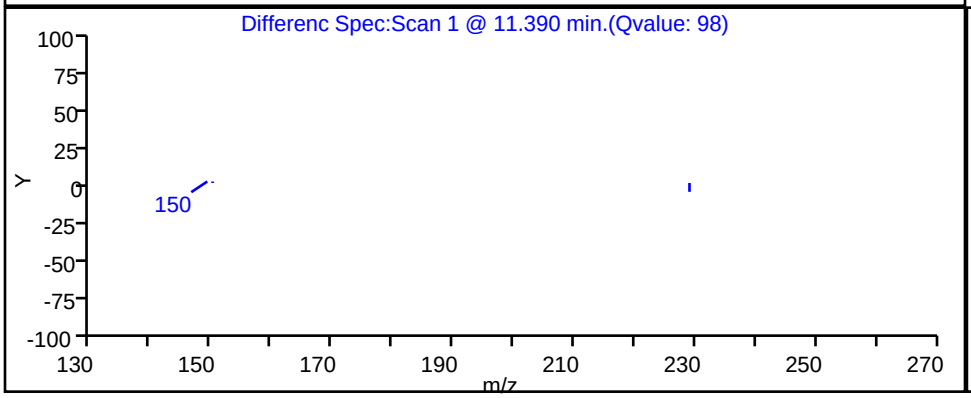


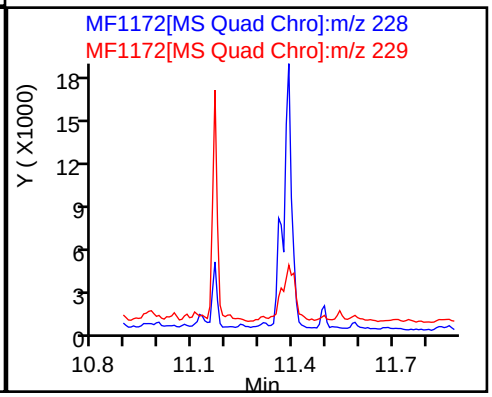










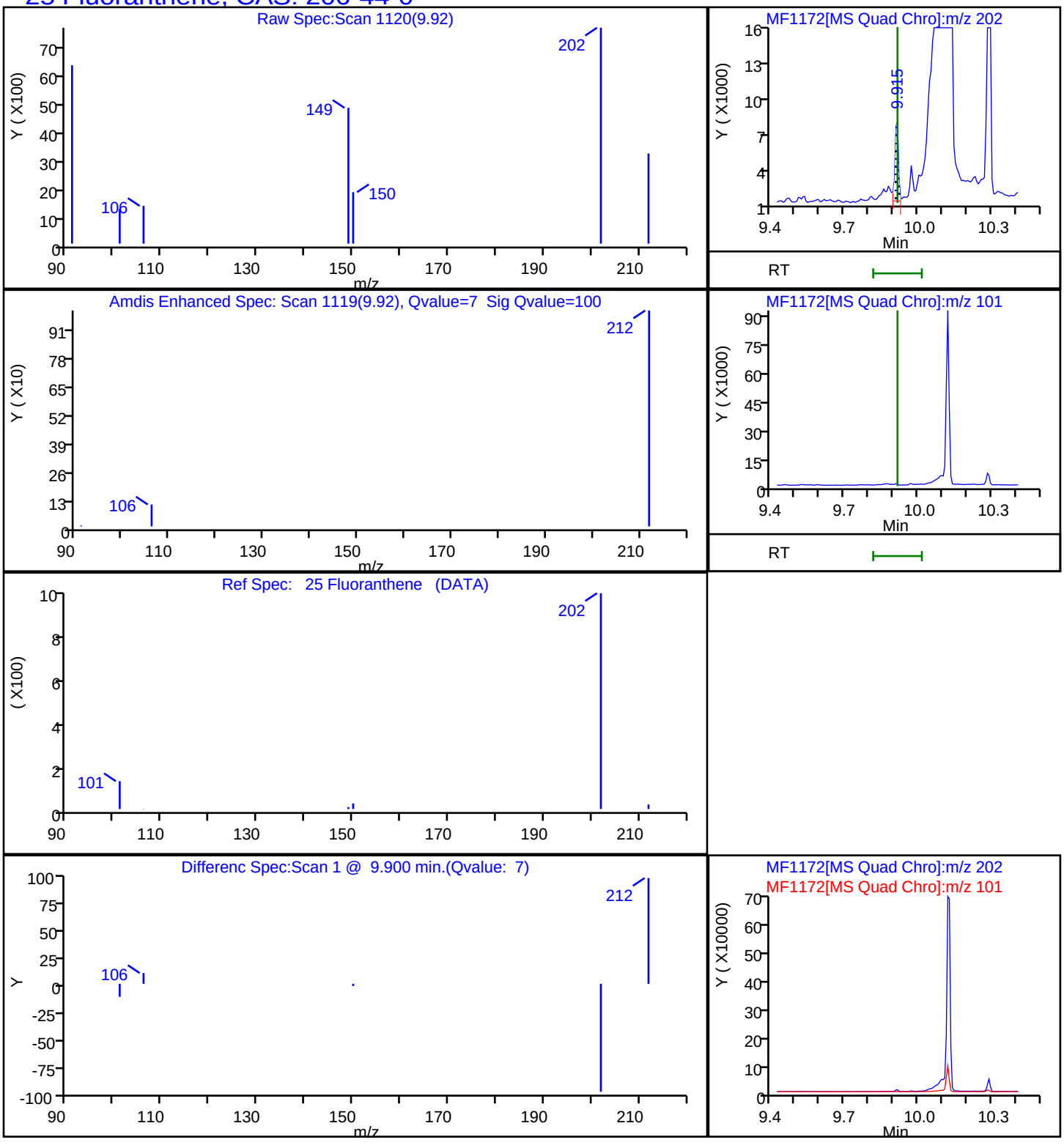


Report Date: 19-Jun-2023 12:32:49 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

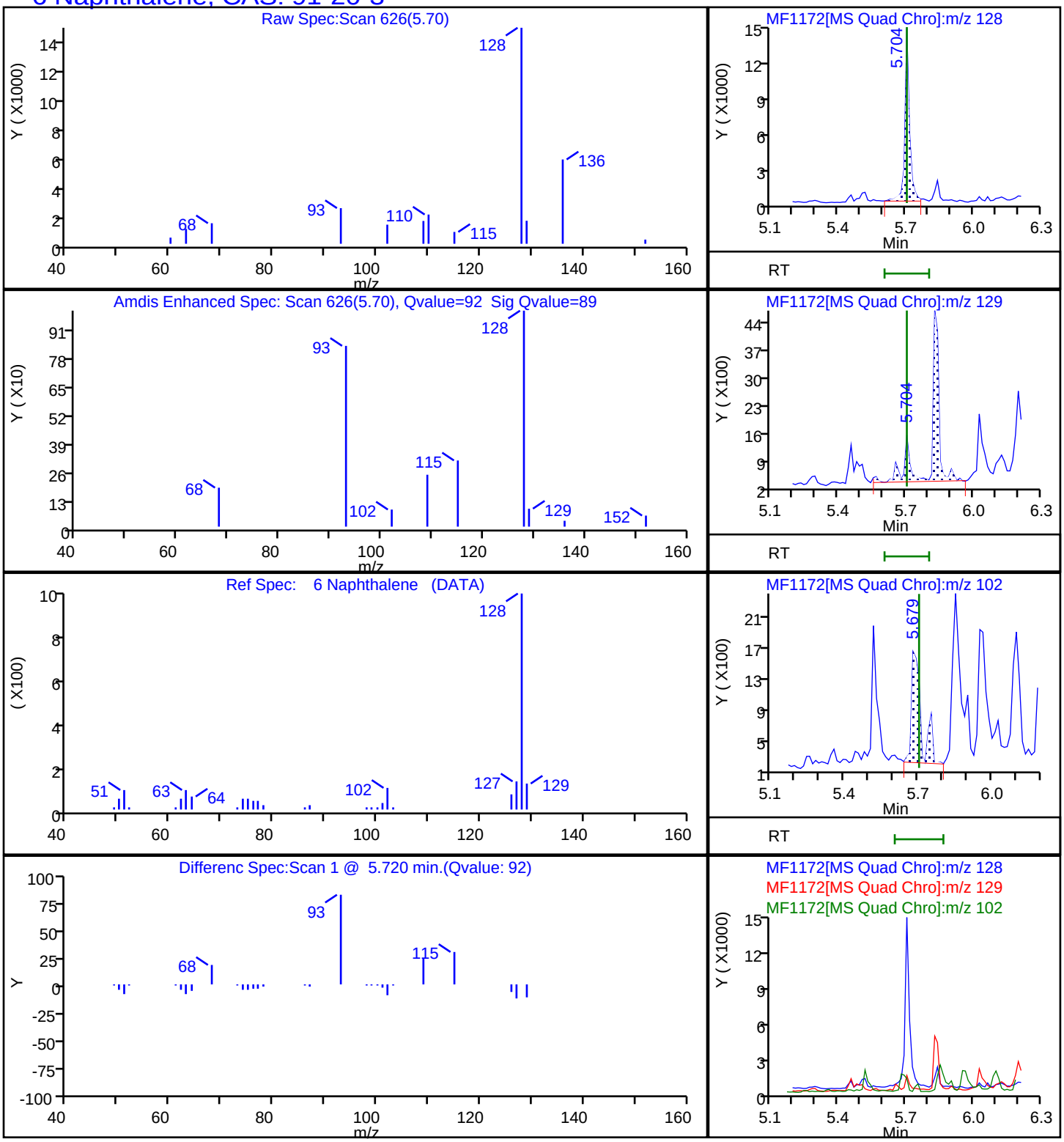
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D		
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7
Client ID:	MW-13S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

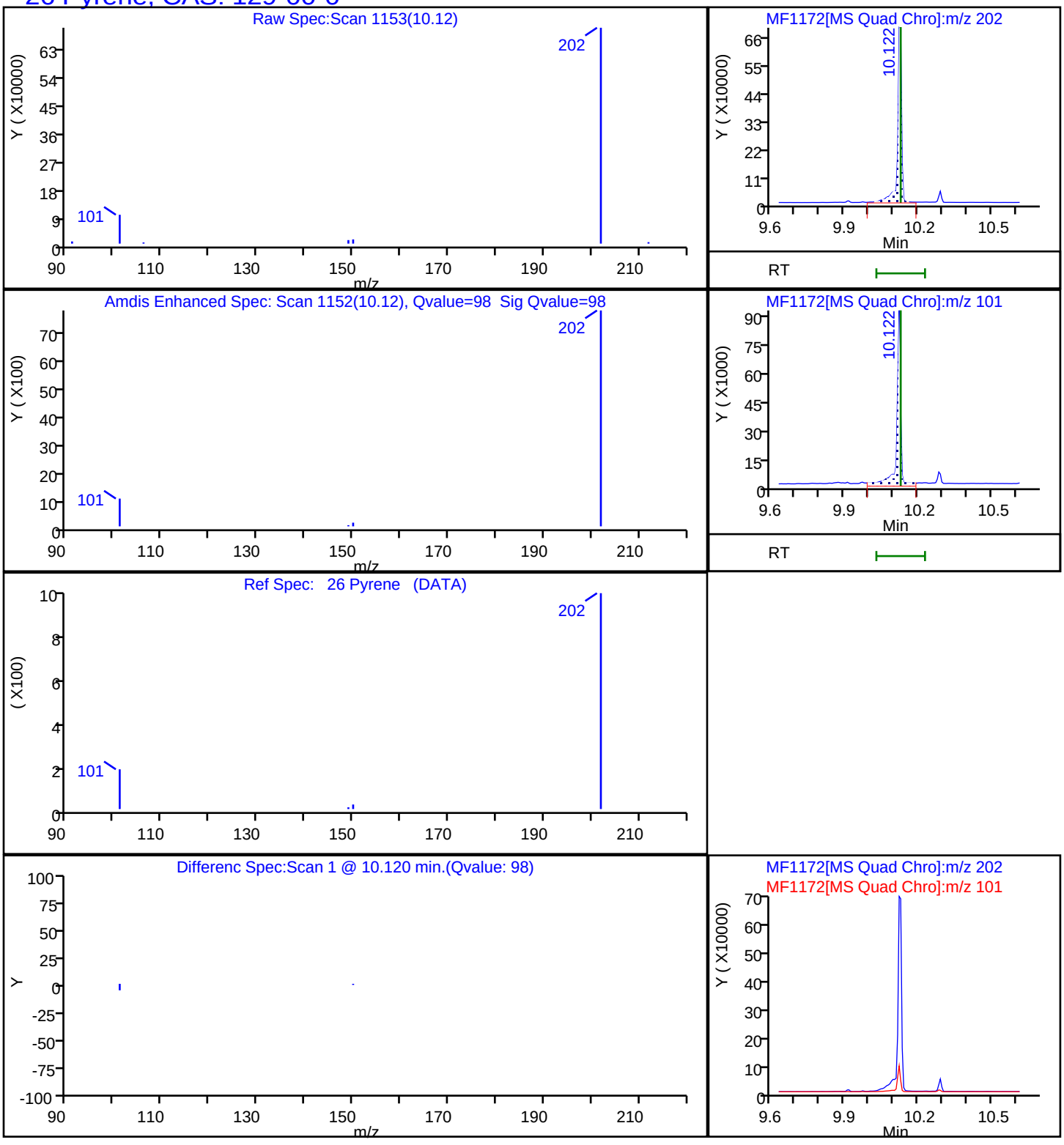
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

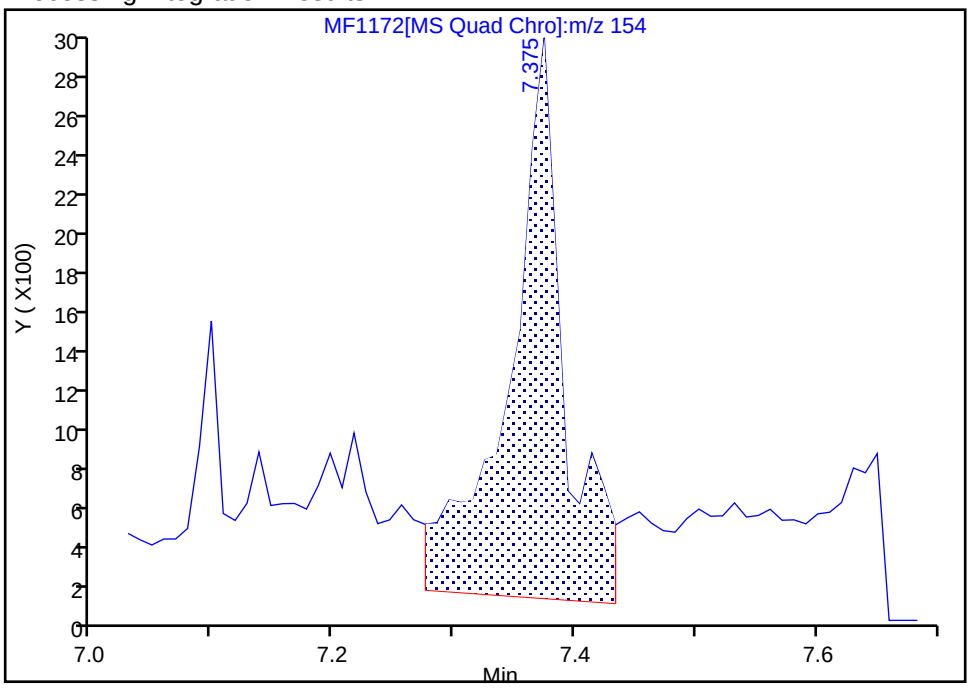
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

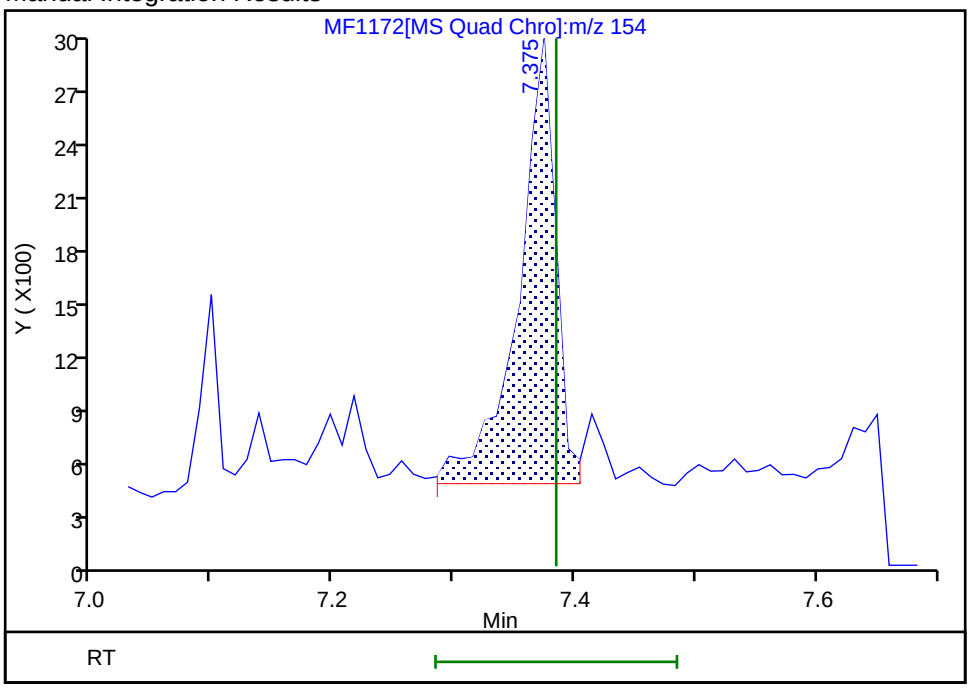
Processing Integration Results

RT: 7.37
Area: 8830
Amount: 0.010335
Amount Units: ug/ml



Manual Integration Results

RT: 7.37
Area: 5275
Amount: 0.006174
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:16:31 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

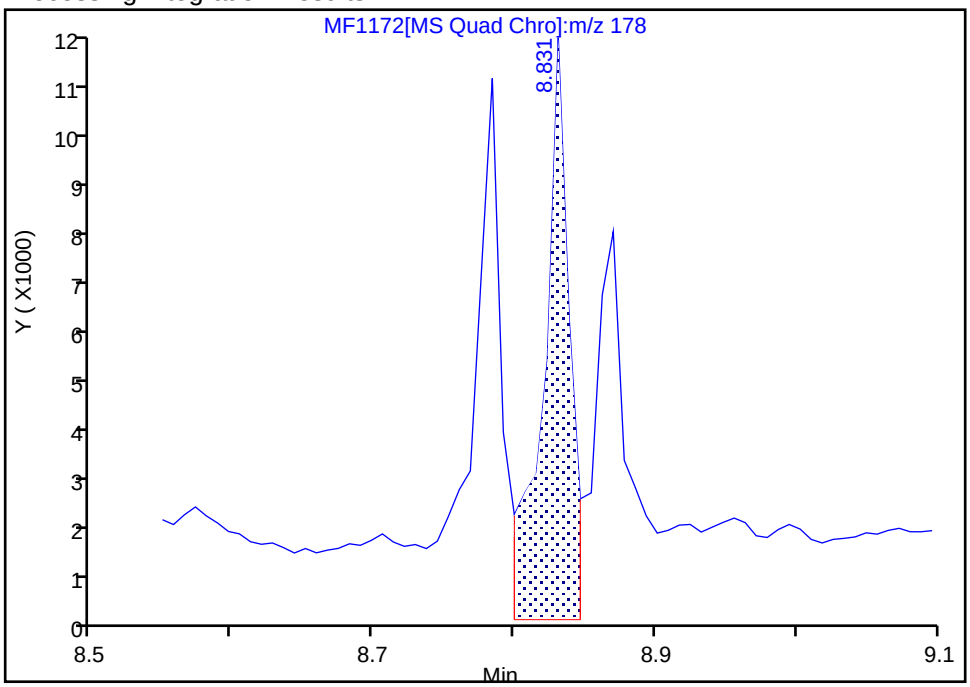
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

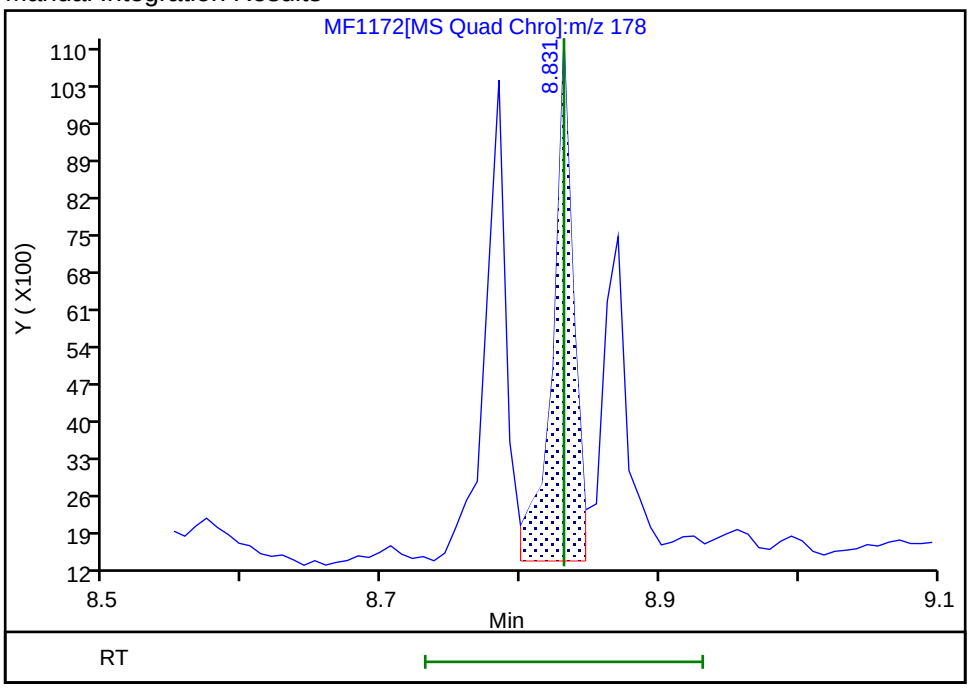
Processing Integration Results

RT: 8.83
Area: 13662
Amount: 0.009505
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 9787
Amount: 0.006809
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:16:59 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

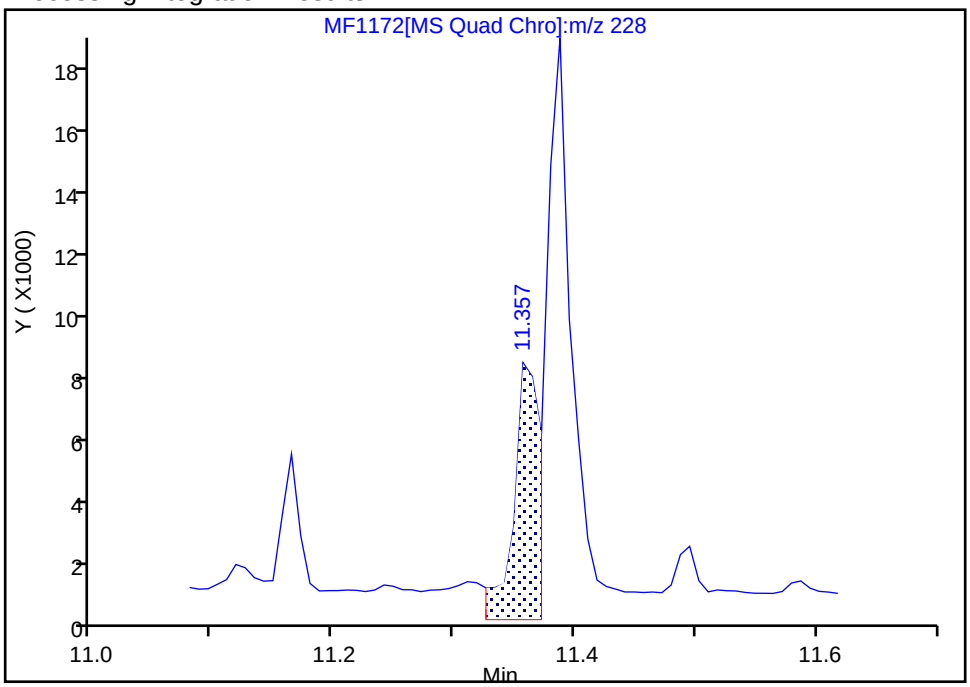
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

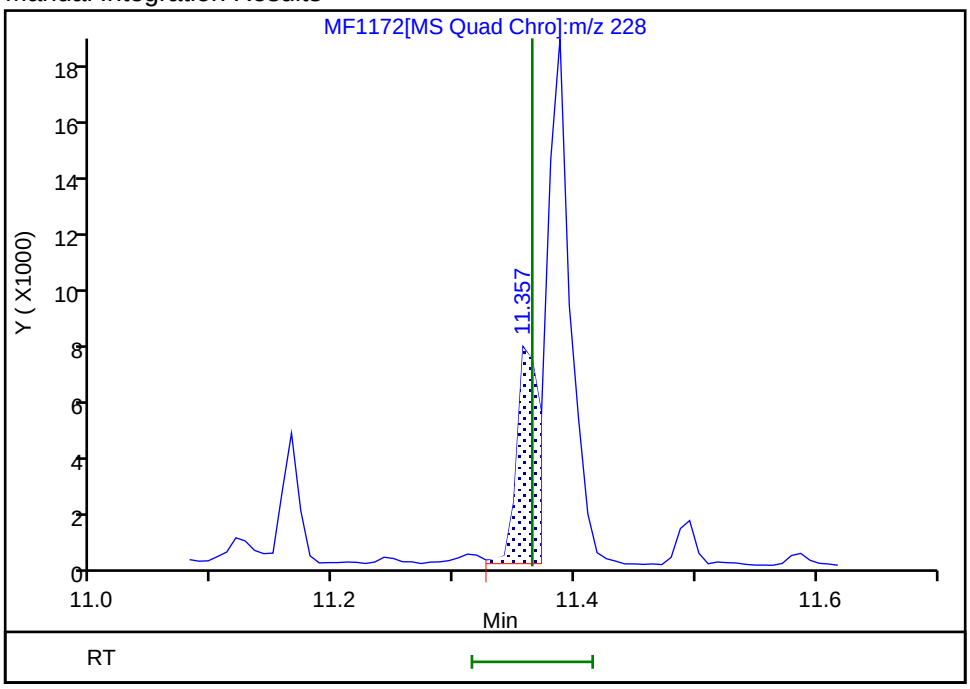
Processing Integration Results

RT: 11.36
Area: 11185
Amount: 0.006848
Amount Units: ug/ml



Manual Integration Results

RT: 11.36
Area: 8693
Amount: 0.005323
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:17:22 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

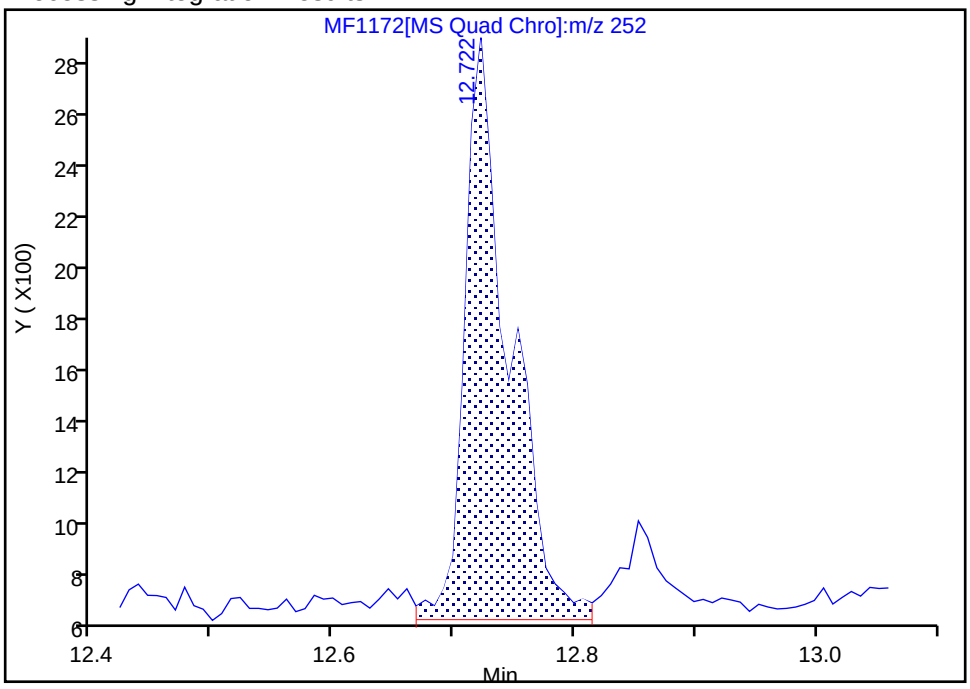
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

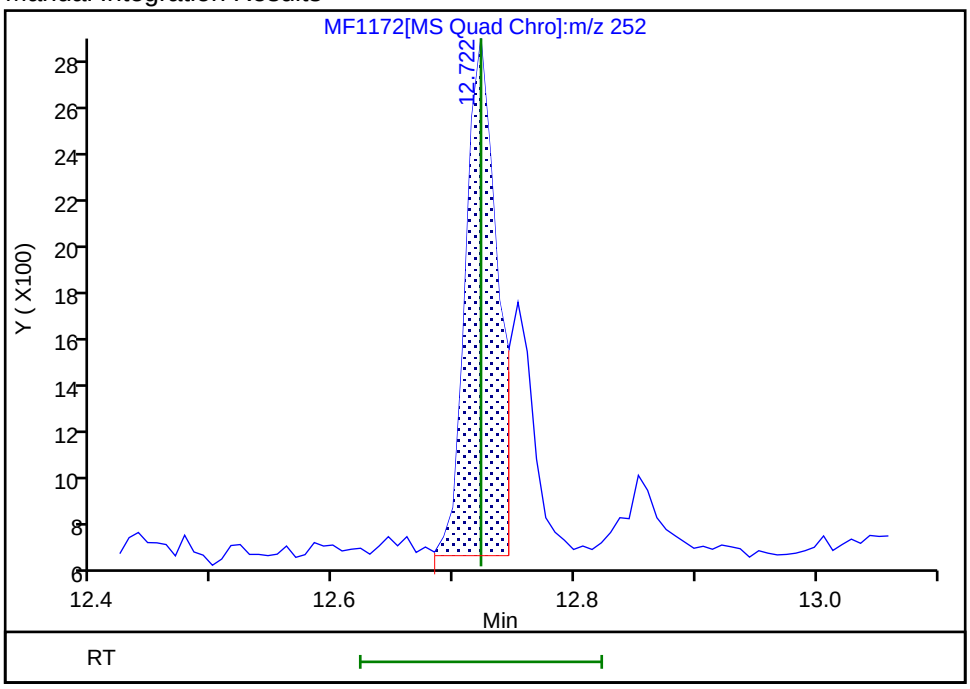
Processing Integration Results

RT: 12.72
Area: 5484
Amount: 0.002982
Amount Units: ug/ml



Manual Integration Results

RT: 12.72
Area: 3716
Amount: 0.002021
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:17:43 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

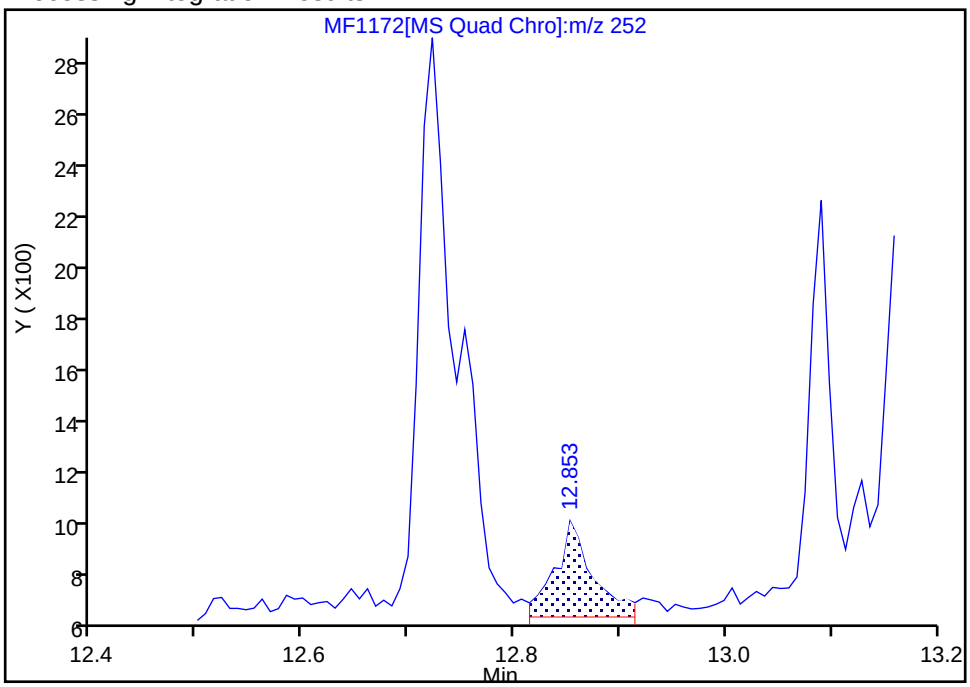
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

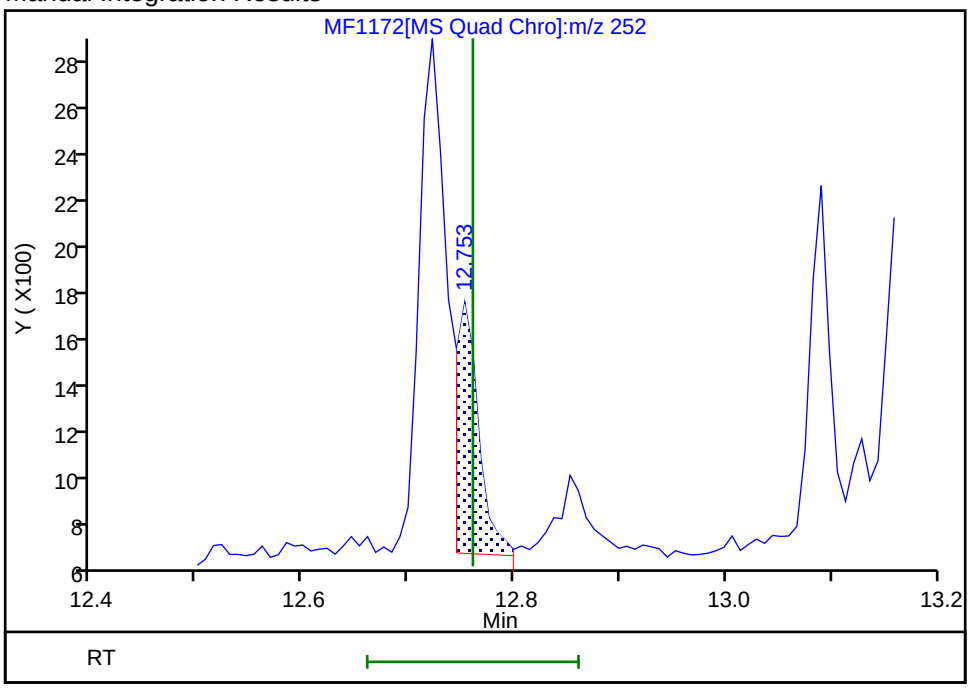
Processing Integration Results

RT: 12.85
Area: 841
Amount: 0.000429
Amount Units: ug/ml



Manual Integration Results

RT: 12.75
Area: 1361
Amount: 0.000694
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:18:04 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

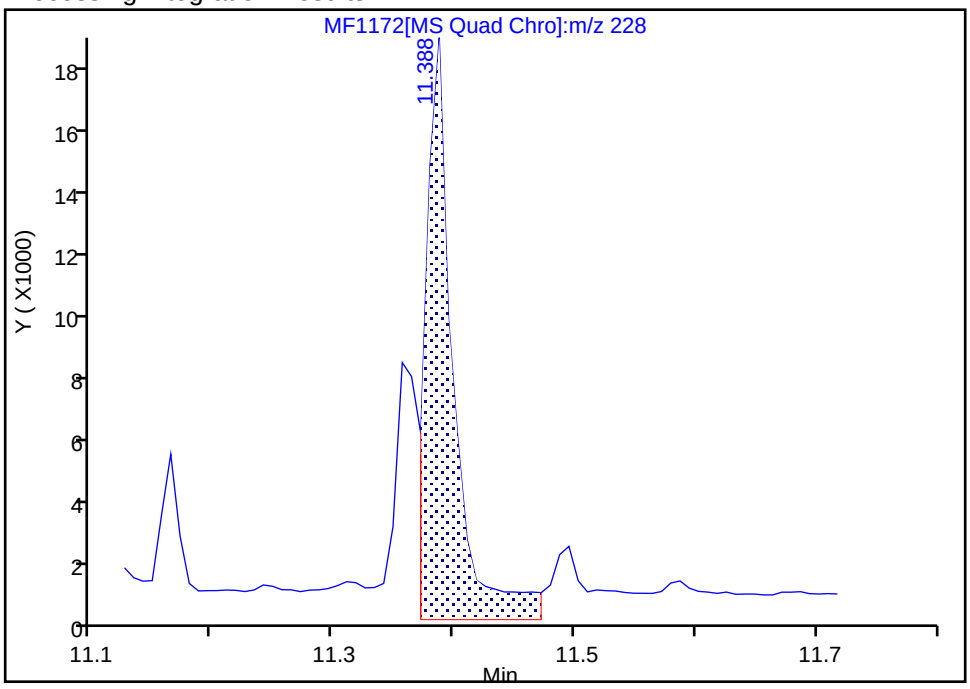
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

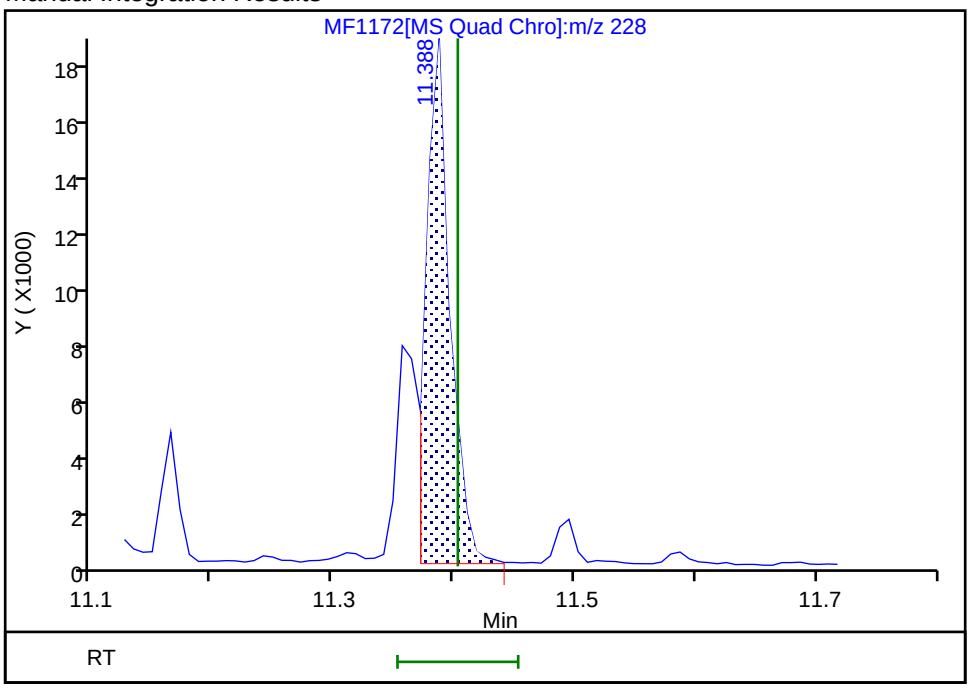
Processing Integration Results

RT: 11.39
Area: 27839
Amount: 0.014013
Amount Units: ug/ml



Manual Integration Results

RT: 11.39
Area: 22655
Amount: 0.011403
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:17:34 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

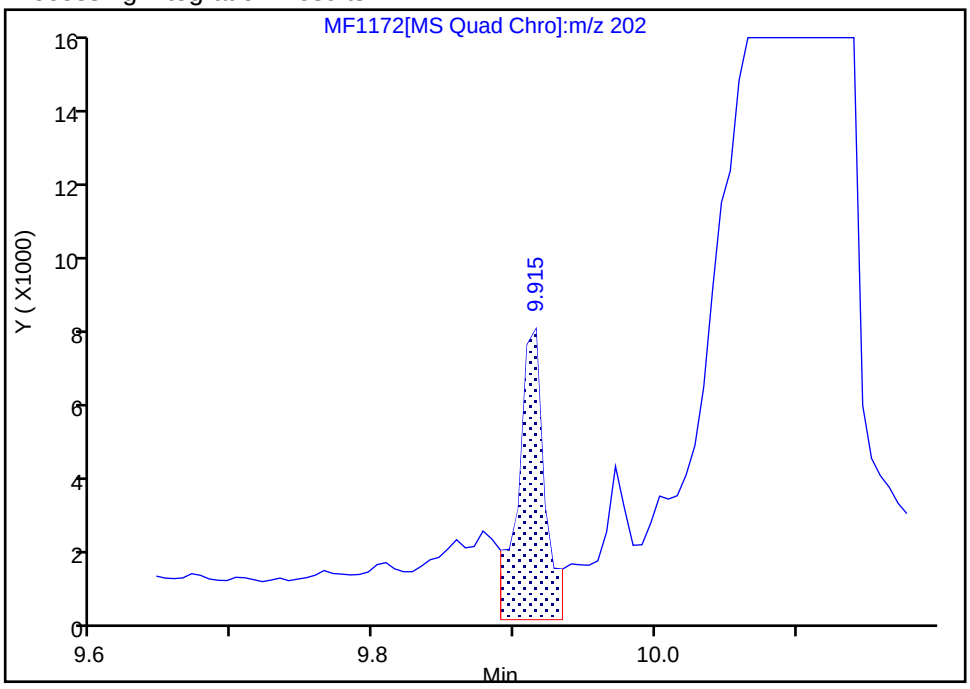
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

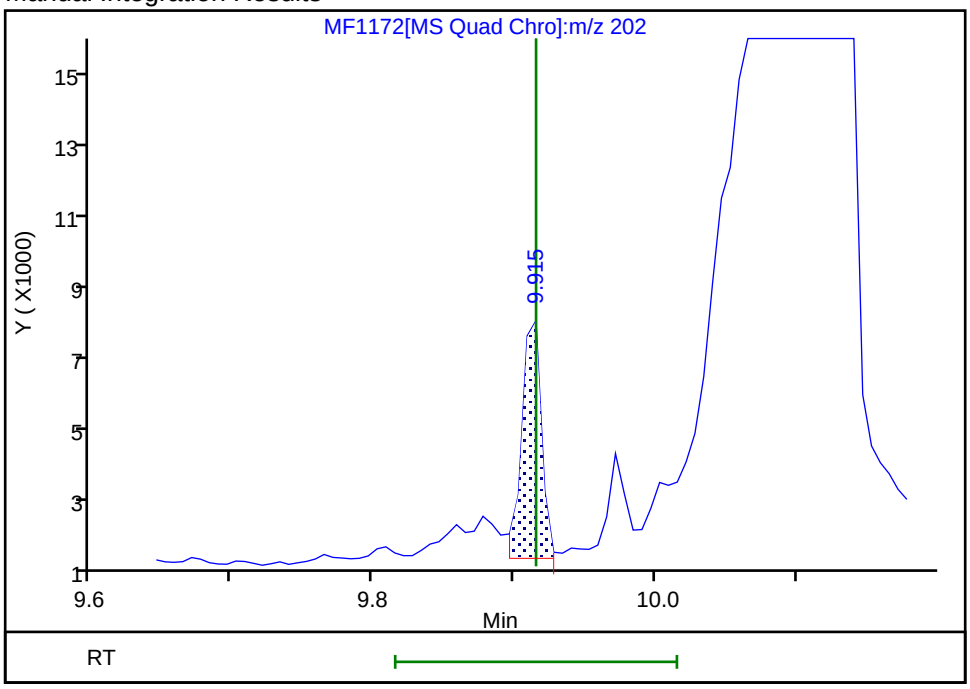
Processing Integration Results

RT: 9.92
Area: 9627
Amount: 0.005185
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 6166
Amount: 0.003321
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:17:06 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

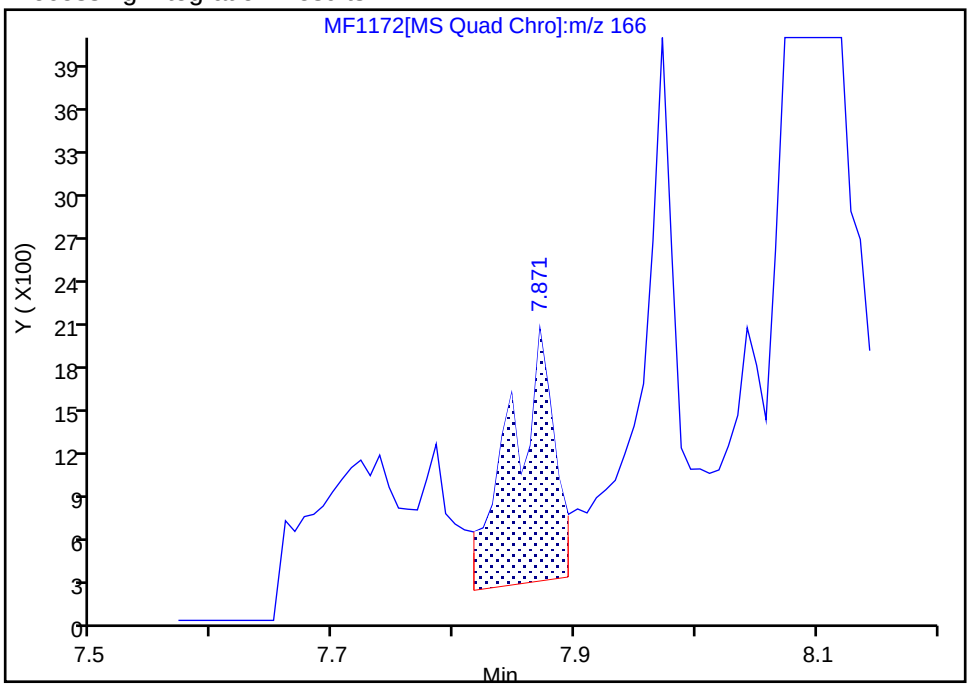
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

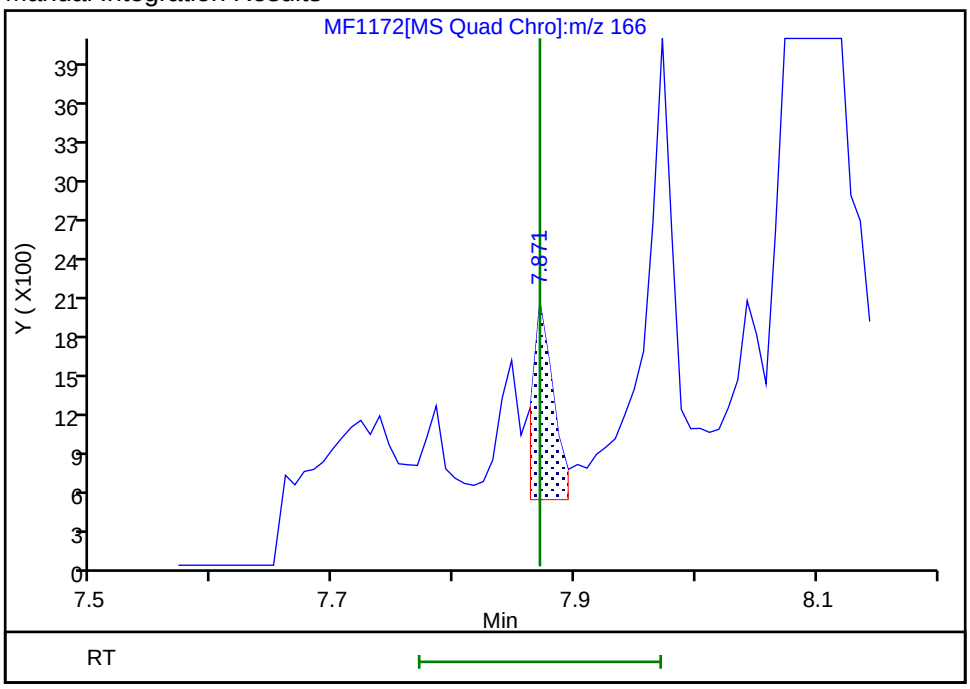
Processing Integration Results

RT: 7.87
Area: 4418
Amount: 0.004049
Amount Units: ug/ml



Manual Integration Results

RT: 7.87
Area: 1688
Amount: 0.001547
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:16:39 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

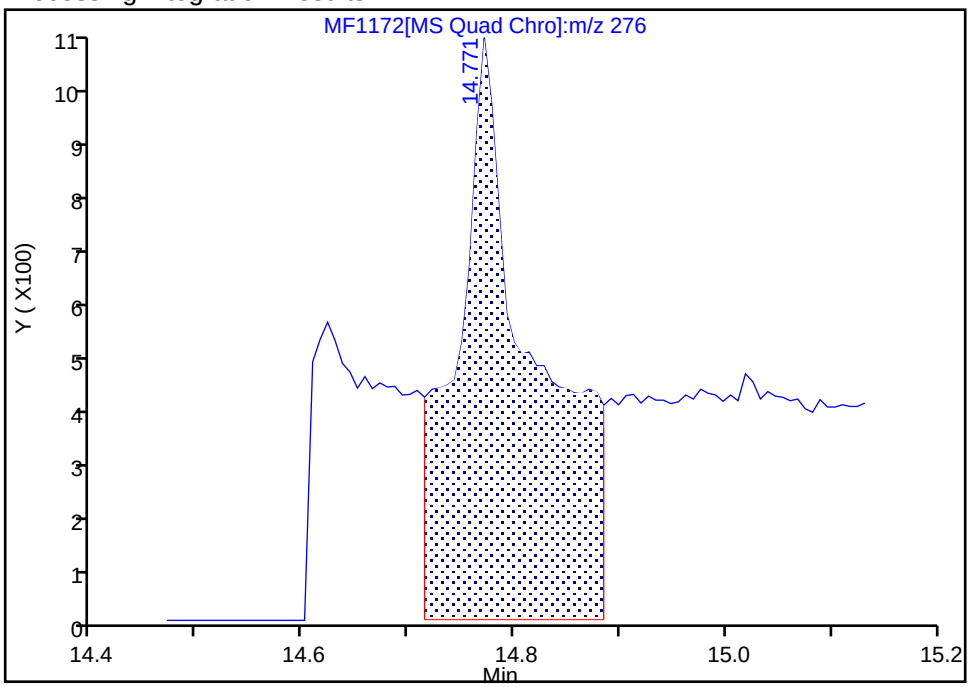
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

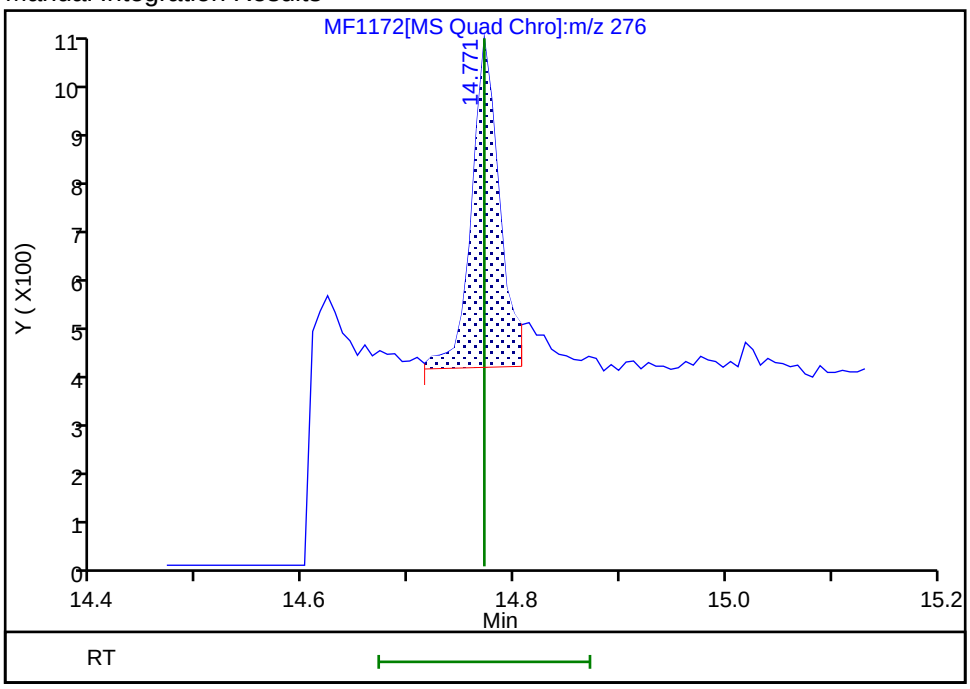
Processing Integration Results

RT: 14.77
Area: 5197
Amount: 0.003396
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 1138
Amount: 0.000744
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:18:15 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

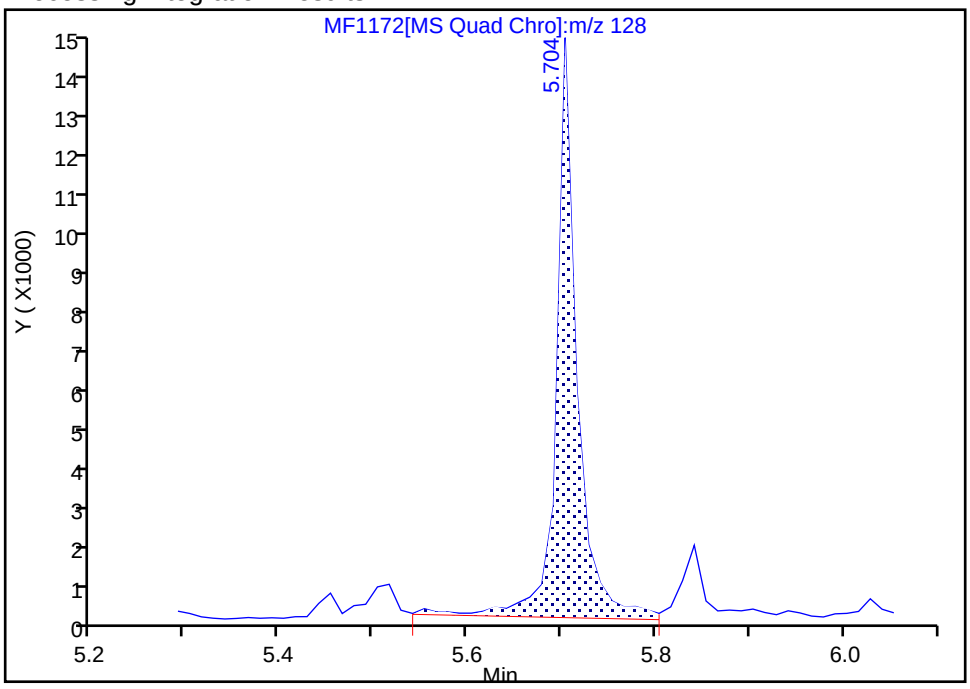
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

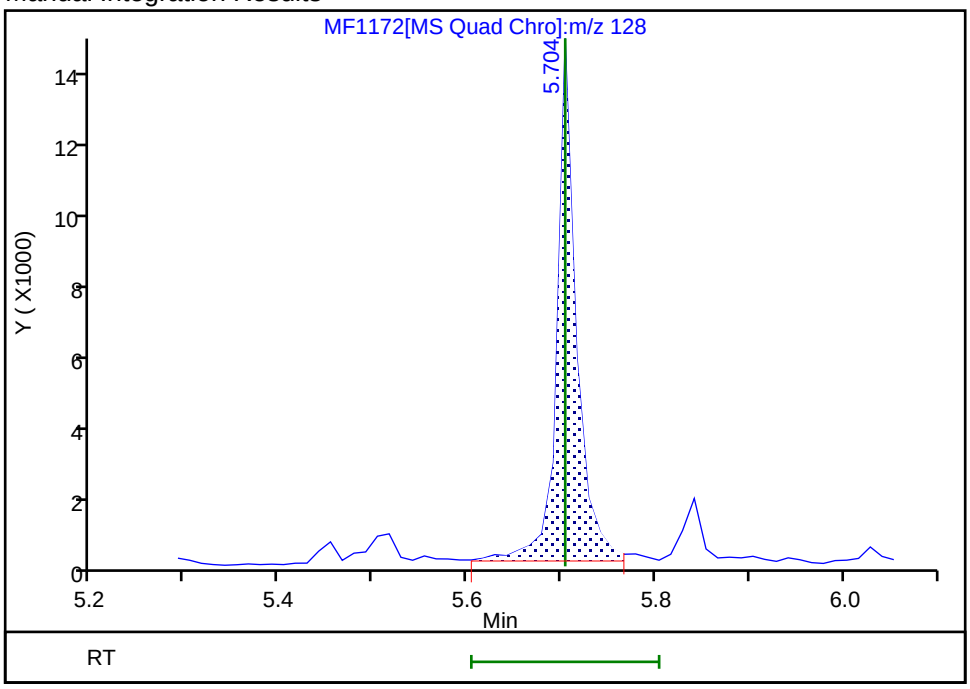
Processing Integration Results

RT: 5.70
Area: 20980
Amount: 0.016327
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 19569
Amount: 0.015229
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:16:22 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

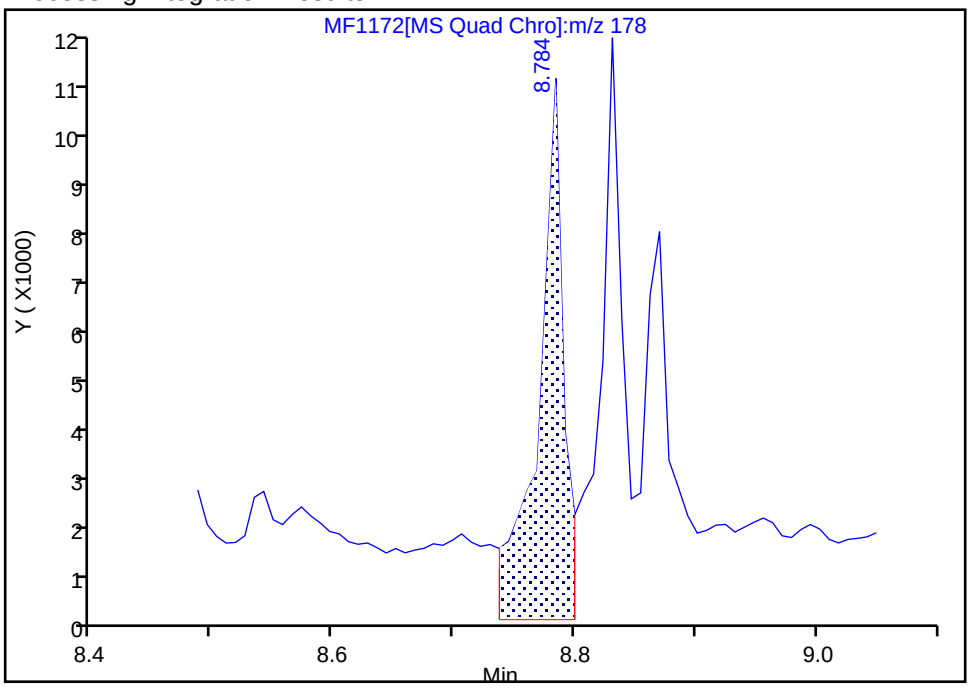
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

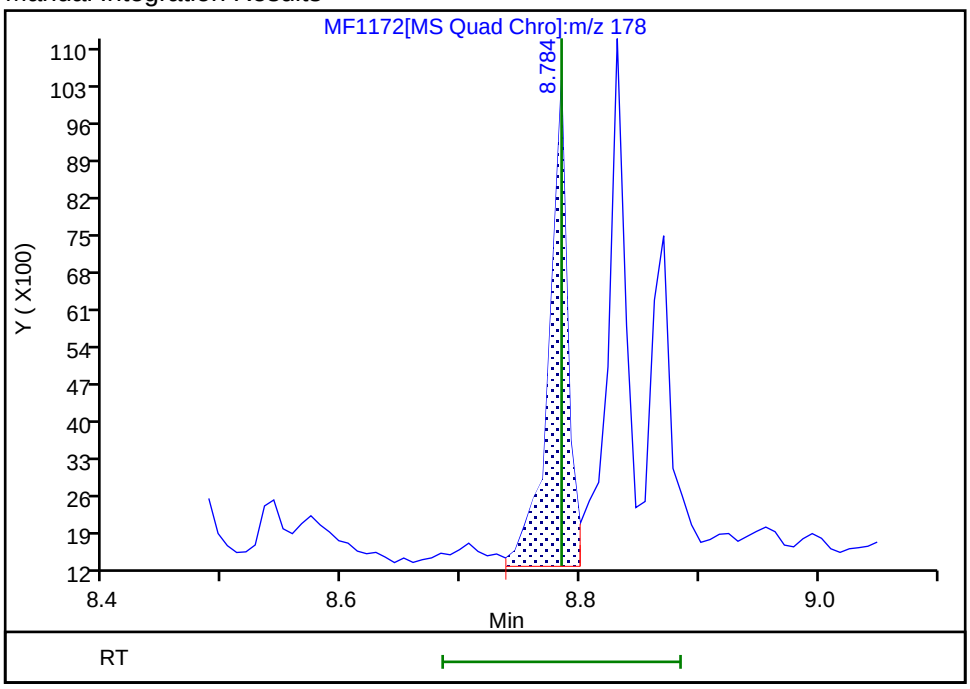
Processing Integration Results

RT: 8.78
Area: 14539
Amount: 0.008783
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 9915
Amount: 0.005989
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:16:49 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

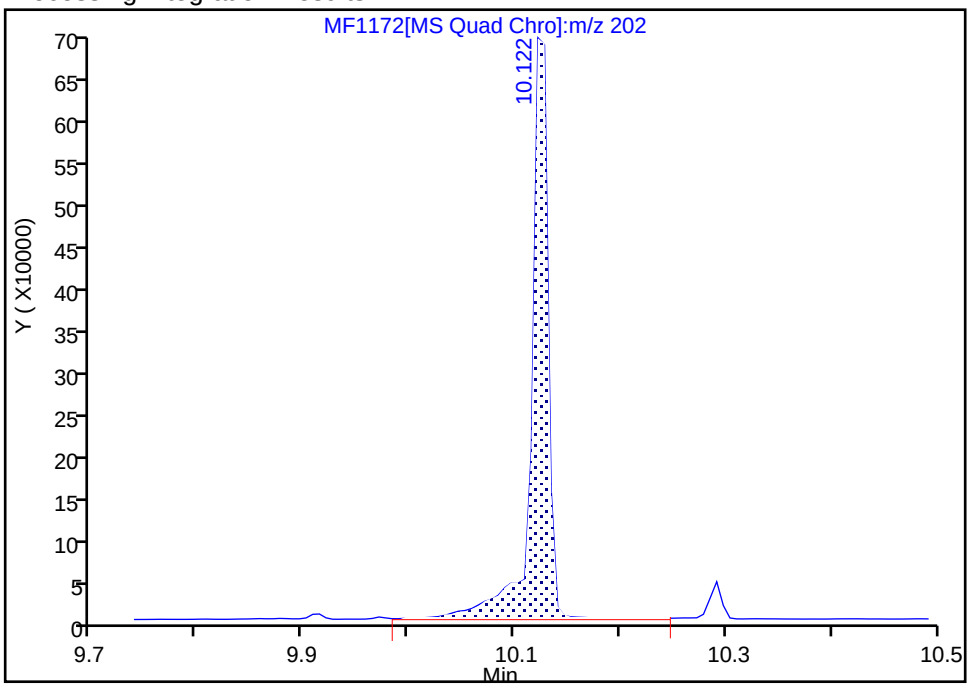
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

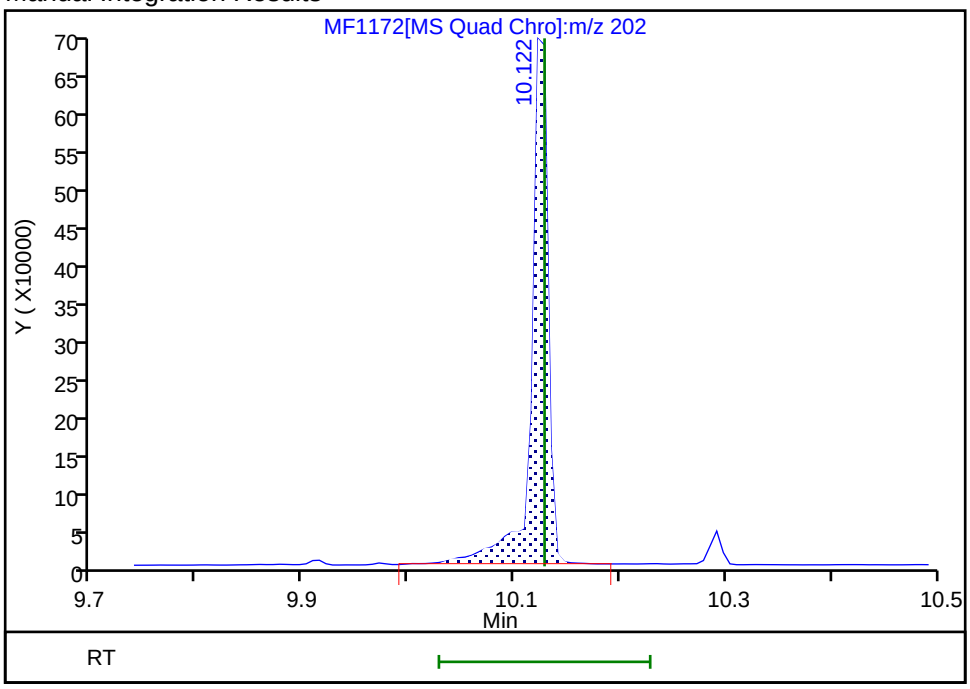
Processing Integration Results

RT: 10.12
Area: 812206
Amount: 0.405413
Amount Units: ug/ml



Manual Integration Results

RT: 10.12
Area: 780334
Amount: 0.389504
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:17:13 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

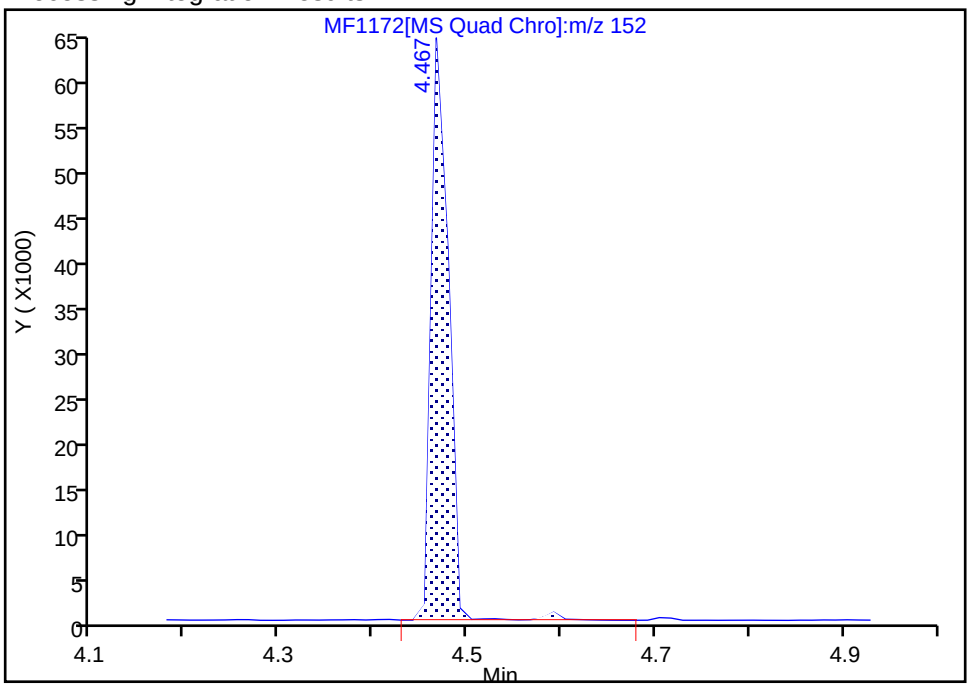
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

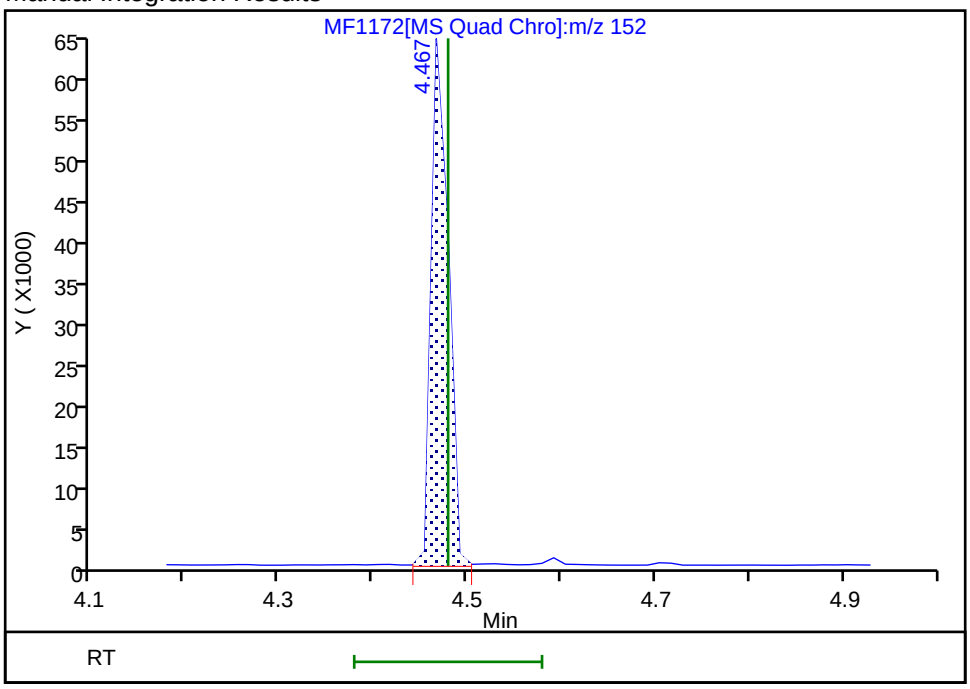
Processing Integration Results

RT: 4.47
Area: 82542
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 4.47
Area: 81209
Amount: 0.250000
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:15:59 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

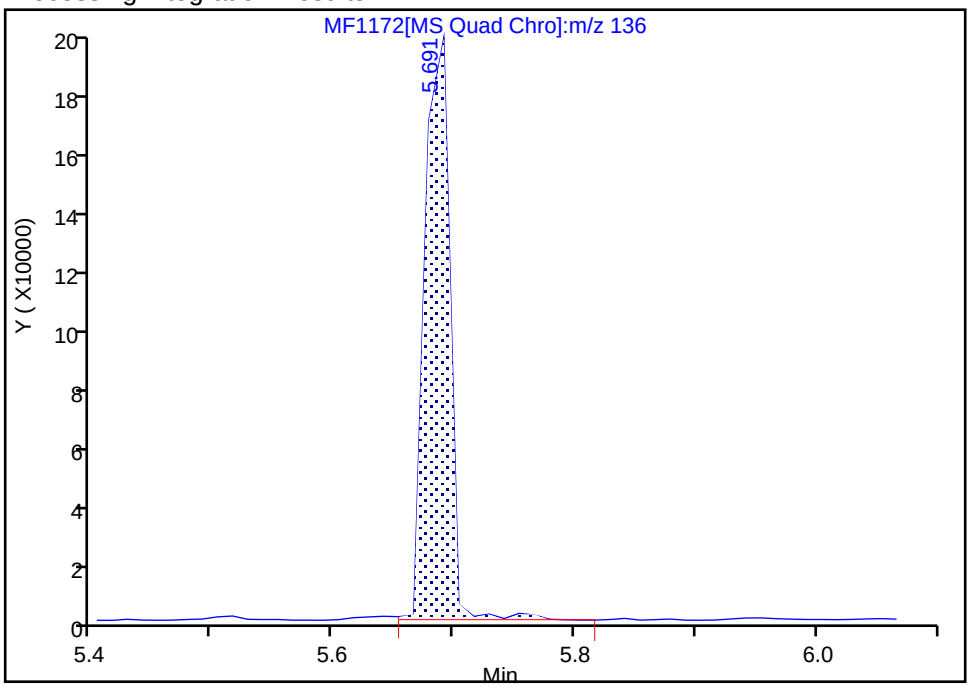
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1172.D				
Injection Date:	16-Jun-2023 12:54:23	Instrument ID:	HP21585		
Lims ID:	410-130132-D-7-A	Lab Sample ID:	410-130132-7		
Client ID:	MW-13S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

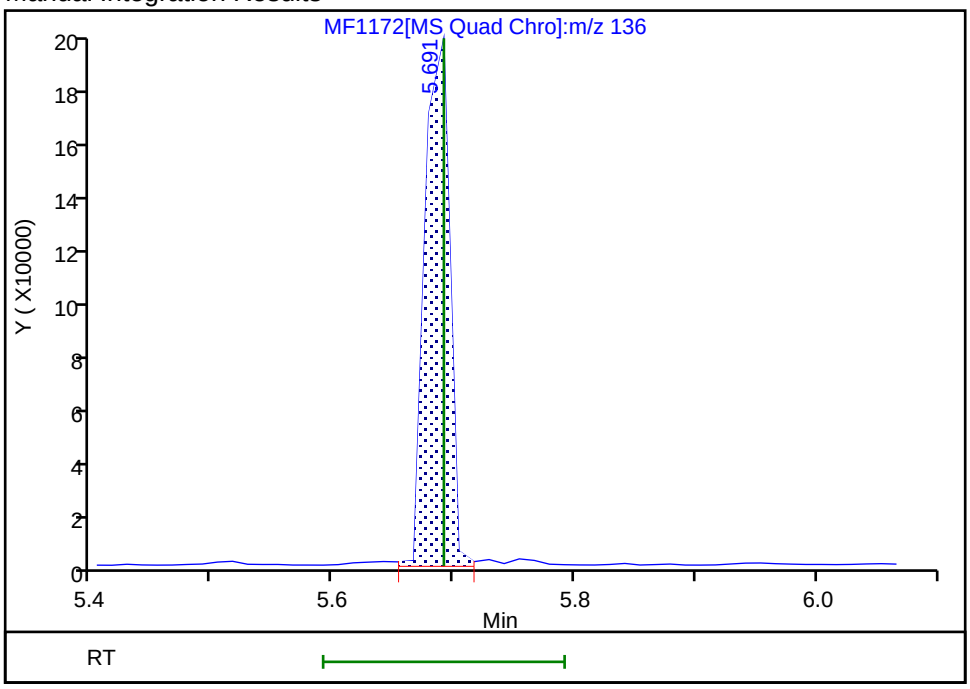
Processing Integration Results

RT: 5.69
Area: 282125
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.69
Area: 276557
Amount: 0.250000
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:16:07 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-13D-20230608
Lab Sample ID: 410-130132-8

Matrix: Water
Lab File ID: MF1173.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 09:27

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 244.1(mL)
Date Analyzed: 06/16/2023 13:15

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	0.013	J	0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	0.045	J	0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	0.013	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	44		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	54		33-120
93951-69-0	Fluoranthene-d10 (Surr)	56		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D
Lims ID: 410-130132-D-8-A
Client ID: MW-13D-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 13:15:51 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-8-A
Misc. Info.: 410-0086777-024
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:19:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.466	4.479	-0.013	99	81137	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	265692	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	93	13517	0.0109	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.419	0.000	97	86696	0.1340	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	95	163529	0.2500	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	323387	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	205658	0.1391	
25 Fluoranthene	202	9.915	9.915	0.000	99	5697	0.003159	M
26 Pyrene	202	10.128	10.128	0.000	97	6670	0.003205	M
* 29 Chrysene-d12	240	11.372	11.372	0.000	55	324053	0.2500	
30 Chrysene	228	11.403	11.388	0.000	100	3339	0.001618	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	152776	0.1106	
* 38 Perylene-d12	264	13.243	13.244	-0.001	100	375664	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.778	14.778	0.007	100	1786	0.001081	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

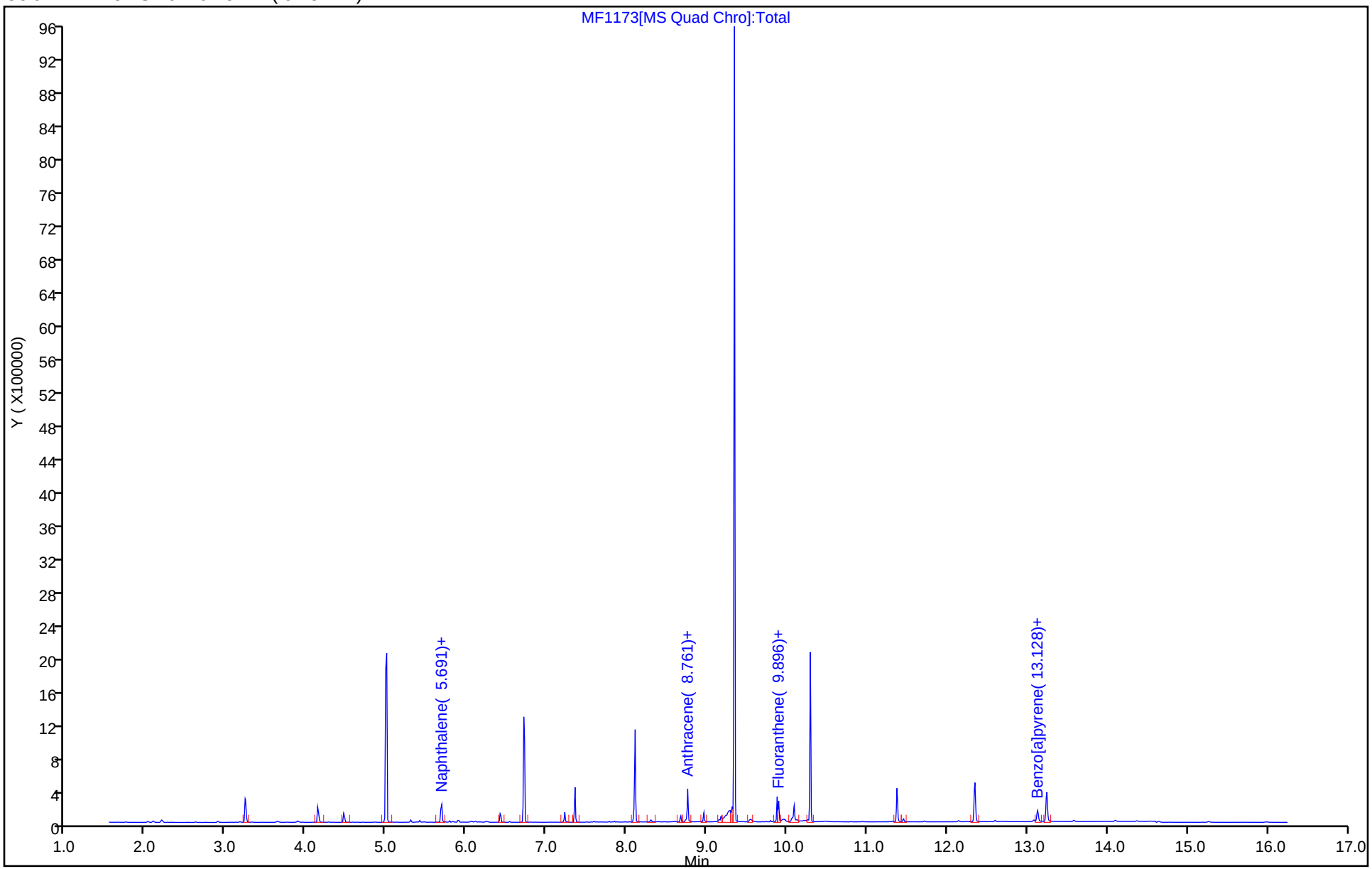
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 12:32:51 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8	Worklist Smp#:	24
Client ID:	MW-13D-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Lims ID:	410-130132-D-8-A				
Client ID:	MW-13D-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 13:15:51	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-8-A				
Misc. Info.:	410-0086777-024				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

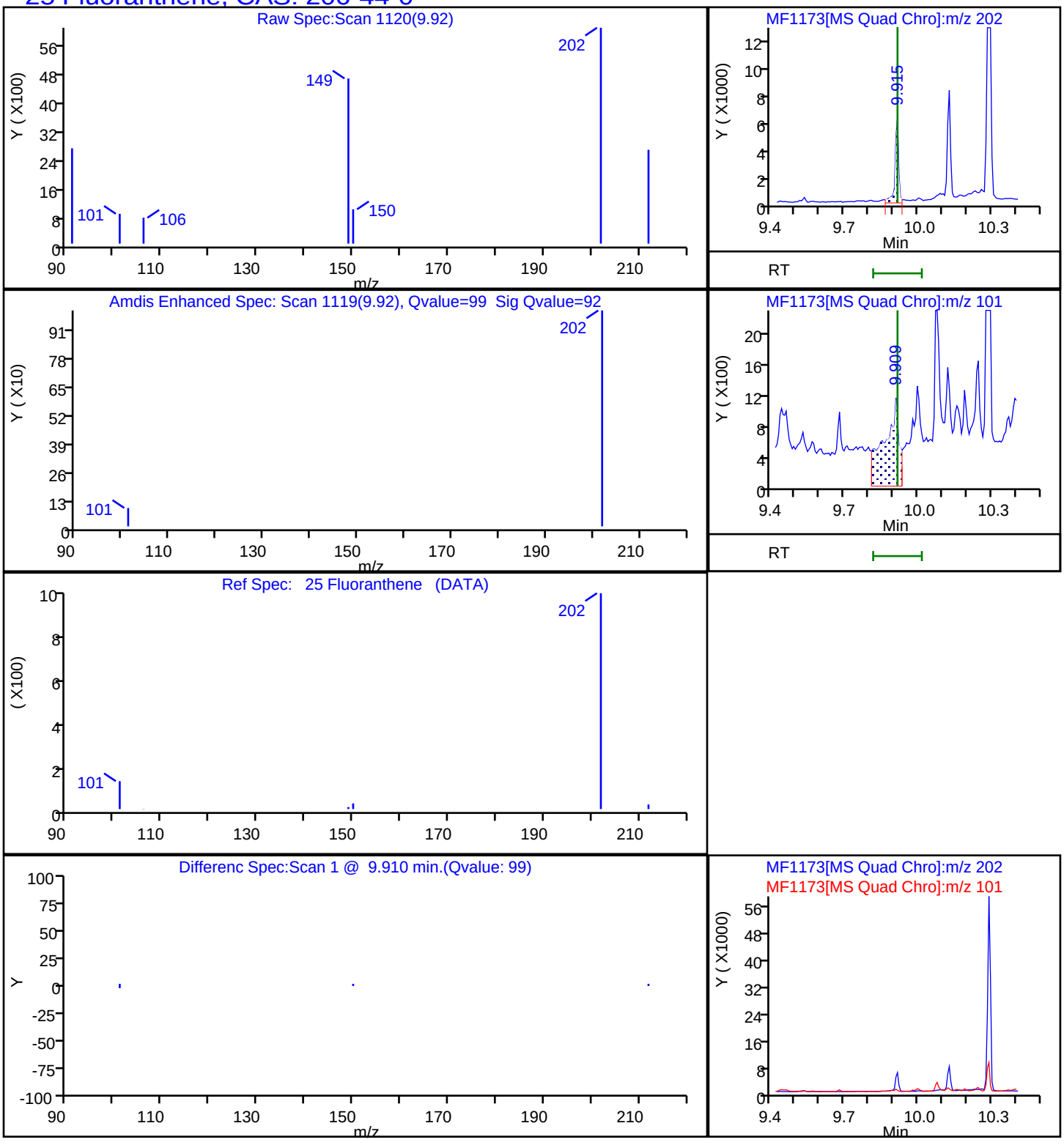
First Level Reviewer: SJ89 Date: 19-Jun-2023 12:19:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1340	53.61
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1391	55.65
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1106	44.24

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D		
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8
Client ID:	MW-13D-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

25 Fluoranthene, CAS: 206-44-0

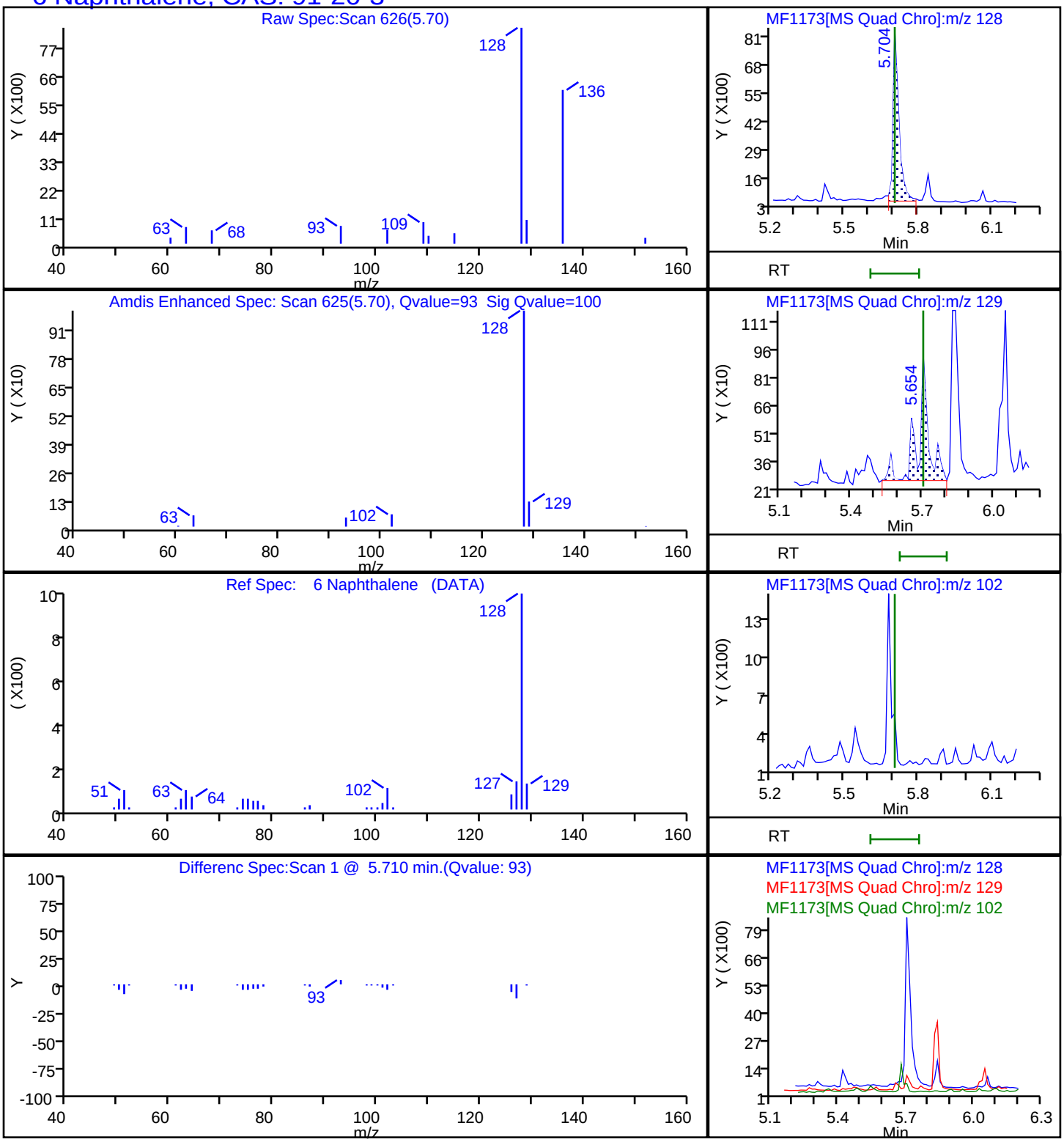


Report Date: 19-Jun-2023 12:32:51 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585		
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8		
Client ID:	MW-13D-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

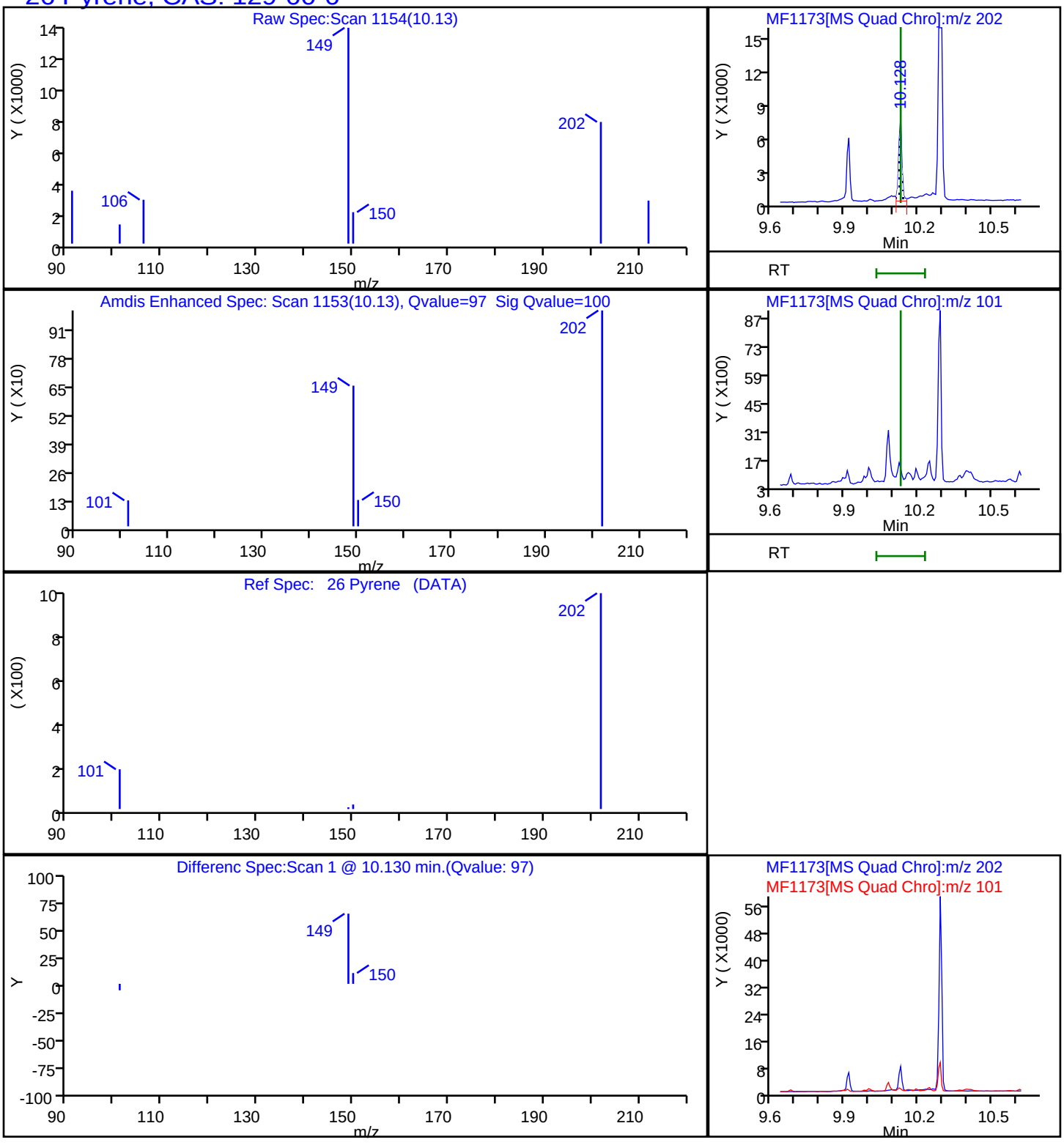


Report Date: 19-Jun-2023 12:32:51 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585		
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8		
Client ID:	MW-13D-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

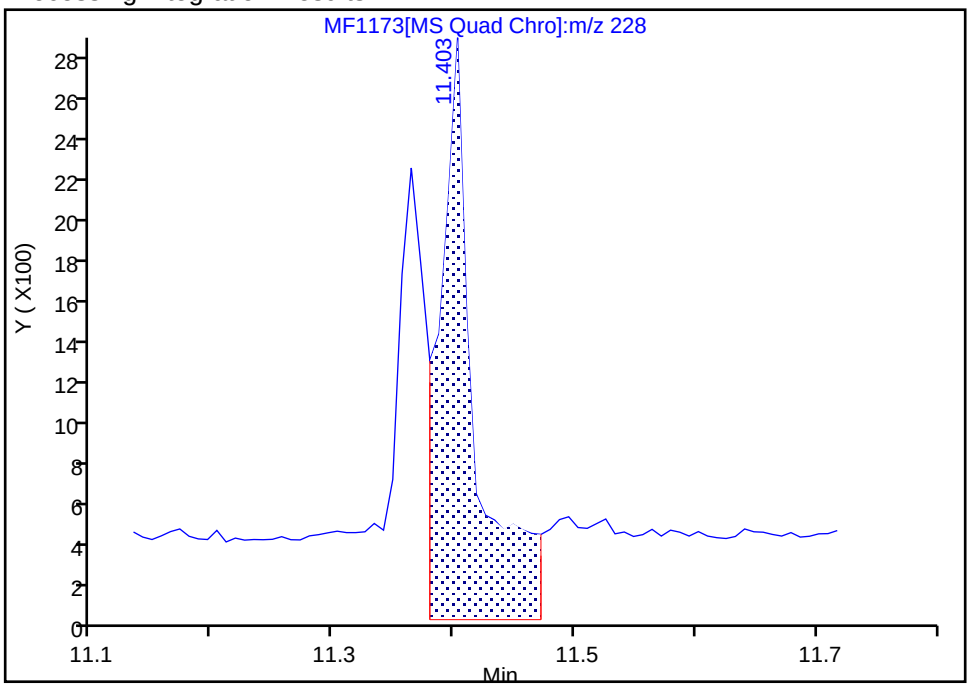
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585		
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8		
Client ID:	MW-13D-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

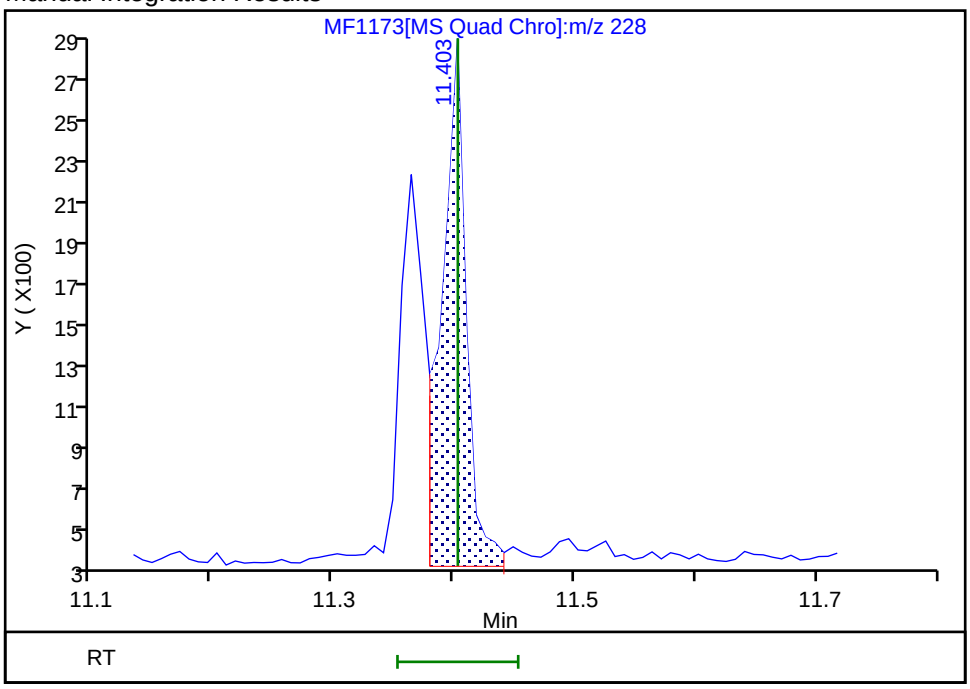
Processing Integration Results

RT: 11.40
Area: 5575
Amount: 0.002701
Amount Units: ug/ml



Manual Integration Results

RT: 11.40
Area: 3339
Amount: 0.001618
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:19:08 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

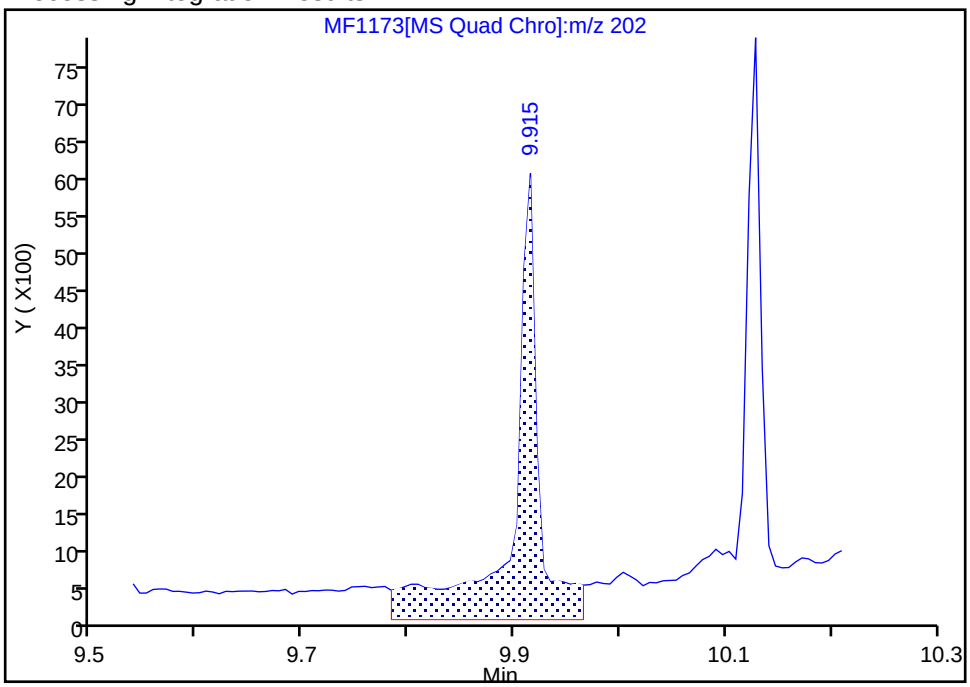
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585		
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8		
Client ID:	MW-13D-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

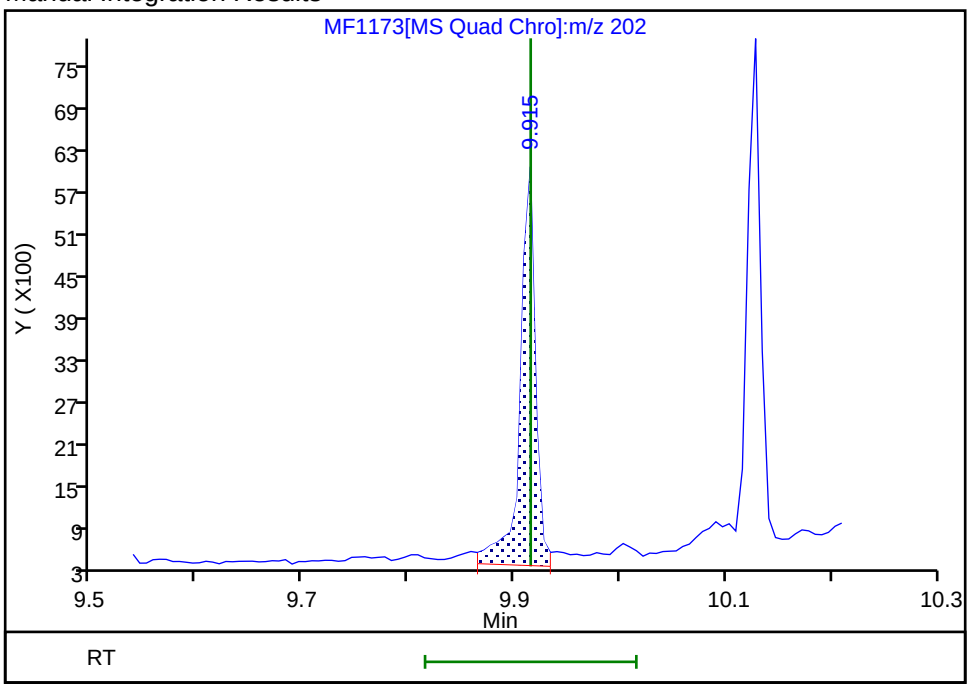
Processing Integration Results

RT: 9.92
Area: 10365
Amount: 0.005748
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 5697
Amount: 0.003159
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:18:50 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

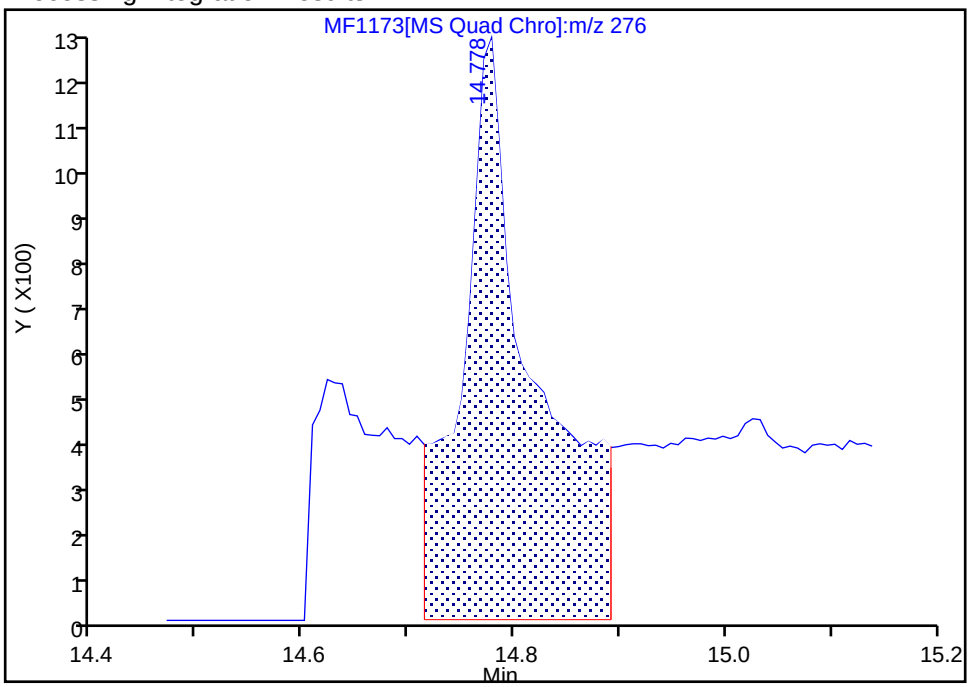
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585		
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8		
Client ID:	MW-13D-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

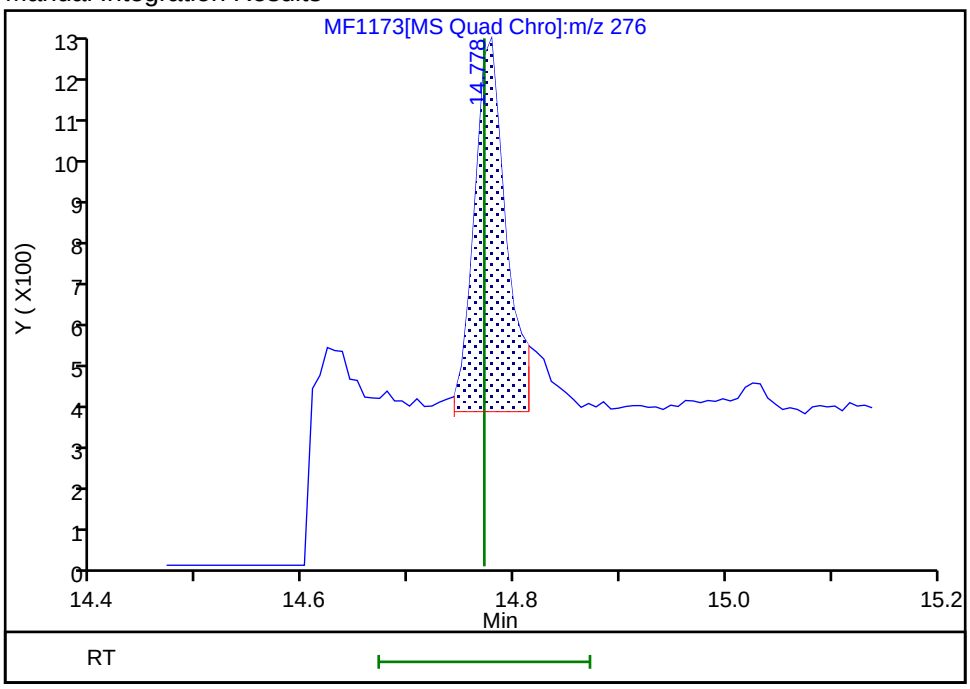
Processing Integration Results

RT: 14.78
Area: 5899
Amount: 0.003572
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 1786
Amount: 0.001081
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:19:19 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

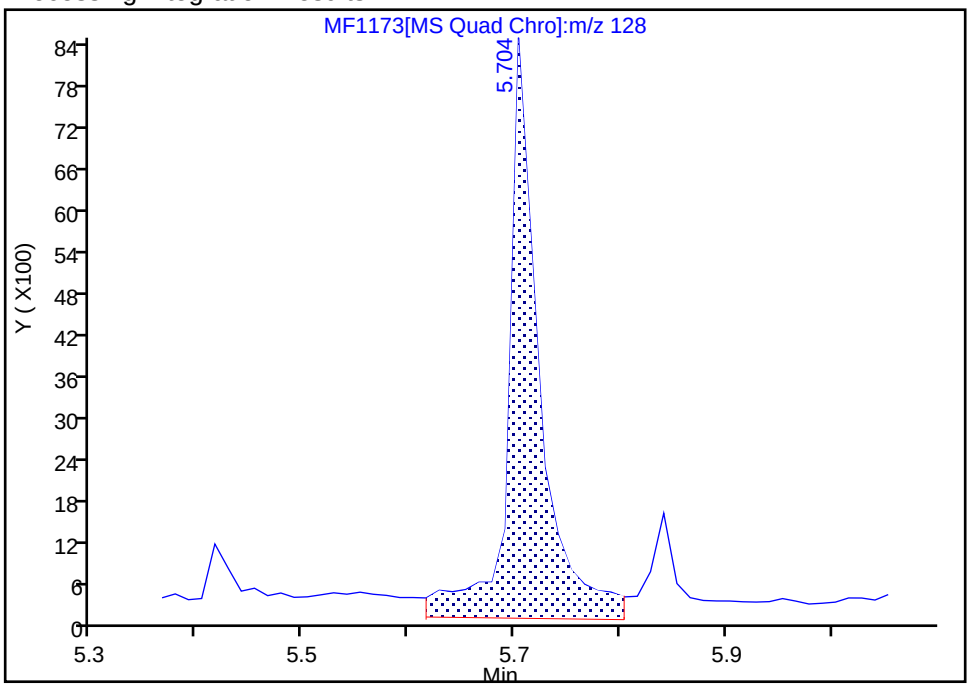
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585		
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8		
Client ID:	MW-13D-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

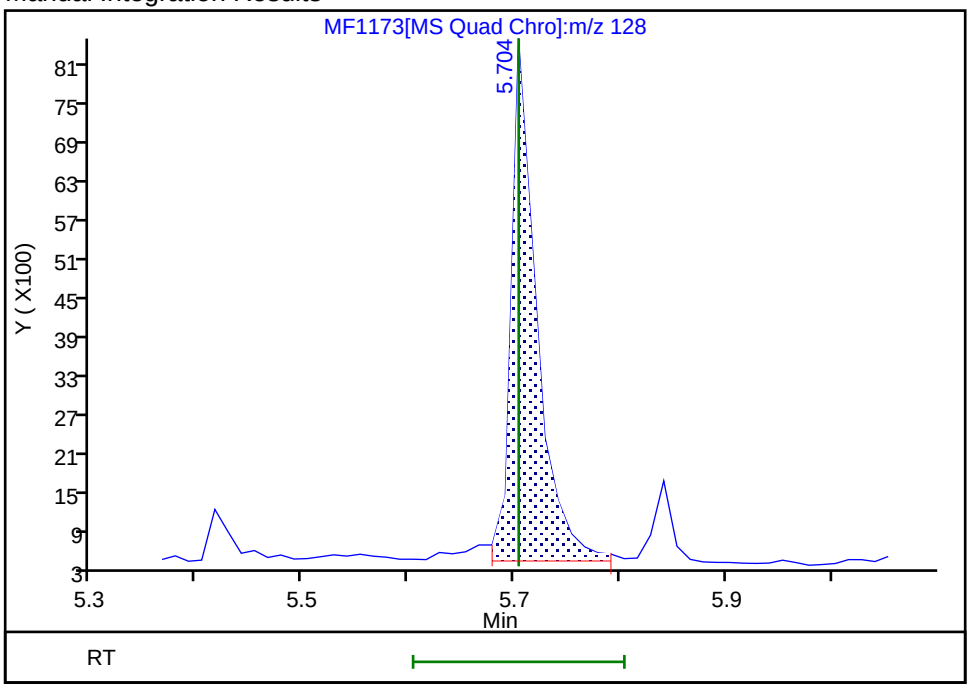
Processing Integration Results

RT: 5.70
Area: 17255
Amount: 0.013977
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 13517
Amount: 0.010949
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:18:40 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

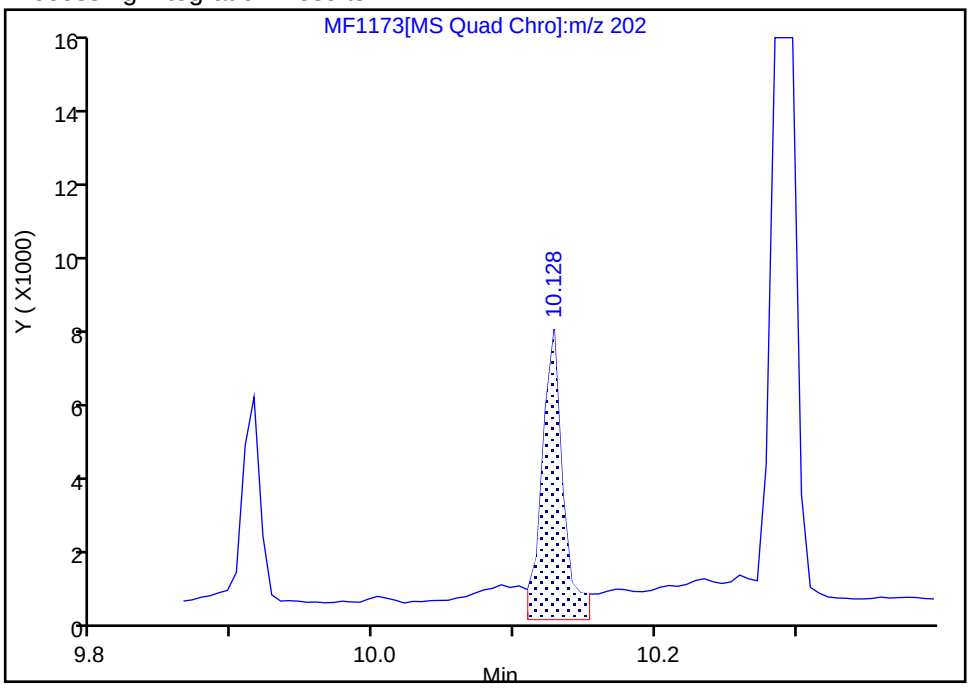
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1173.D				
Injection Date:	16-Jun-2023 13:15:51	Instrument ID:	HP21585		
Lims ID:	410-130132-D-8-A	Lab Sample ID:	410-130132-8		
Client ID:	MW-13D-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

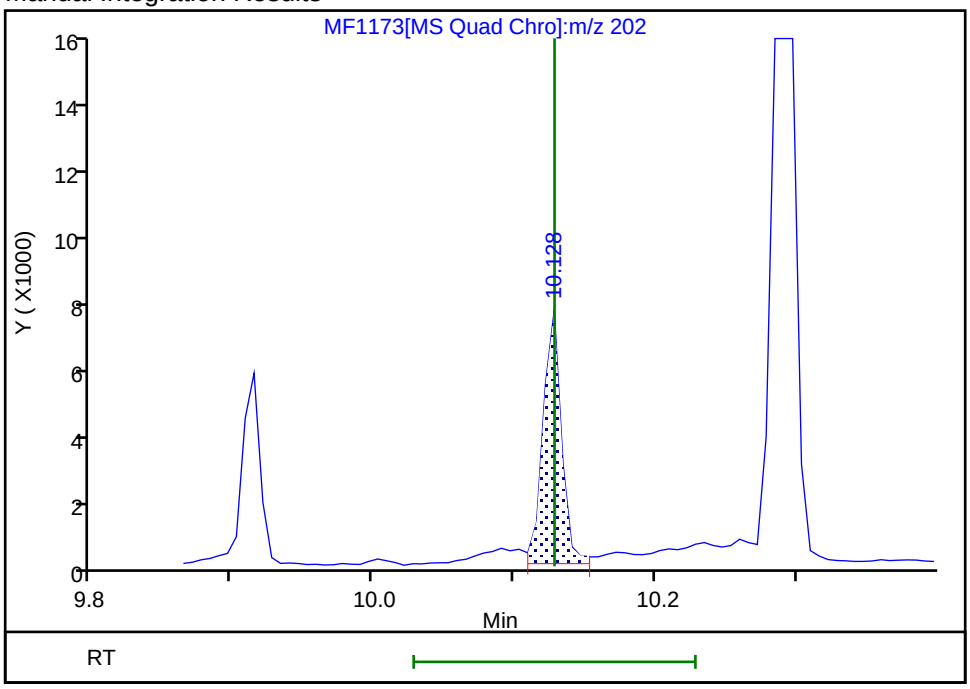
Processing Integration Results

RT: 10.13
Area: 7990
Amount: 0.003839
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 6670
Amount: 0.003205
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:18:57 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-1-20230608
Lab Sample ID: 410-130132-9

Matrix: Water
Lab File ID: MF1174.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 10:35

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 244.3(mL)
Date Analyzed: 06/16/2023 13:37

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	0.013	J	0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	0.091		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	ND		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	68		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		33-120
93951-69-0	Fluoranthene-d10 (Surr)	82		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D
Lims ID: 410-130132-D-9-A
Client ID: MW-1-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 13:37:14 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-9-A
Misc. Info.: 410-0086777-025
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:20:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.466	4.479	-0.013	89	83474	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	281820	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	91	29025	0.0222	M
$ 9 1-Methylnaphthalene-d10	152	6.419	6.419	-0.010	96	129739	0.1891	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	169164	0.2500	
17 Fluorene	166	7.871	7.871	0.000	97	3434	0.003281	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	333937	0.2500	
22 Anthracene	178	8.831	8.831	0.000	99	774	0.000537	7M
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	313109	0.2051	
25 Fluoranthene	202	9.915	9.915	0.000	84	2944	0.001581	7M
26 Pyrene	202	10.128	10.128	0.000	90	4241	0.001978	7M
* 29 Chrysene-d12	240	11.372	11.372	0.000	58	333917	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	234978	0.1706	
* 38 Perylene-d12	264	13.243	13.244	-0.001	100	374660	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	98	786	0.000477	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

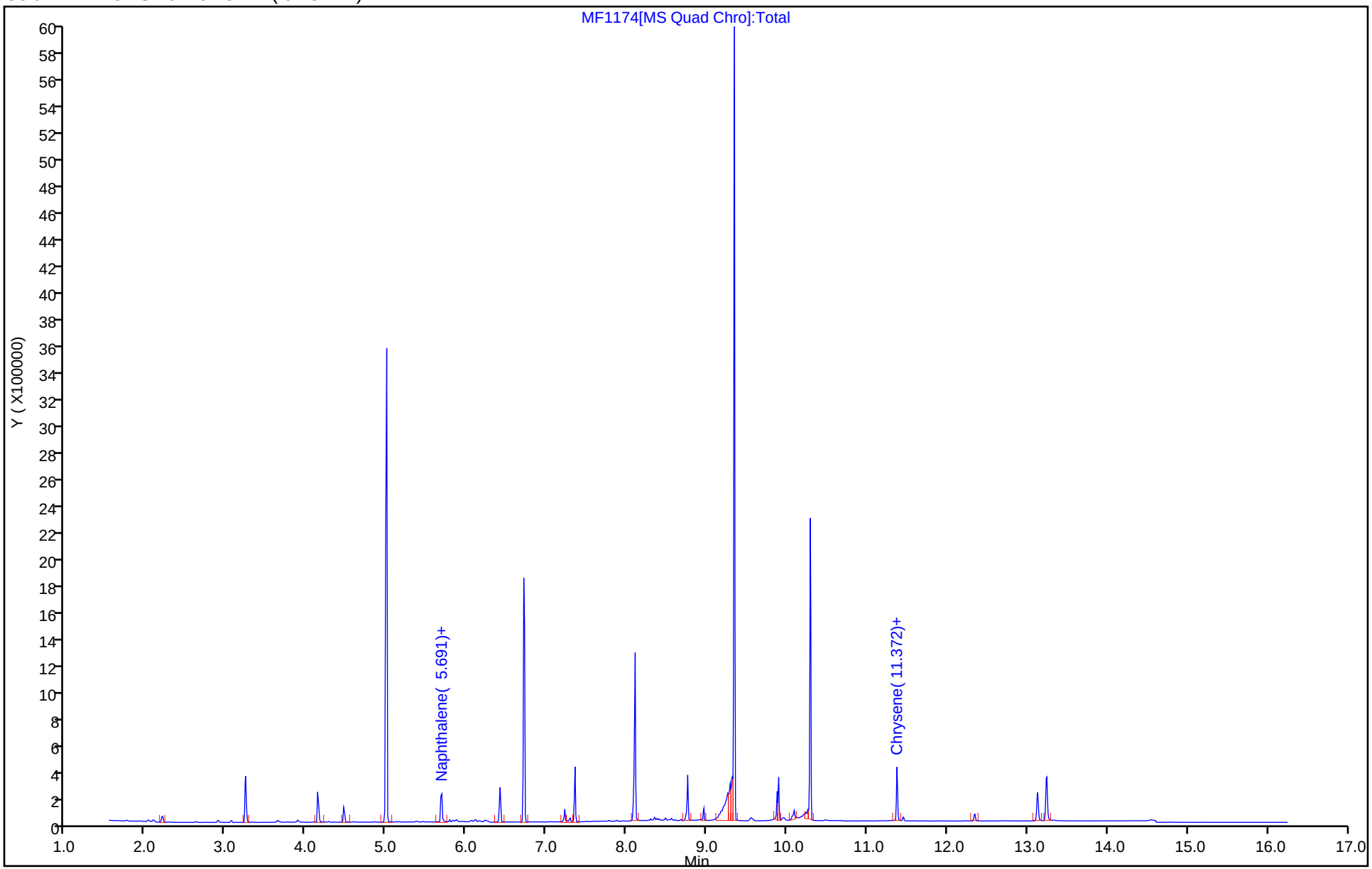
Report Date: 19-Jun-2023 12:32:53 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D

Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9	Worklist Smp#:	25
Client ID:	MW-1-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Lims ID:	410-130132-D-9-A				
Client ID:	MW-1-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 13:37:14	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-9-A				
Misc. Info.:	410-0086777-025				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:20:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1891	75.63
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2051	82.05
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1706	68.22

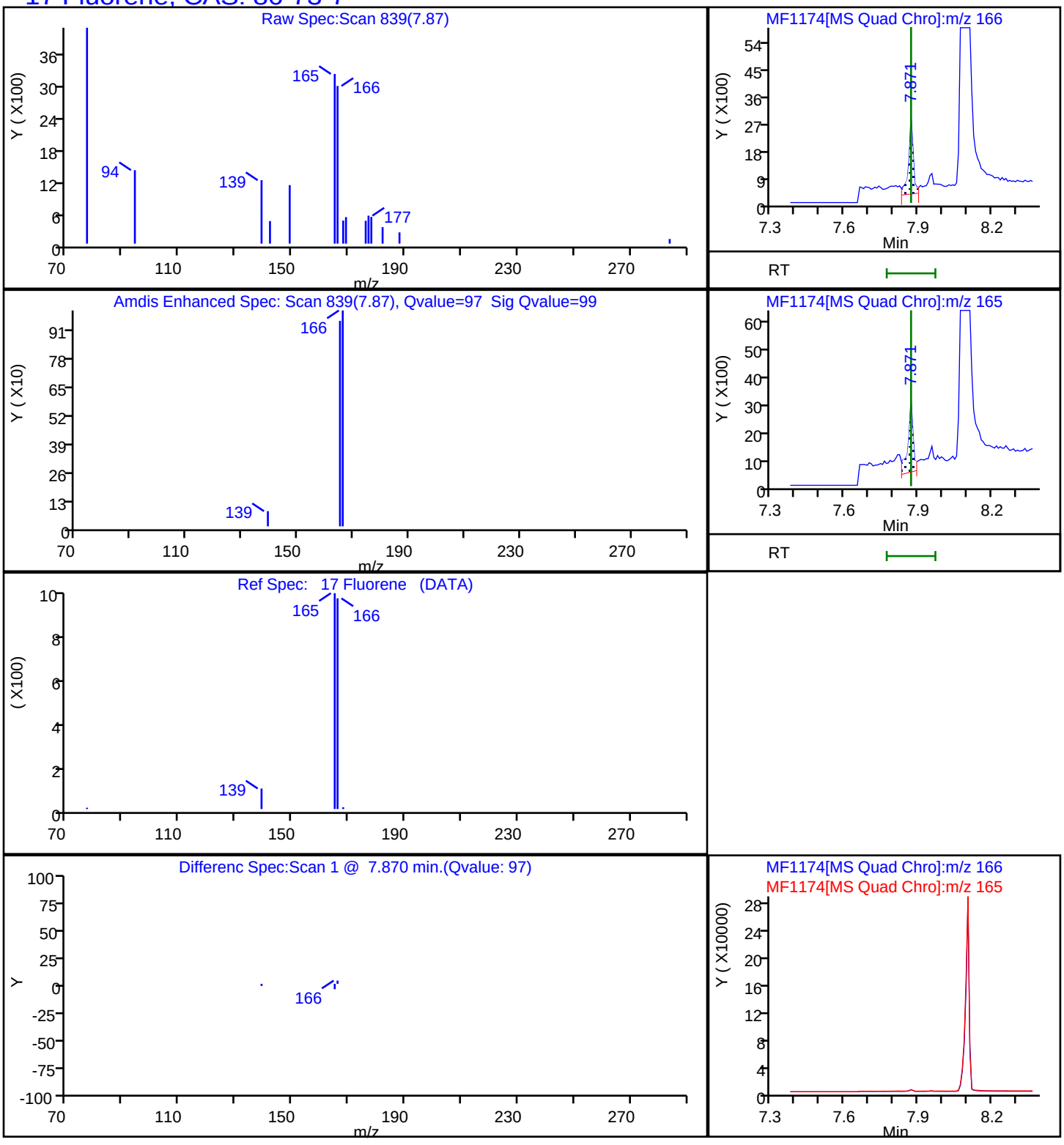
Report Date: 19-Jun-2023 12:32:53 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D

Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7



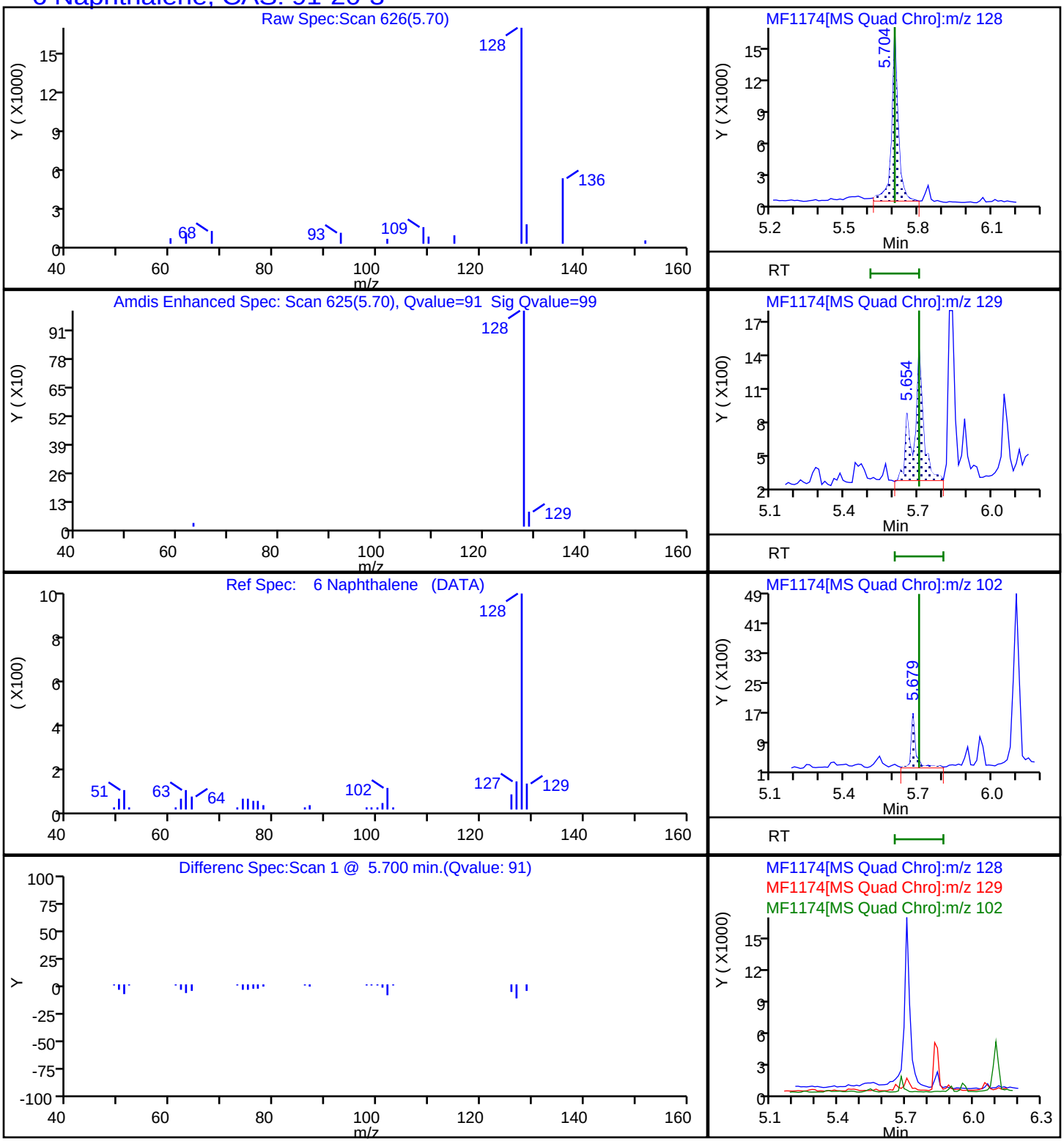
Report Date: 19-Jun-2023 12:32:53 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D

Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



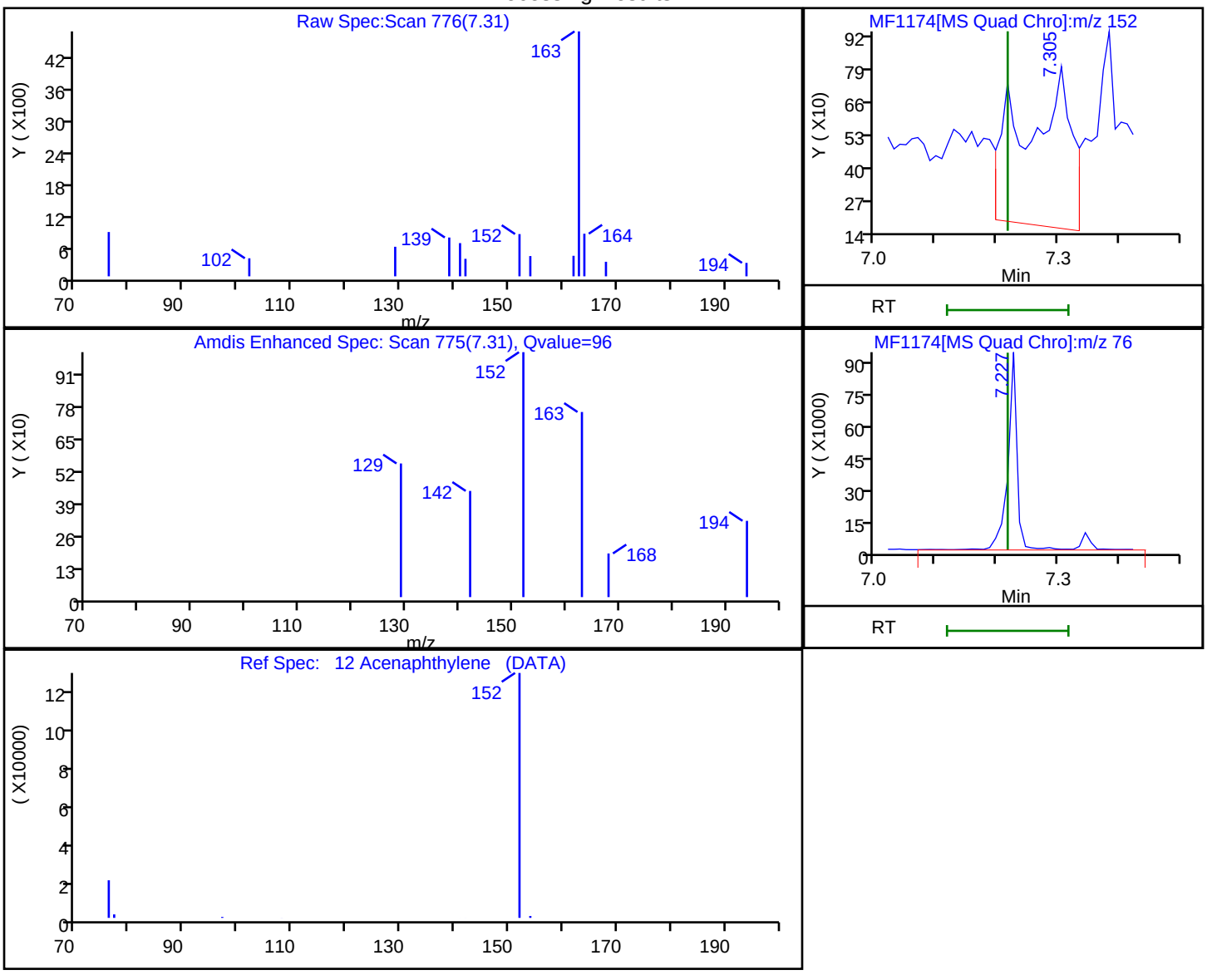
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
7.31	152.00	3323	0.002628
7.23	76.00	113319	

Reviewer: SJ89, 19-Jun-2023 12:19:48 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

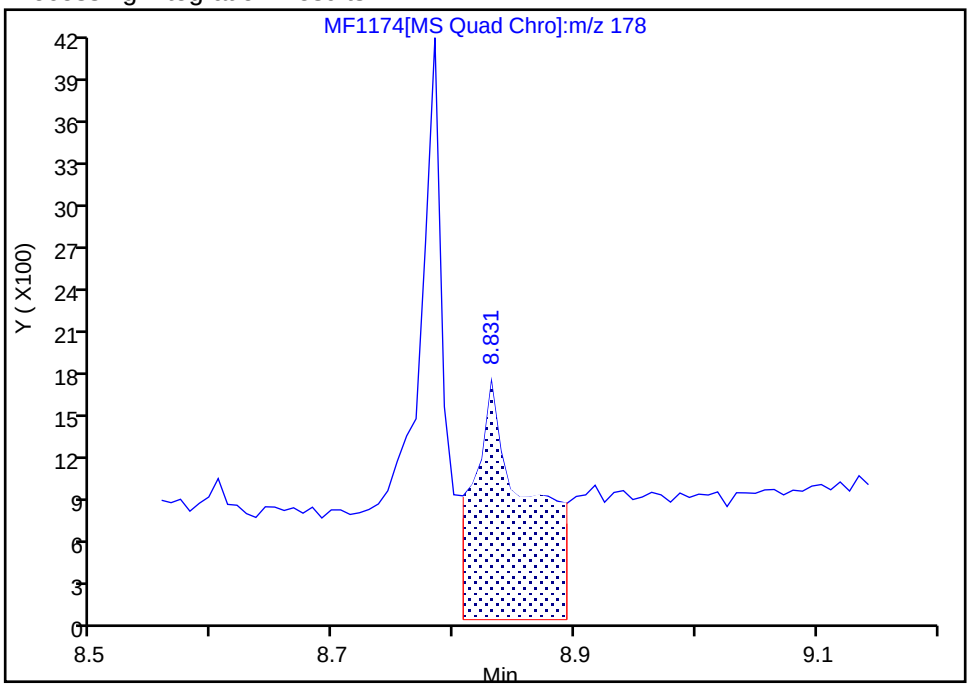
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

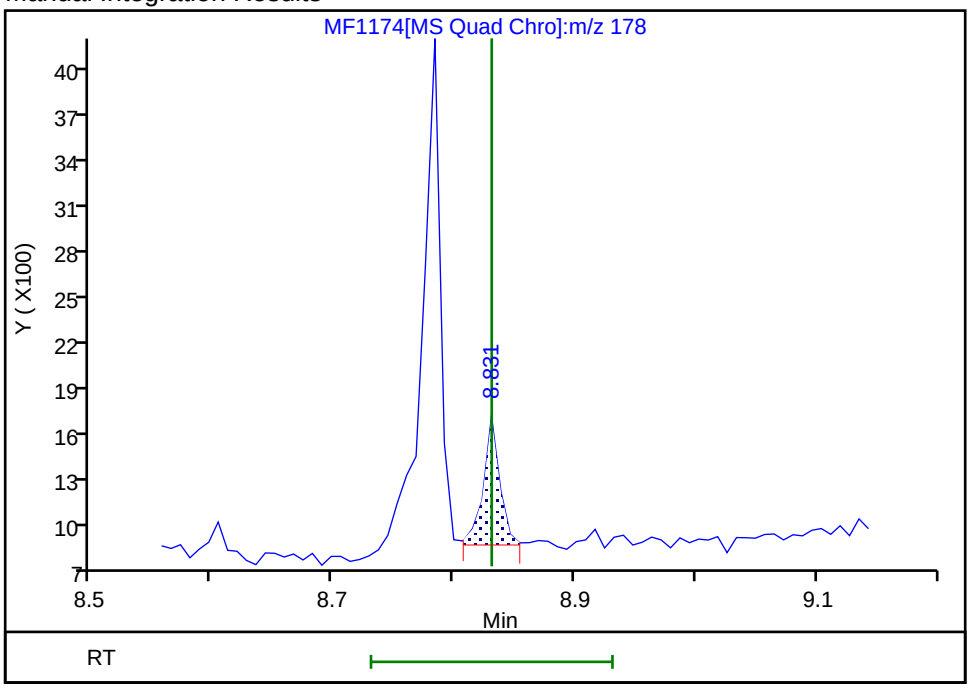
Processing Integration Results

RT: 8.83
Area: 5190
Amount: 0.003600
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 774
Amount: 0.000537
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:20:09 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

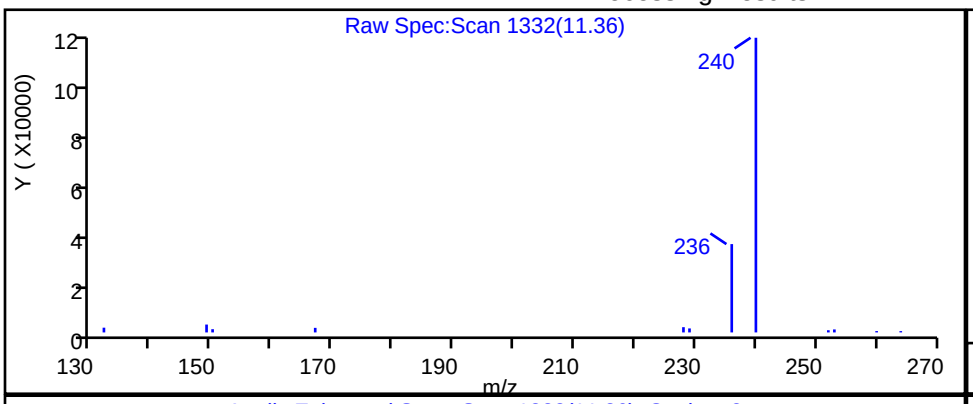
User Disabled Compound Report

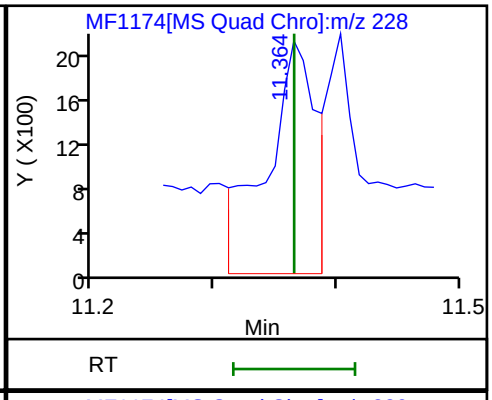
Eurofins Lancaster Laboratories Environment Testing, LLC

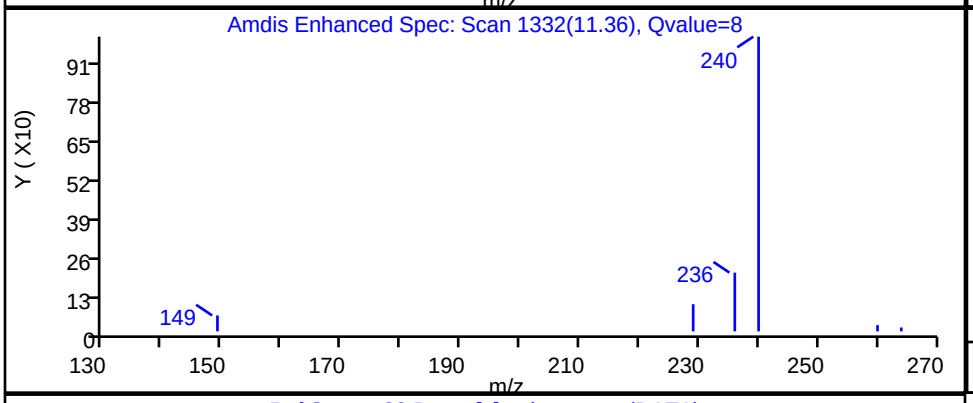
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

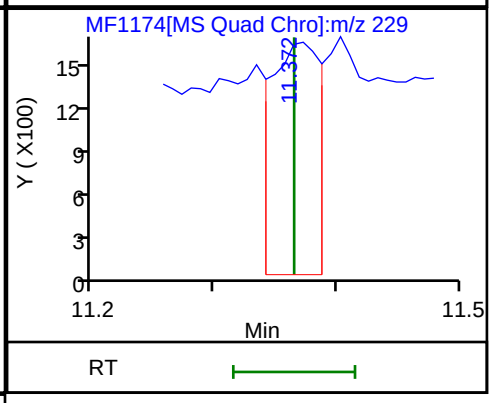
28 Benzo[a]anthracene, CAS: 56-55-3

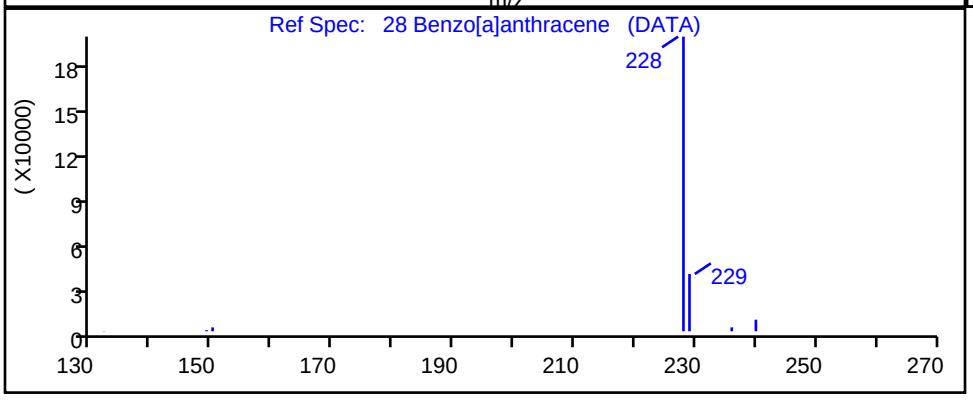
Processing Results











RT	Mass	Response	Amount
11.36	228.00	5787	0.003310
11.37	229.00	4208	

Reviewer: SJ89, 19-Jun-2023 12:20:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

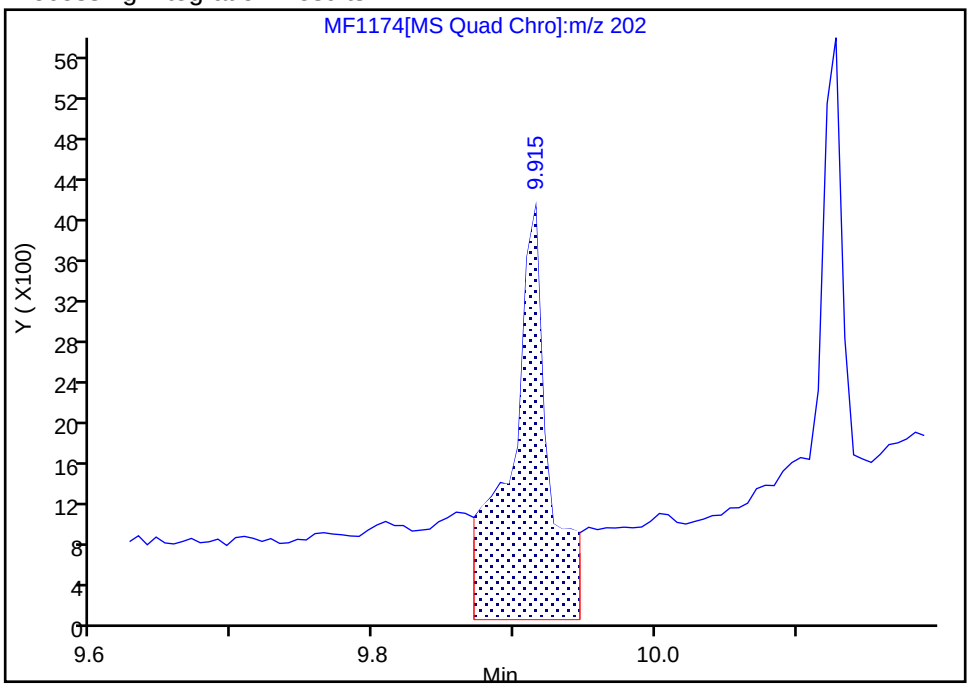
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

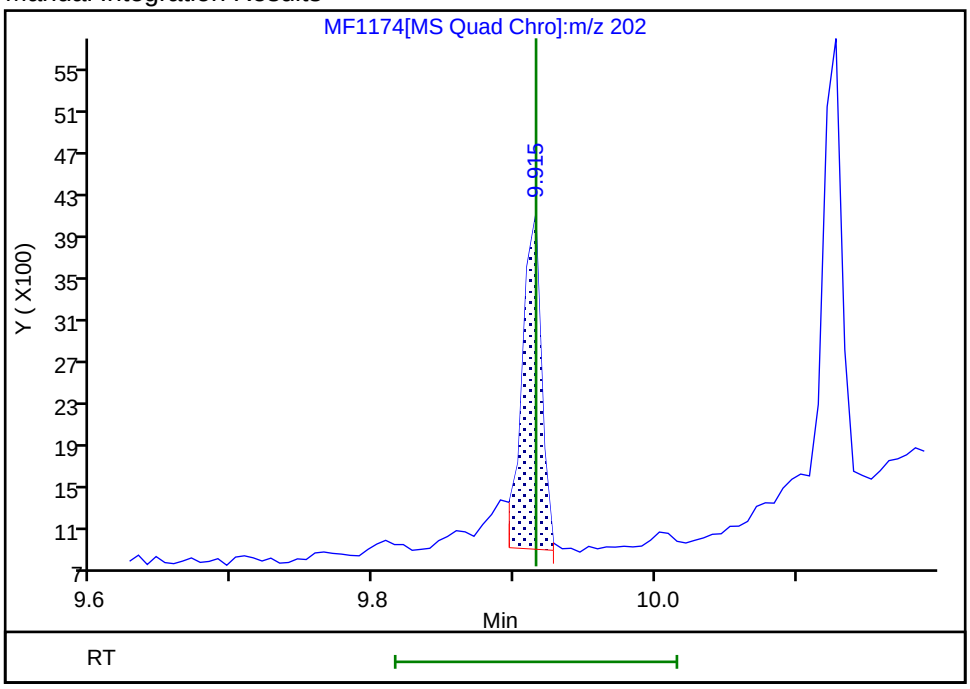
Processing Integration Results

RT: 9.92
Area: 7446
Amount: 0.003999
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 2944
Amount: 0.001581
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:20:16 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

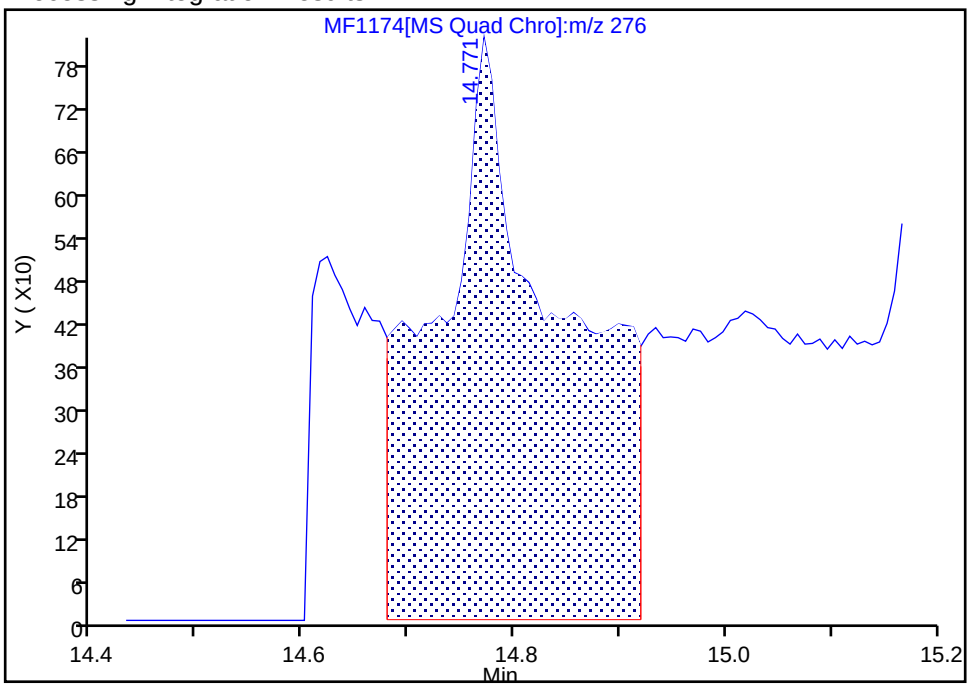
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

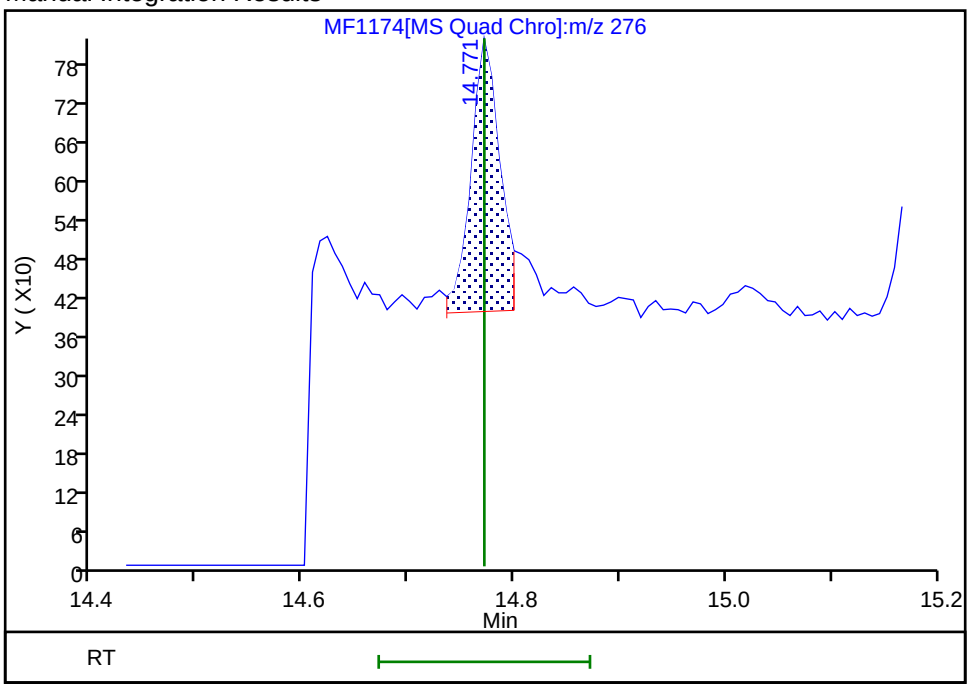
Processing Integration Results

RT: 14.77
Area: 6720
Amount: 0.004080
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 786
Amount: 0.000477
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:20:43 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

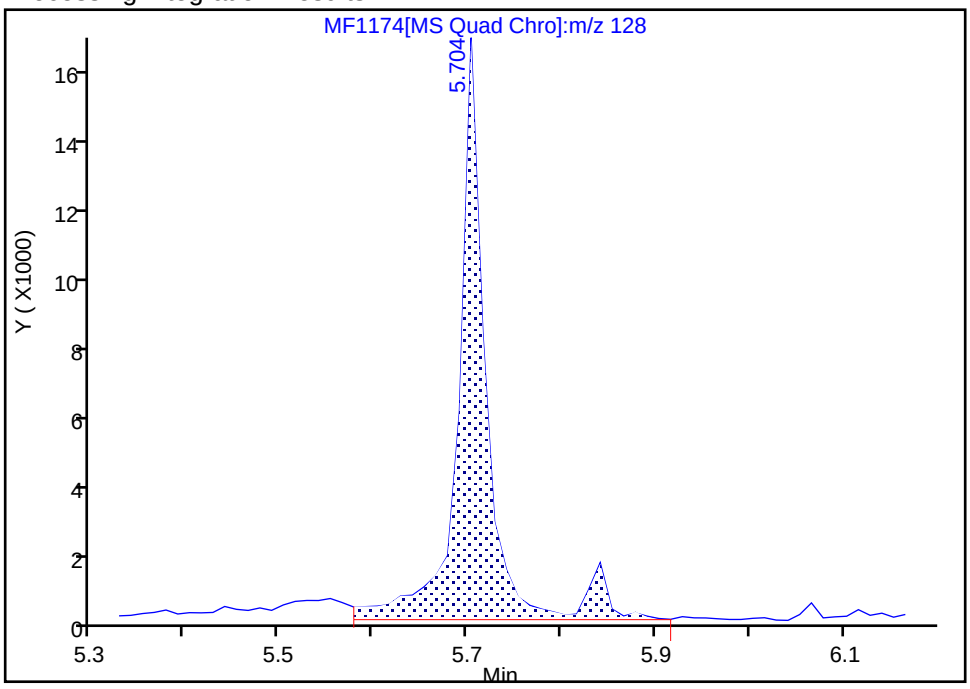
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

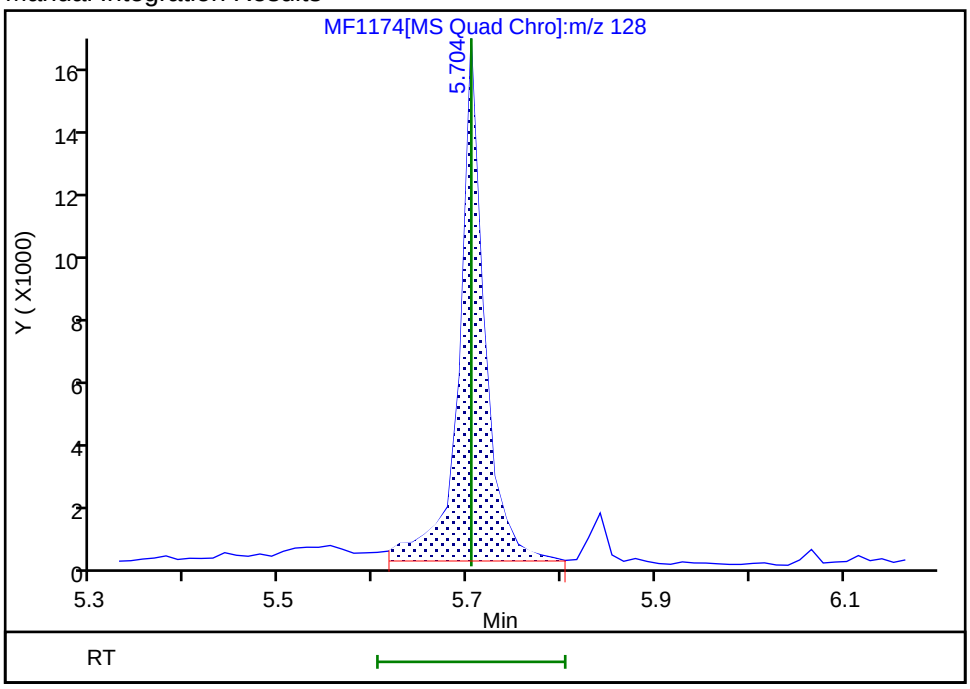
Processing Integration Results

RT: 5.70
Area: 33605
Amount: 0.025664
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 29025
Amount: 0.022166
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:19:44 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

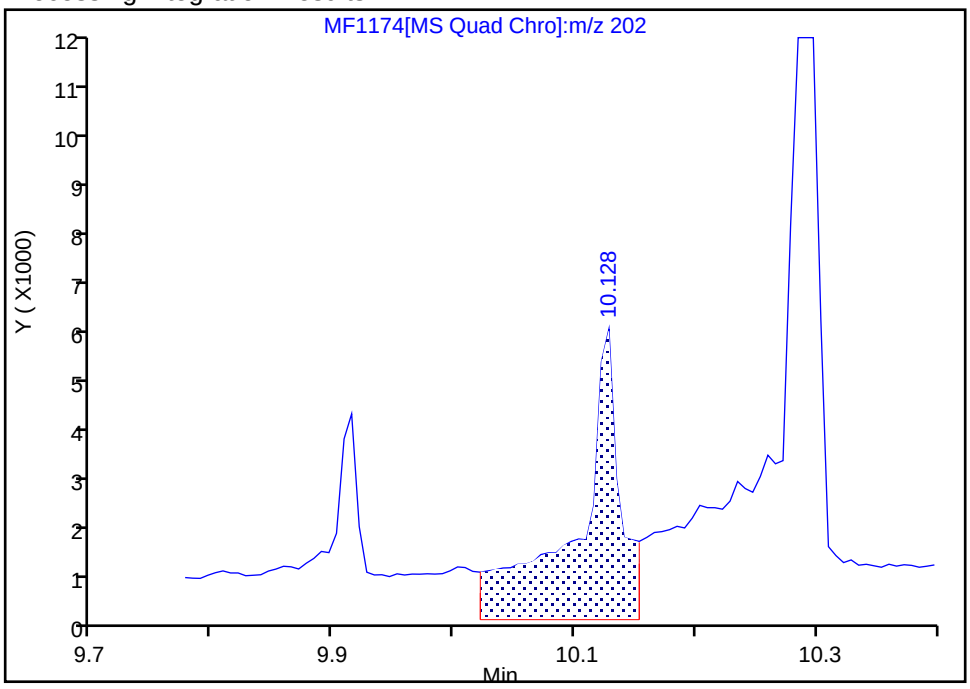
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1174.D				
Injection Date:	16-Jun-2023 13:37:14	Instrument ID:	HP21585		
Lims ID:	410-130132-D-9-A	Lab Sample ID:	410-130132-9		
Client ID:	MW-1-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

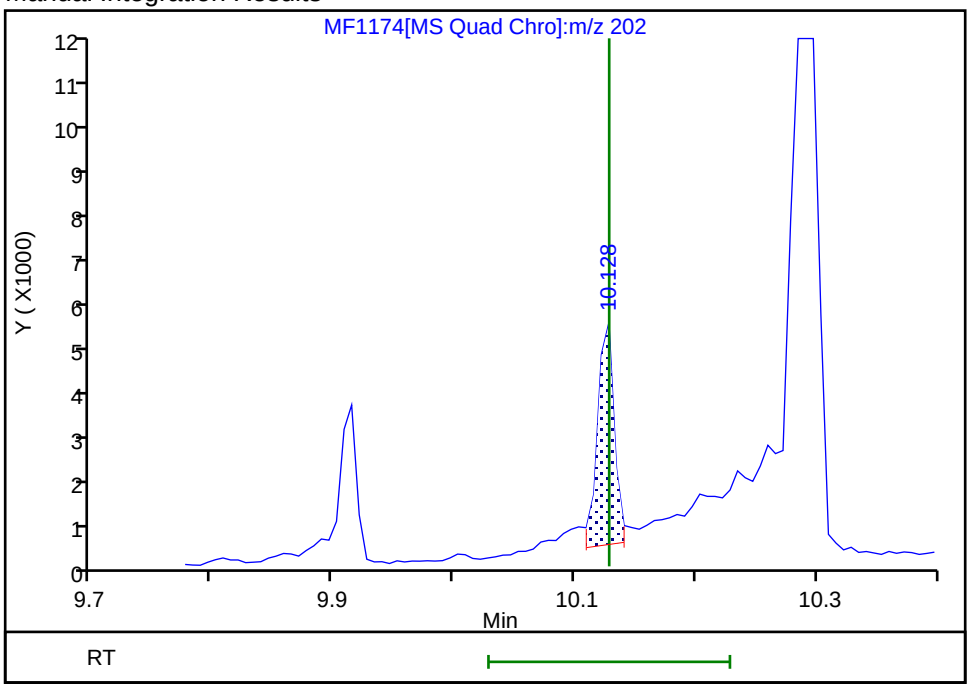
Processing Integration Results

RT: 10.13
Area: 14174
Amount: 0.006610
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 4241
Amount: 0.001978
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:20:26 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-4S-20230608
Lab Sample ID: 410-130132-10

Matrix: Water
Lab File ID: MF1175.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 11:34

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 231.7(mL)
Date Analyzed: 06/16/2023 13:58

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.054	0.011
208-96-8	Acenaphthylene	0.051	J	0.054	0.011
120-12-7	Anthracene	0.084		0.054	0.011
56-55-3	Benzo[a]anthracene	ND		0.054	0.011
50-32-8	Benzo[a]pyrene	ND		0.054	0.011
205-99-2	Benzo[b]fluoranthene	ND		0.054	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.054	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.054	0.011
218-01-9	Chrysene	ND		0.054	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.054	0.022
206-44-0	Fluoranthene	1.2		0.054	0.011
86-73-7	Fluorene	1.4		0.054	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.054	0.022
91-20-3	Naphthalene	0.051	J	0.076	0.032
85-01-8	Phenanthrene	ND		0.076	0.032
129-00-0	Pyrene	0.95		0.054	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	78		33-120
93951-69-0	Fluoranthene-d10 (Surr)	85		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D
Lims ID: 410-130132-D-10-A
Client ID: MW-4S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 13:58:41 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-10-A
Misc. Info.: 410-0086777-026
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:22:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.466	4.479	-0.013	99	71623	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	237777	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	46	13120	0.0119	M
$ 9 1-Methylnaphthalene-d10	152	6.419	6.419	-0.010	96	112554	0.1944	
12 Acenaphthylene	152	7.217	7.217	0.000	39	12932	0.0119	a
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	88	145344	0.2500	
17 Fluorene	166	7.871	7.871	0.000	98	293320	0.3262	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	281117	0.2500	
22 Anthracene	178	8.831	8.831	0.000	100	23532	0.0194	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	272041	0.2117	
25 Fluoranthene	202	9.915	9.915	0.000	100	451855	0.2883	M
26 Pyrene	202	10.122	10.128	-0.006	99	389028	0.2204	
* 29 Chrysene-d12	240	11.372	11.372	0.000	87	274862	0.2500	
30 Chrysene	228	11.387	11.388	-0.016	100	3736	0.002134	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	214941	0.1895	
37 Benzo[a]pyrene	252	13.167	13.167	0.008	92	501	0.000340	7a
* 38 Perylene-d12	264	13.243	13.244	-0.001	100	308435	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

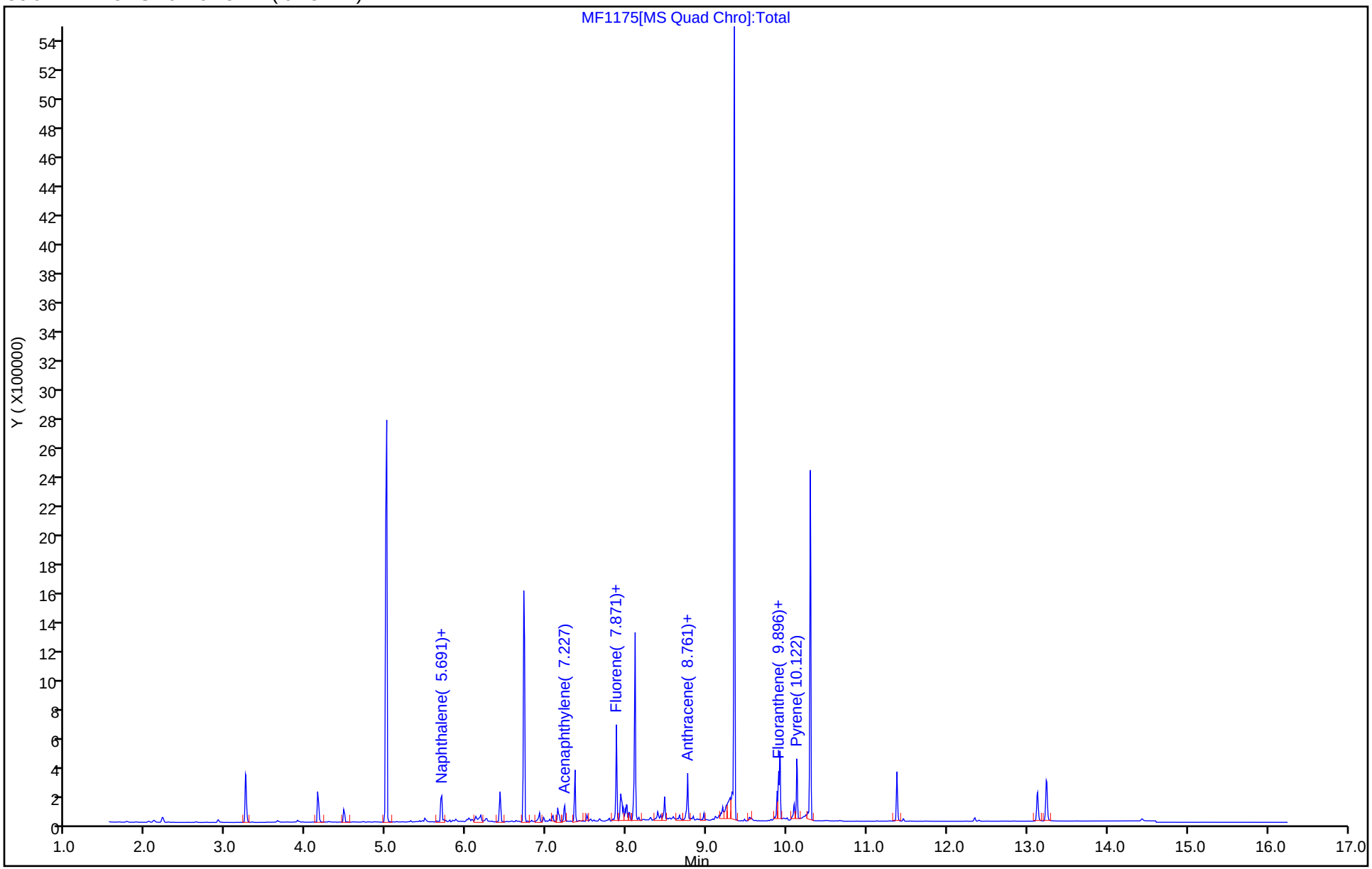
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 19-Jun-2023 12:32:54 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10	Worklist Smp#:	26
Client ID:	MW-4S-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Lims ID:	410-130132-D-10-A				
Client ID:	MW-4S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 13:58:41	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-10-A				
Misc. Info.:	410-0086777-026				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:22:08

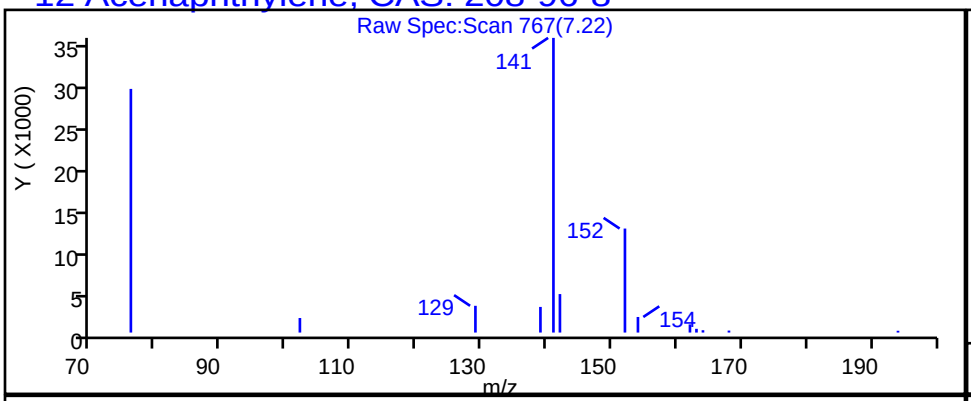
Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1944	77.76
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2117	84.68
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1895	75.80

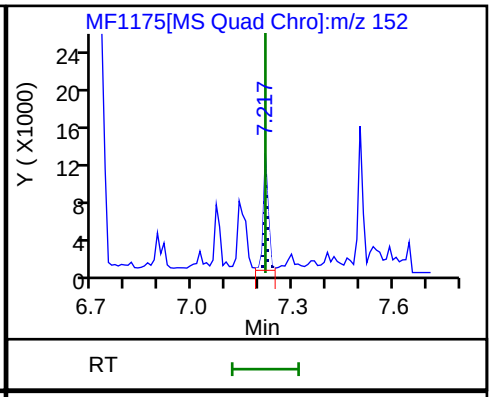
Report Date: 19-Jun-2023 12:32:54 Chrom Revision: 2.3 05-Jun-2023 19:02:10

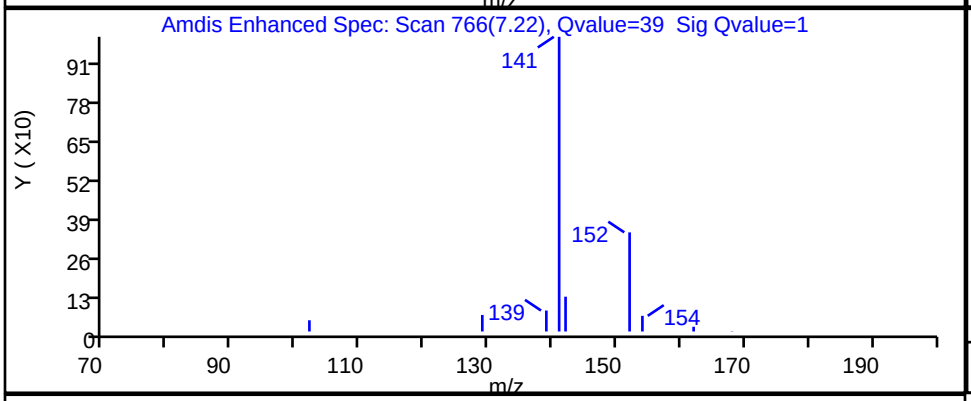
Eurofins Lancaster Laboratories Environment Testing, LLC

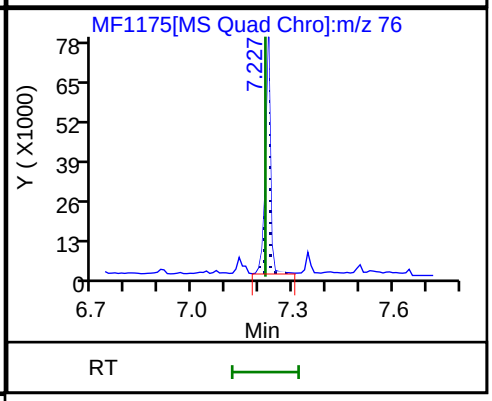
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

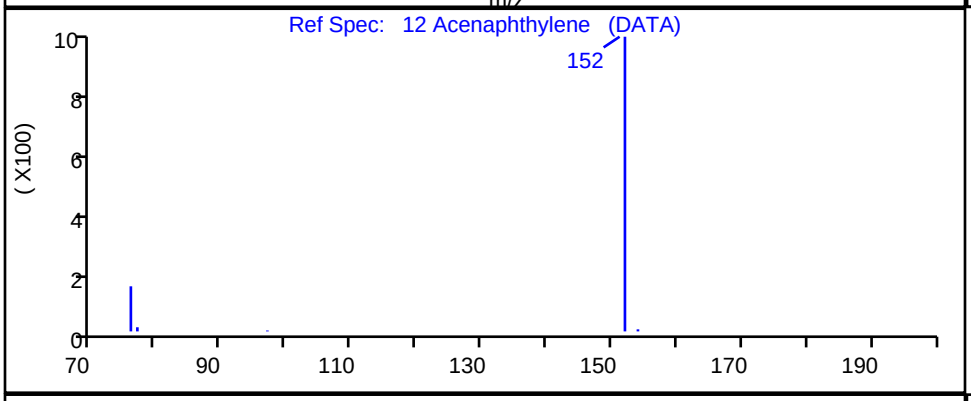
12 Acenaphthylene, CAS: 208-96-8

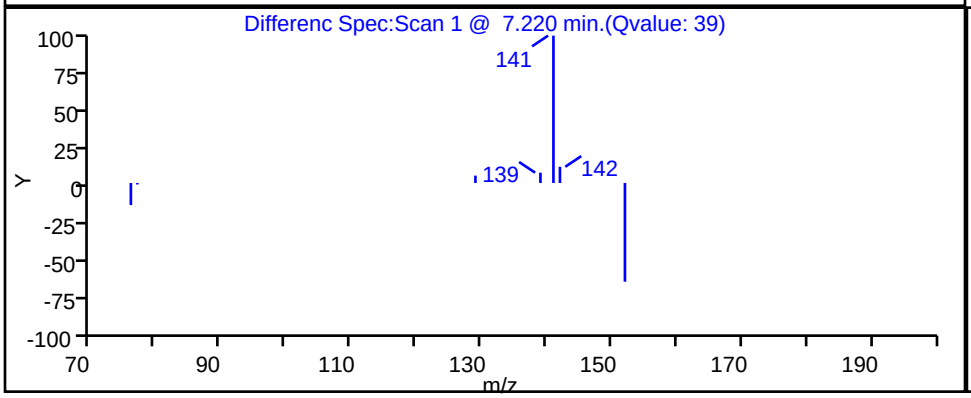


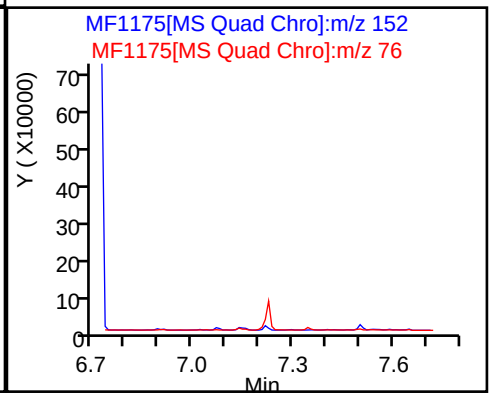








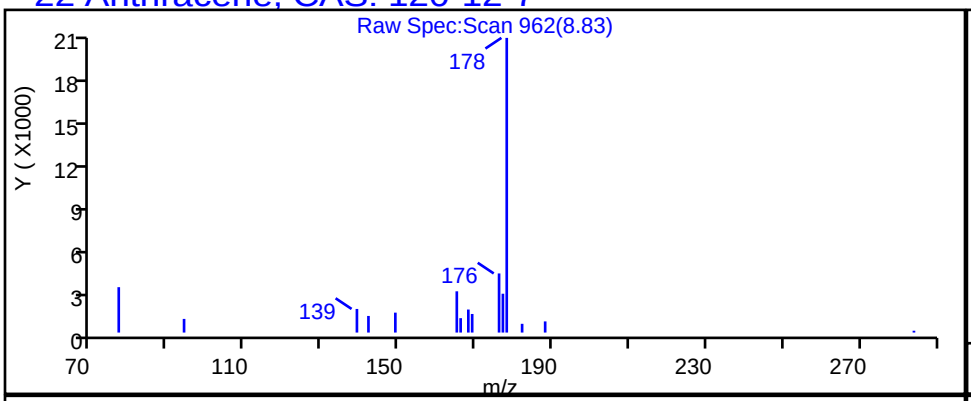


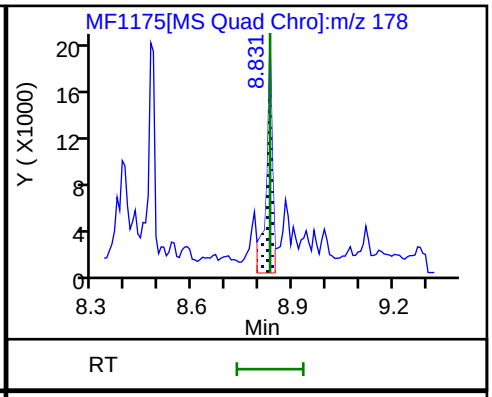


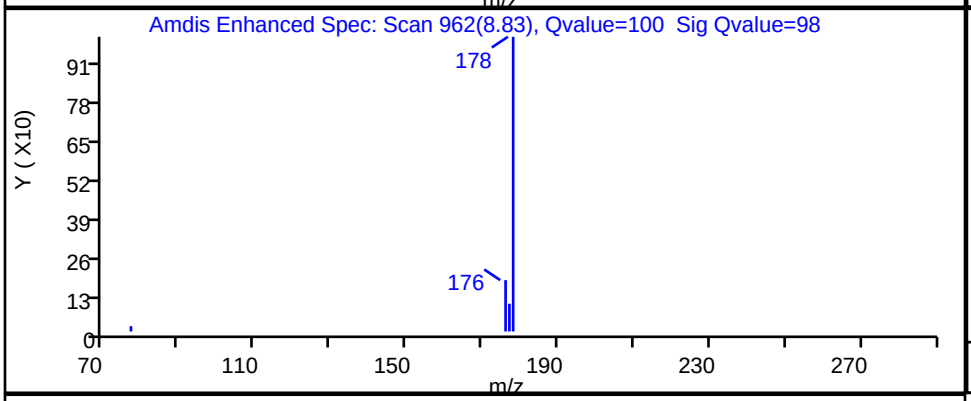
Eurofins Lancaster Laboratories Environment Testing, LLC

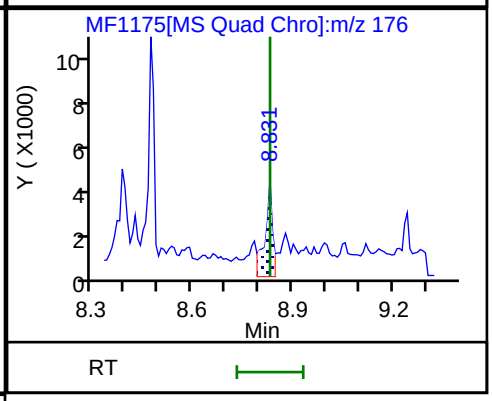
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D		
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10
Client ID:	MW-4S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

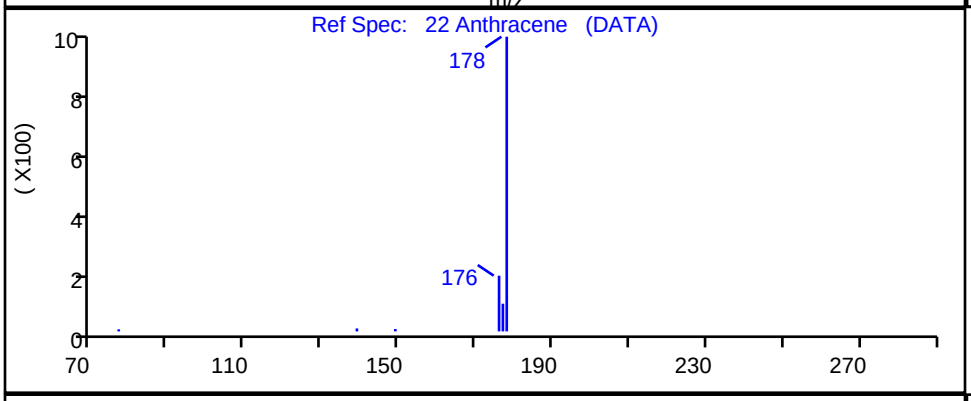
22 Anthracene, CAS: 120-12-7

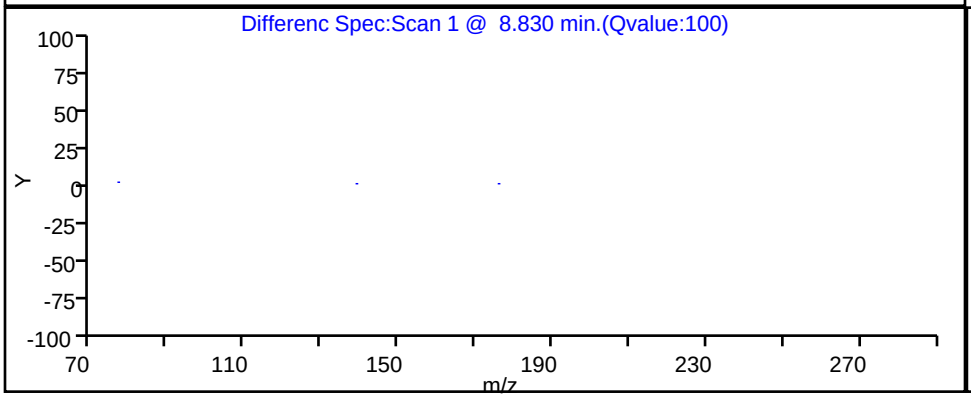


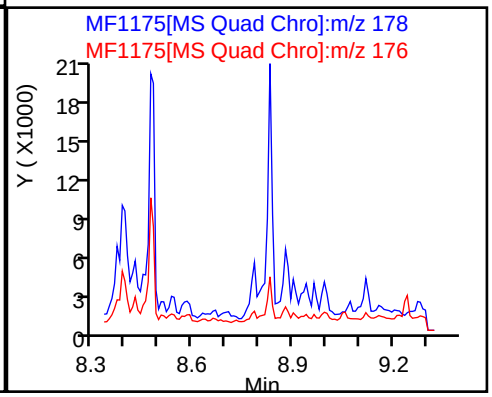










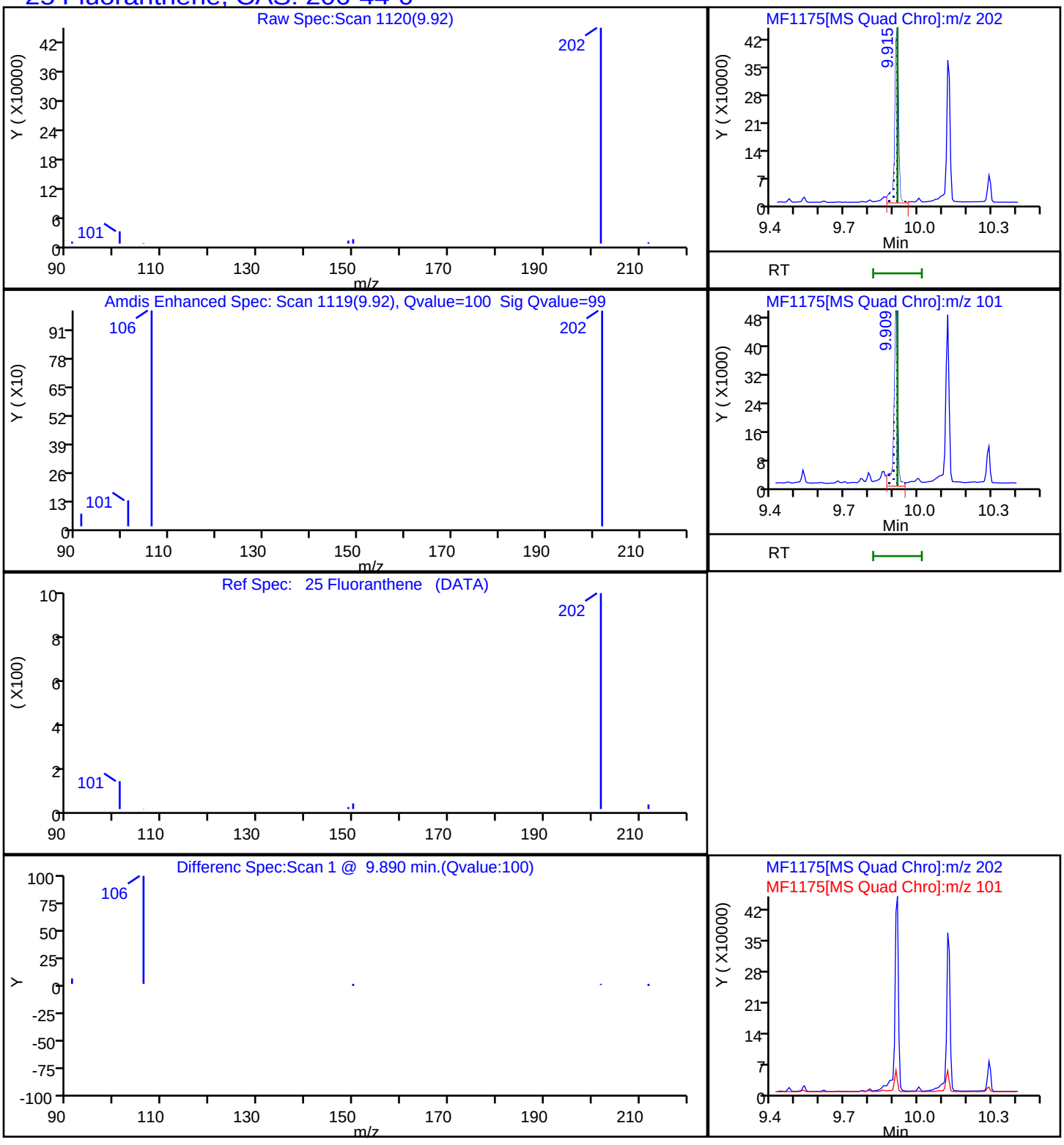


Report Date: 19-Jun-2023 12:32:54 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

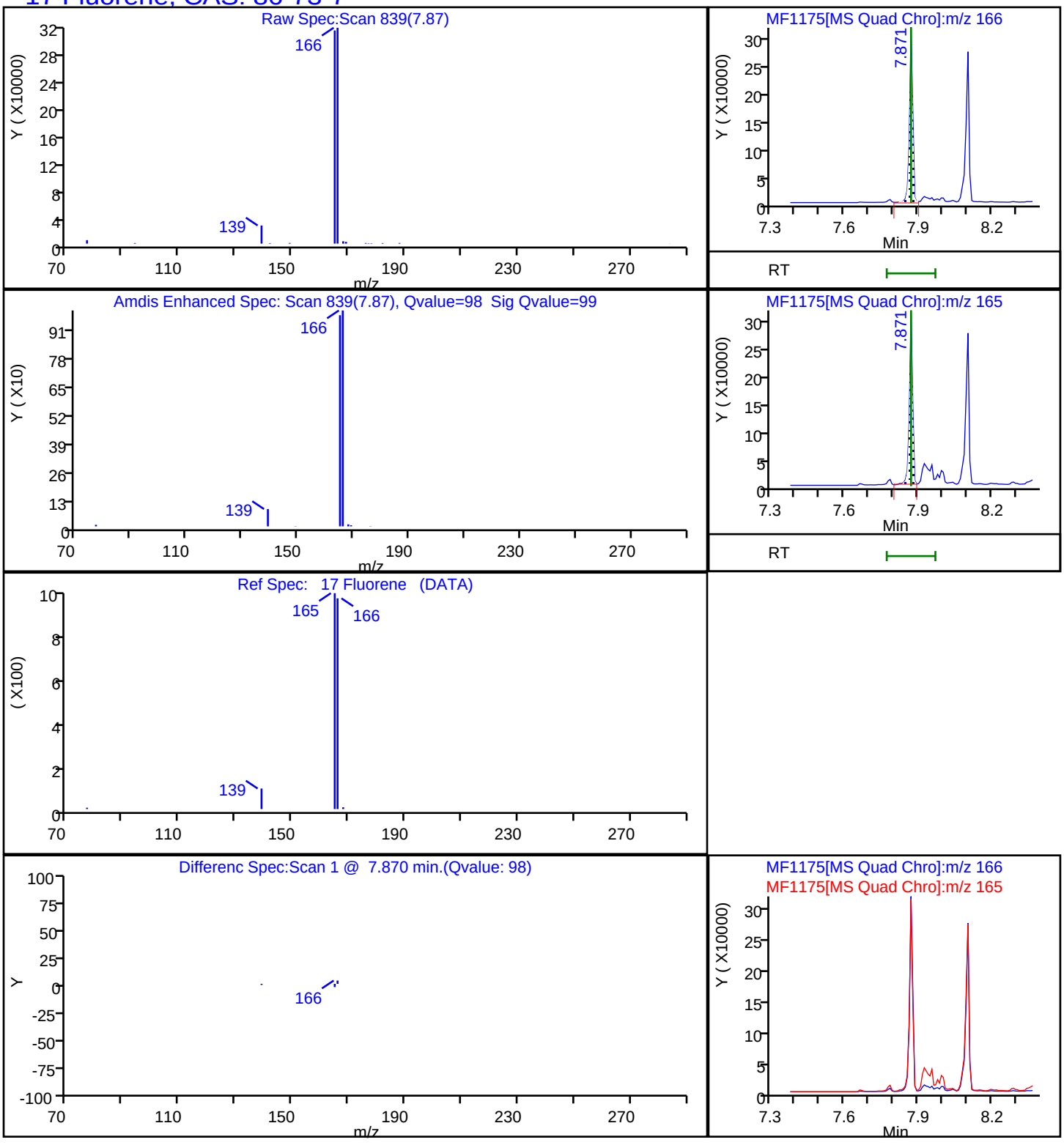
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D		
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10
Client ID:	MW-4S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

17 Fluorene, CAS: 86-73-7

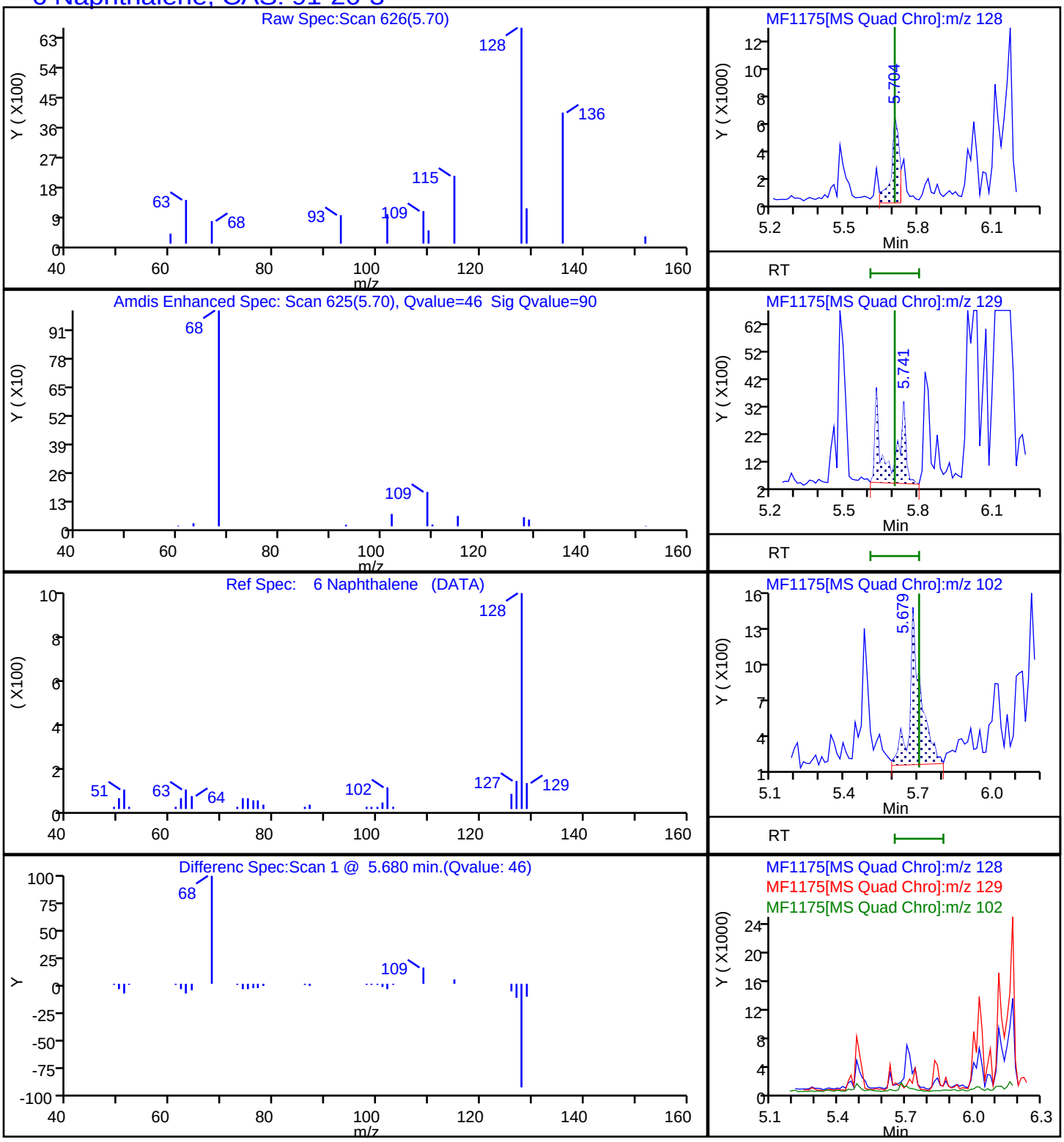


Report Date: 19-Jun-2023 12:32:54 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

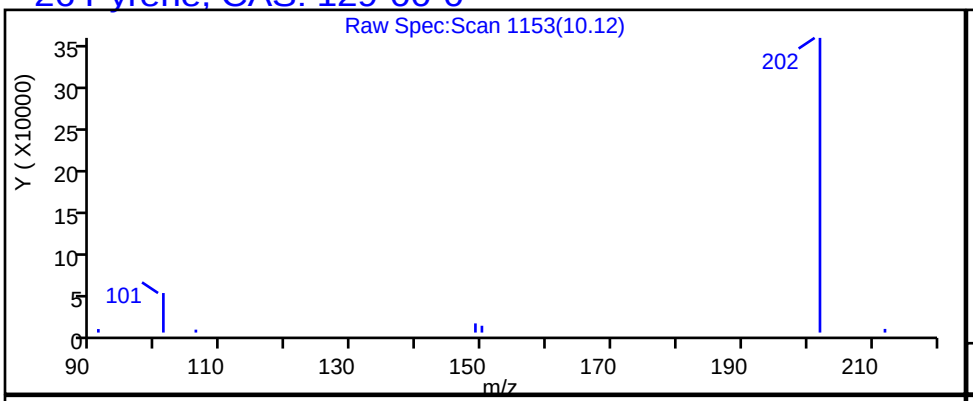
6 Naphthalene, CAS: 91-20-3

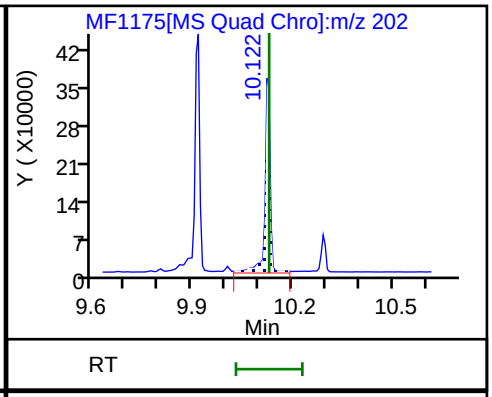


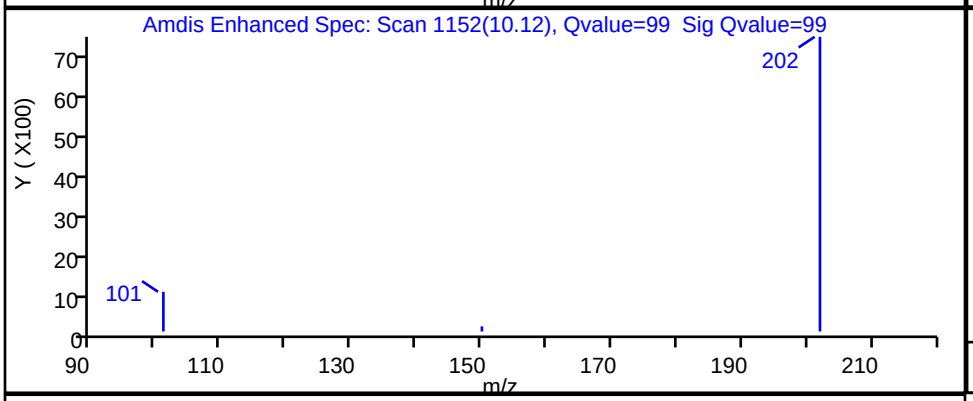
Eurofins Lancaster Laboratories Environment Testing, LLC

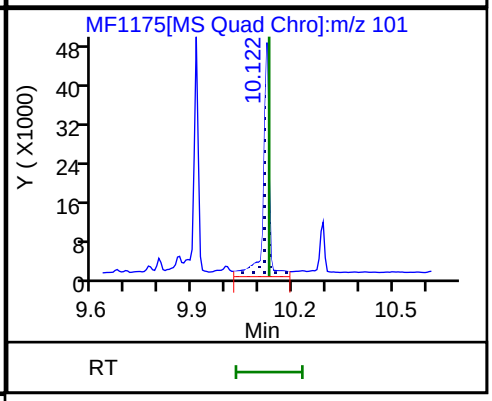
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D		
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10
Client ID:	MW-4S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

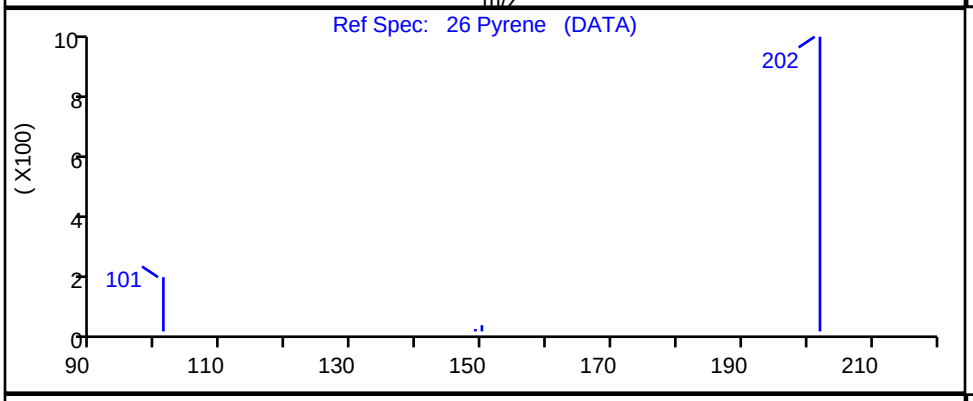
26 Pyrene, CAS: 129-00-0

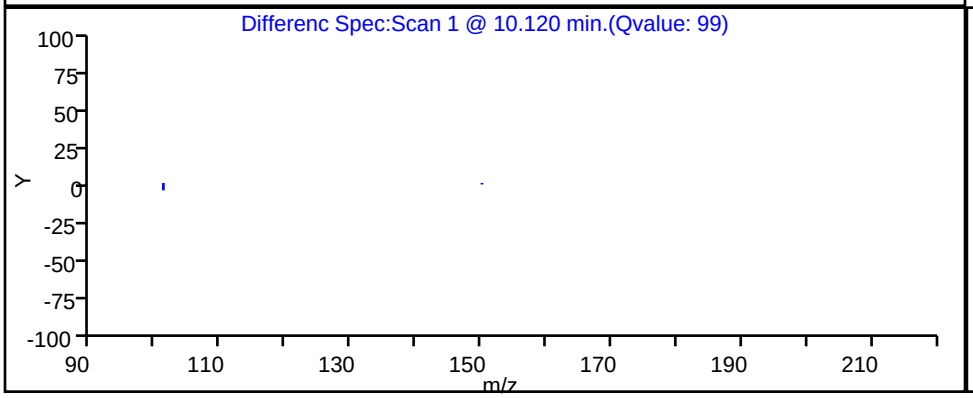


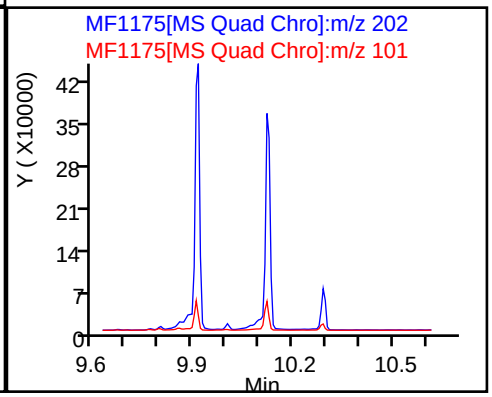












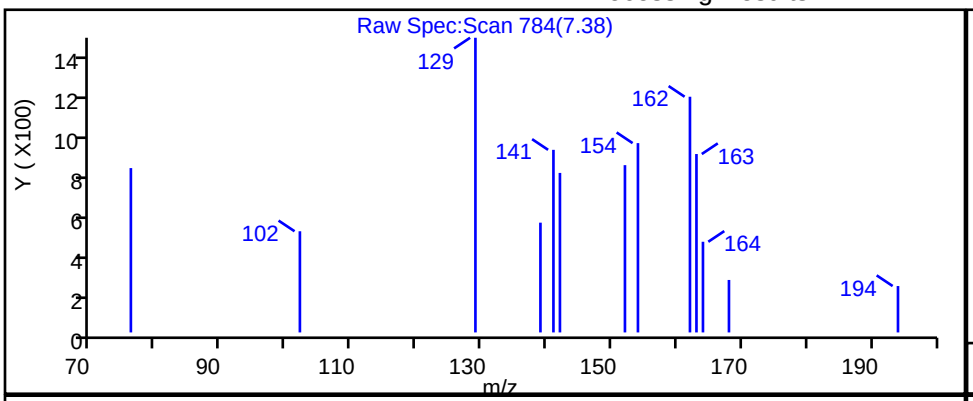
User Disabled Compound Report

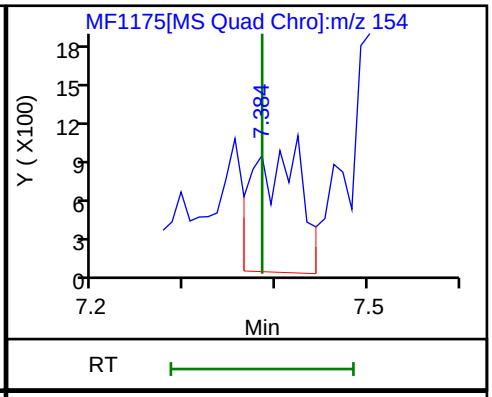
Eurofins Lancaster Laboratories Environment Testing, LLC

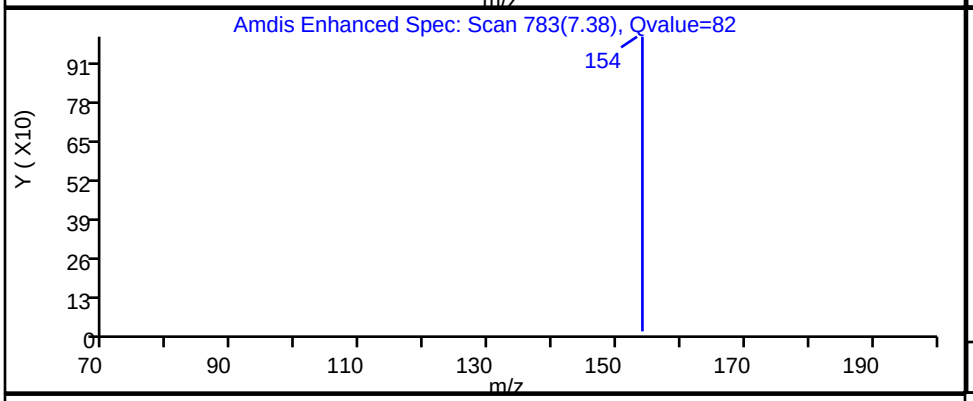
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

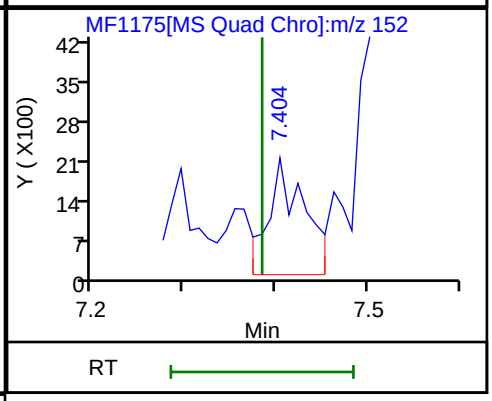
14 Acenaphthene, CAS: 83-32-9

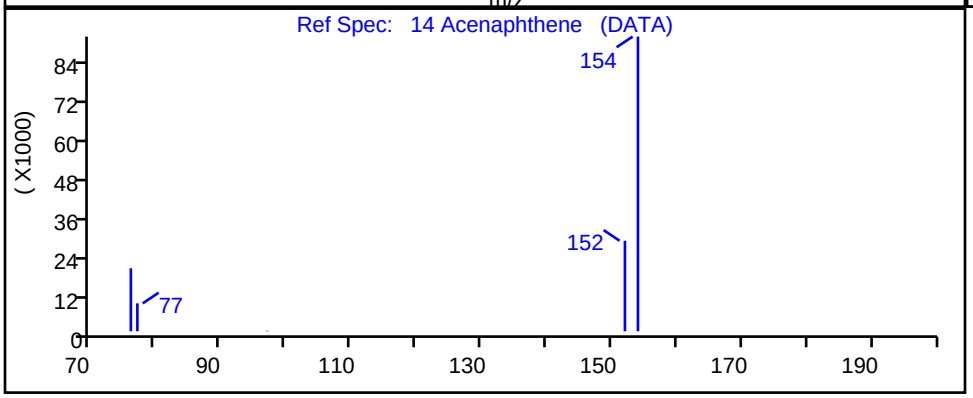
Processing Results











RT	Mass	Response	Amount
7.38	154.00	3242	0.004605
7.40	152.00	5389	

Reviewer: SJ89, 19-Jun-2023 12:21:16 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

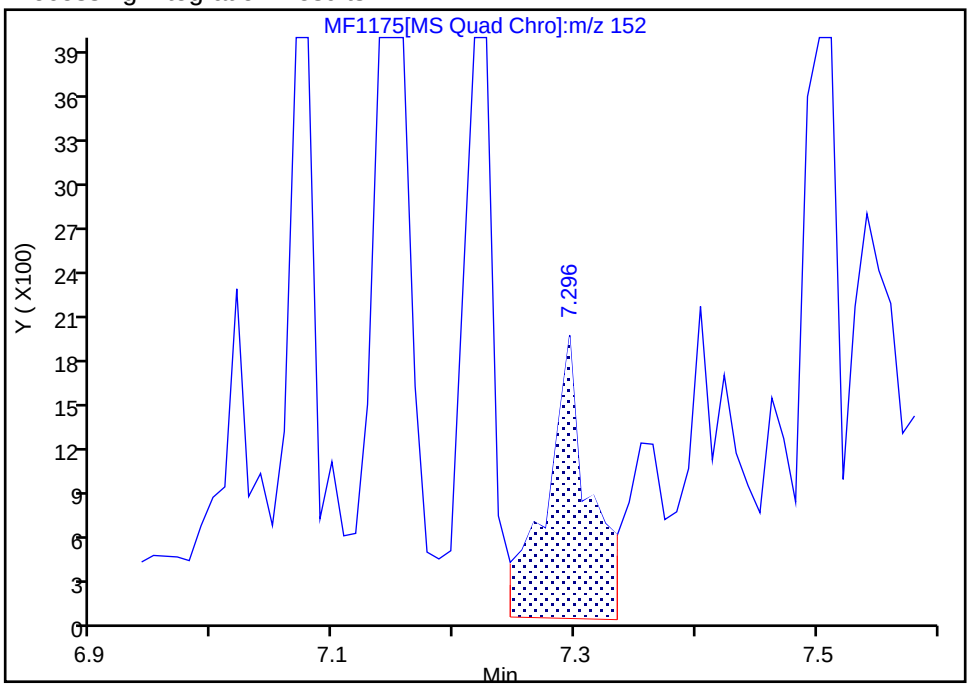
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

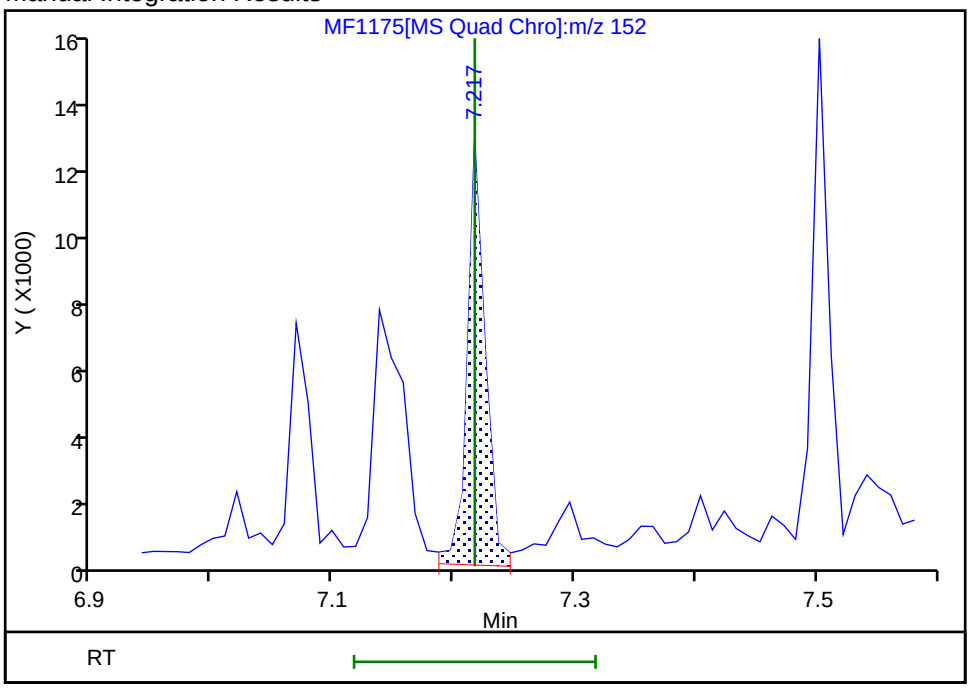
Processing Integration Results

RT: 7.30
Area: 4419
Amount: 0.004067
Amount Units: ug/ml



Manual Integration Results

RT: 7.22
Area: 12932
Amount: 0.011902
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:21:10 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

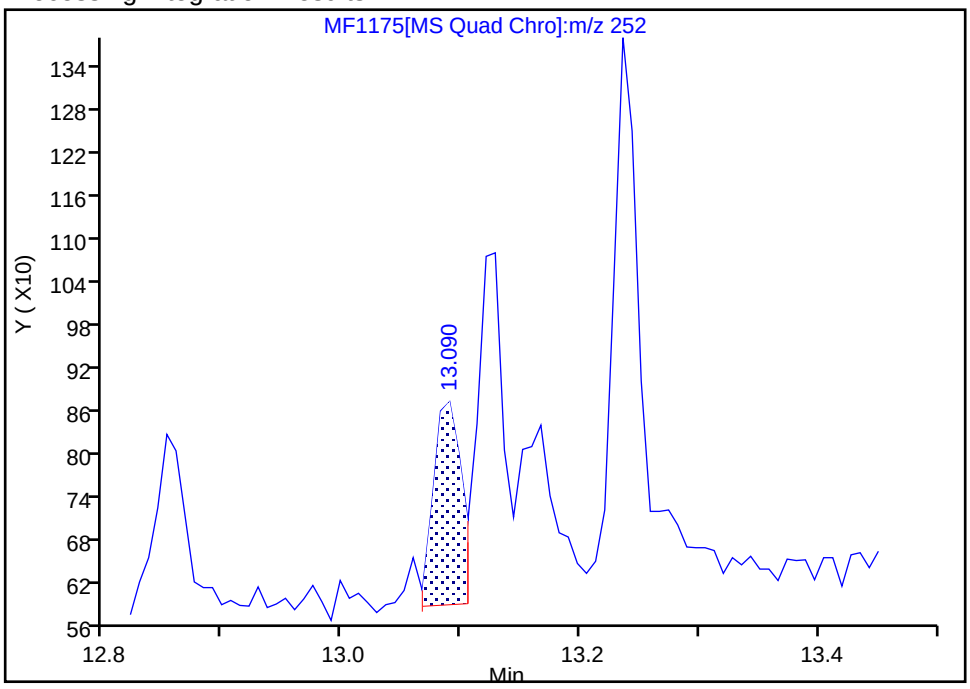
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

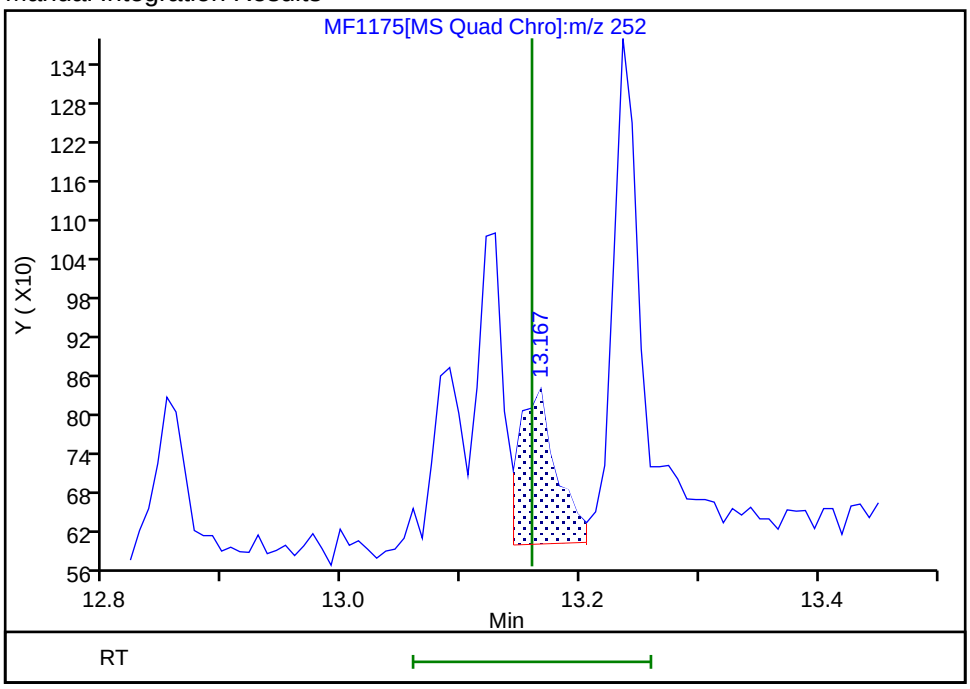
Processing Integration Results

RT: 13.09
Area: 449
Amount: 0.000304
Amount Units: ug/ml



Manual Integration Results

RT: 13.17
Area: 501
Amount: 0.000340
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:21:59 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

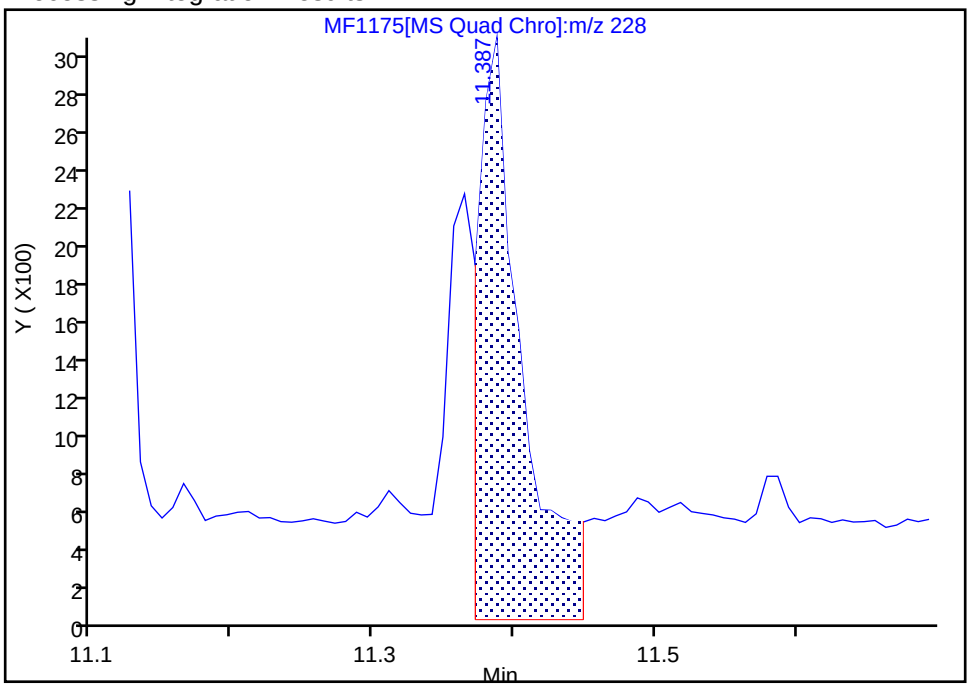
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

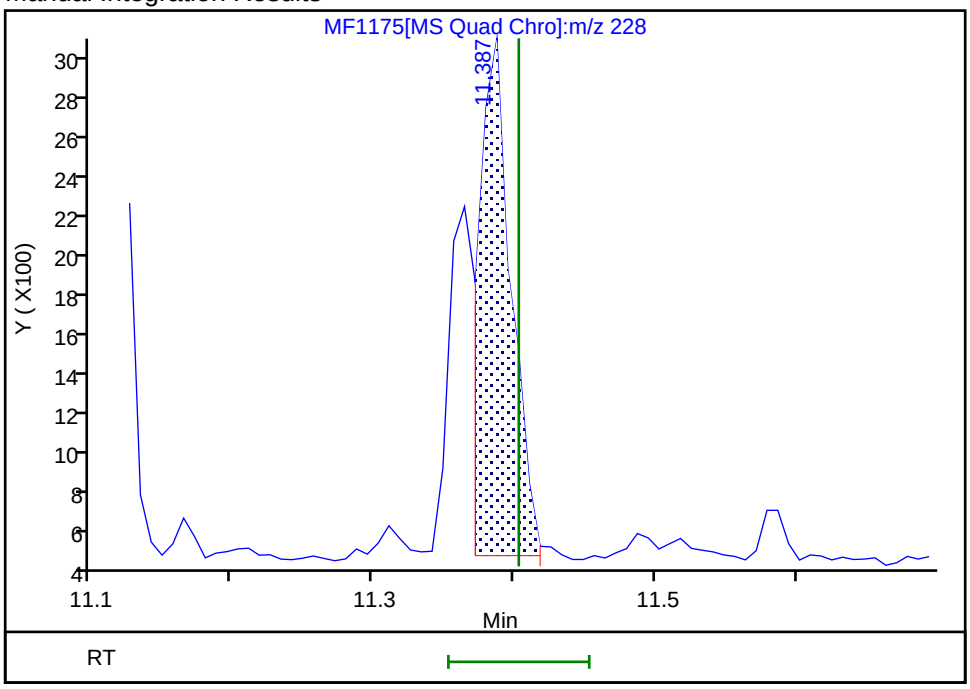
Processing Integration Results

RT: 11.39
Area: 6210
Amount: 0.003548
Amount Units: ug/ml



Manual Integration Results

RT: 11.39
Area: 3736
Amount: 0.002134
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:21:53 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

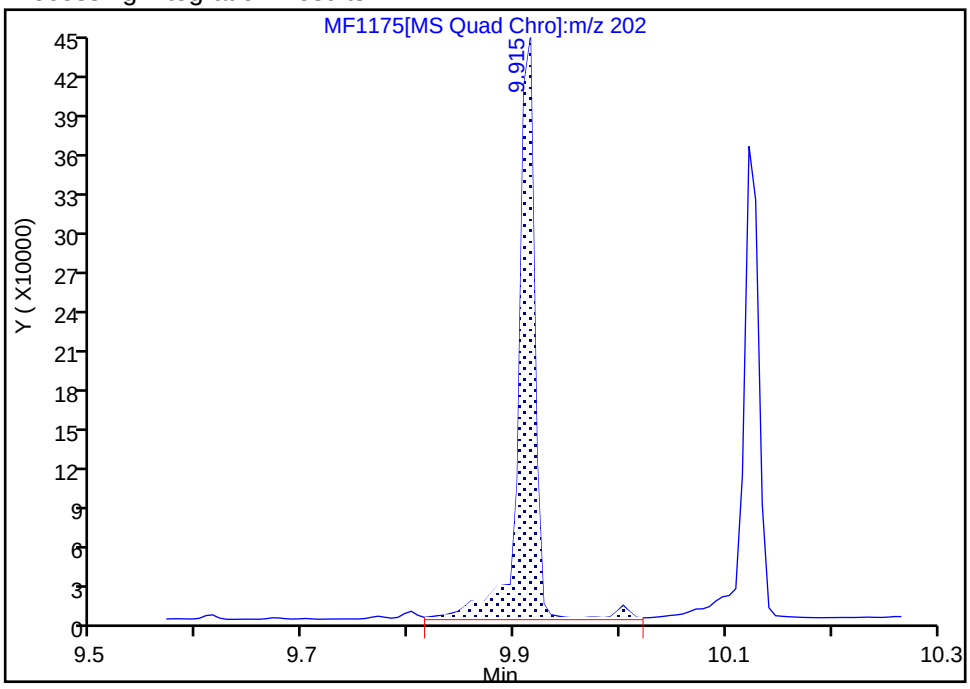
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

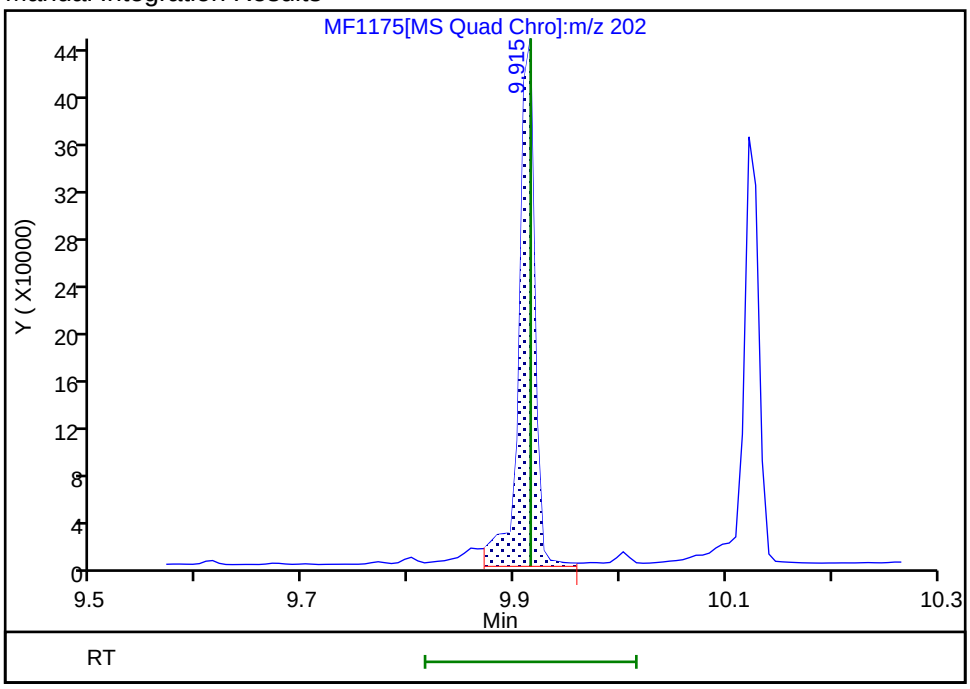
Processing Integration Results

RT: 9.92
Area: 494796
Amount: 0.315648
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 451855
Amount: 0.288255
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:21:35 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

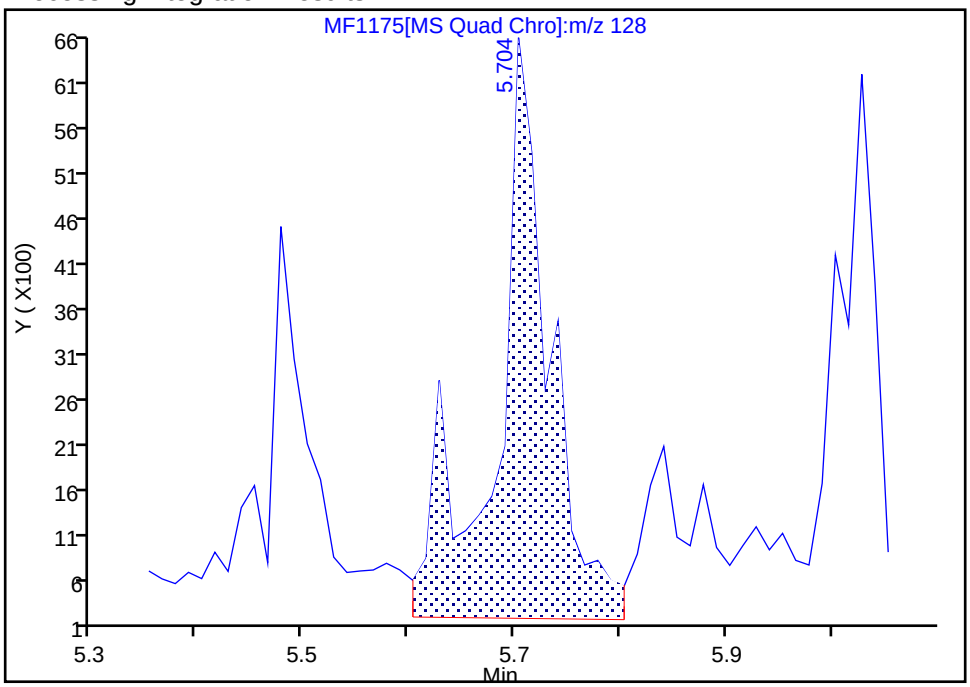
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1175.D				
Injection Date:	16-Jun-2023 13:58:41	Instrument ID:	HP21585		
Lims ID:	410-130132-D-10-A	Lab Sample ID:	410-130132-10		
Client ID:	MW-4S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

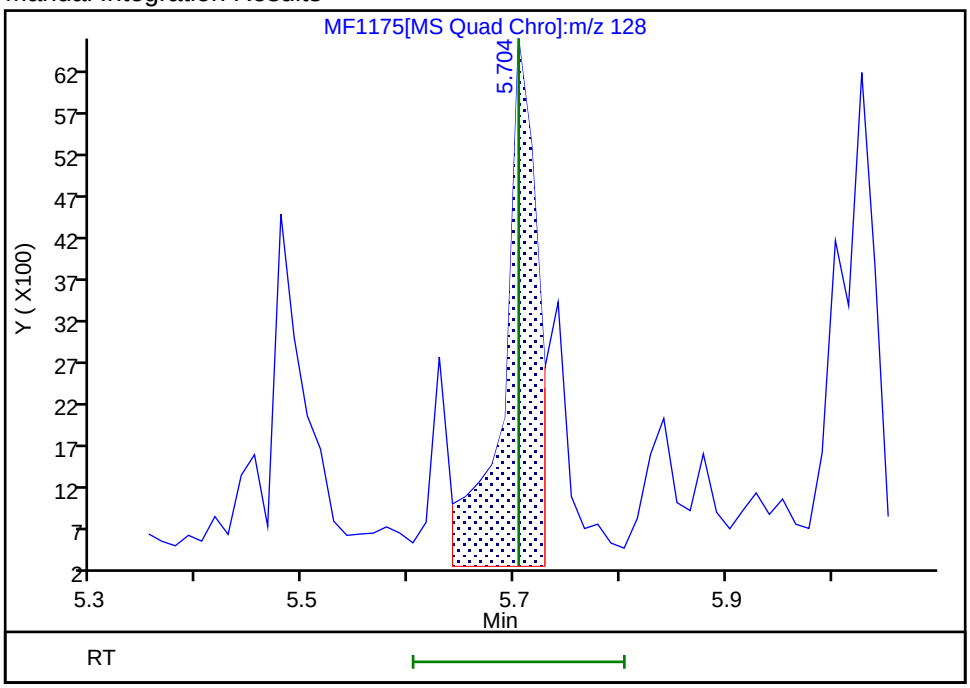
Processing Integration Results

RT: 5.70
Area: 22404
Amount: 0.020279
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 13120
Amount: 0.011876
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:21:05 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-7S-20230608
Lab Sample ID: 410-130132-11

Matrix: Water
Lab File ID: MF1169.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 12:53

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 239.1(mL)
Date Analyzed: 06/16/2023 11:50

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.11		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	0.021	J	0.052	0.010
56-55-3	Benzo[a]anthracene	ND		0.052	0.010
50-32-8	Benzo[a]pyrene	ND		0.052	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.052	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.052	0.010
218-01-9	Chrysene	ND		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
206-44-0	Fluoranthene	ND		0.052	0.010
86-73-7	Fluorene	0.036	J	0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	0.12		0.073	0.031
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	ND		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	63		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		33-120
93951-69-0	Fluoranthene-d10 (Surr)	80		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D
Lims ID: 410-130132-D-11
Client ID: MW-7S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 11:50:06 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-11
Misc. Info.: 410-0086777-020
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:09:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	88	75728	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	94	252723	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	91	34000	0.0290	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.419	0.000	96	117925	0.1916	
12 Acenaphthylene	152	7.217	7.217	0.000	96	2256	0.001983	7M
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	152172	0.2500	
14 Acenaphthene	154	7.384	7.385	0.000	89	19798	0.0269	
17 Fluorene	166	7.871	7.871	0.000	99	8016	0.008514	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	94	301670	0.2500	
22 Anthracene	178	8.831	8.831	0.000	100	6633	0.005094	M
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	276612	0.2006	
25 Fluoranthene	202	9.915	9.915	0.000	97	3171	0.001885	7M
26 Pyrene	202	10.128	10.128	0.000	97	2896	0.001537	7M
28 Benzo[a]anthracene	228	11.364	11.372	-0.001	100	2486	0.001618	7M
* 29 Chrysene-d12	240	11.372	11.372	0.000	67	293464	0.2500	
30 Chrysene	228	11.403	11.388	0.000	100	1621	0.000867	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	184253	0.1581	
37 Benzo[a]pyrene	252	13.159	13.167	0.000	99	1558	0.001028	7Ma
* 38 Perylene-d12	264	13.244	13.244	0.000	100	316887	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	99	970	0.000696	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

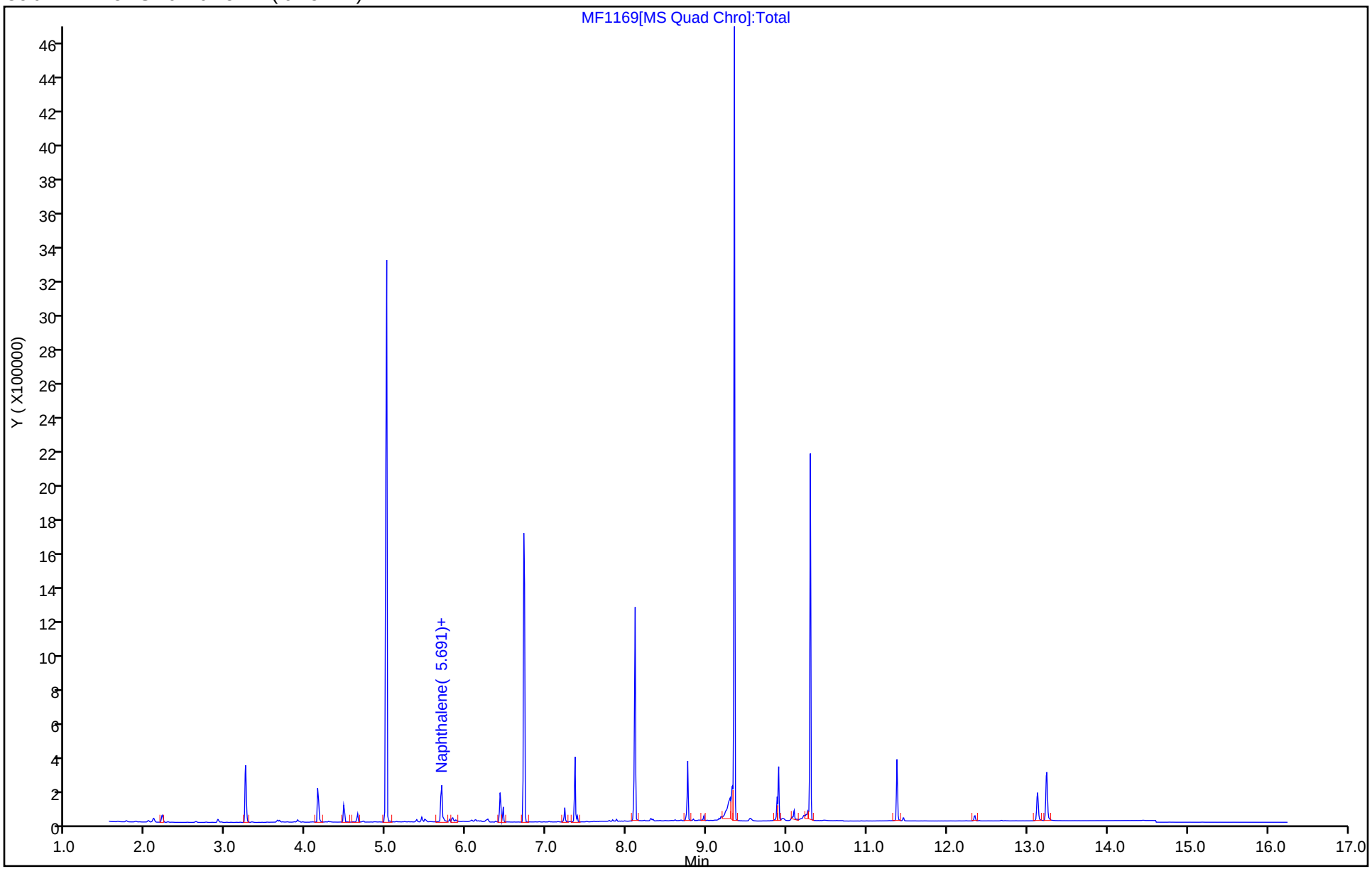
Report Date: 19-Jun-2023 12:32:44 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D

Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11	Worklist Smp#:	20
Client ID:	MW-7S-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Lims ID:	410-130132-D-11				
Client ID:	MW-7S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 11:50:06	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-11				
Misc. Info.:	410-0086777-020				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				
First Level Reviewer: SJ89		Date:	19-Jun-2023 12:09:12		

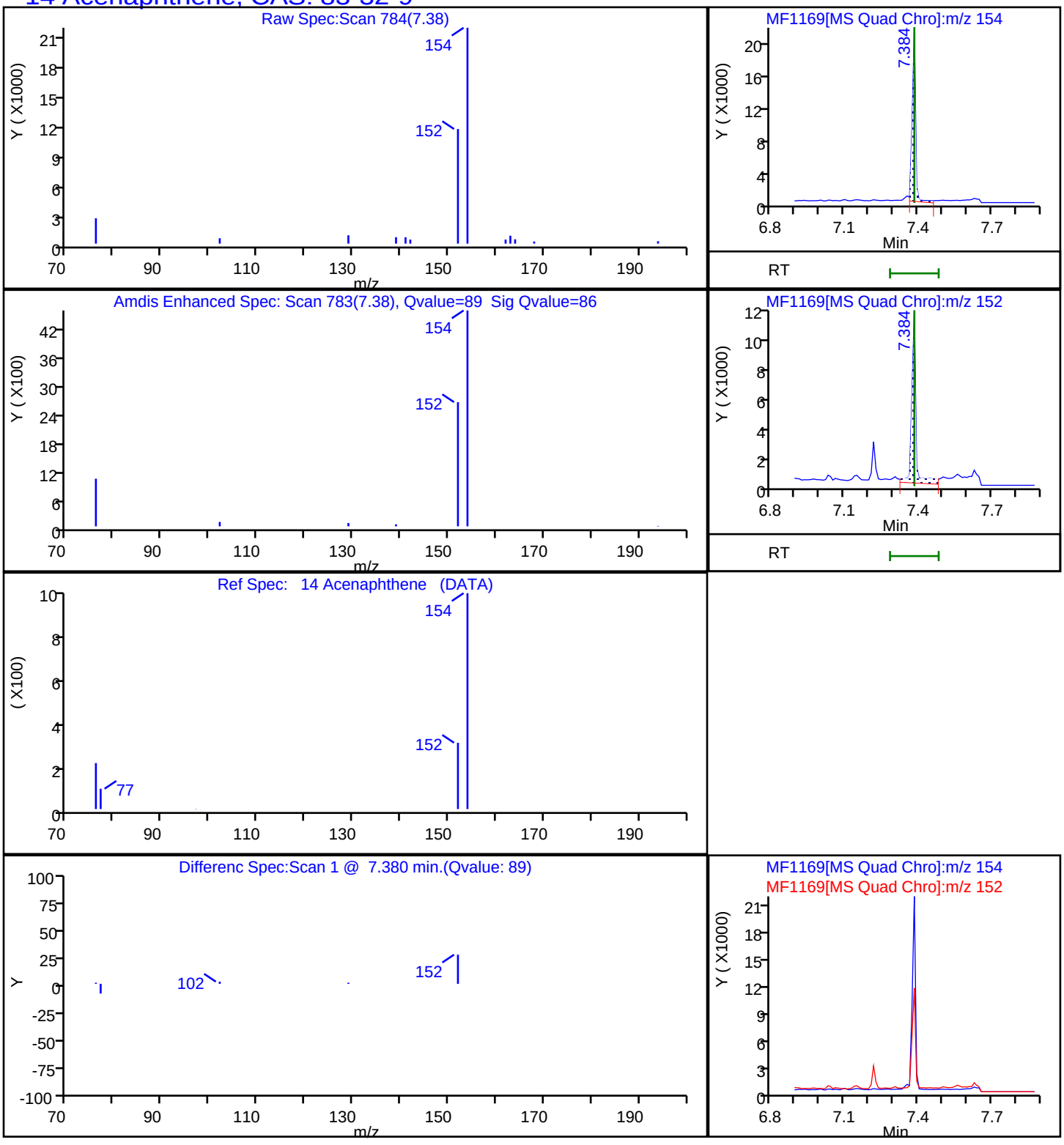
Compound	Amount Added	Amount Recovered	% Rec.

Report Date: 19-Jun-2023 12:32:44 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

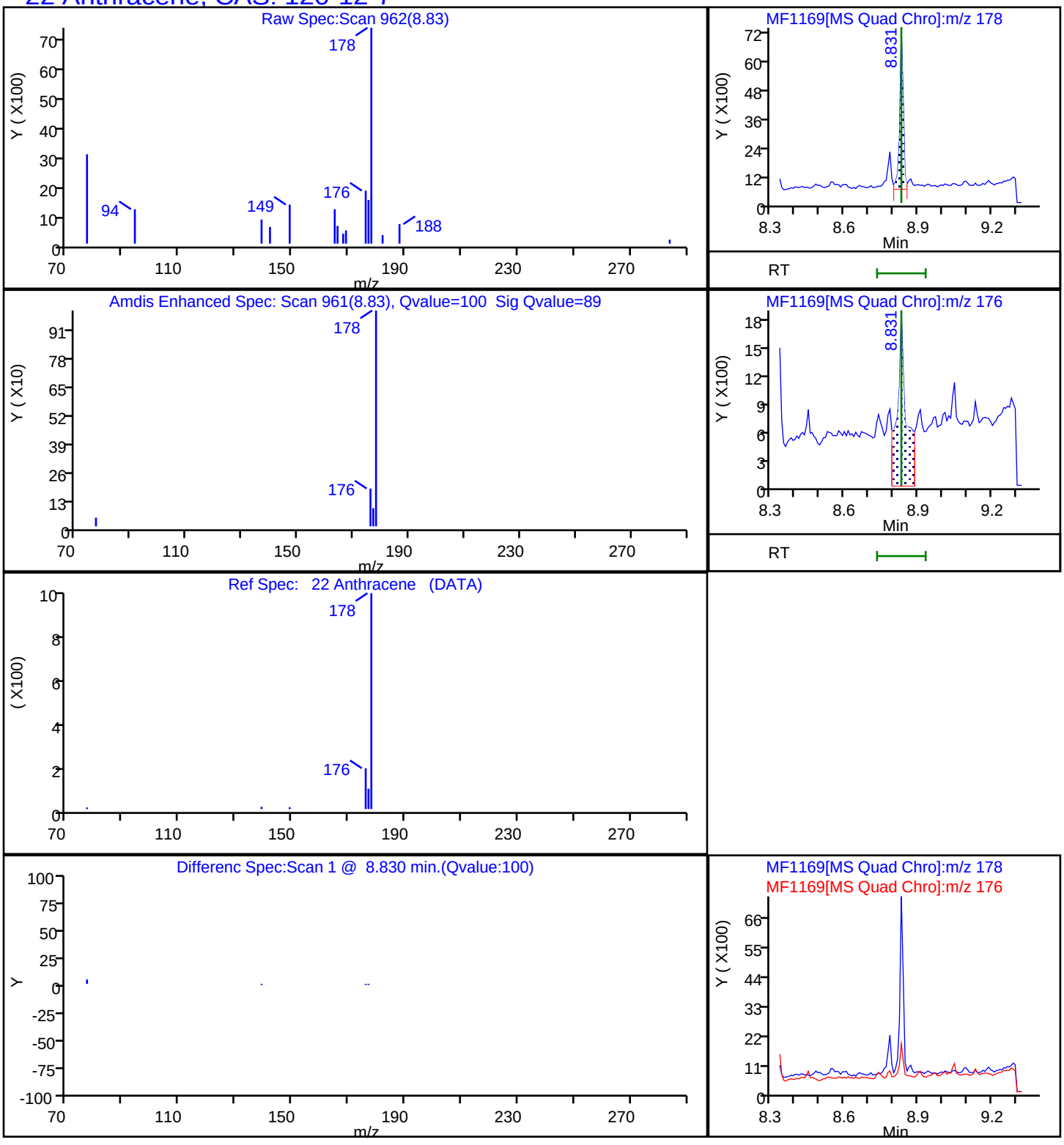
14 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D		
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11
Client ID:	MW-7S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

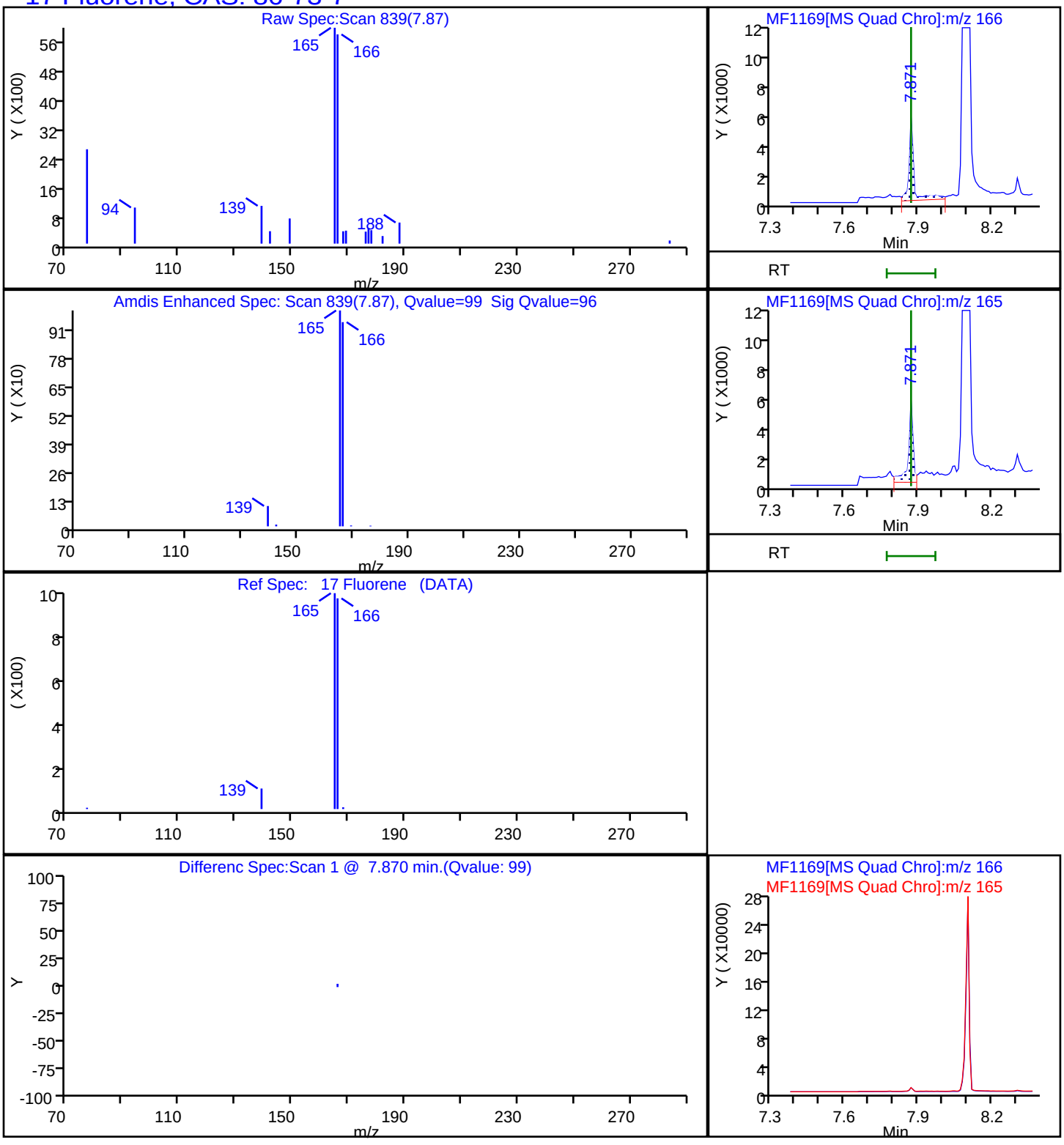
22 Anthracene, CAS: 120-12-7



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D		
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11
Client ID:	MW-7S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

17 Fluorene, CAS: 86-73-7



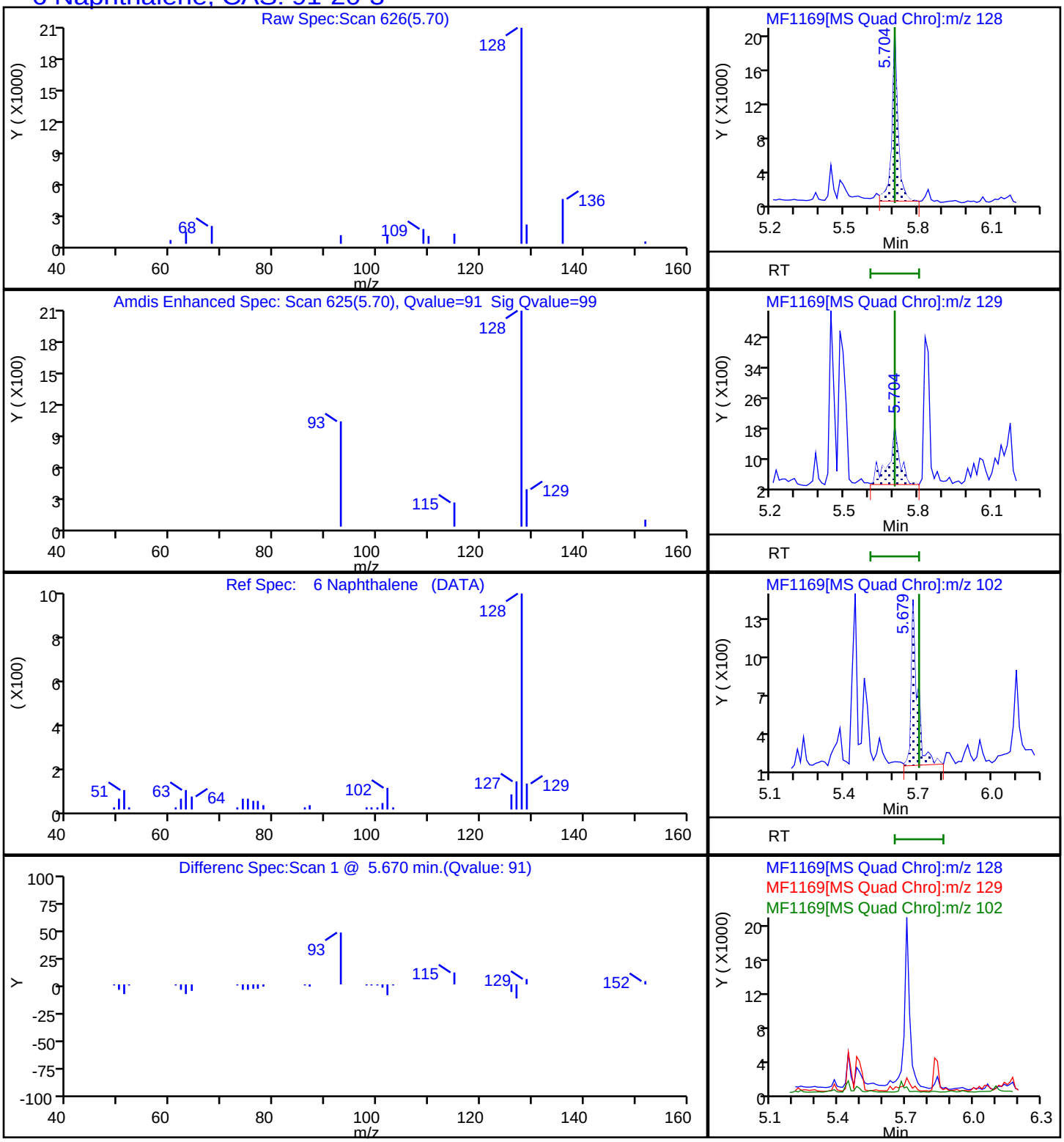
Report Date: 19-Jun-2023 12:32:44 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D

Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

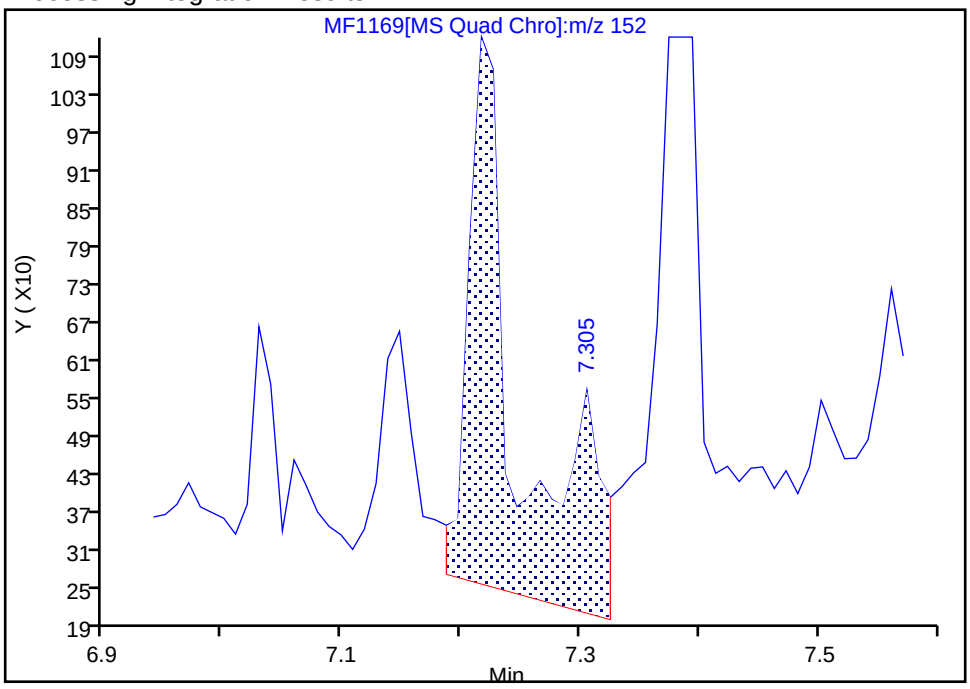
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

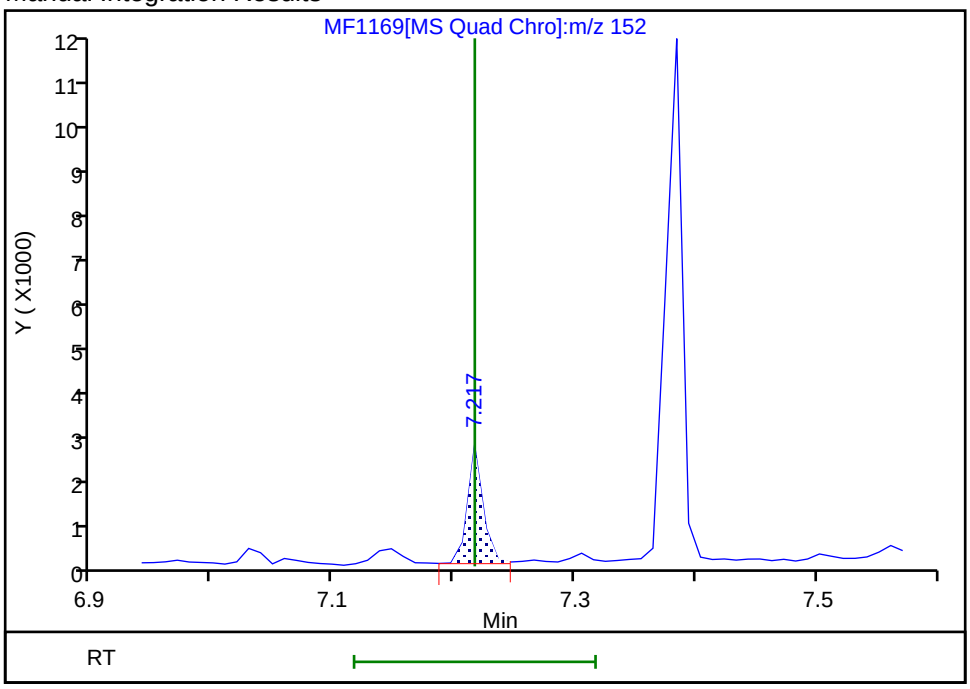
Processing Integration Results

RT: 7.31
Area: 3519
Amount: 0.003093
Amount Units: ug/ml



Manual Integration Results

RT: 7.22
Area: 2256
Amount: 0.001983
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:07:43 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

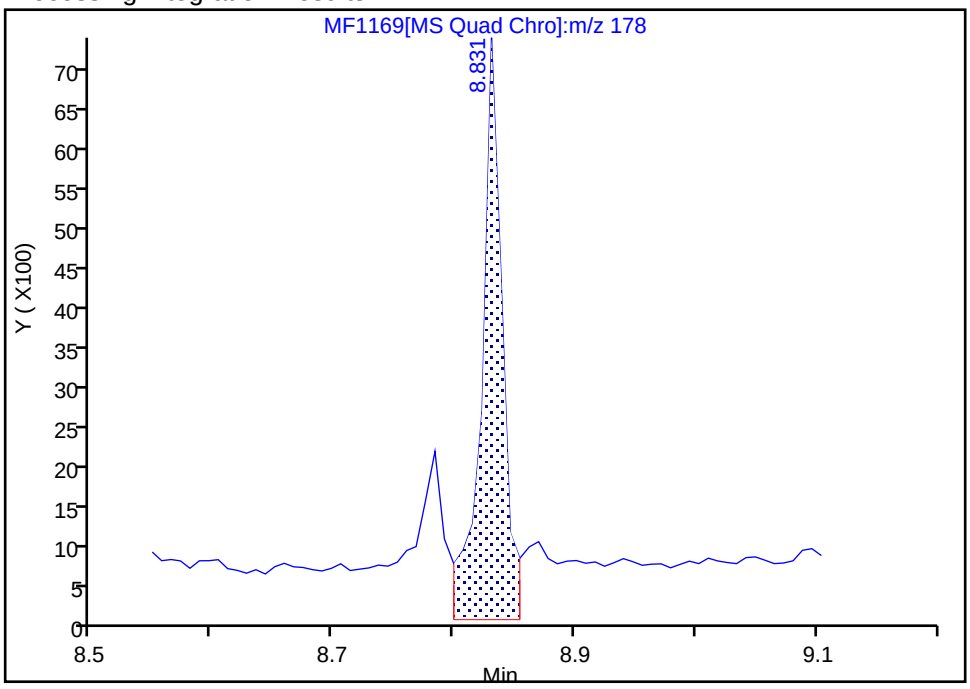
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

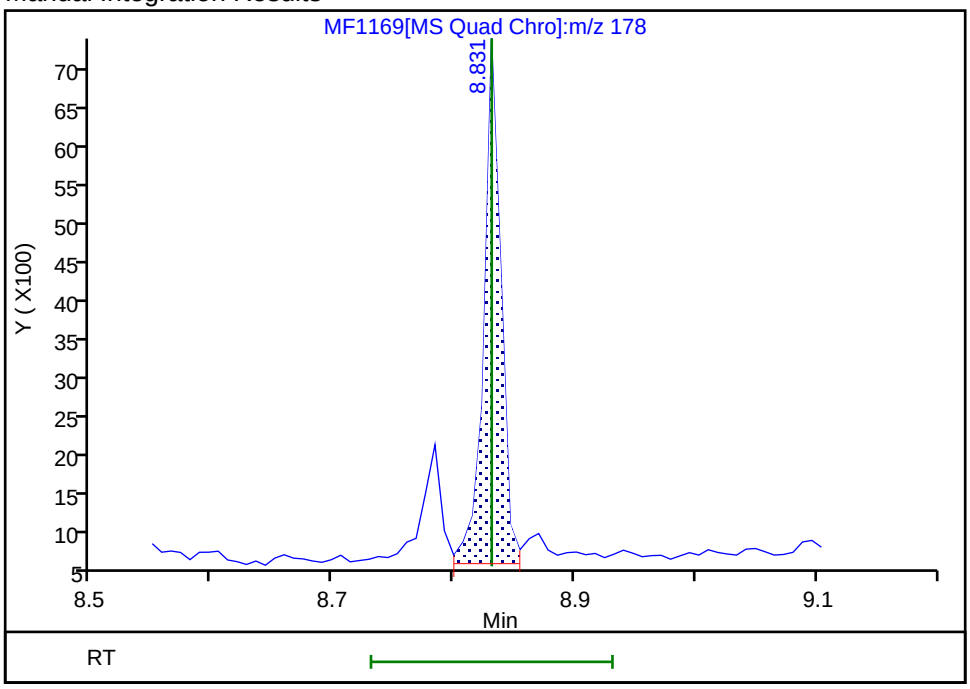
Processing Integration Results

RT: 8.83
Area: 8610
Amount: 0.006612
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 6633
Amount: 0.005094
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:07:56 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

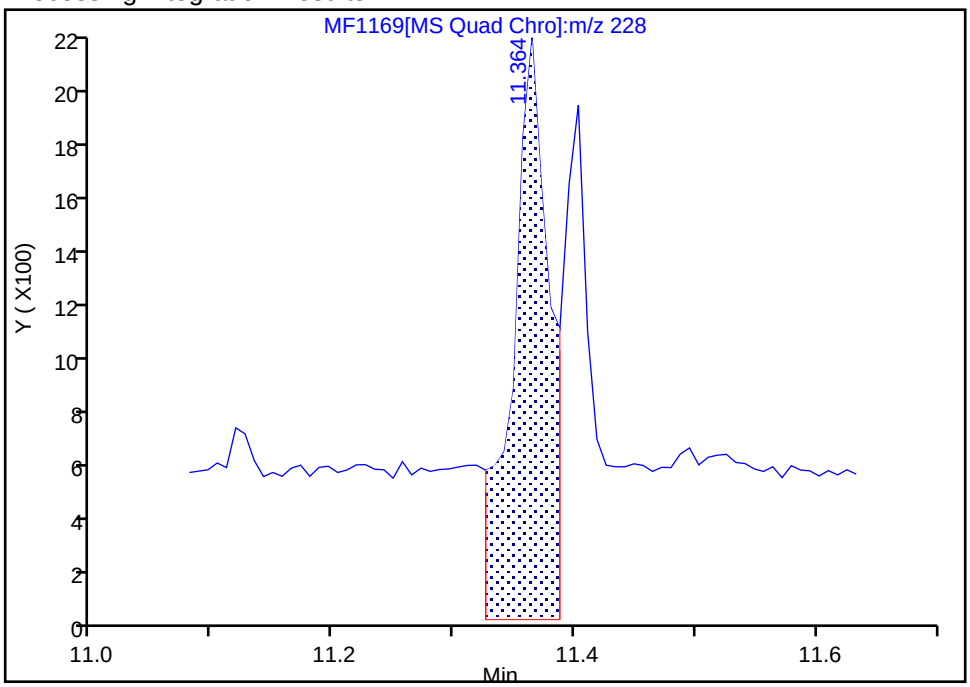
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

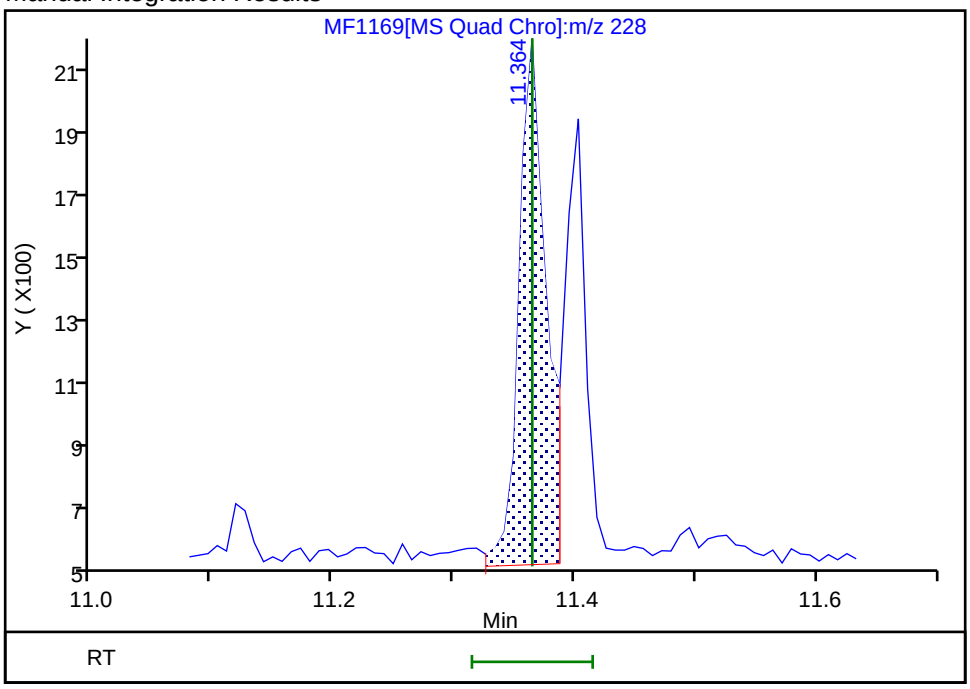
Processing Integration Results

RT: 11.36
Area: 4407
Amount: 0.002868
Amount Units: ug/ml



Manual Integration Results

RT: 11.36
Area: 2486
Amount: 0.001618
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:08:19 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

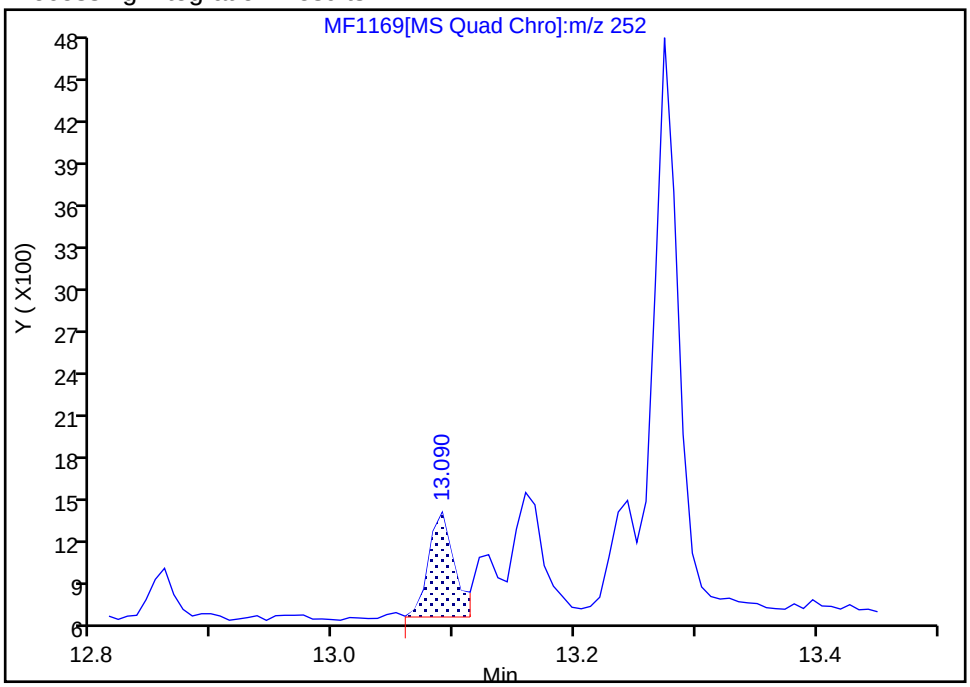
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

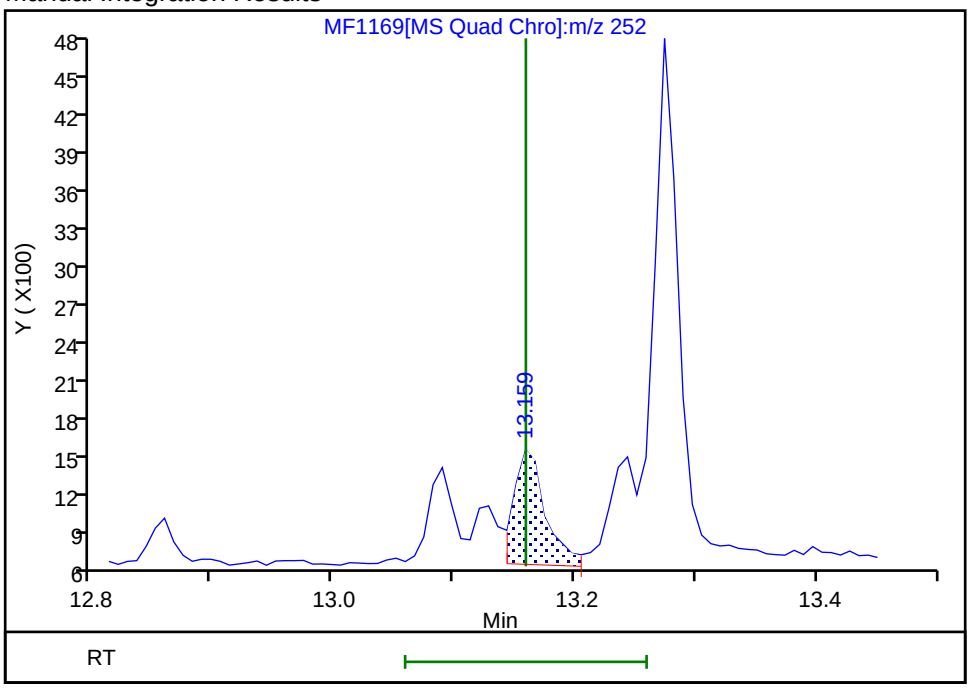
Processing Integration Results

RT: 13.09
Area: 1089
Amount: 0.000719
Amount Units: ug/ml



Manual Integration Results

RT: 13.16
Area: 1558
Amount: 0.001028
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:08:55 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

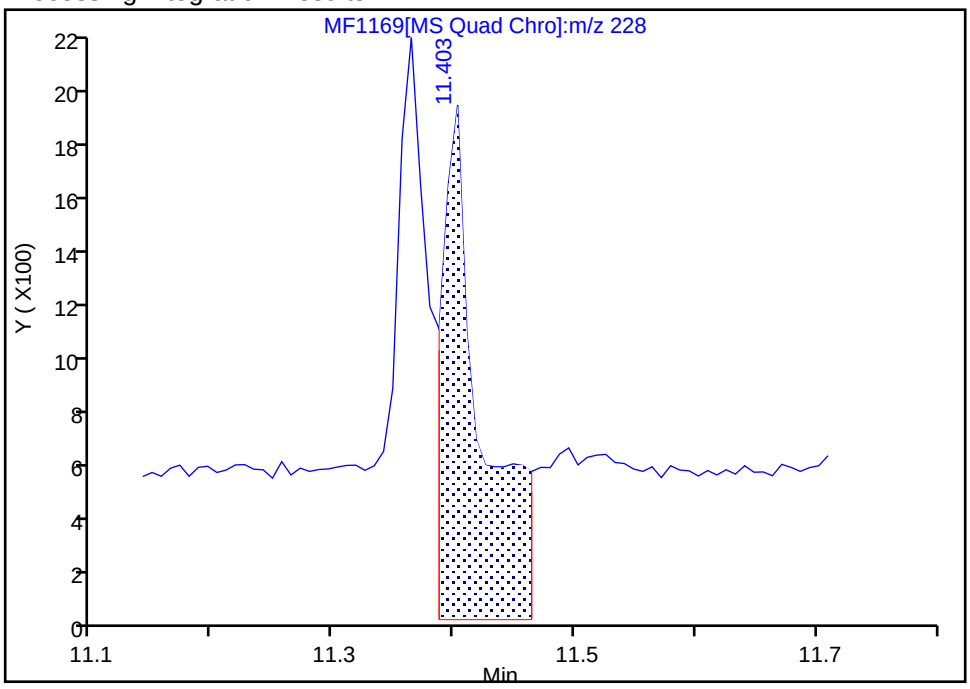
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

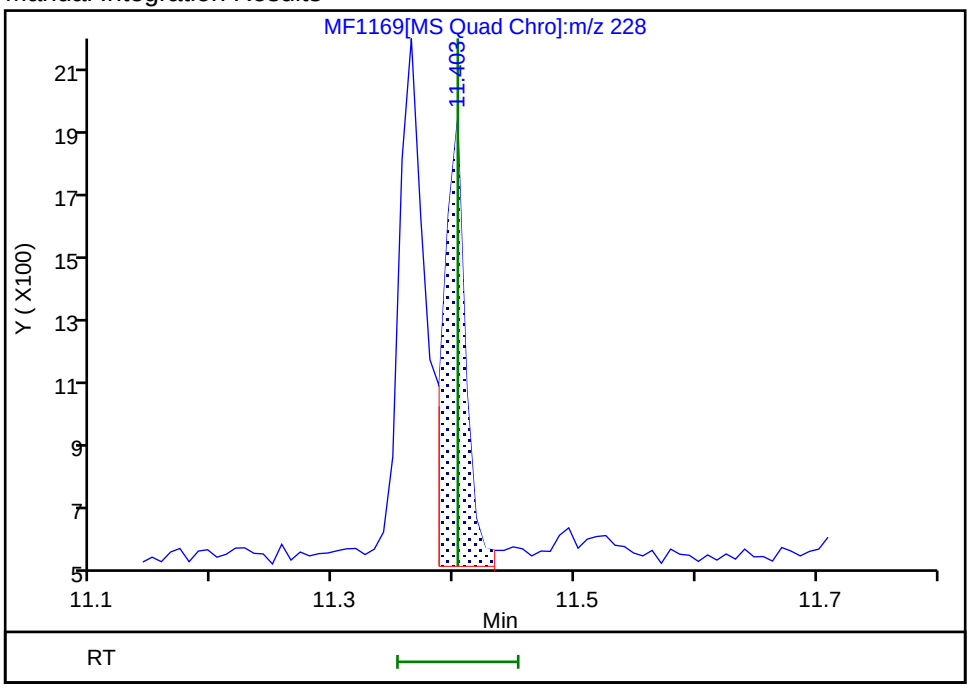
Processing Integration Results

RT: 11.40
Area: 4111
Amount: 0.002200
Amount Units: ug/ml



Manual Integration Results

RT: 11.40
Area: 1621
Amount: 0.000867
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:08:41 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

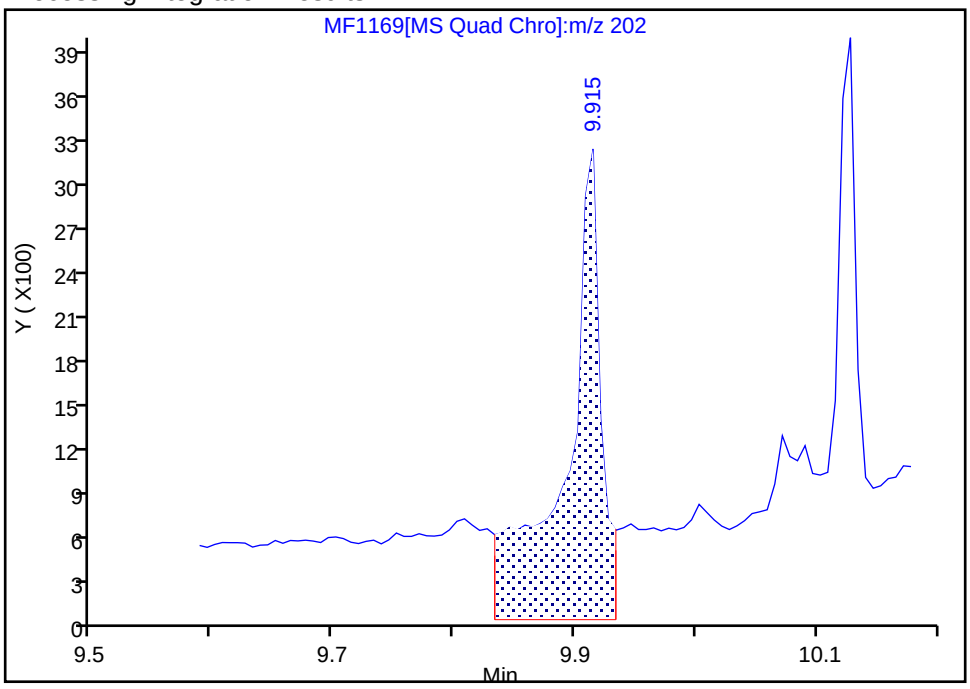
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

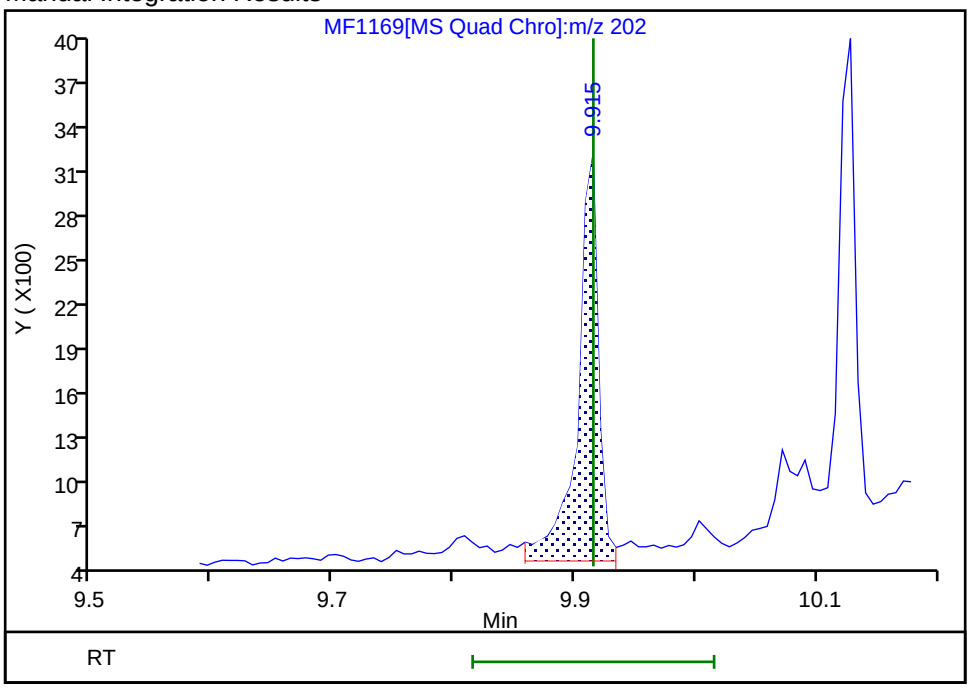
Processing Integration Results

RT: 9.92
Area: 6501
Amount: 0.003865
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 3171
Amount: 0.001885
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:08:04 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

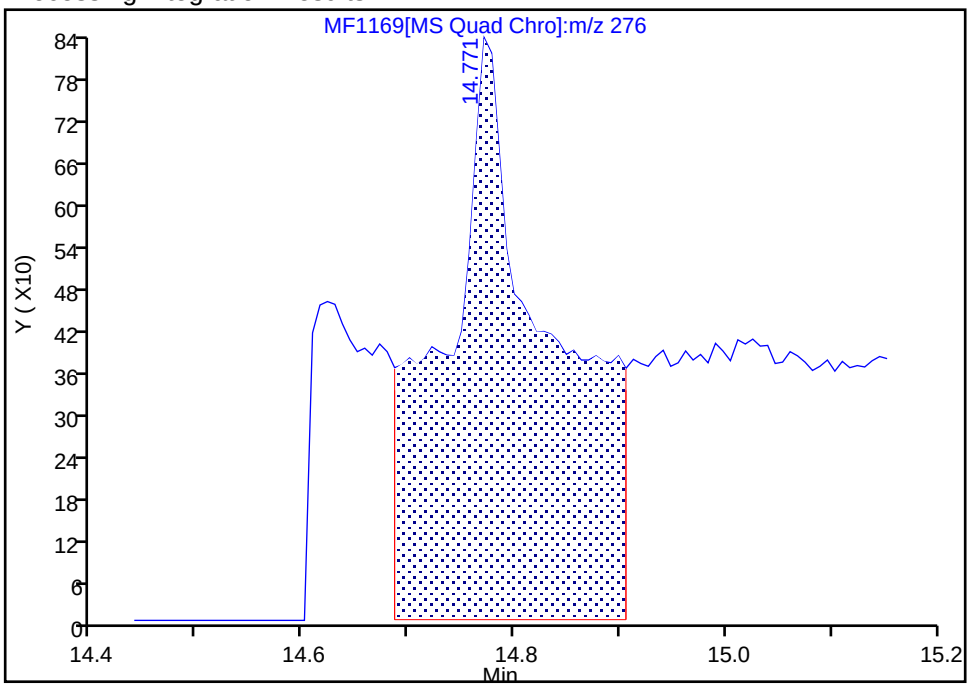
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

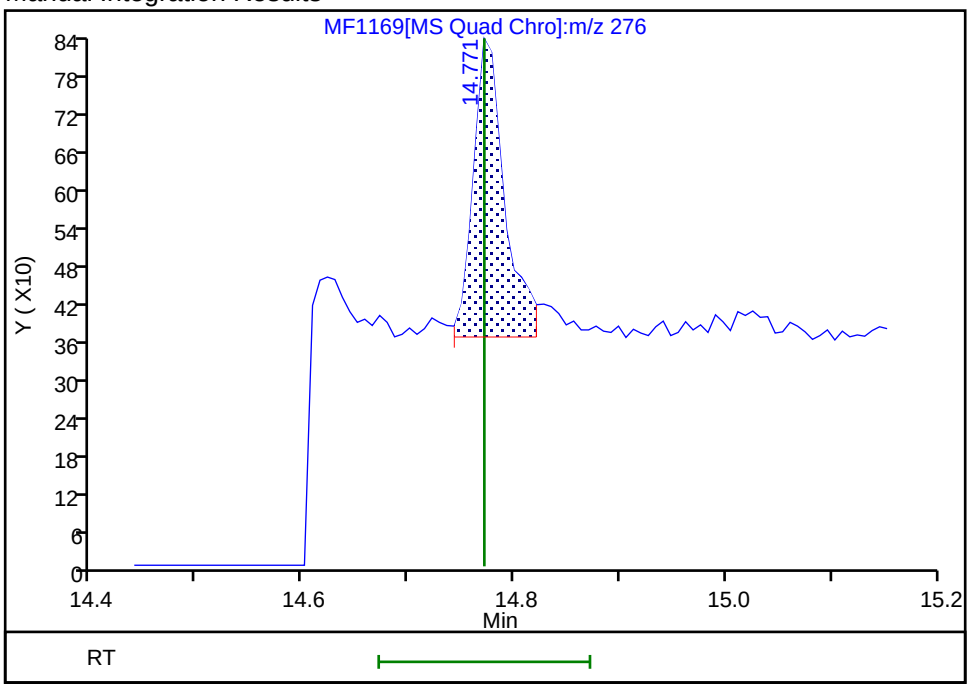
Processing Integration Results

RT: 14.77
Area: 5896
Amount: 0.004232
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 970
Amount: 0.000696
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:09:06 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

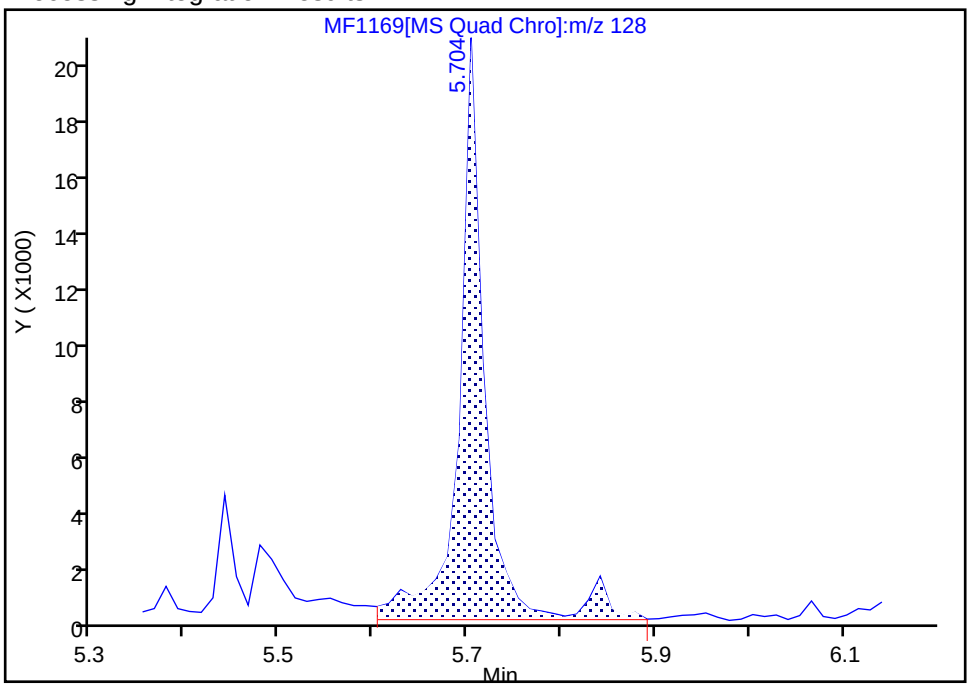
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

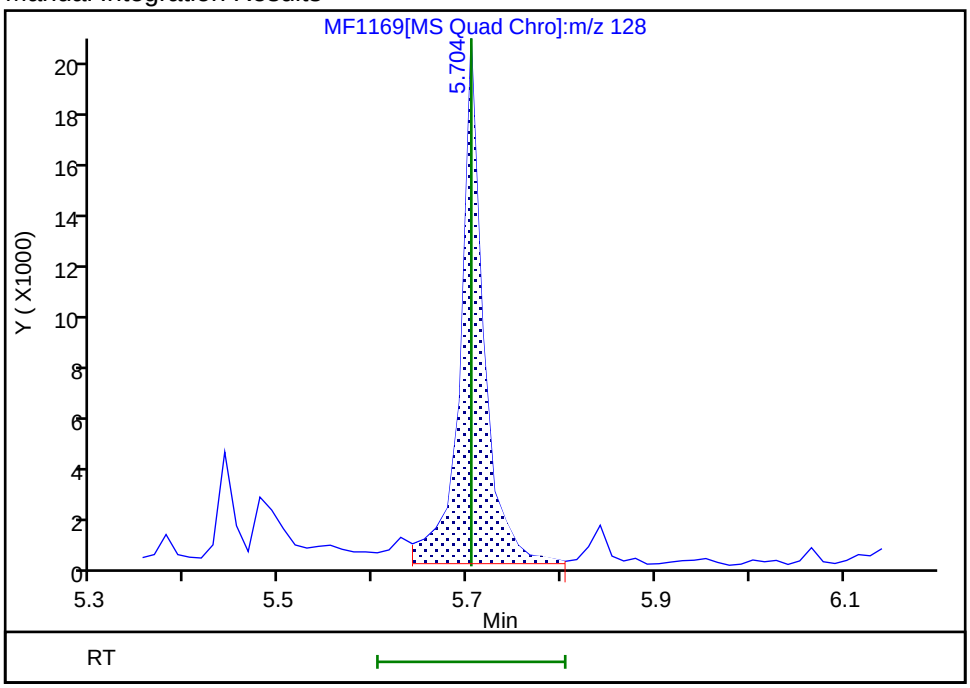
Processing Integration Results

RT: 5.70
Area: 38526
Amount: 0.032810
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 34000
Amount: 0.028955
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:07:35 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

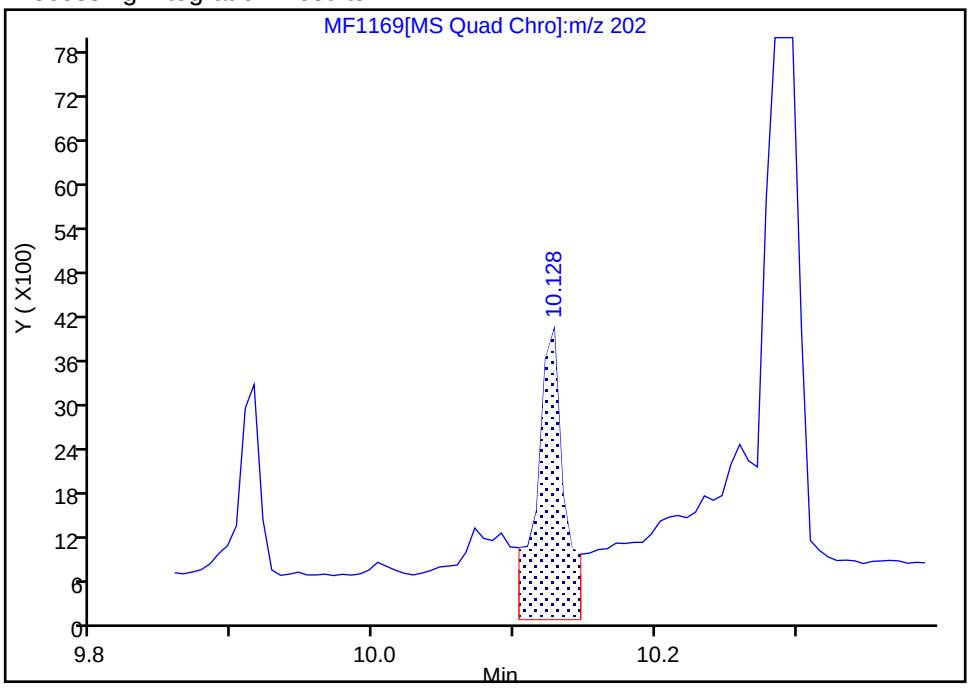
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1169.D				
Injection Date:	16-Jun-2023 11:50:06	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11	Lab Sample ID:	410-130132-11		
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

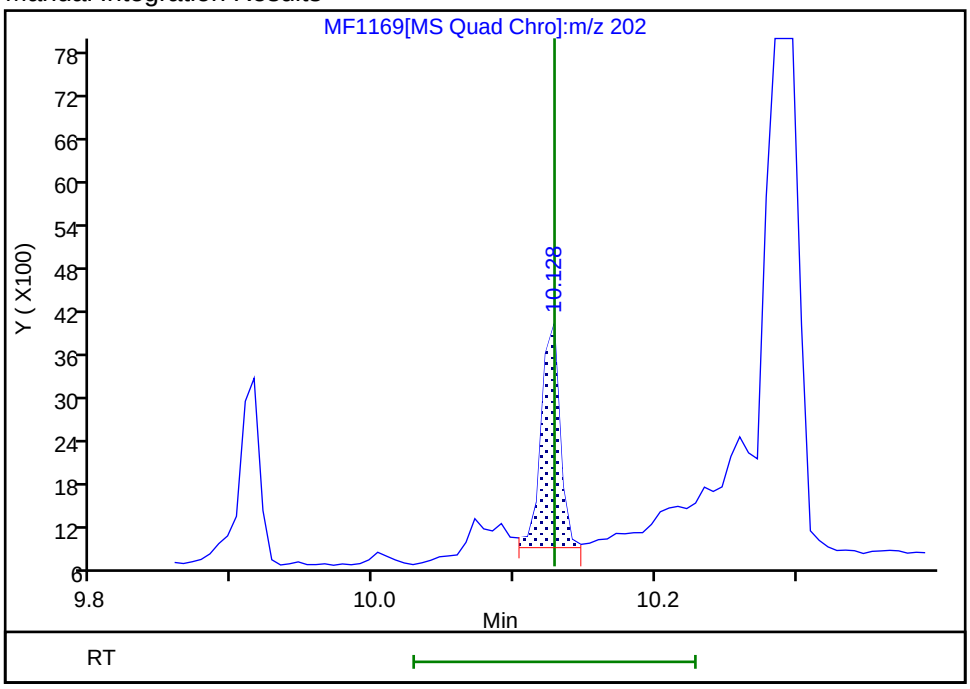
Processing Integration Results

RT: 10.13
Area: 5154
Amount: 0.002735
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 2896
Amount: 0.001537
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:08:11 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-10S-20230608
Lab Sample ID: 410-130132-12

Matrix: Water
Lab File ID: MF1176.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 14:28

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 248.8(mL)
Date Analyzed: 06/16/2023 14:20

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	0.078		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	0.014	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	80		33-120
93951-69-0	Fluoranthene-d10 (Surr)	85		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D
Lims ID: 410-130132-D-12-A
Client ID: MW-10S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 14:20:10 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-12-A
Misc. Info.: 410-0086777-027
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:23:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	99	69637	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	232679	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	91	20863	0.0193	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.419	0.000	96	113390	0.2001	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	88	140388	0.2500	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	269993	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	262143	0.2124	
25 Fluoranthene	202	9.915	9.915	0.000	97	3111	0.002066	7M
26 Pyrene	202	10.128	10.128	0.000	99	5919	0.003426	
* 29 Chrysene-d12	240	11.372	11.372	0.000	58	268989	0.2500	
30 Chrysene	228	11.403	11.388	0.000	100	2799	0.001634	7M
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	3478	0.002236	7M
34 Benzo[k]fluoranthene	252	12.753	12.761	-0.007	97	1384	0.000834	7Ma
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.128	0.000	100	209954	0.1939	
* 38 Perylene-d12	264	13.236	13.244	-0.008	100	294387	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	99	1775	0.001371	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

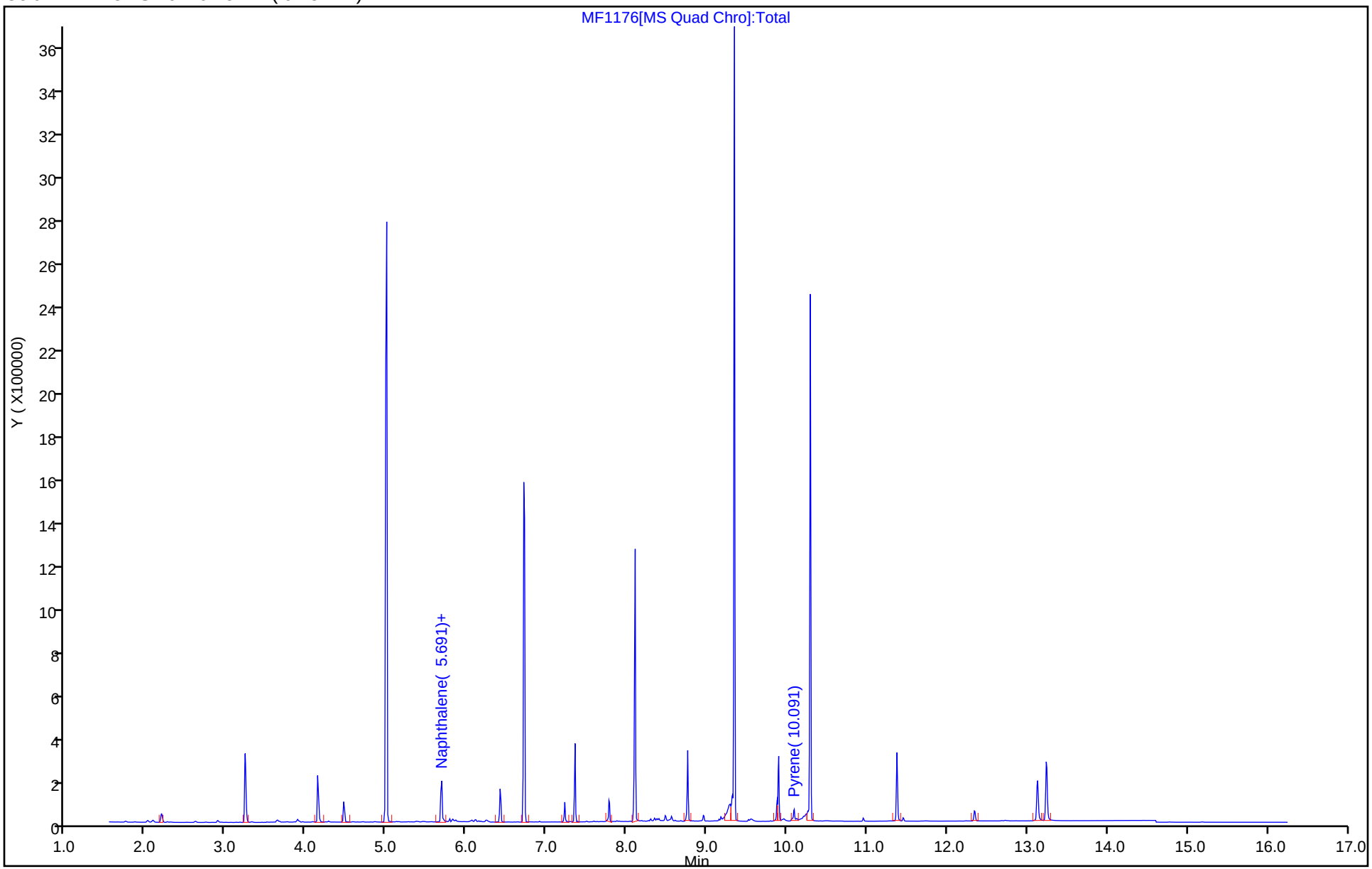
Report Date: 19-Jun-2023 12:32:56 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D

Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12	Worklist Smp#:	27
Client ID:	MW-10S-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Lims ID:	410-130132-D-12-A				
Client ID:	MW-10S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 14:20:10	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-12-A				
Misc. Info.:	410-0086777-027				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:23:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.2001	80.06
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2124	84.97
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1939	77.58

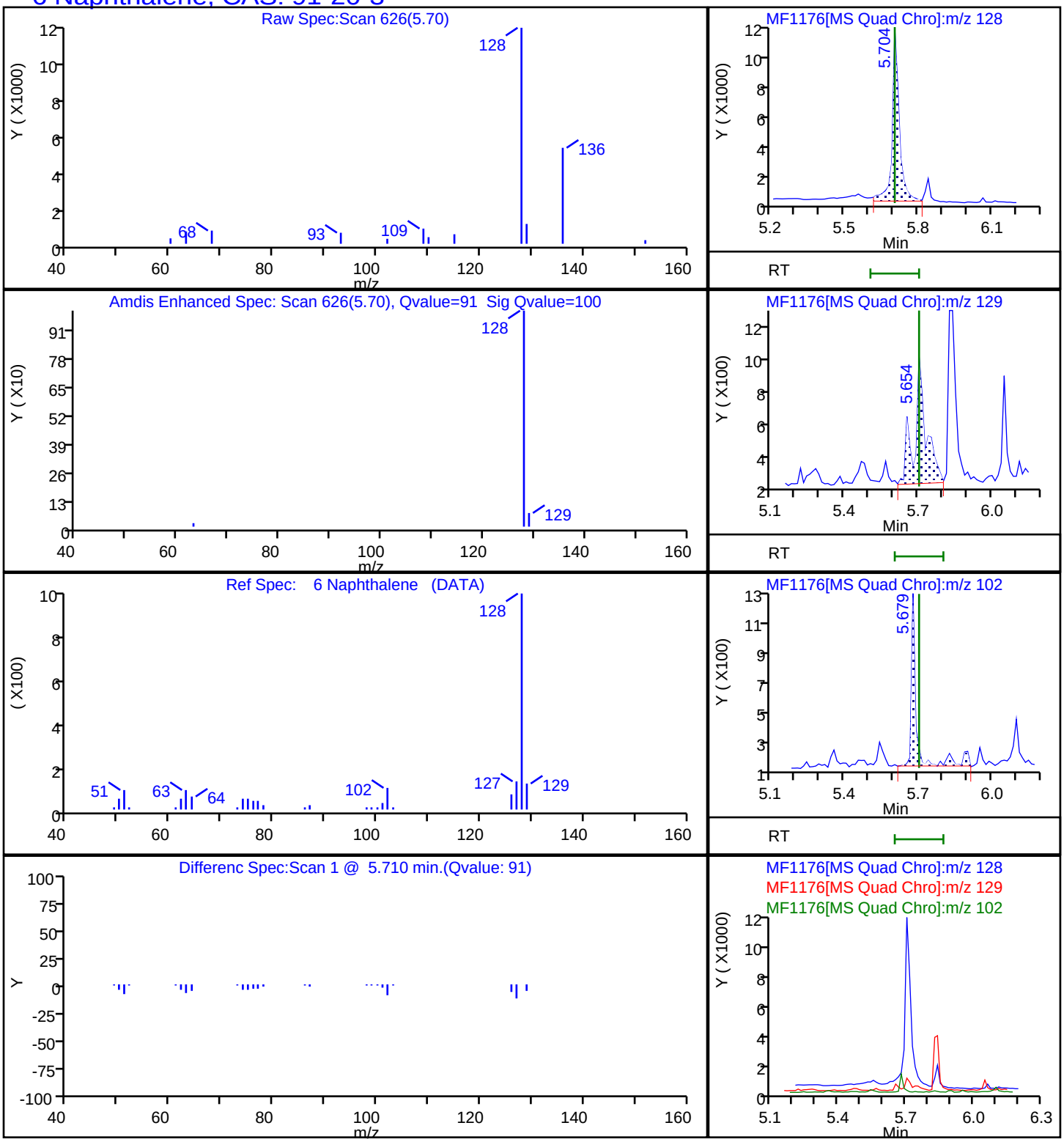
Report Date: 19-Jun-2023 12:32:56 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D

Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



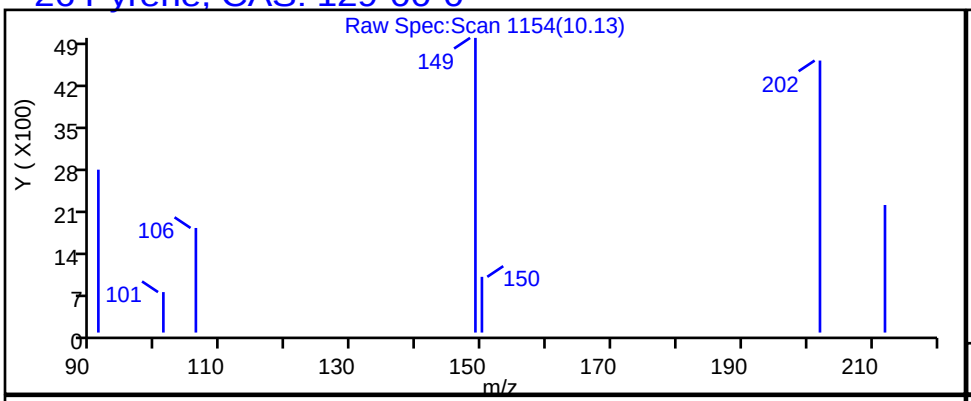
Report Date: 19-Jun-2023 12:32:56 Chrom Revision: 2.3 05-Jun-2023 19:02:10

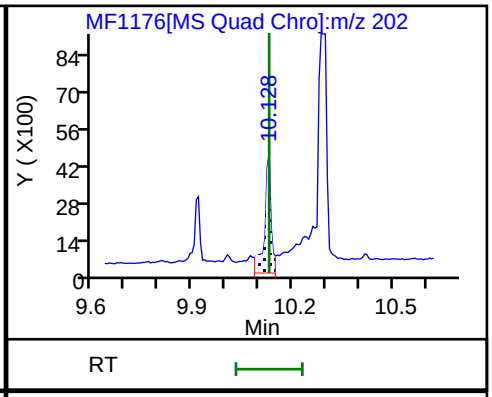
Eurofins Lancaster Laboratories Environment Testing, LLC

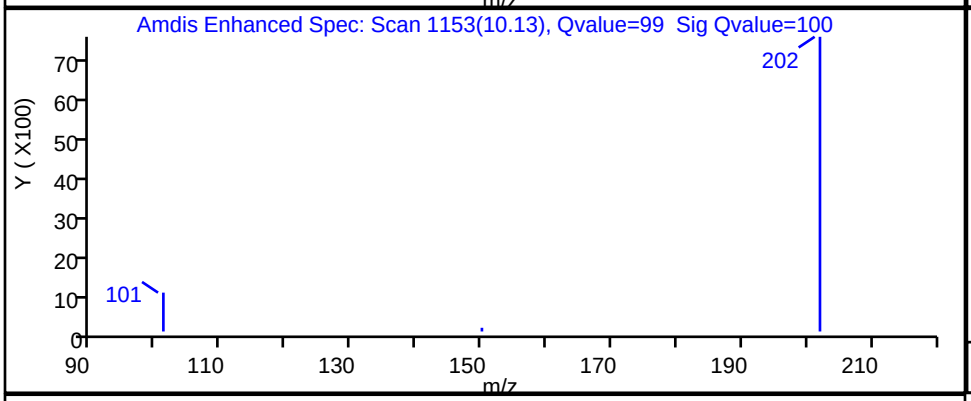
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D

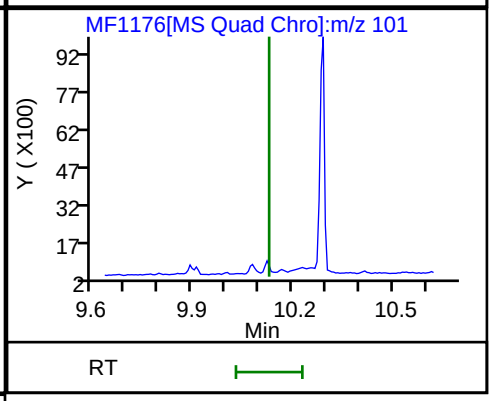
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12
Client ID:	MW-10S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

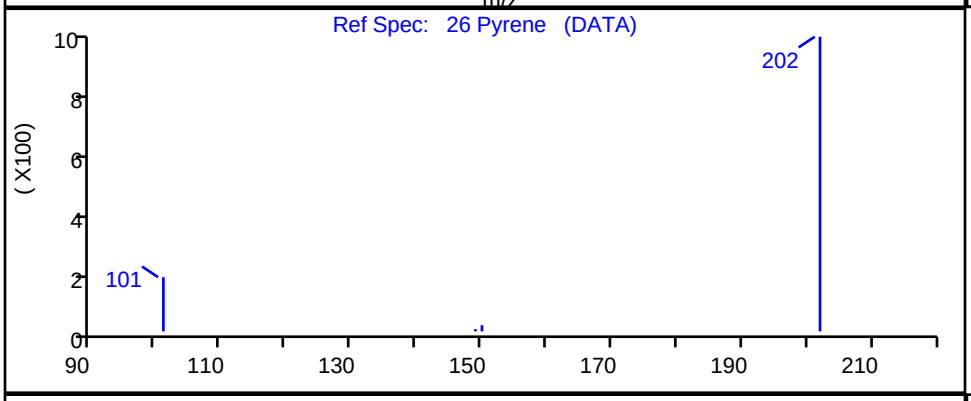
26 Pyrene, CAS: 129-00-0

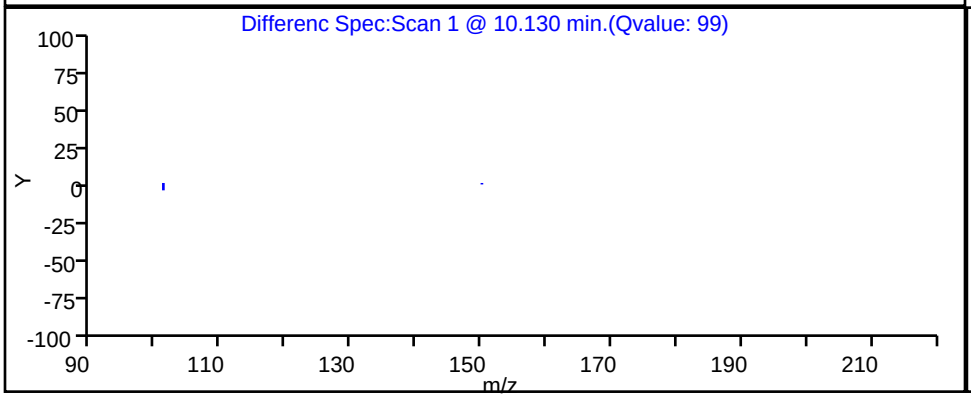


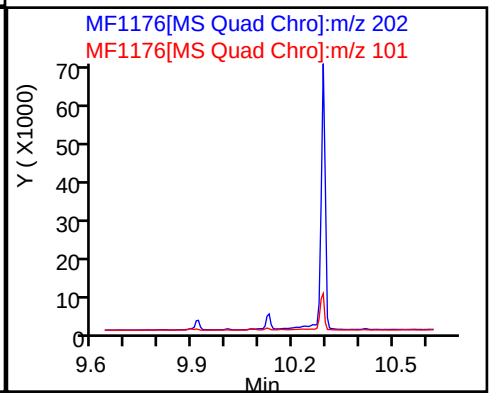












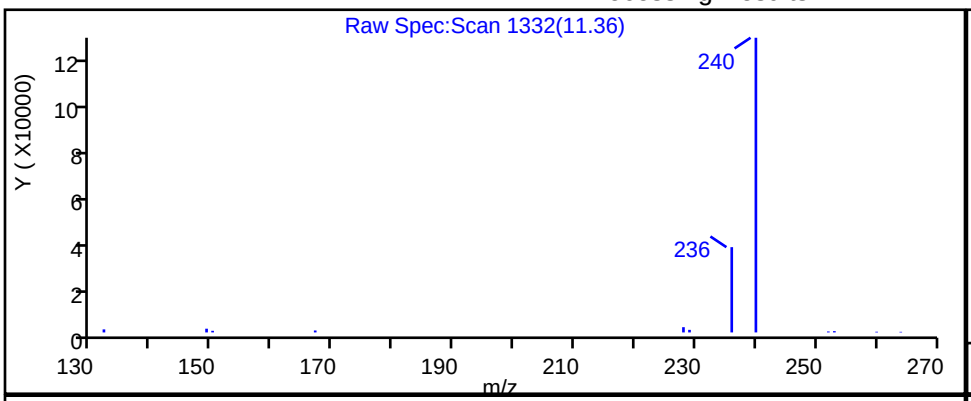
User Disabled Compound Report

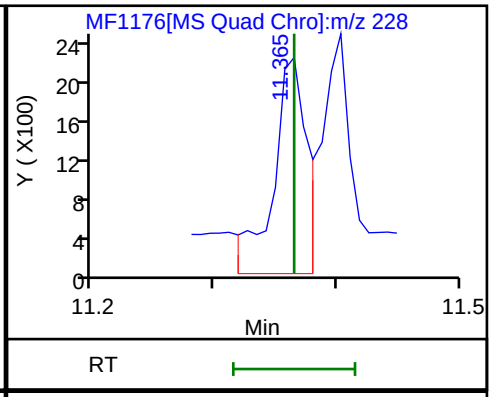
Eurofins Lancaster Laboratories Environment Testing, LLC

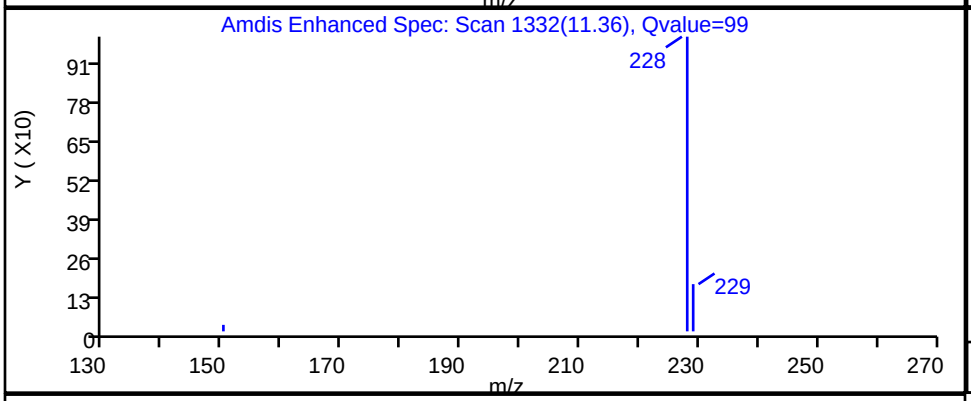
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

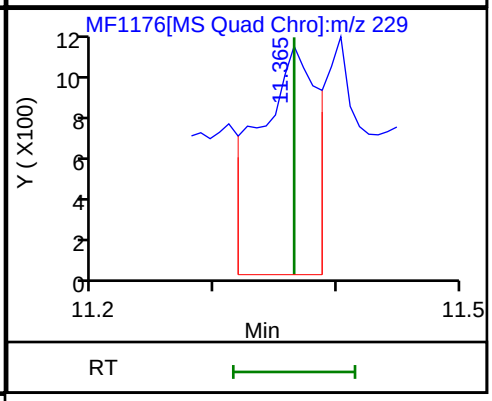
28 Benzo[a]anthracene, CAS: 56-55-3

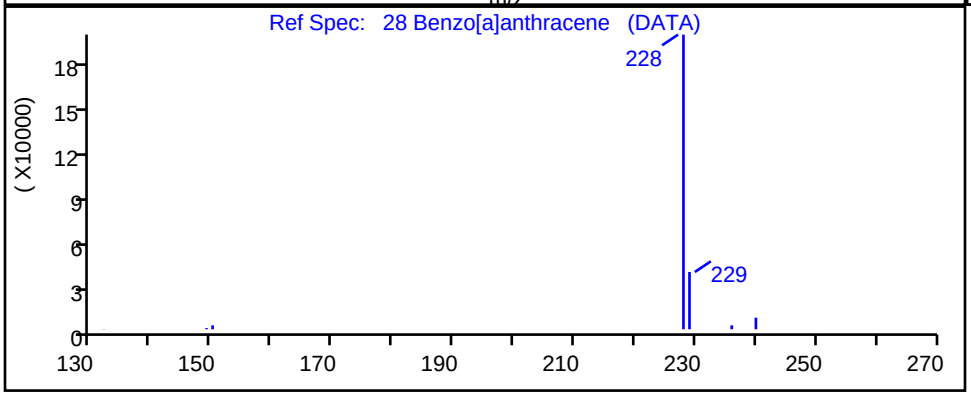
Processing Results











RT	Mass	Response	Amount
11.36	228.00	4002	0.002842
11.36	229.00	3468	

Reviewer: SJ89, 19-Jun-2023 12:23:00 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

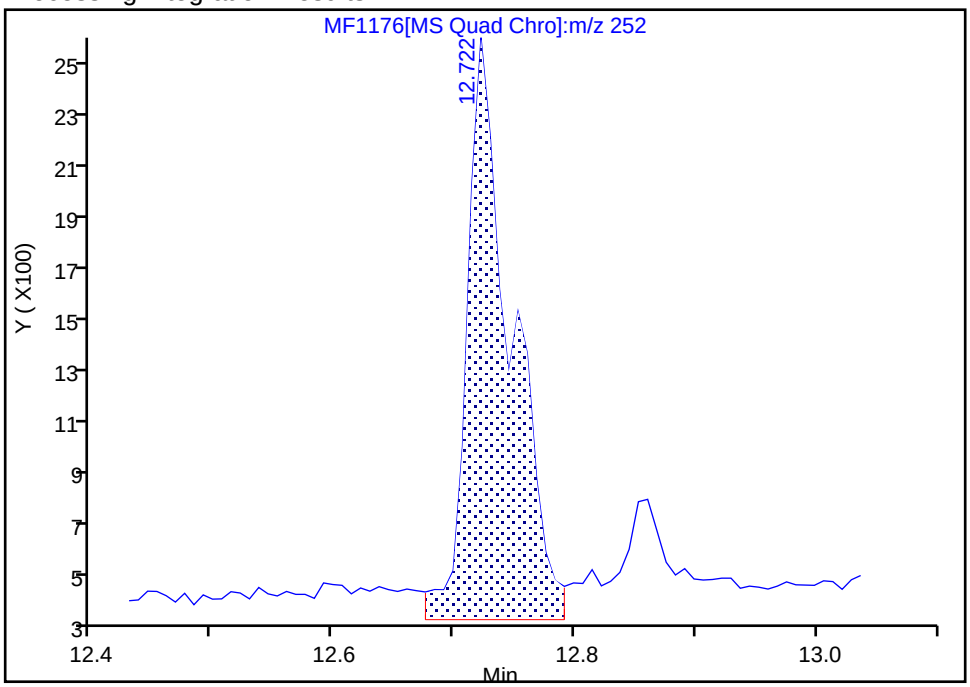
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

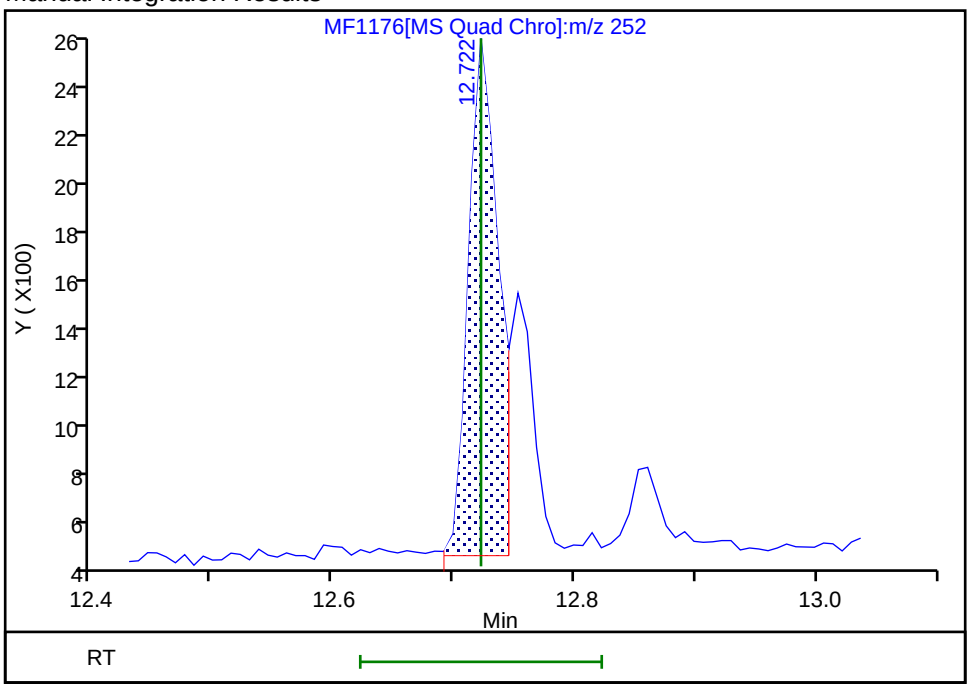
Processing Integration Results

RT: 12.72
Area: 5585
Amount: 0.003590
Amount Units: ug/ml



Manual Integration Results

RT: 12.72
Area: 3478
Amount: 0.002236
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:23:23 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

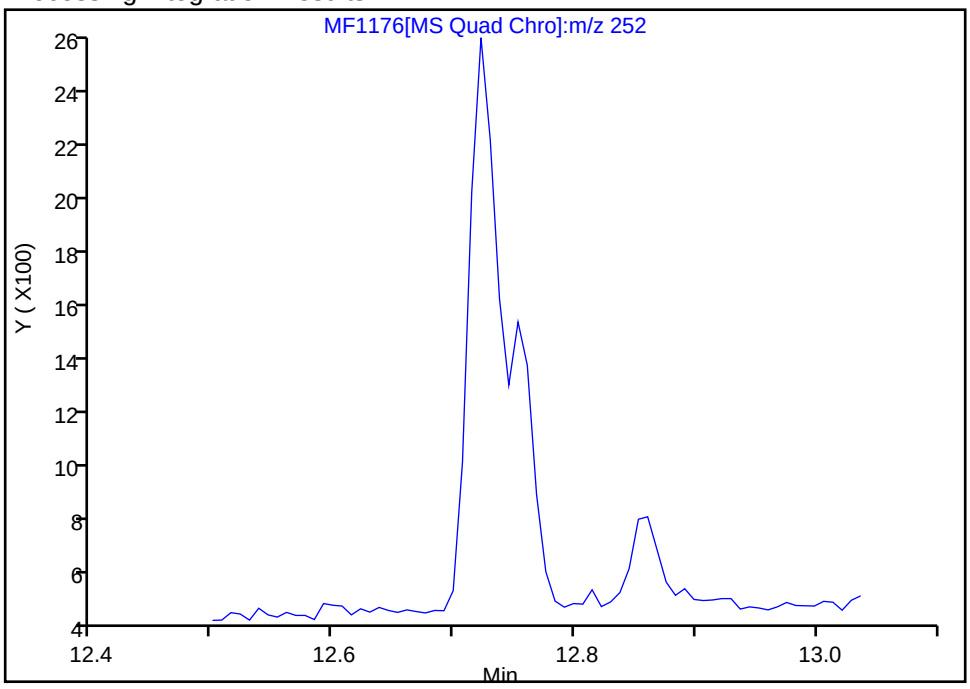
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

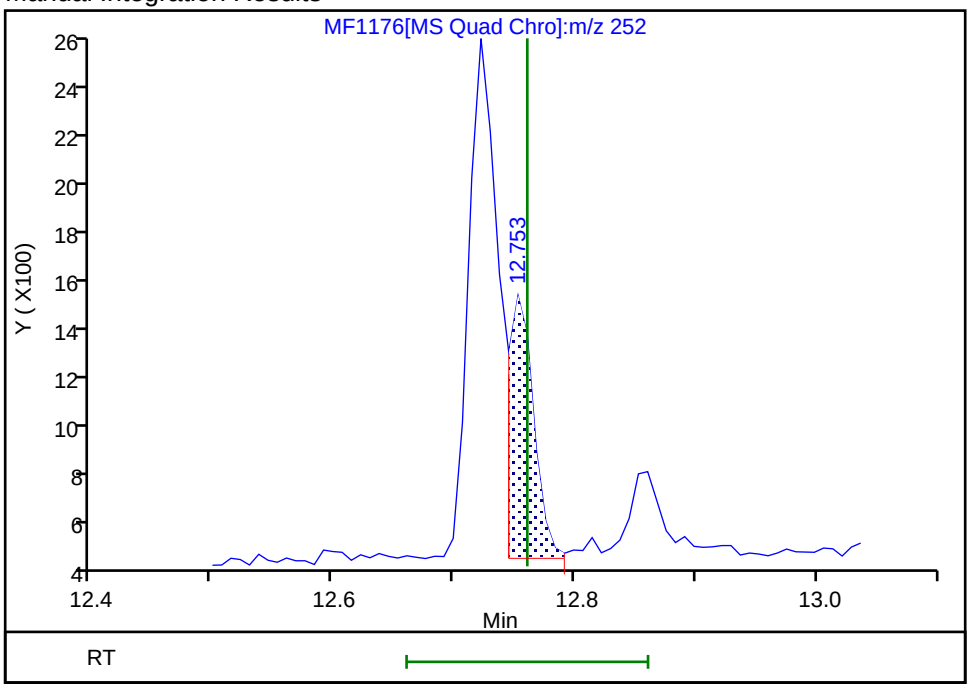
Not Detected
Expected RT: 12.76

Processing Integration Results



Manual Integration Results

RT: 12.75
Area: 1384
Amount: 0.000834
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:23:37 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

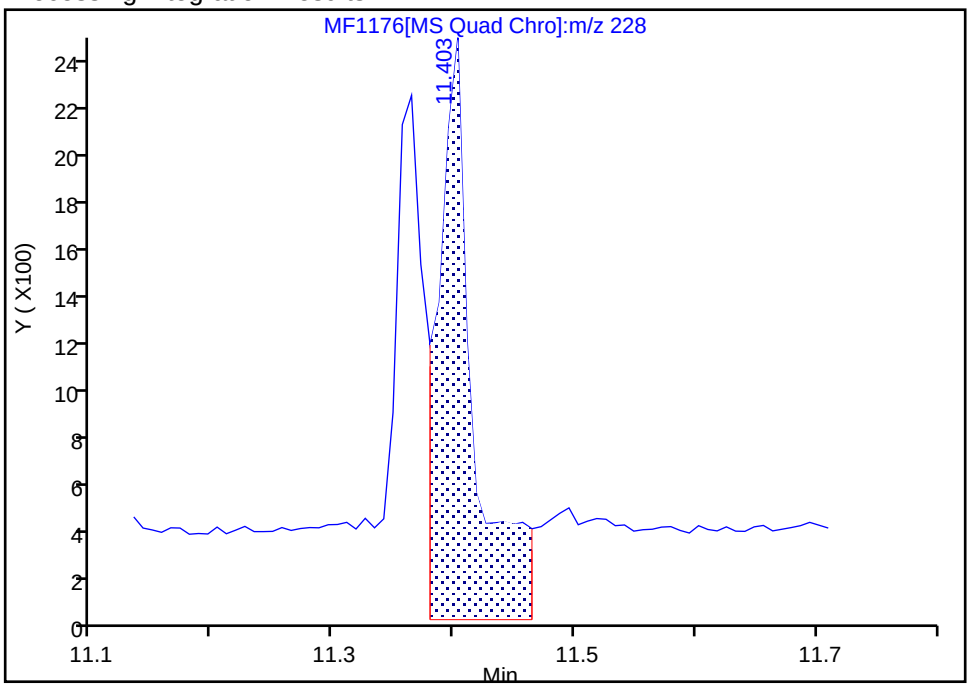
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

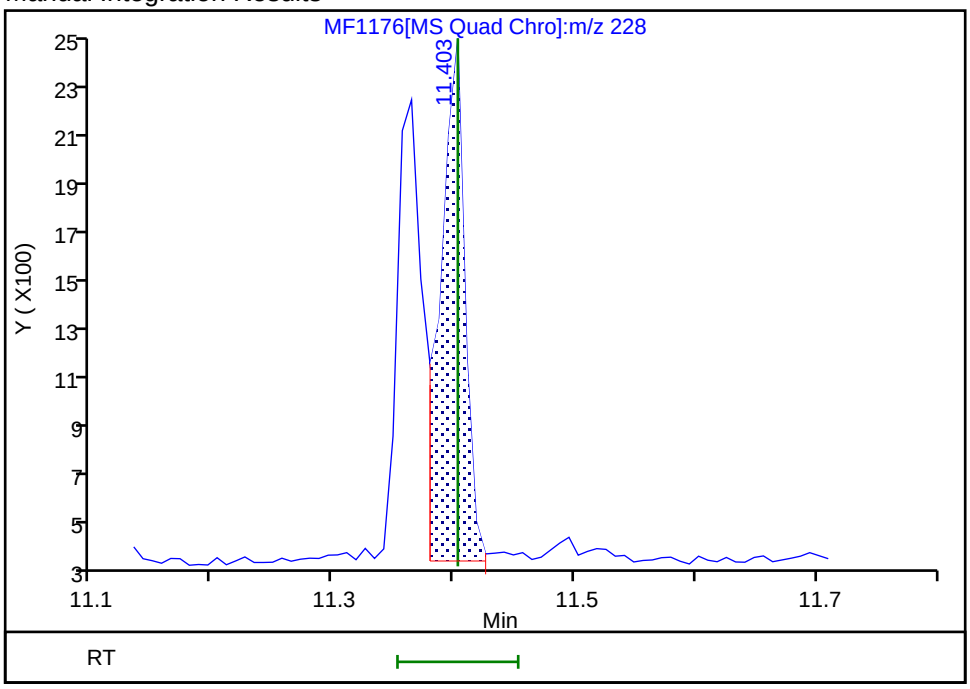
Processing Integration Results

RT: 11.40
Area: 4790
Amount: 0.002796
Amount Units: ug/ml



Manual Integration Results

RT: 11.40
Area: 2799
Amount: 0.001634
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:23:13 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

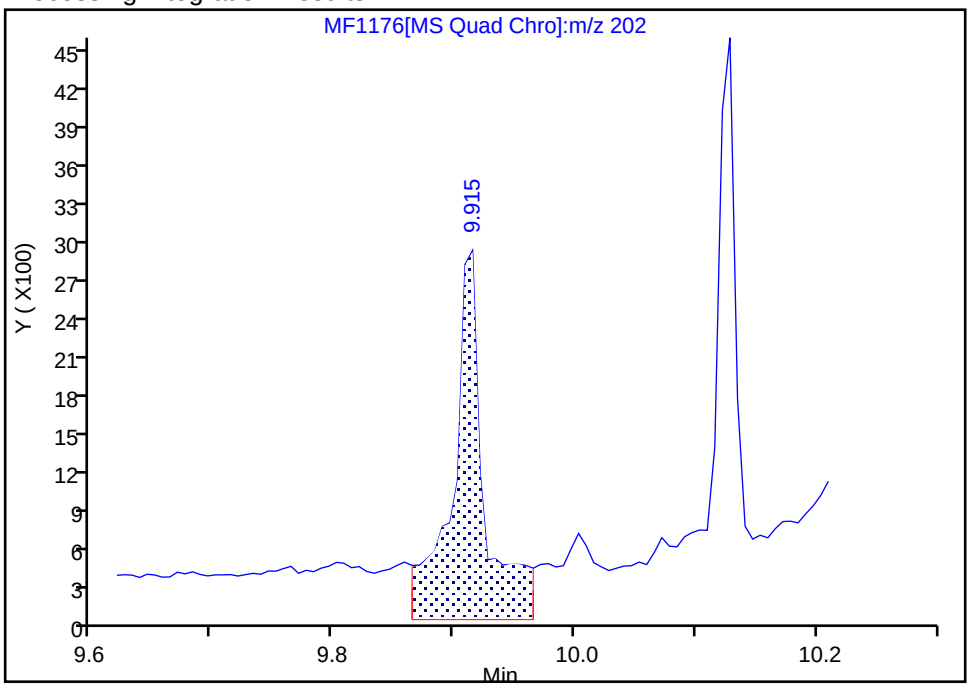
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

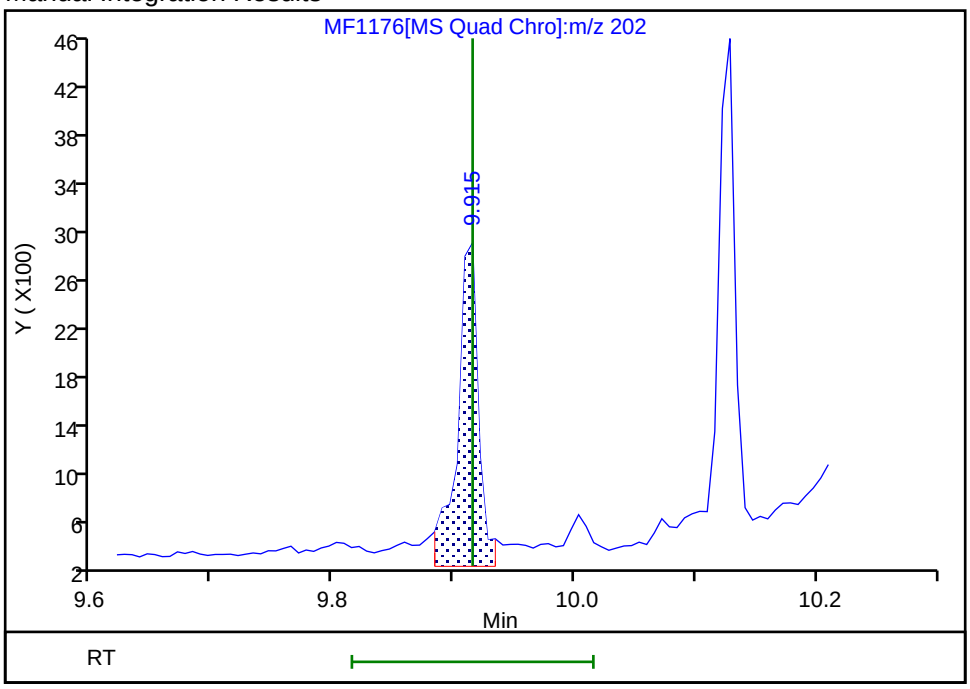
Processing Integration Results

RT: 9.92
Area: 5267
Amount: 0.003498
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 3111
Amount: 0.002066
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:22:44 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

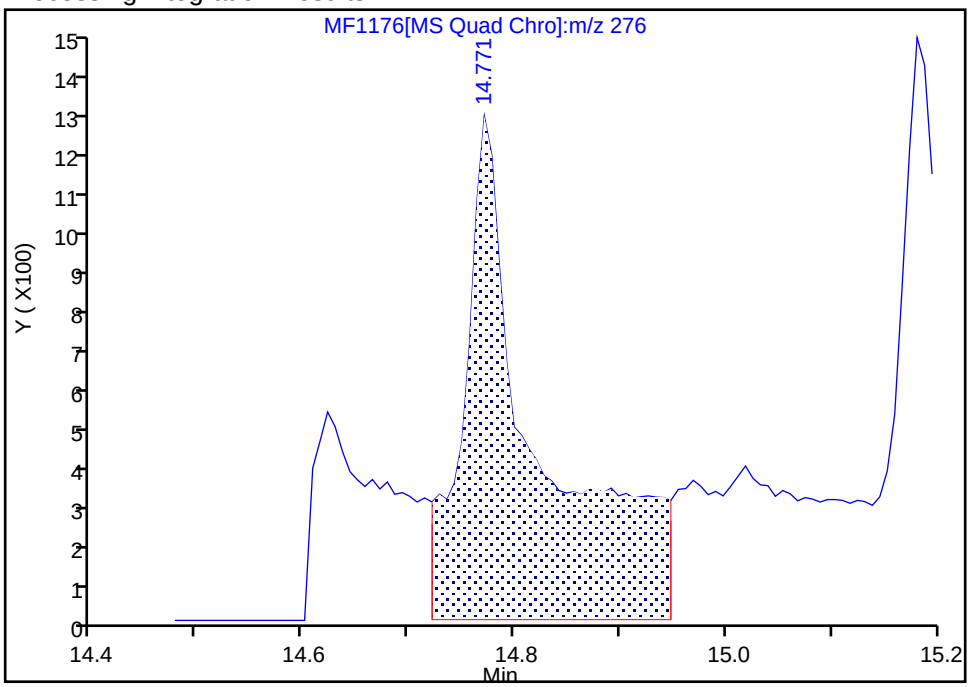
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

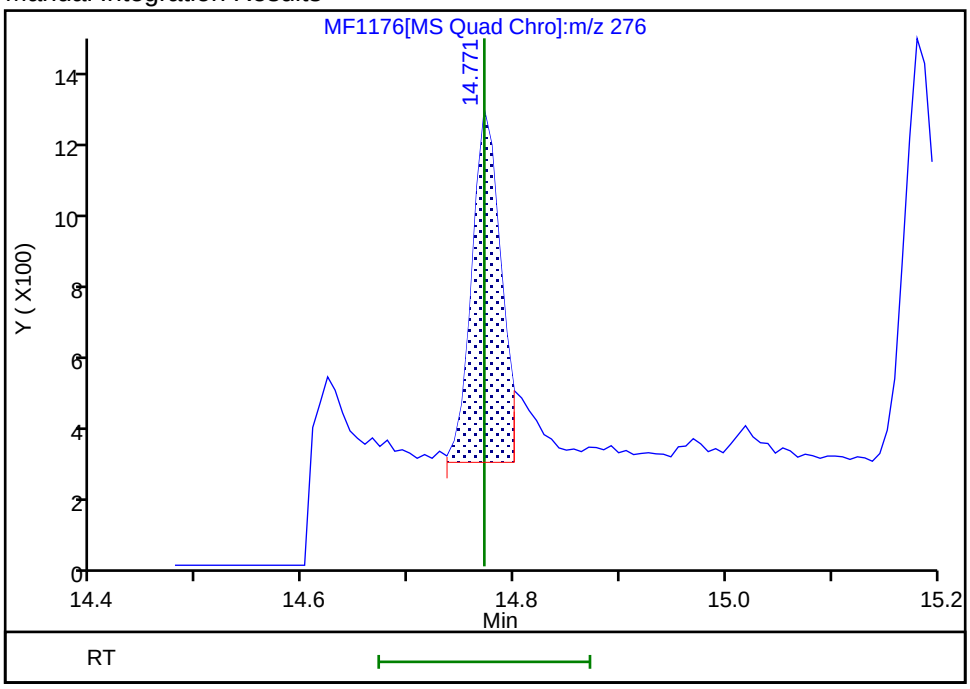
Processing Integration Results

RT: 14.77
Area: 6058
Amount: 0.004681
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 1775
Amount: 0.001371
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:23:45 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

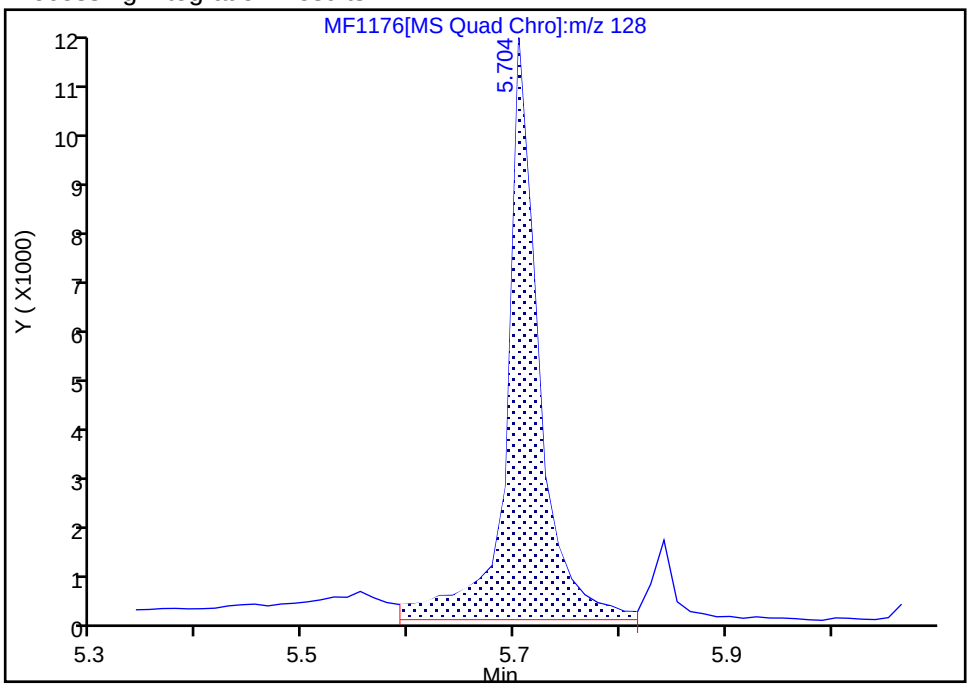
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1176.D				
Injection Date:	16-Jun-2023 14:20:10	Instrument ID:	HP21585		
Lims ID:	410-130132-D-12-A	Lab Sample ID:	410-130132-12		
Client ID:	MW-10S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

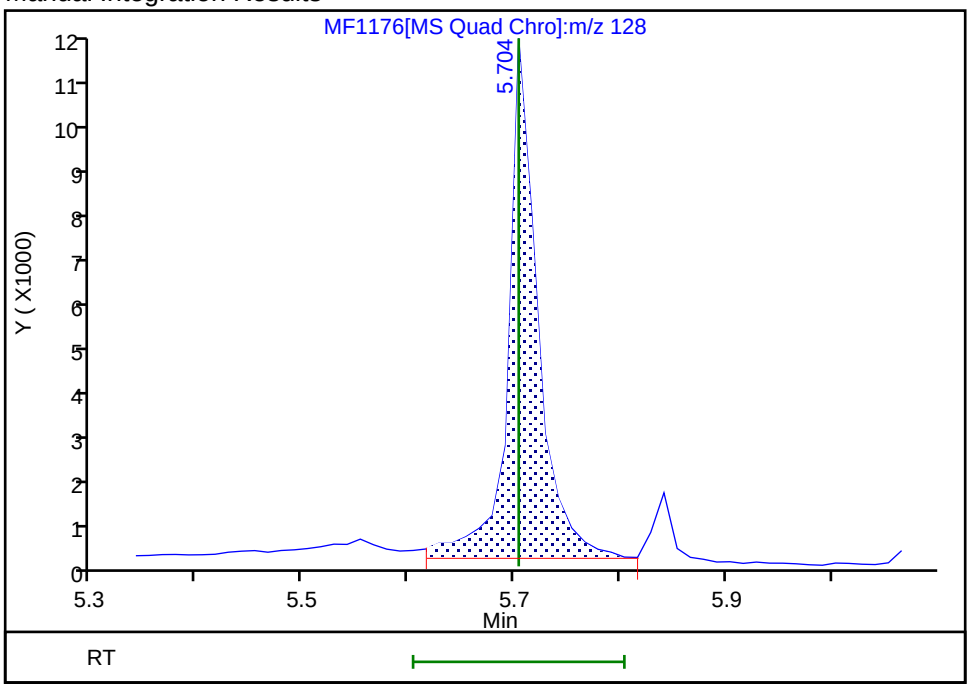
Processing Integration Results

RT: 5.70
Area: 22975
Amount: 0.021251
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 20863
Amount: 0.019298
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:22:31 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-14S-20230608
Lab Sample ID: 410-130132-13

Matrix: Water
Lab File ID: MF1177.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 15:20

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 246.5(mL)
Date Analyzed: 06/16/2023 14:41

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.28		0.051	0.010
208-96-8	Acenaphthylene	0.011	J	0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	0.044	J	0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	0.42		0.071	0.030
85-01-8	Phenanthrene	ND		0.071	0.030
129-00-0	Pyrene	0.013	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	63		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		33-120
93951-69-0	Fluoranthene-d10 (Surr)	84		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D
Lims ID: 410-130132-D-13-A
Client ID: MW-14S-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 14:41:40 ALS Bottle#: 0 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-13-A
Misc. Info.: 410-0086777-028
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:26:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	99	67565	0.2500	M
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	234600	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	92	112679	0.1034	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.419	0.000	99	108543	0.1900	
12 Acenaphthylene	152	7.217	7.217	0.000	96	2793	0.002714	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	90	137662	0.2500	
14 Acenaphthene	154	7.384	7.385	0.000	87	45746	0.0686	
17 Fluorene	166	7.871	7.871	0.000	98	9182	0.0108	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	263364	0.2500	
22 Anthracene	178	8.831	8.831	0.000	100	2321	0.002042	7M
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	251891	0.2092	
25 Fluoranthene	202	9.915	9.915	0.000	97	3416	0.002326	7M
26 Pyrene	202	10.128	10.128	0.000	98	5379	0.003162	M
* 29 Chrysene-d12	240	11.372	11.372	0.000	55	264862	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.128	-0.001	100	166435	0.1569	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	288559	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.778	14.778	0.007	100	731	0.000576	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

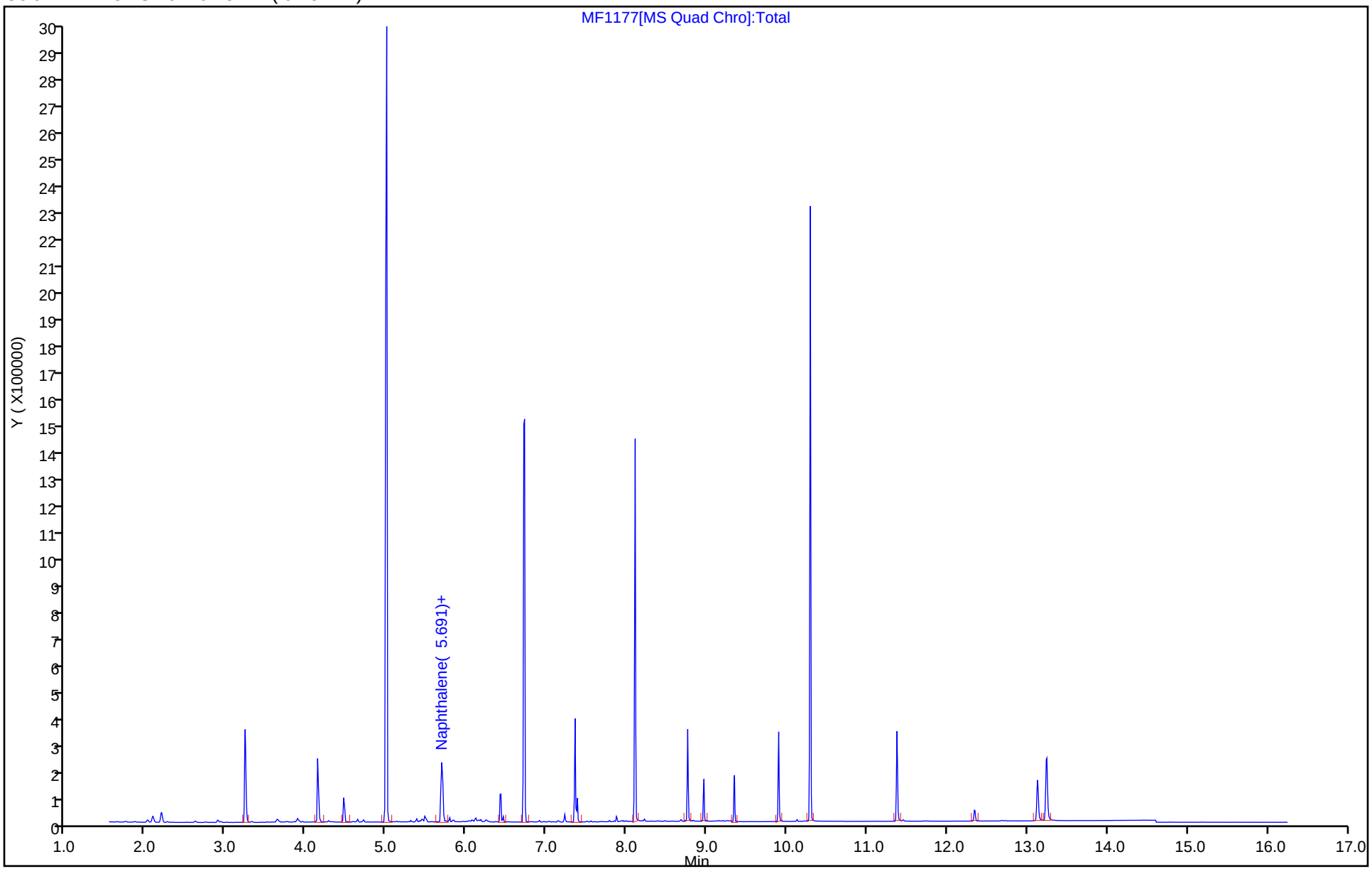
Report Date: 19-Jun-2023 12:32:57 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D

Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13	Worklist Smp#:	28
Client ID:	MW-14S-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Lims ID:	410-130132-D-13-A				
Client ID:	MW-14S-20230608				
Sample Type:	Client				
Inject. Date:	16-Jun-2023 14:41:40	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-13-A				
Misc. Info.:	410-0086777-028				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:26:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1900	76.01
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2092	83.70
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1569	62.74

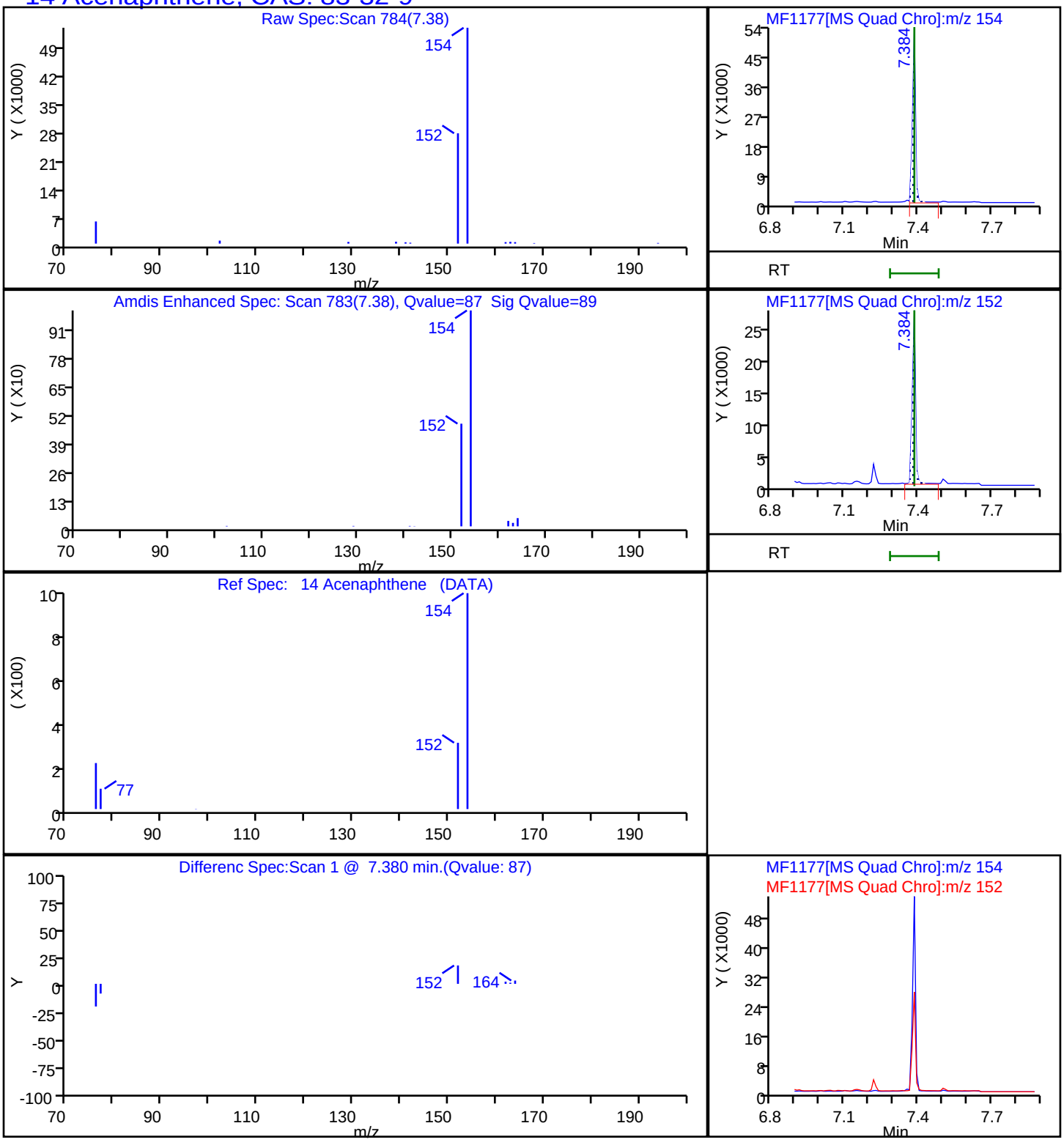
Report Date: 19-Jun-2023 12:32:57 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D

Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

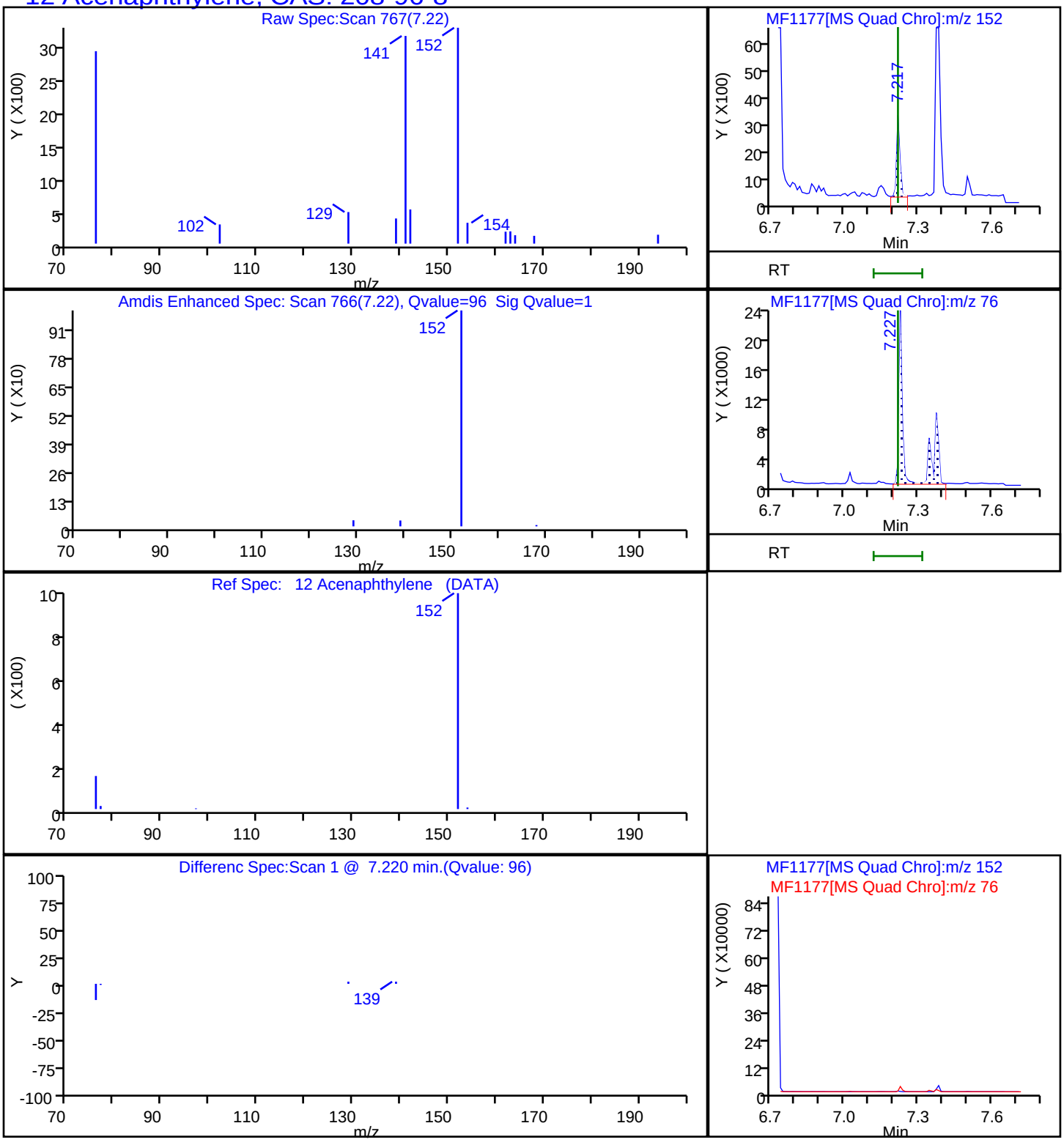
14 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D		
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13
Client ID:	MW-14S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

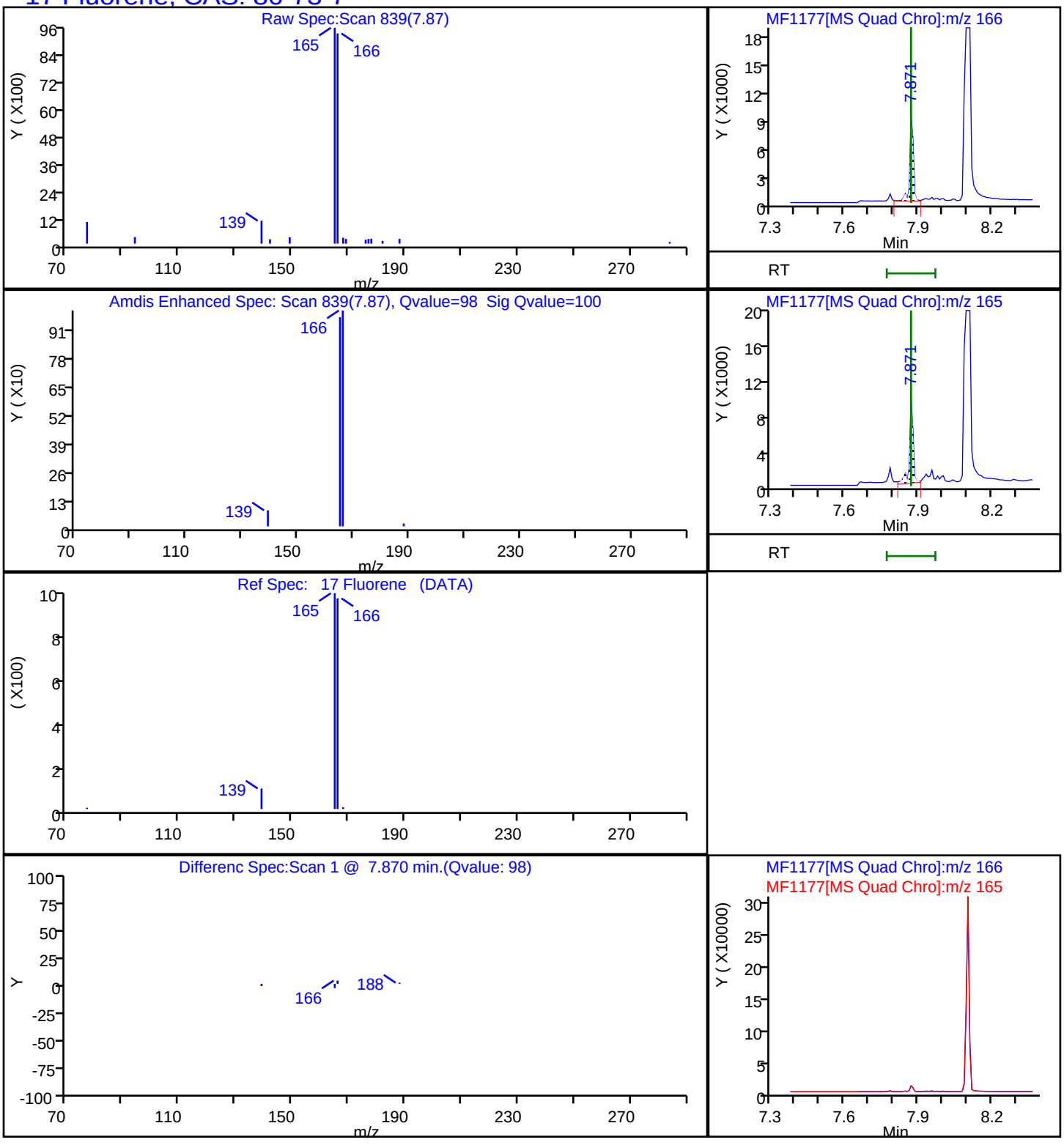
12 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D		
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13
Client ID:	MW-14S-20230608		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

17 Fluorene, CAS: 86-73-7



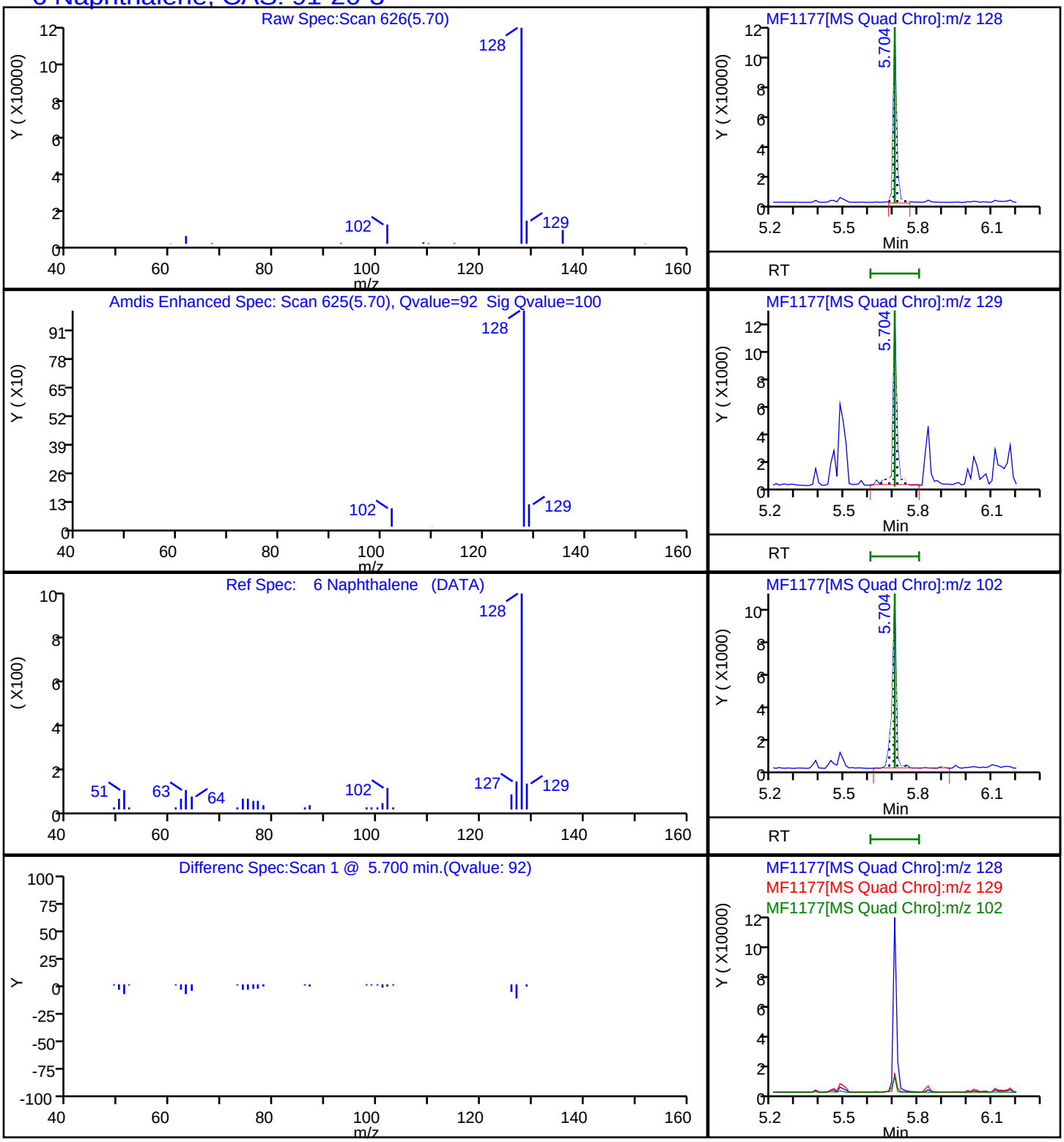
Report Date: 19-Jun-2023 12:32:57 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D

Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

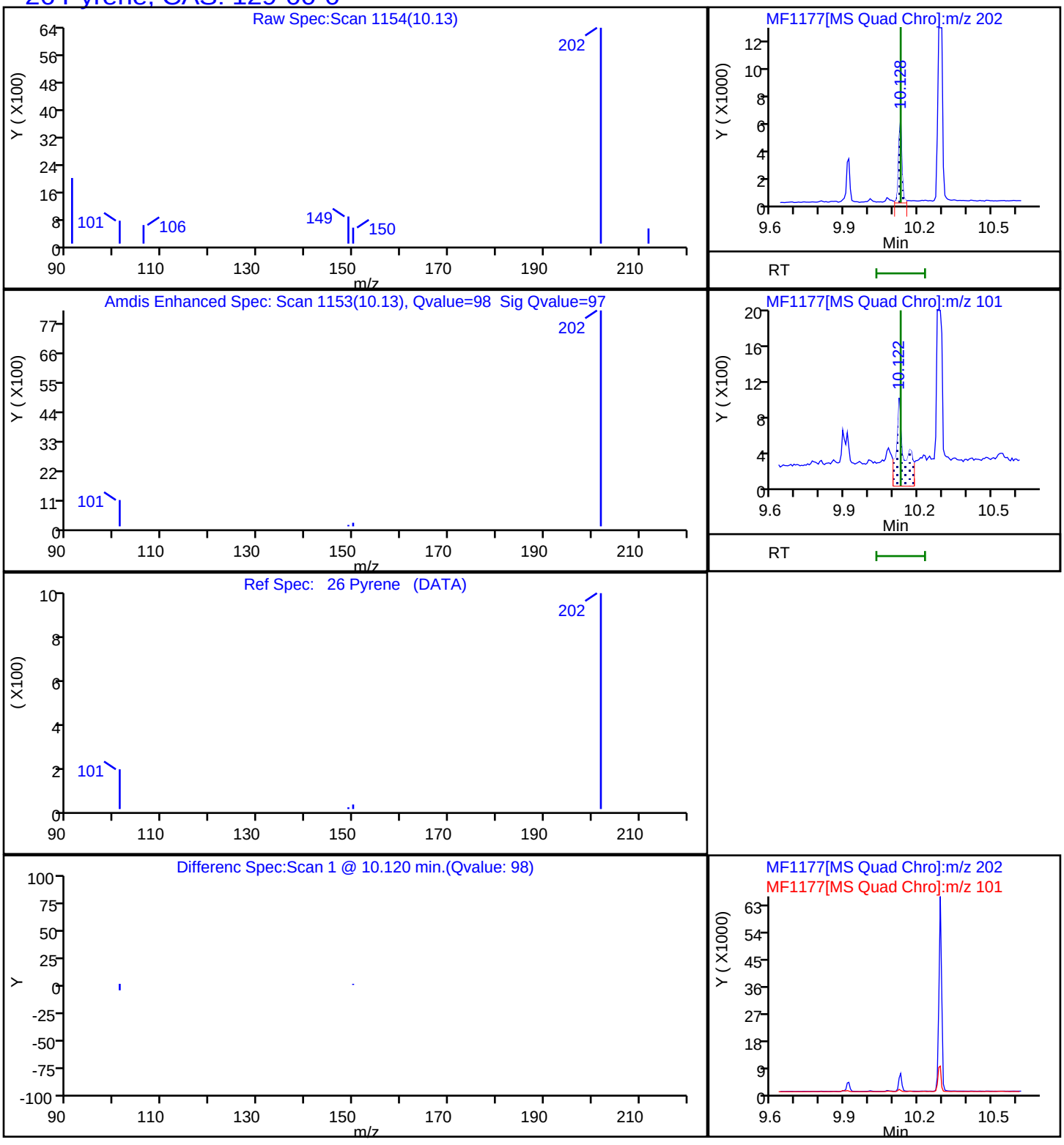
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

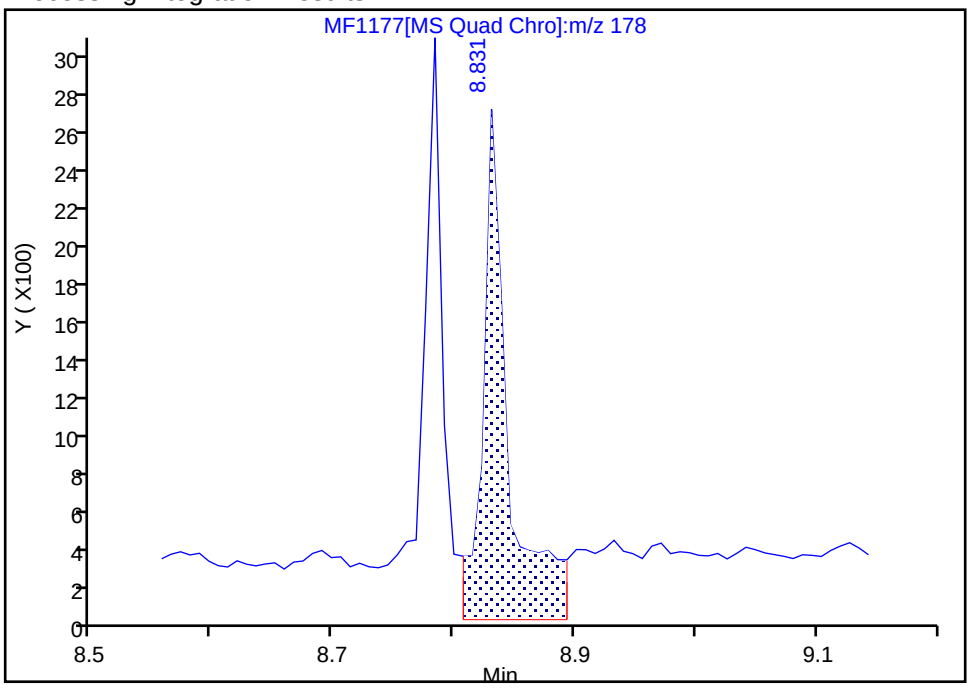
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

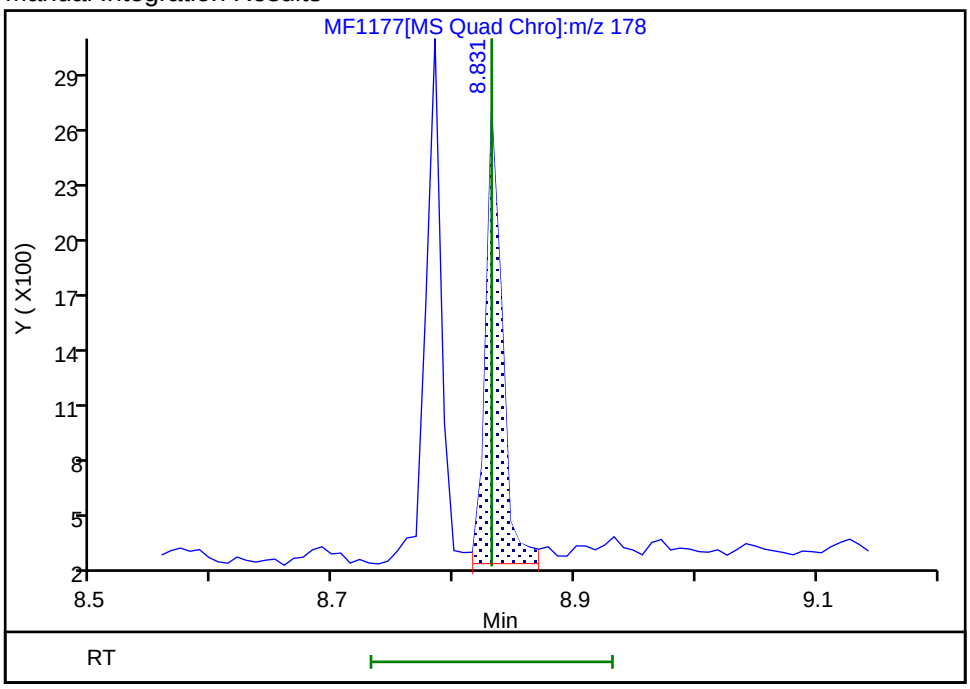
Processing Integration Results

RT: 8.83
Area: 3890
Amount: 0.003422
Amount Units: ug/ml



Manual Integration Results

RT: 8.83
Area: 2321
Amount: 0.002042
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:24:25 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

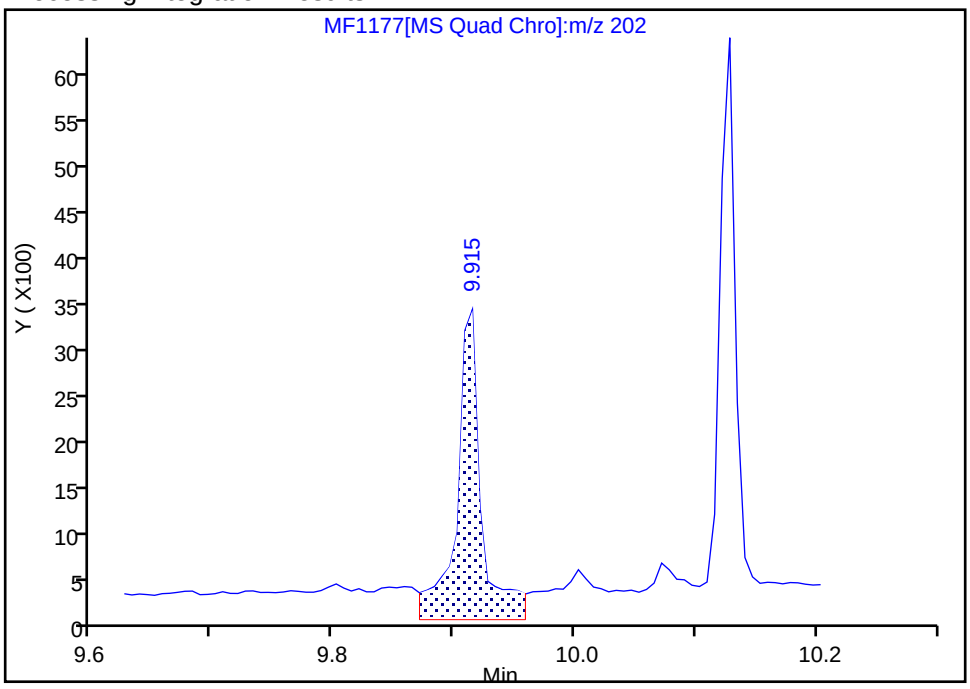
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

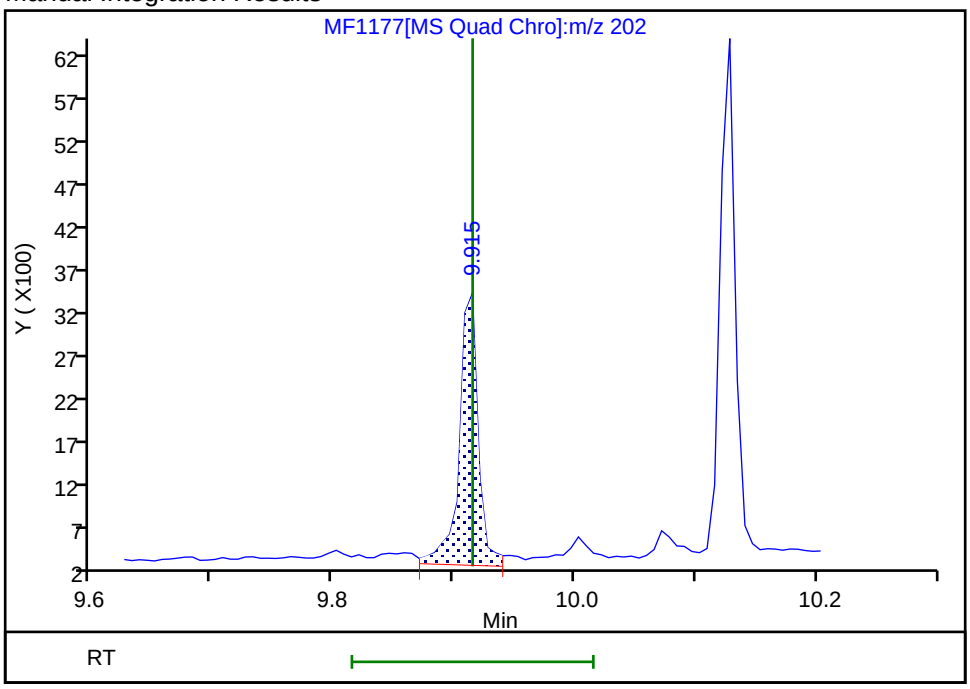
Processing Integration Results

RT: 9.92
Area: 4737
Amount: 0.003226
Amount Units: ug/ml



Manual Integration Results

RT: 9.92
Area: 3416
Amount: 0.002326
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:24:39 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

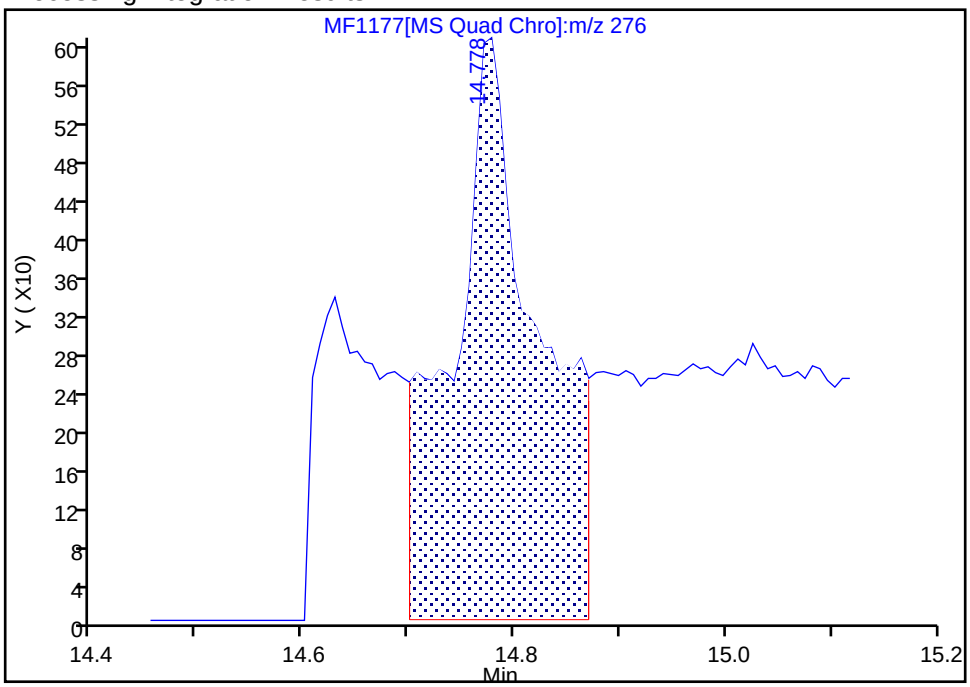
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

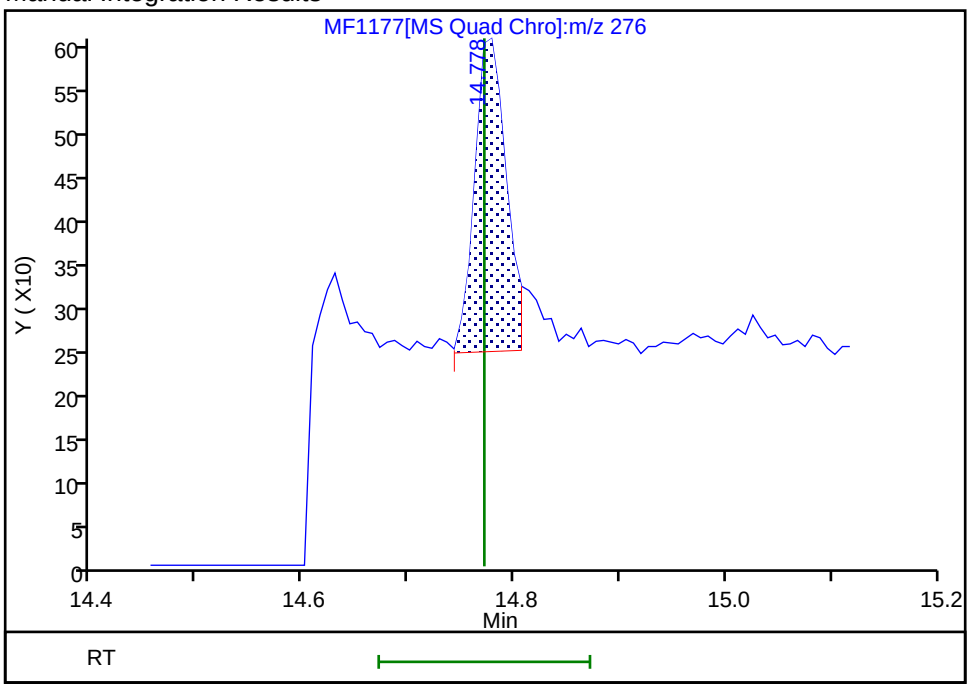
Processing Integration Results

RT: 14.78
Area: 3370
Amount: 0.002656
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 731
Amount: 0.000576
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:26:20 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

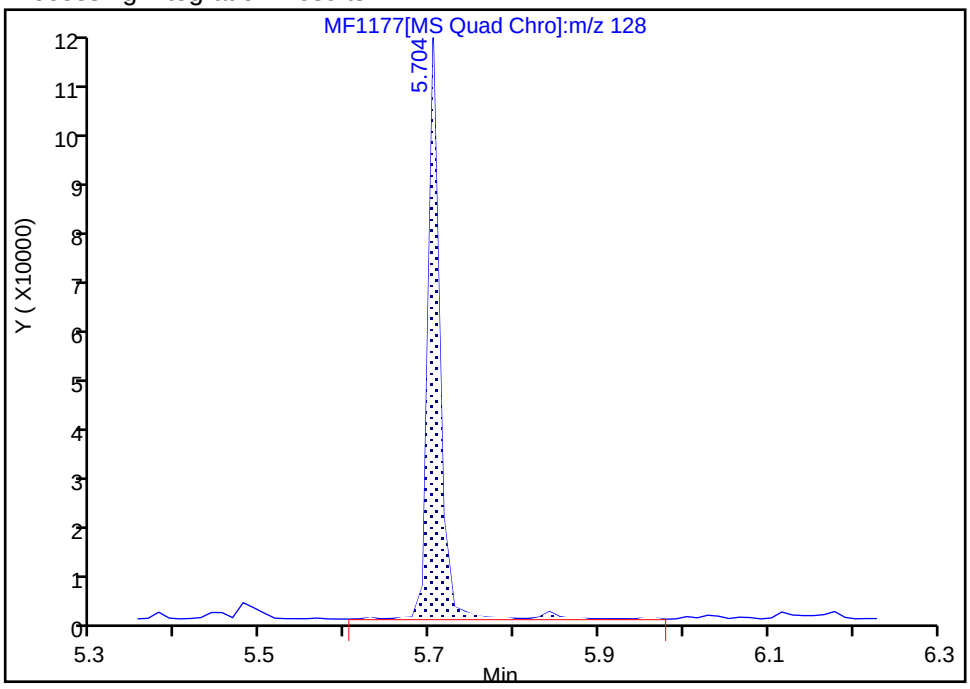
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

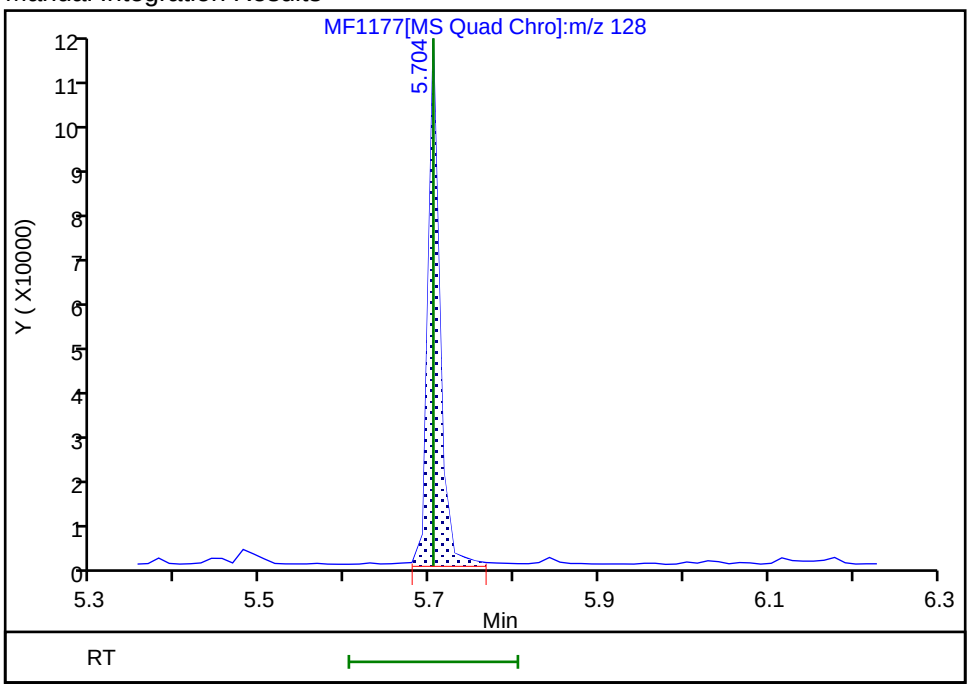
Processing Integration Results

RT: 5.70
Area: 120846
Amount: 0.110865
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 112679
Amount: 0.103373
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:24:11 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

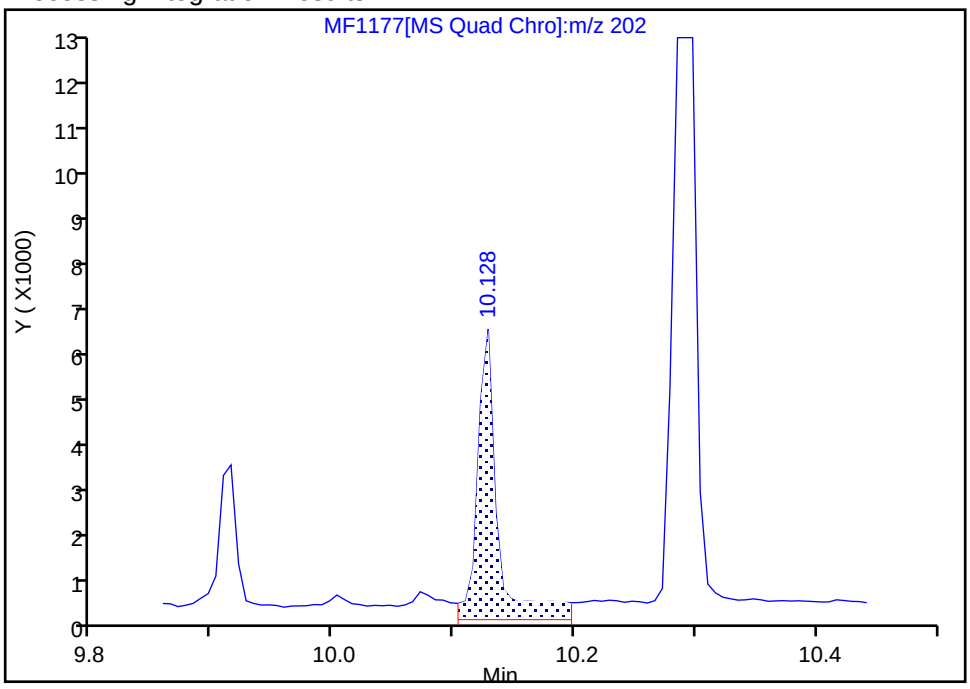
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

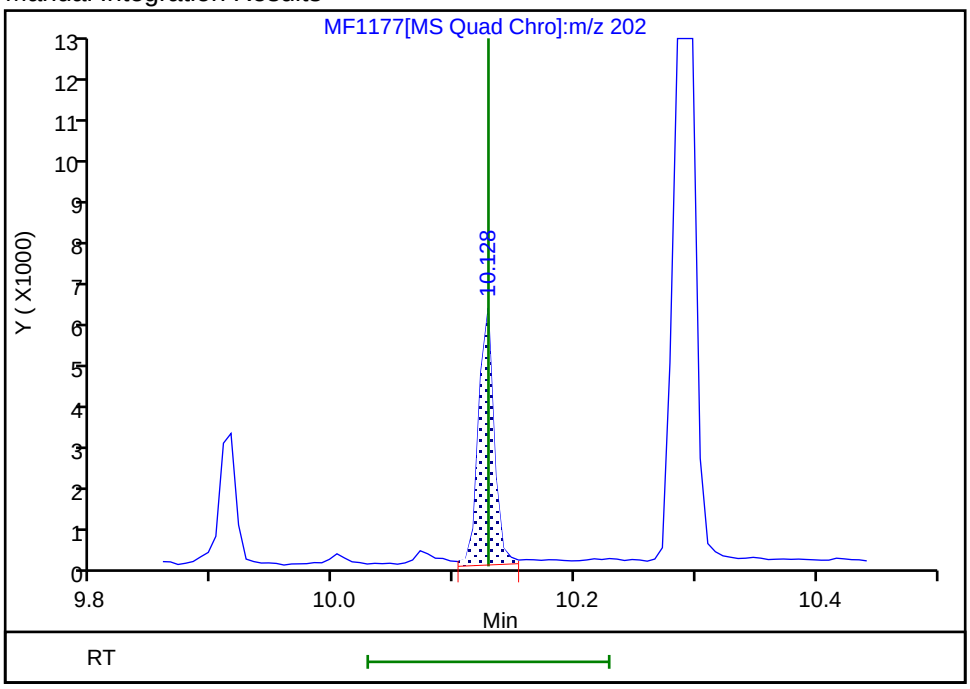
Processing Integration Results

RT: 10.13
Area: 7328
Amount: 0.004308
Amount Units: ug/ml



Manual Integration Results

RT: 10.13
Area: 5379
Amount: 0.003162
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:24:47 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

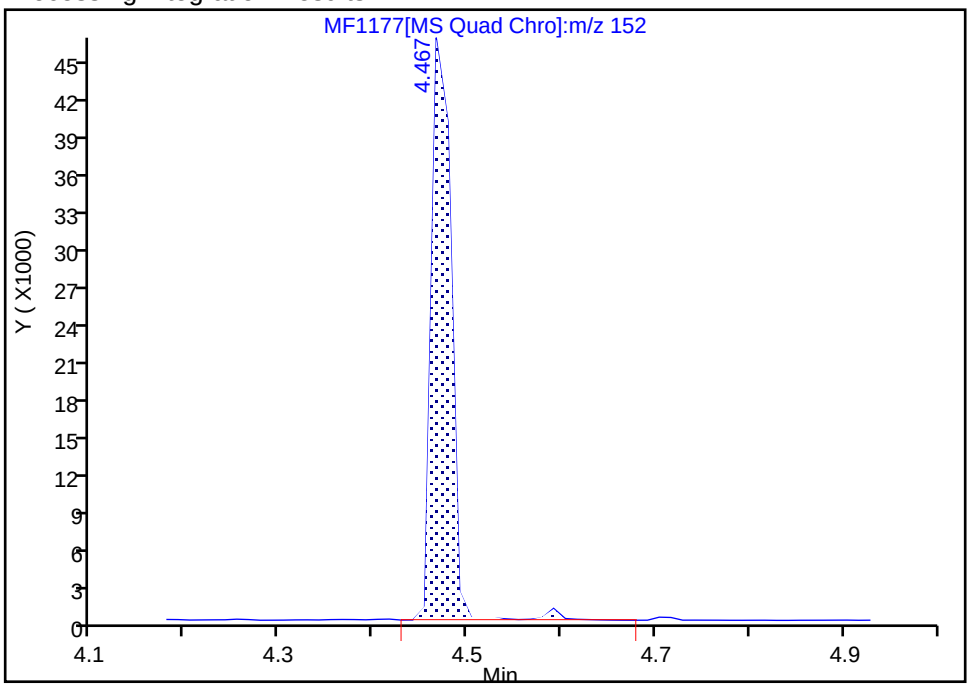
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1177.D				
Injection Date:	16-Jun-2023 14:41:40	Instrument ID:	HP21585		
Lims ID:	410-130132-D-13-A	Lab Sample ID:	410-130132-13		
Client ID:	MW-14S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

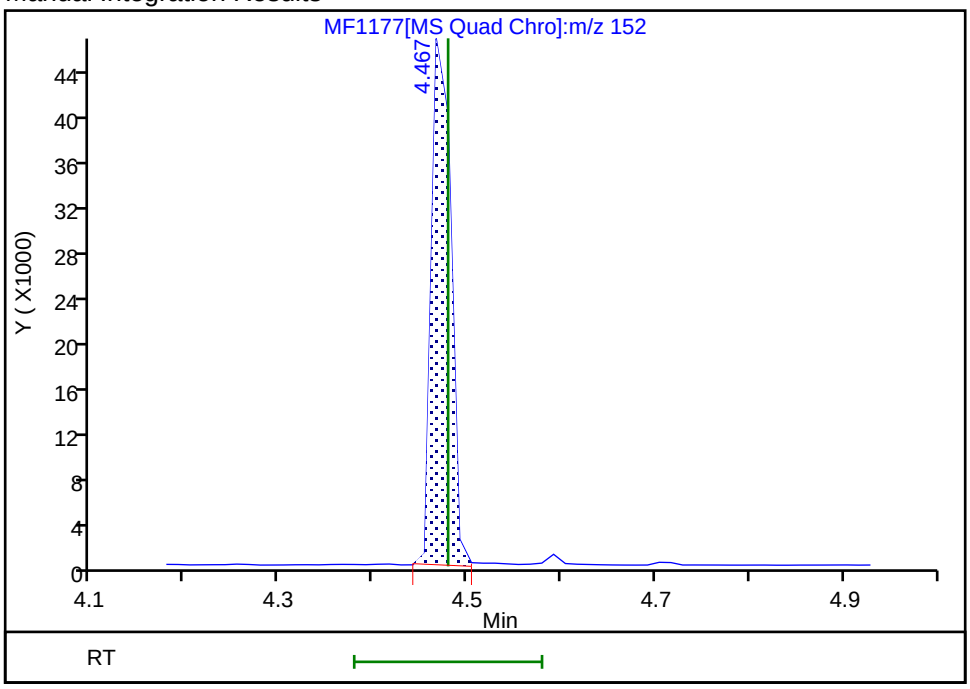
Processing Integration Results

RT: 4.47
Area: 69060
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 4.47
Area: 67565
Amount: 0.250000
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:24:00 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: FB-20230608
Lab Sample ID: 410-130132-14

Matrix: Water
Lab File ID: MF1178.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 12:40

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 244.1(mL)
Date Analyzed: 06/16/2023 15:03

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.051	0.010
208-96-8	Acenaphthylene	ND		0.051	0.010
120-12-7	Anthracene	ND		0.051	0.010
56-55-3	Benzo[a]anthracene	ND		0.051	0.010
50-32-8	Benzo[a]pyrene	ND		0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.051	0.010
218-01-9	Chrysene	ND		0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.051	0.020
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	ND		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	ND		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	0.031
129-00-0	Pyrene	ND		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	79		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	69		33-120
93951-69-0	Fluoranthene-d10 (Surr)	79		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1178.D
Lims ID: 410-130132-D-14-A
Client ID: FB-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:03:08 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-14-A
Misc. Info.: 410-0086777-029
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:26:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	100	77480	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	255561	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.429	6.419	0.000	96	107954	0.1735	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	149132	0.2500	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	282673	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	253908	0.1965	
* 29 Chrysene-d12	240	11.372	11.372	0.000	55	274776	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	215989	0.1978	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	297016	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

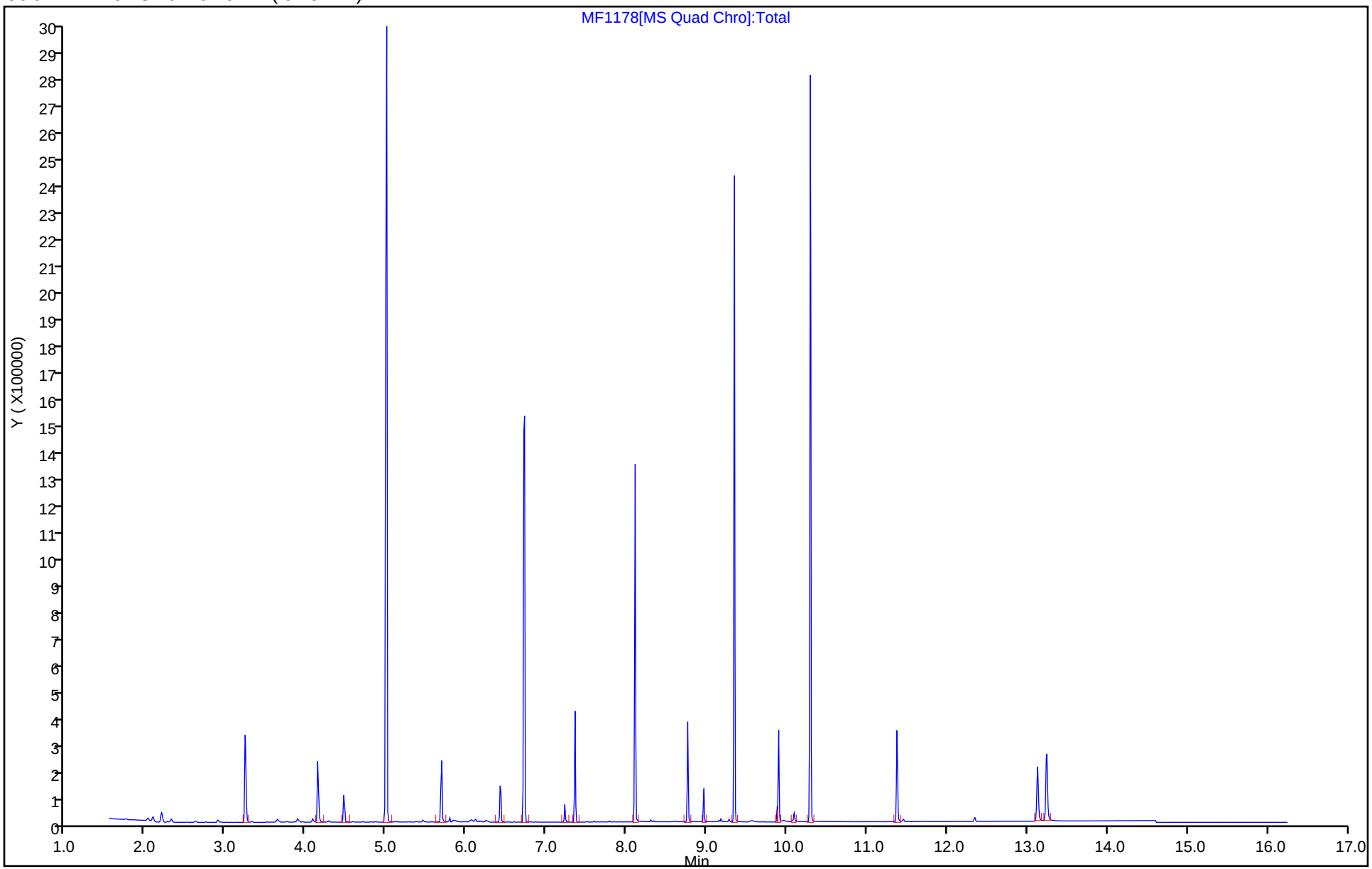
Report Date: 19-Jun-2023 12:32:59 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1178.D

Injection Date:	16-Jun-2023 15:03:08	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-14-A	Lab Sample ID:	410-130132-14	Worklist Smp#:	29
Client ID:	FB-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1178.D
Lims ID: 410-130132-D-14-A
Client ID: FB-20230608
Sample Type: Client
Inject. Date: 16-Jun-2023 15:03:08 ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-14-A
Misc. Info.: 410-0086777-029
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:26:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1735	69.40
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1965	78.60
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1978	79.10

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 368078

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/25/2023 06:05 Calibration End Date: 04/25/2023 08:11 Calibration ID: 49555

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-368078/7	MD0956.D
Level 2	IC 410-368078/6	MD0955.D
Level 3	IC 410-368078/5	MD0954.D
Level 4	ICIS 410-368078/2	MD0951.D
Level 5	IC 410-368078/4	MD0953.D
Level 6	IC 410-368078/3	MD0952.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7229 0.5914	0.6242	0.5628	0.6039	0.5738	Ave		0.6132				9.5		20.4			
N-Nitrosodimethylamine	0.8349 0.7523	0.7638	0.7466	0.7576	0.7545	Ave		0.7683				4.3		20.4			
Bis(2-chloroethyl)ether	0.4816 0.3698	0.4192	0.3804	0.3844	0.3809	Ave		0.4027				10.5		20.4			
Naphthalene	1.4313 1.1143	1.2081	1.0665	1.0800	1.0693	Ave		1.1616				12.3		20.4			
Quinoline	0.7433 0.7008	0.6754	0.6561	0.6889	0.7098	Ave		0.6957				4.3		20.4			
2-Methylnaphthalene	0.9434 0.7492	0.7890	0.7179	0.7326	0.7351	Ave		0.7779				10.9		20.4			
1-Methylnaphthalene	0.8678 0.6850	0.7309	0.6838	0.6949	0.6939	Ave		0.7261				9.9		20.4			
Dimethyl phthalate	1.2642 1.1935	1.3944	1.4067	1.4292	1.3546	Ave		1.3404				6.9		20.4			
Acenaphthylene	2.1611 1.8658	1.8282	1.6879	1.8360	1.8343	Ave		1.8689				8.4		20.4			
Acenaphthene	1.5124 1.1116	1.2265	1.1185	1.1516	1.1457	Ave		1.2111				12.6		20.4			
Dibenzofuran	2.6340 1.8755	2.1854	1.9757	2.0097	1.9773	Ave		2.1096				13.1		20.4			
Diethyl phthalate	1.0579 1.1650	1.2075	1.2401	1.2896	1.2527	Ave		1.2021				6.8		20.4			
Fluorene	1.8918 1.4432	1.5165	1.4371	1.5032	1.4887	Ave		1.5467				11.1		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 368078

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/25/2023 06:05 Calibration End Date: 04/25/2023 08:11 Calibration ID: 49555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodiphenylamine	0.5649 0.3909	0.4498	0.4444	0.4357	0.4216	Ave		0.4512				13.2		20.4			
Hexachlorobenzene	0.4003 0.2786	0.3349	0.2957	0.2977	0.2911	Ave		0.3164				14.3		20.4			
Phenanthrene	1.6115 1.1028	1.2872	1.1405	1.1640	1.1509	Ave		1.2428				15.4		20.4			
Anthracene	1.2610 1.0656	1.0499	0.9648	1.0678	1.0657	Ave		1.0792				9.0		20.4			
Di-n-butyl phthalate	0.6673 0.8340	0.8118	0.8522	0.9826	0.9778	Ave		0.8543				13.7		20.4			
Fluoranthene	1.7473 1.2800	1.3696	1.2772	1.3616	1.3287	Ave		1.3940				12.7		20.4			
Pyrene	2.1810 1.4140	1.6690	1.4671	1.4770	1.4251	Ave		1.6055				18.5		20.4			
Butyl benzyl phthalate	0.2694 0.4246	0.3300	0.3658	0.4285	0.4201	Ave		0.3731				17.2		20.4			
Benzo[a]anthracene	1.5962 1.2915	1.2588	1.1963	1.2543	1.2563	Ave		1.3089				11.0		20.4			
Chrysene	2.0964 1.3881	1.6729	1.4840	1.4804	1.4310	Ave		1.5921				16.7		20.4			
Bis(2-ethylhexyl) phthalate	0.3440 0.5959	0.4164	0.4752	0.5815	0.5934	Lin2	-0.067	0.5875							0.9950		0.9900
Di-n-octyl phthalate	0.5609 0.7752	0.6540	0.7239	0.8641	0.8349	Ave		0.7355				15.5		20.4			
Benzo[b]fluoranthene	1.7917 1.1136	1.3561	1.2468	1.2909	1.1271	Ave		1.3210				18.8		20.4			
Benzo[k]fluoranthene	1.8137 1.0916	1.5363	1.3875	1.3301	1.2941	Ave		1.4089				17.4		20.4			
Benzo[e]pyrene	1.8361 1.0657	1.4482	1.2728	1.2622	1.1647	Ave		1.3416				20.4		20.4			
Benzo[a]pyrene	1.4012 1.0392	1.2171	1.1298	1.2305	1.1552	Ave		1.1955				10.2		20.4			
Perylene	1.7416 1.0337	1.5810	1.3240	1.2898	1.1885	Ave		1.3598				19.1		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 368078

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/25/2023 06:05 Calibration End Date: 04/25/2023 08:11 Calibration ID: 49555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Indeno[1,2,3-cd]pyrene	1.4594 0.9599	1.1405	0.9983	1.0645	0.9721	Ave		1.0991				17.2		20.4			
Dibenz(a,h)anthracene	1.6489 1.0837	1.3233	1.1934	1.2103	1.1422	Ave		1.2670				16.1		20.4			
Benzo[g,h,i]perylene	1.9185 1.1458	1.5169	1.2901	1.3034	1.2261	Ave		1.4001				20.2		20.4			
1-Methylnaphthalene-d10 (Surr)	0.7304 0.5742	0.6256	0.5727	0.5766	0.5727	Ave		0.6087				10.4		20.4			
Fluoranthene-d10 (Surr)	1.3190 1.0833	1.1442	1.0649	1.1291	1.1158	Ave		1.1427				8.0		20.4			
Benzo(a)pyrene-d12 (Surr)	1.1062 0.8187	0.9248	0.8579	0.9304	0.8778	Ave		0.9193				11.0		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 368078

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/25/2023 06:05 Calibration End Date: 04/25/2023 08:11 Calibration ID: 49555

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-368078/7	MD0956.D
Level 2	IC 410-368078/6	MD0955.D
Level 3	IC 410-368078/5	MD0954.D
Level 4	ICIS 410-368078/2	MD0951.D
Level 5	IC 410-368078/4	MD0953.D
Level 6	IC 410-368078/3	MD0952.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	1491 325175	6290	11303	62499	115165	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	1722 413638	7696	14996	78407	151437	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	3358 697393	14409	25685	138098	266196	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	9980 2101630	41527	72013	388023	747214	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	5183 1321664	23215	44304	247509	496024	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	6578 1412950	27122	48478	263206	513661	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	6051 1291947	25123	46173	249675	484878	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethyl phthalate	ANT	Ave	117568 5198316	269552	536916	1420720	2689243	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	8039 2031532	35341	64424	365043	728321	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	5626 1210398	23709	42692	228954	454886	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	9798 2042159	42246	75410	399574	785089	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethyl phthalate	ANT	Ave	98381 5073778	233420	473344	1282039	2486930	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	7037	29316	54851	298869	591080	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 368078

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/25/2023 06:05 Calibration End Date: 04/25/2023 08:11 Calibration ID: 49555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			1571438					2.50				
N-Nitrosodiphenylamine	PHN	Ave	3968 830962	16276	33095	166744	323150	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	2812 592150	12118	22021	113924	223085	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	11319 2344046	46573	84926	445439	882111	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	8857 2265111	37989	71844	408623	816813	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	117180 7090772	293733	634546	1880087	3747021	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	12273 2720728	49555	95102	521033	1018314	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	12823 2865126	52259	99031	532463	1063616	0.0100 2.50	0.0500	0.100	0.500	1.00
Butyl benzyl phthalate	CRY	Ave	39600 3441640	103317	246886	772434	1567718	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	9385 2616847	39415	80749	452181	937587	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	12326 2812570	52382	100172	533688	1068005	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Lin2	50565 4829746	130396	320776	1048132	2214293	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	74884 7984092	198930	493030	1672155	3592606	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	9569 2867319	41247	84917	499595	969983	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	9686 2810624	46728	94502	514765	1113715	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	9806 2743870	44046	86690	488496	1002304	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	7483 2675708	37017	76948	476218	994156	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	9301 2661620	48085	90174	499153	1022857	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	7794	34689	67994	411967	836619	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 368078

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/25/2023 06:05 Calibration End Date: 04/25/2023 08:11 Calibration ID: 49555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			2471527					2.50				
Dibenz(a,h)anthracene	PRY	Ave	8806 2790327	40249	81284	468394	982983	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	10246 2950068	46137	87866	504423	1055208	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	5093 1082908	21506	38671	207164	400206	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	9265 2302673	41401	79295	432082	855179	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	5908 2108022	28128	58428	360071	755437	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 368078

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/25/2023 06:05 Calibration End Date: 04/25/2023 08:11 Calibration ID: 49555

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-368078/7	MD0956.D
Level 2	IC 410-368078/6	MD0955.D
Level 3	IC 410-368078/5	MD0954.D
Level 4	ICIS 410-368078/2	MD0951.D
Level 5	IC 410-368078/4	MD0953.D
Level 6	IC 410-368078/3	MD0952.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
Bis(2-ethylhexyl) phthalate	4.4	-6.2	-7.6	3.6	3.3	2.6	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0951.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 25-Apr-2023 06:05:40 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0082279-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 09:31:26 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 08:57:49

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.675	1.675	0.000	84	62499	0.5000	0.4924	
	2 N-Nitrosodimethylamine	74	1.968	1.968	0.000	87	78407	0.5000	0.4930	
	3 Bis(2-chloroethyl)ether	93	4.243	4.243	0.000	87	138098	0.5000	0.4772	
*	4 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	99	51750	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.718	5.718	0.000	91	179639	0.2500	0.2500	
	6 Naphthalene	128	5.743	5.743	0.000	92	388023	0.5000	0.4649	
	7 Quinoline	129	6.056	6.056	0.000	97	247509	0.5000	0.4951	
	8 2-Methylnaphthalene	142	6.401	6.401	0.000	95	263206	0.5000	0.4709	
$	9 1-Methylnaphthalene-d10	152	6.460	6.460	0.000	96	207164	0.5000	0.4736	
	10 1-Methylnaphthalene	142	6.490	6.490	0.000	99	249675	0.5000	0.4786	
	11 Dimethyl phthalate	163	7.140	7.140	0.000	76	1420720	2.50	2.67	
	12 Acenaphthylene	152	7.248	7.248	0.000	99	365043	0.5000	0.4912	
*	13 Acenaphthene-d10	164	7.386	7.386	0.000	95	99410	0.2500	0.2500	
	14 Acenaphthene	154	7.416	7.416	0.000	89	228954	0.5000	0.4754	
	15 Dibenzofuran	168	7.583	7.583	0.000	93	399574	0.5000	0.4763	
	16 Diethyl phthalate	149	7.810	7.810	0.000	100	1282039	2.50	2.68	
	17 Fluorene	166	7.904	7.904	0.000	100	298869	0.5000	0.4859	
	18 N-Nitrosodiphenylamine	169	8.029	8.029	0.000	99	166744	0.5000	0.4828	
	19 Hexachlorobenzene	284	8.435	8.435	0.000	94	113924	0.5000	0.4705	
*	20 Phenanthrene-d10	188	8.794	8.794	0.000	94	191334	0.2500	0.2500	
	21 Phenanthrene	178	8.817	8.817	0.000	100	445439	0.5000	0.4683	
	22 Anthracene	178	8.864	8.864	0.000	100	408623	0.5000	0.4948	
	23 Di-n-butyl phthalate	149	9.378	9.378	0.000	100	1880087	2.50	2.88	
$	24 Fluoranthene-d10 (Surr)	212	9.929	9.929	0.000	98	432082	0.5000	0.4940	
	25 Fluoranthene	202	9.948	9.948	0.000	100	521033	0.5000	0.4884	
	26 Pyrene	202	10.161	10.161	0.000	99	532463	0.5000	0.4600	
	27 Butyl benzyl phthalate	149	10.829	10.829	0.000	100	772434	2.50	2.87	
	28 Benzo[a]anthracene	228	11.405	11.405	0.000	100	452181	0.5000	0.4791	
*	29 Chrysene-d12	240	11.412	11.412	0.000	100	180257	0.2500	0.2500	
	30 Chrysene	228	11.443	11.443	0.000	100	533688	0.5000	0.4649	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.497	11.497	0.000	99	1048132	2.50	2.59	
32 Di-n-octyl phthalate	149	12.333	12.333	0.000	100	1672155	2.50	2.94	
33 Benzo[b]fluoranthene	252	12.770	12.770	0.000	100	499595	0.5000	0.4886	
34 Benzo[k]fluoranthene	252	12.808	12.808	0.000	100	514765	0.5000	0.4720	
35 Benzo[e]pyrene	252	13.146	13.146	0.000	100	488496	0.5000	0.4704	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.184	13.184	0.000	100	360071	0.5000	0.5060	
37 Benzo[a]pyrene	252	13.215	13.215	0.000	100	476218	0.5000	0.5146	
* 38 Perylene-d12	264	13.299	13.299	0.000	100	193506	0.2500	0.2500	
39 Perylene	252	13.330	13.330	0.000	100	499153	0.5000	0.4743	
40 Indeno[1,2,3-cd]pyrene	276	14.844	14.844	0.000	100	411967	0.5000	0.4842	M
41 Dibenz(a,h)anthracene	278	14.886	14.886	0.000	96	468394	0.5000	0.4776	
42 Benzo[g,h,i]perylene	276	15.260	15.260	0.000	96	504423	0.5000	0.4655	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00028 Amount Added: 1.00 Units: mL

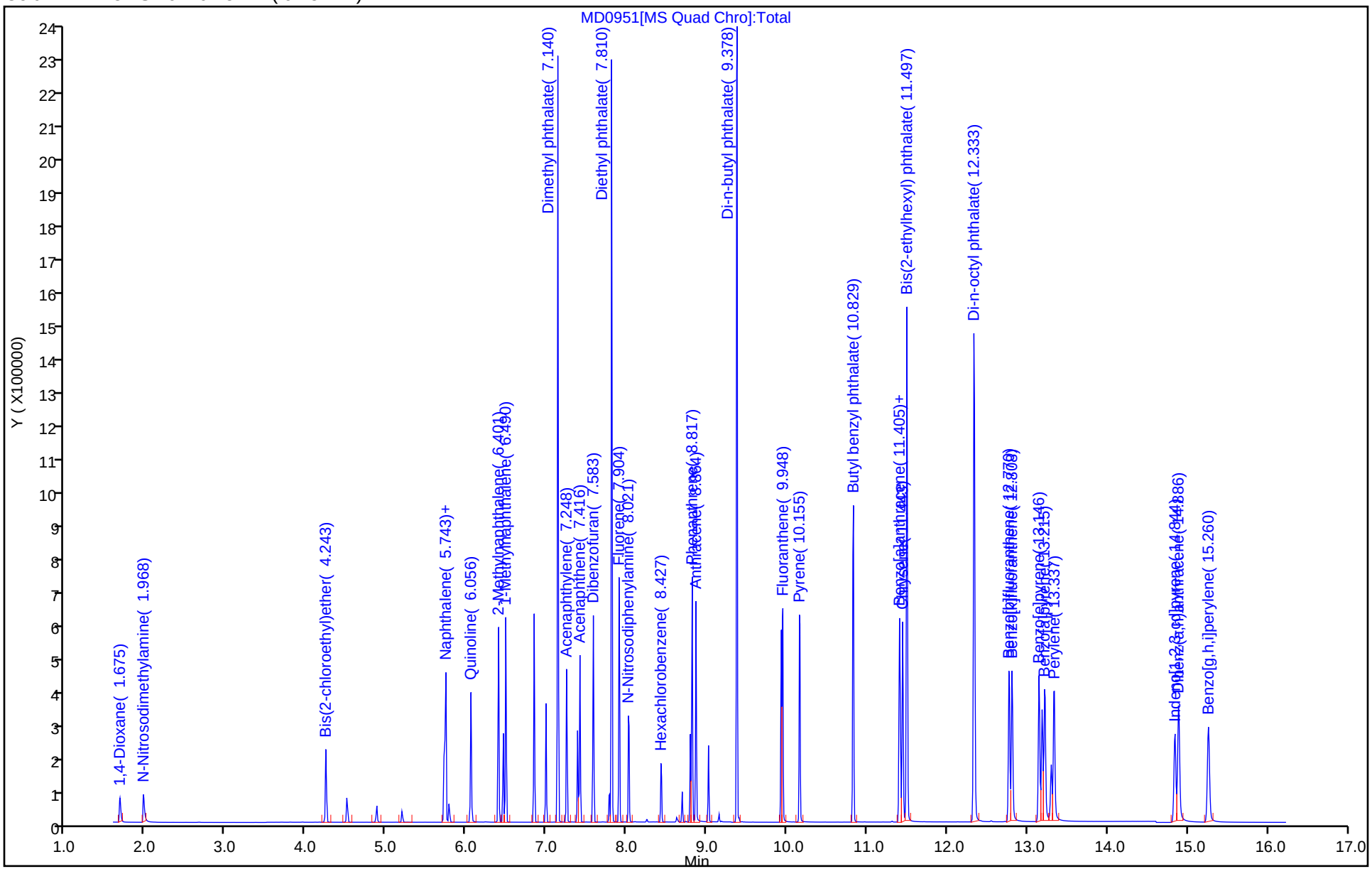
Report Date: 25-Apr-2023 09:31:27 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0951.D

Injection Date:	25-Apr-2023 06:05:40	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICIS L4			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0951.D				
Injection Date:	25-Apr-2023 06:05:40	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

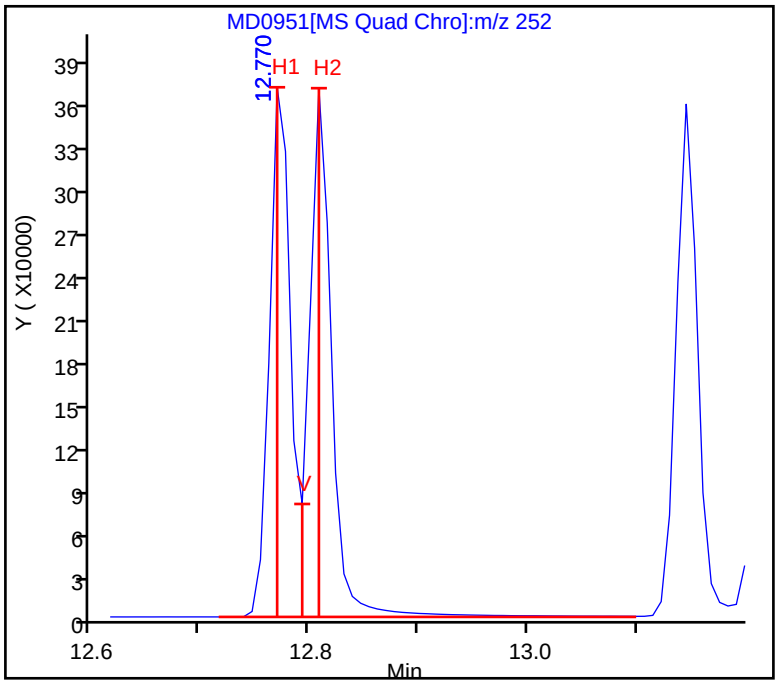
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 79406
H1(33 Benzo[b]fluoranthen) = 372286
H2(34 Benzo[k]fluoranthen) = 371645

Version D: %R = 21.3 <= 50.0
Passed



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

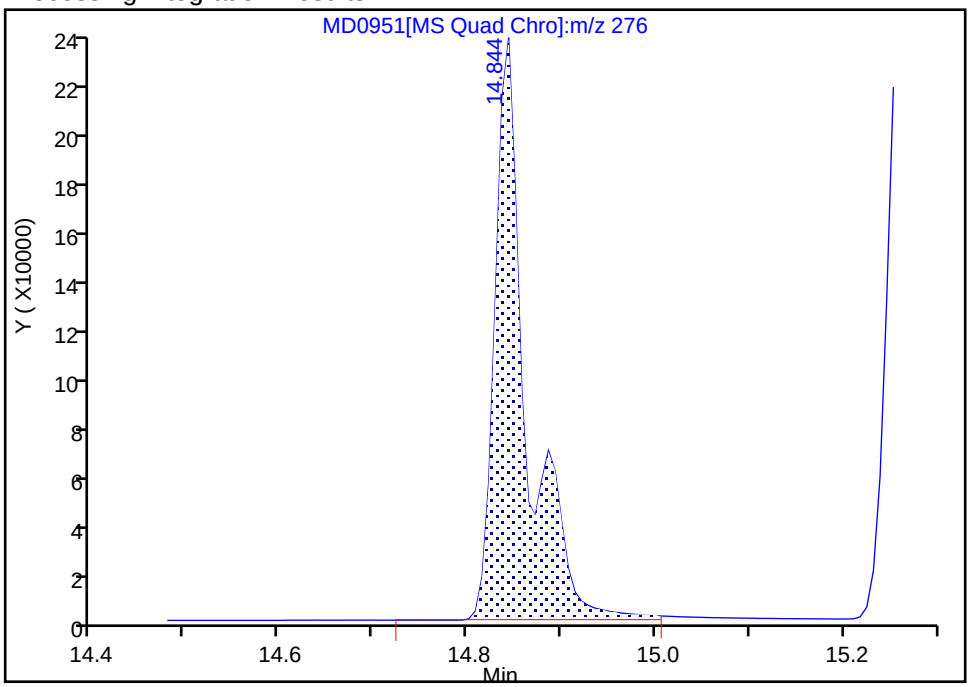
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0951.D				
Injection Date:	25-Apr-2023 06:05:40	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

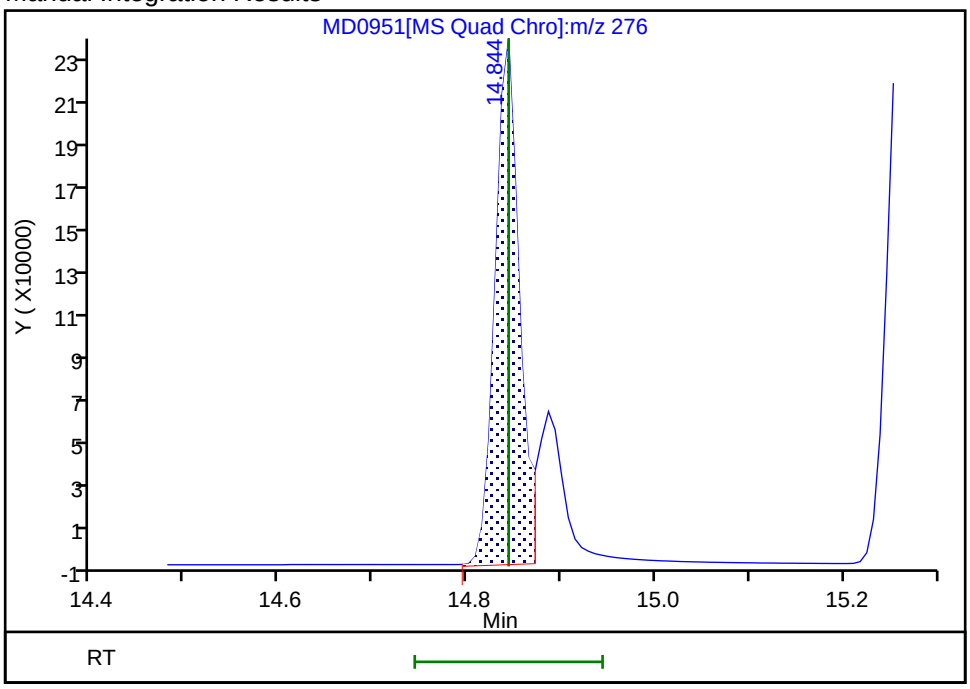
Processing Integration Results

RT: 14.84
Area: 547356
Amount: 0.500000
Amount Units: ug/ml



Manual Integration Results

RT: 14.84
Area: 411967
Amount: 0.484242
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 06:26:50

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0952.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Apr-2023 06:46:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0082279-003, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 09:31:29 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 08:58:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.670	1.675	-0.005	85	325175	2.50	2.41	
2 N-Nitrosodimethylamine	74	1.959	1.968	-0.009	88	413638	2.50	2.45	
3 Bis(2-chloroethyl)ether	93	4.243	4.243	0.000	86	697393	2.50	2.30	
* 4 1,4-Dichlorobenzene-d4	152	4.518	4.506	0.012	86	54981	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.718	5.718	0.000	95	188607	0.2500	0.2500	
6 Naphthalene	128	5.743	5.743	0.000	92	2101630	2.50	2.40	
7 Quinoline	129	6.055	6.056	-0.001	98	1321664	2.50	2.52	
8 2-Methylnaphthalene	142	6.401	6.401	0.000	96	1412950	2.50	2.41	
$ 9 1-Methylnaphthalene-d10	152	6.460	6.460	0.000	98	1082908	2.50	2.36	
10 1-Methylnaphthalene	142	6.490	6.490	0.000	100	1291947	2.50	2.36	
11 Dimethyl phthalate	163	7.140	7.140	0.000	75	5198316	10.0	8.90	
12 Acenaphthylene	152	7.258	7.248	0.010	96	2031532	2.50	2.50	
* 13 Acenaphthene-d10	164	7.386	7.386	0.000	97	108884	0.2500	0.2500	
14 Acenaphthene	154	7.416	7.416	0.000	89	1210398	2.50	2.29	
15 Dibenzofuran	168	7.583	7.583	0.000	95	2042159	2.50	2.22	
16 Diethyl phthalate	149	7.818	7.810	0.008	97	5073778	10.0	9.69	
17 Fluorene	166	7.912	7.904	0.008	99	1571438	2.50	2.33	
18 N-Nitrosodiphenylamine	169	8.029	8.029	0.000	99	830962	2.50	2.17	
19 Hexachlorobenzene	284	8.435	8.435	0.000	89	592150	2.50	2.20	
* 20 Phenanthrene-d10	188	8.794	8.794	0.000	95	212557	0.2500	0.2500	
21 Phenanthrene	178	8.817	8.817	0.000	100	2344046	2.50	2.22	
22 Anthracene	178	8.864	8.864	0.000	100	2265111	2.50	2.47	
23 Di-n-butyl phthalate	149	9.378	9.378	0.000	100	7090772	10.0	9.76	
$ 24 Fluoranthene-d10 (Surr)	212	9.929	9.929	0.000	98	2302673	2.50	2.37	
25 Fluoranthene	202	9.948	9.948	0.000	100	2720728	2.50	2.30	
26 Pyrene	202	10.161	10.161	0.000	98	2865126	2.50	2.20	
27 Butyl benzyl phthalate	149	10.829	10.829	0.000	100	3441640	10.0	11.4	
28 Benzo[a]anthracene	228	11.405	11.405	0.000	100	2616847	2.50	2.47	
* 29 Chrysene-d12	240	11.420	11.412	0.008	77	202625	0.2500	0.2500	
30 Chrysene	228	11.451	11.443	0.008	100	2812570	2.50	2.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.504	11.497	0.007	98	4829746	10.0	10.3	
32 Di-n-octyl phthalate	149	12.340	12.333	0.007	100	7984092	10.0	10.5	
33 Benzo[b]fluoranthene	252	12.777	12.770	0.007	100	2867319	2.50	2.11	
34 Benzo[k]fluoranthene	252	12.816	12.808	0.008	100	2810624	2.50	1.94	
35 Benzo[e]pyrene	252	13.153	13.146	0.007	100	2743870	2.50	1.99	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.192	13.184	0.008	100	2108022	2.50	2.23	
37 Benzo[a]pyrene	252	13.222	13.215	0.007	100	2675708	2.50	2.17	
* 38 Perylene-d12	264	13.307	13.299	0.008	100	257478	0.2500	0.2500	
39 Perylene	252	13.337	13.330	0.007	100	2661620	2.50	1.90	
40 Indeno[1,2,3-cd]pyrene	276	14.851	14.844	0.007	100	2471527	2.50	2.18	M
41 Dibenz(a,h)anthracene	278	14.900	14.886	0.014	96	2790327	2.50	2.14	
42 Benzo[g,h,i]perylene	276	15.267	15.260	0.007	96	2950068	2.50	2.05	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00018 Amount Added: 1.00 Units: mL

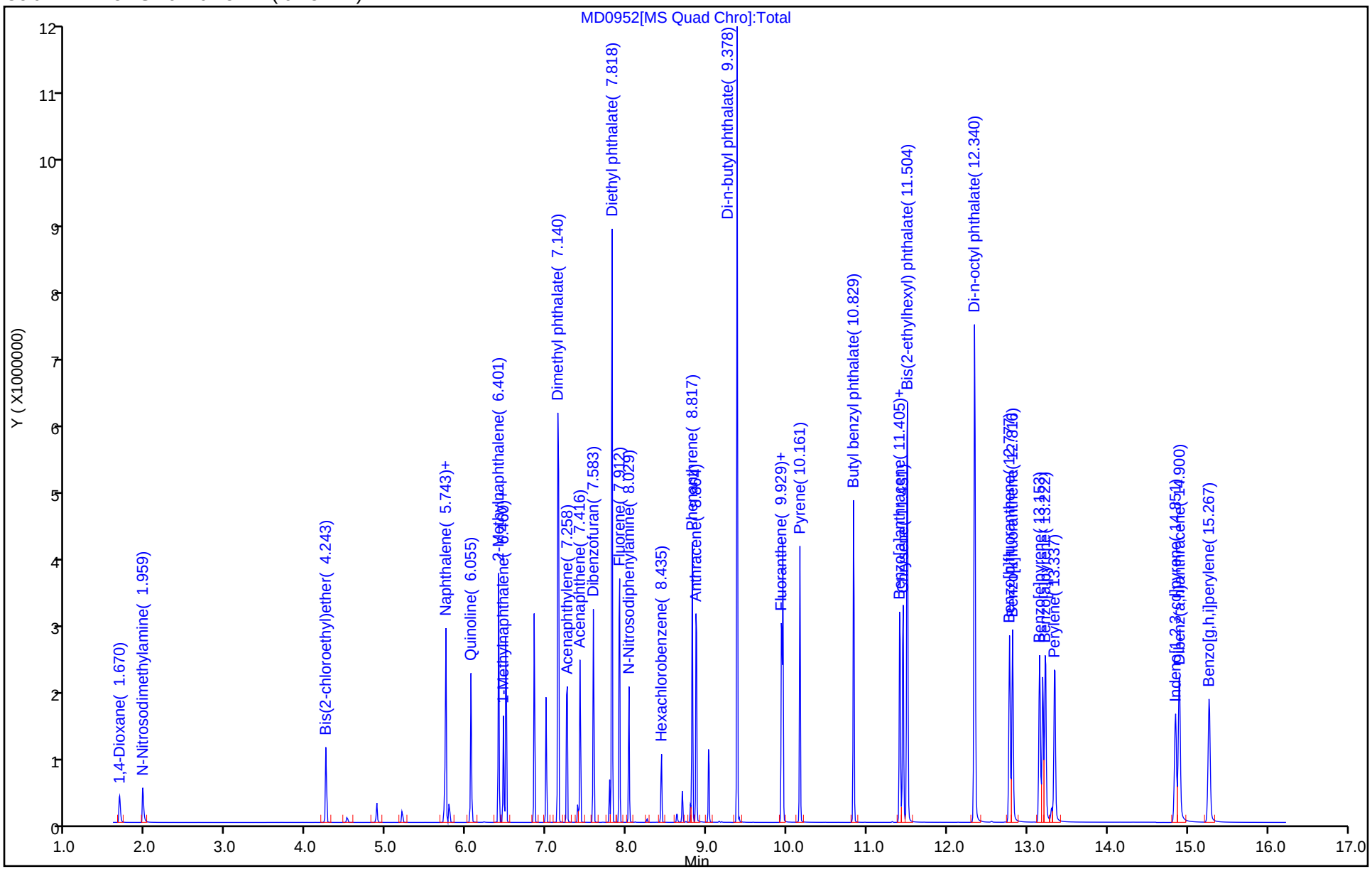
Report Date: 25-Apr-2023 09:31:30 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0952.D

Injection Date:	25-Apr-2023 06:46:00	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L6			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

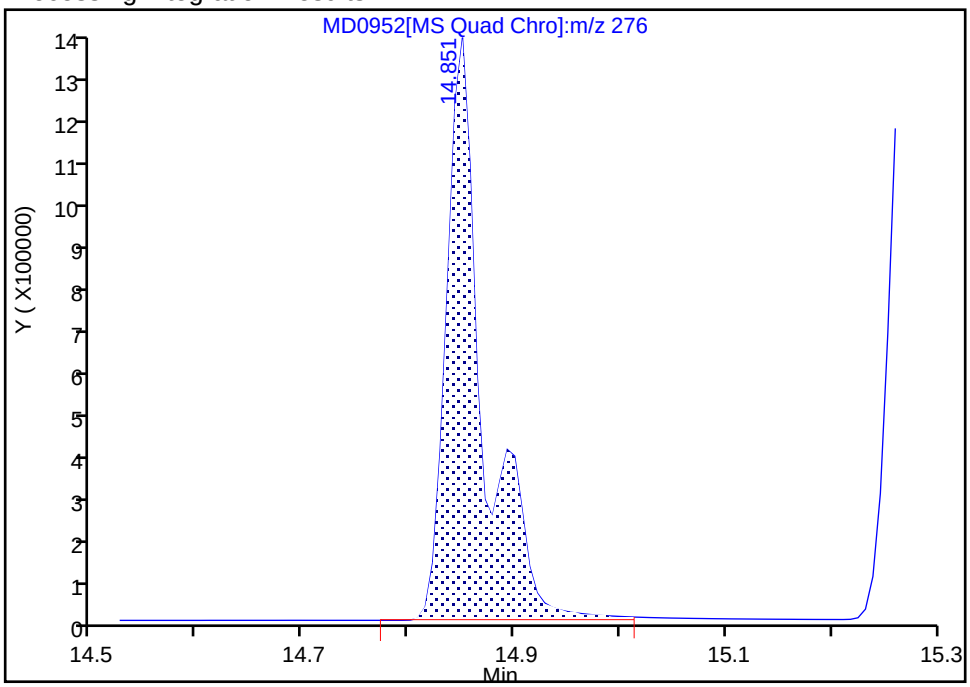
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0952.D				
Injection Date:	25-Apr-2023 06:46:00	Instrument ID:	HP21585		
Lims ID:	IC L6				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

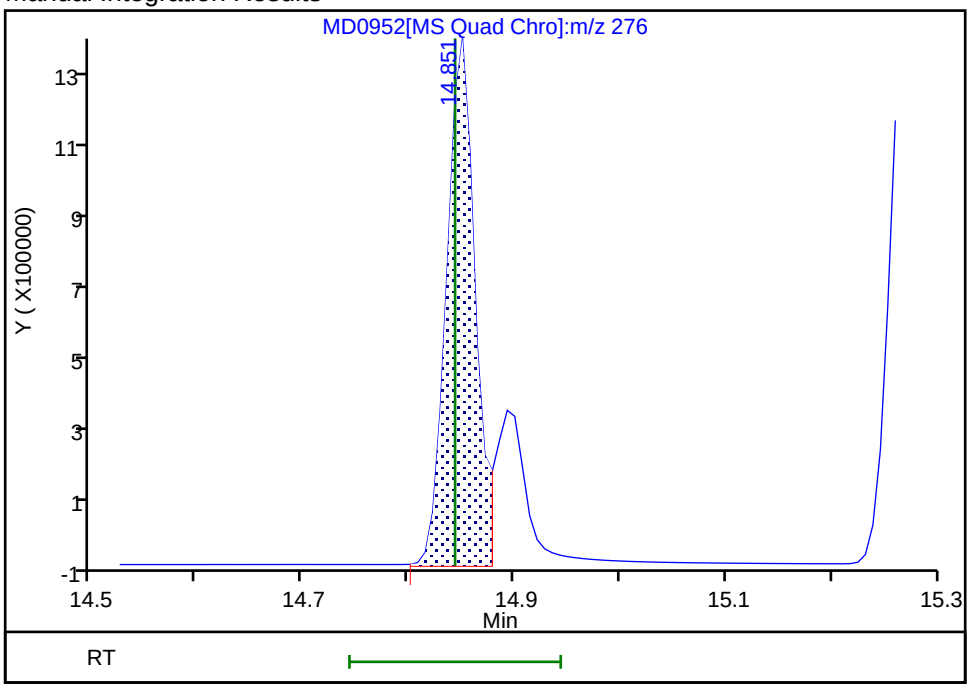
Processing Integration Results

RT: 14.85
Area: 3247766
Amount: 2.711637
Amount Units: ug/ml



Manual Integration Results

RT: 14.85
Area: 2471527
Amount: 2.183332
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 08:58:06

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0953.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Apr-2023 07:07:12 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0082279-004, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 09:31:32 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 08:59:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.675	1.675	0.000	85	115165	1.00	0.9358	M
2 N-Nitrosodimethylamine	74	1.964	1.968	-0.004	88	151437	1.00	0.9820	
3 Bis(2-chloroethyl)ether	93	4.243	4.243	0.000	87	266196	1.00	0.9460	
* 4 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	100	50179	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.718	5.718	0.000	91	174695	0.2500	0.2500	
6 Naphthalene	128	5.743	5.743	0.000	92	747214	1.00	0.9206	
7 Quinoline	129	6.055	6.056	-0.001	97	496024	1.00	1.02	
8 2-Methylnaphthalene	142	6.401	6.401	0.000	95	513661	1.00	0.9450	
$ 9 1-Methylnaphthalene-d10	152	6.460	6.460	0.000	96	400206	1.00	0.9409	
10 1-Methylnaphthalene	142	6.490	6.490	0.000	99	484878	1.00	0.9557	
11 Dimethyl phthalate	163	7.140	7.140	0.000	76	2689243	5.00	5.05	
12 Acenaphthylene	152	7.248	7.248	0.000	98	728321	1.00	0.9815	
* 13 Acenaphthene-d10	164	7.386	7.386	0.000	93	99262	0.2500	0.2500	
14 Acenaphthene	154	7.416	7.416	0.000	89	454886	1.00	0.9460	
15 Dibenzofuran	168	7.583	7.583	0.000	92	785089	1.00	0.9373	
16 Diethyl phthalate	149	7.810	7.810	0.000	100	2486930	5.00	5.21	
17 Fluorene	166	7.904	7.904	0.000	99	591080	1.00	0.9625	
18 N-Nitrosodiphenylamine	169	8.021	8.029	-0.008	99	323150	1.00	0.9344	M
19 Hexachlorobenzene	284	8.427	8.435	-0.008	94	223085	1.00	0.9200	
* 20 Phenanthrene-d10	188	8.794	8.794	0.000	94	191606	0.2500	0.2500	
21 Phenanthrene	178	8.817	8.817	0.000	100	882111	1.00	0.9261	
22 Anthracene	178	8.864	8.864	0.000	100	816813	1.00	0.9876	
23 Di-n-butyl phthalate	149	9.371	9.378	-0.007	100	3747021	5.00	5.72	
$ 24 Fluoranthene-d10 (Surr)	212	9.929	9.929	0.000	98	855179	1.00	0.9764	
25 Fluoranthene	202	9.942	9.948	-0.006	100	1018314	1.00	0.9531	
26 Pyrene	202	10.155	10.161	-0.006	98	1063616	1.00	0.8876	
27 Butyl benzyl phthalate	149	10.822	10.829	-0.007	100	1567718	5.00	5.63	
28 Benzo[a]anthracene	228	11.397	11.405	-0.008	100	937587	1.00	0.9598	
* 29 Chrysene-d12	240	11.412	11.412	0.000	97	186583	0.2500	0.2500	
30 Chrysene	228	11.443	11.443	0.000	100	1068005	1.00	0.8988	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.497	11.497	0.000	99	2214293	5.00	5.16	
32 Di-n-octyl phthalate	149	12.333	12.333	0.000	100	3592606	5.00	5.68	
33 Benzo[b]fluoranthene	252	12.770	12.770	0.000	100	969983	1.00	0.8532	
34 Benzo[k]fluoranthene	252	12.808	12.808	0.000	100	1113715	1.00	0.9185	
35 Benzo[e]pyrene	252	13.146	13.146	0.000	100	1002304	1.00	0.8681	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.184	13.184	0.000	100	755437	1.00	0.9549	
37 Benzo[a]pyrene	252	13.215	13.215	0.000	100	994156	1.00	0.9663	
* 38 Perylene-d12	264	13.299	13.299	0.000	100	215151	0.2500	0.2500	
39 Perylene	252	13.330	13.330	0.000	100	1022857	1.00	0.8741	
40 Indeno[1,2,3-cd]pyrene	276	14.837	14.844	-0.007	100	836619	1.00	0.8845	M
41 Dibenz(a,h)anthracene	278	14.886	14.886	0.000	96	982983	1.00	0.9015	
42 Benzo[g,h,i]perylene	276	15.260	15.260	0.000	96	1055208	1.00	0.8757	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00021 Amount Added: 1.00 Units: mL

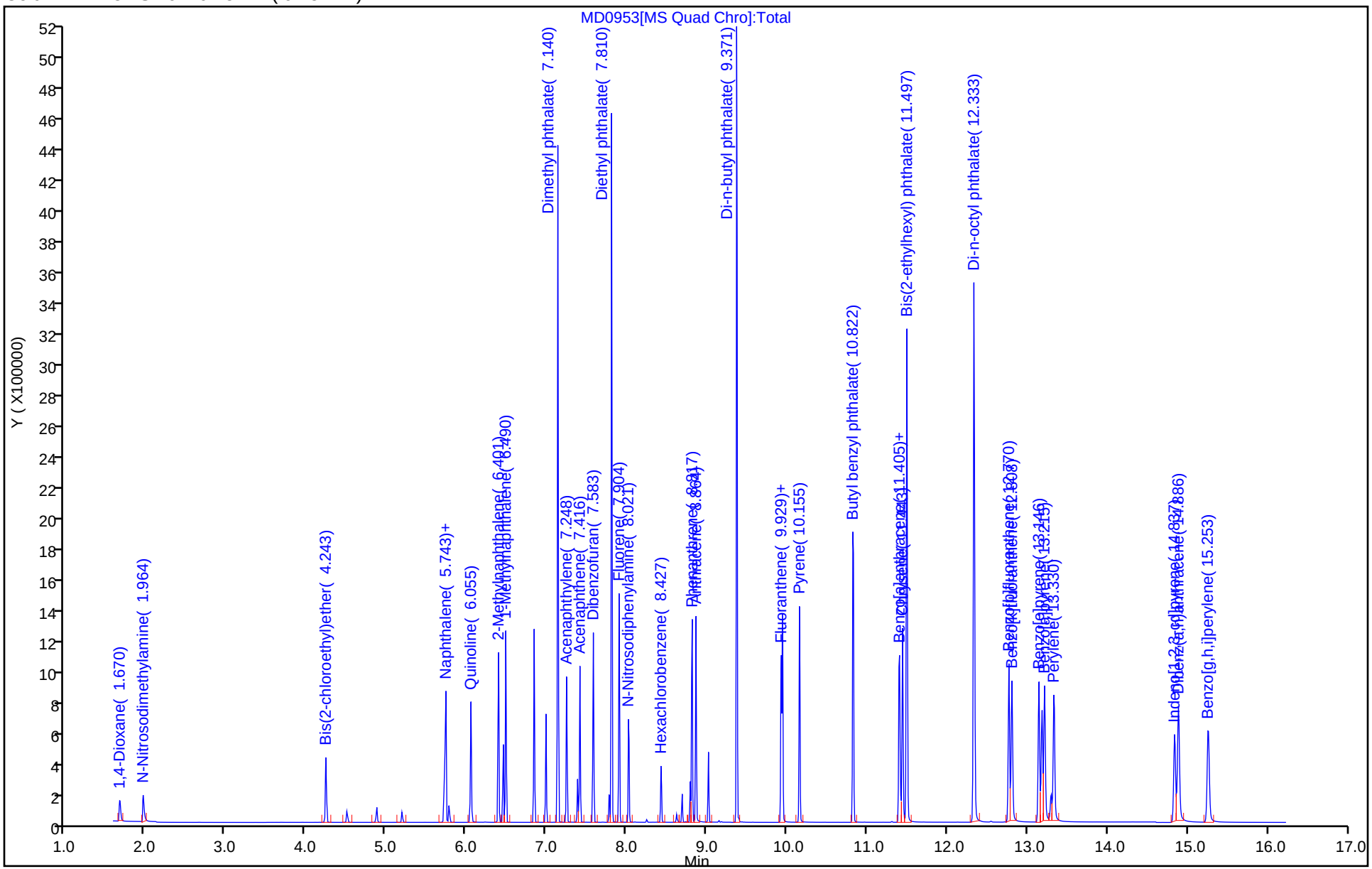
Report Date: 25-Apr-2023 09:31:33 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0953.D

Injection Date:	25-Apr-2023 07:07:12	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

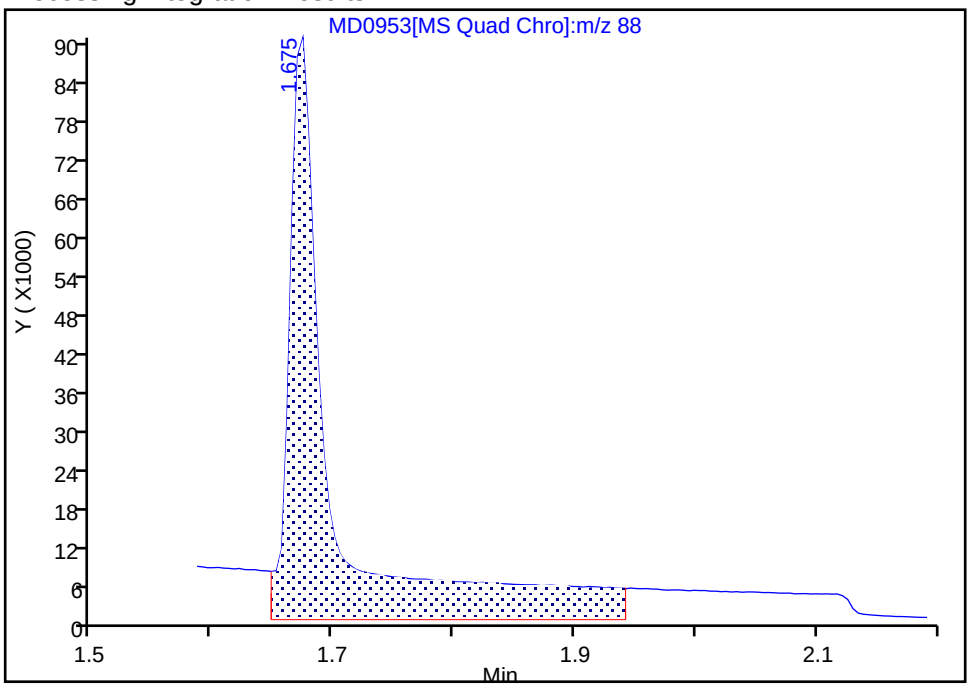
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0953.D				
Injection Date:	25-Apr-2023 07:07:12	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

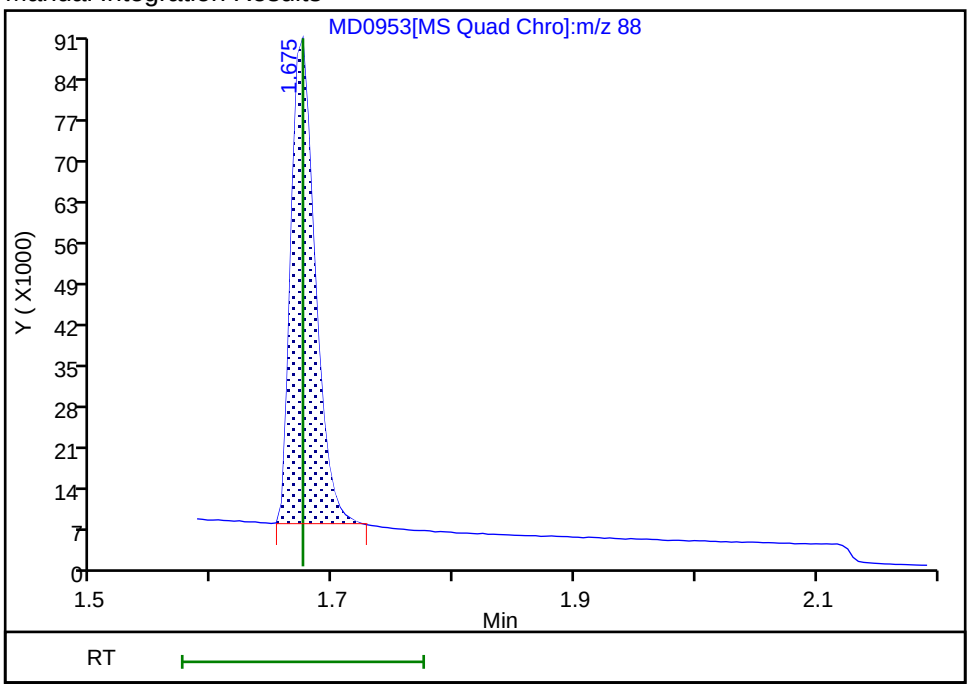
Processing Integration Results

RT: 1.67
Area: 225549
Amount: 1.453710
Amount Units: ug/ml



Manual Integration Results

RT: 1.67
Area: 115165
Amount: 0.935758
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 08:59:02
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

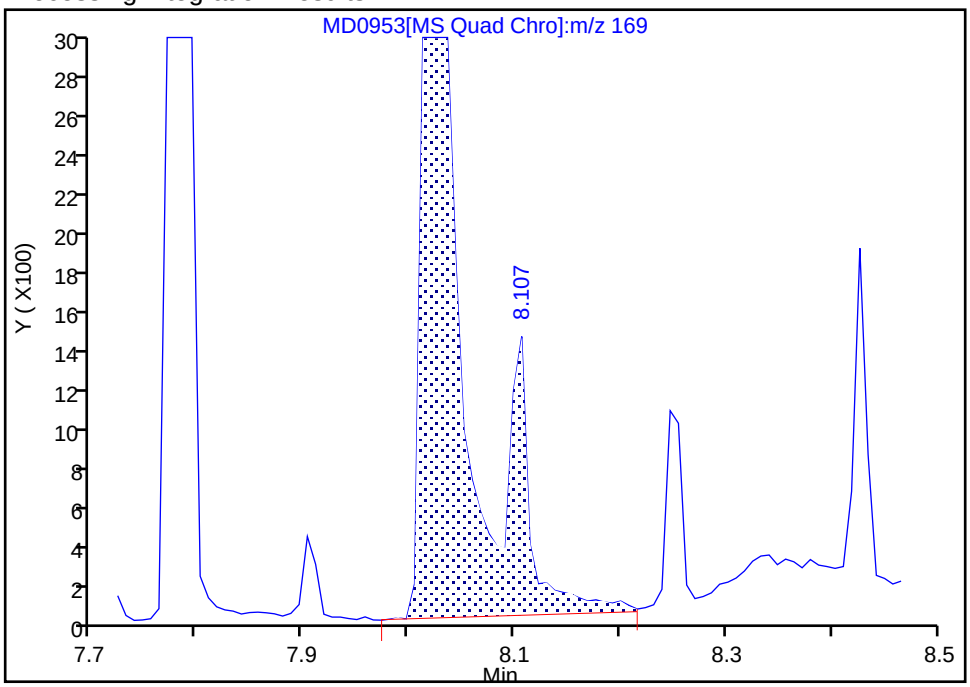
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0953.D				
Injection Date:	25-Apr-2023 07:07:12	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

18 N-Nitrosodiphenylamine, CAS: 86-30-6

Signal: 1

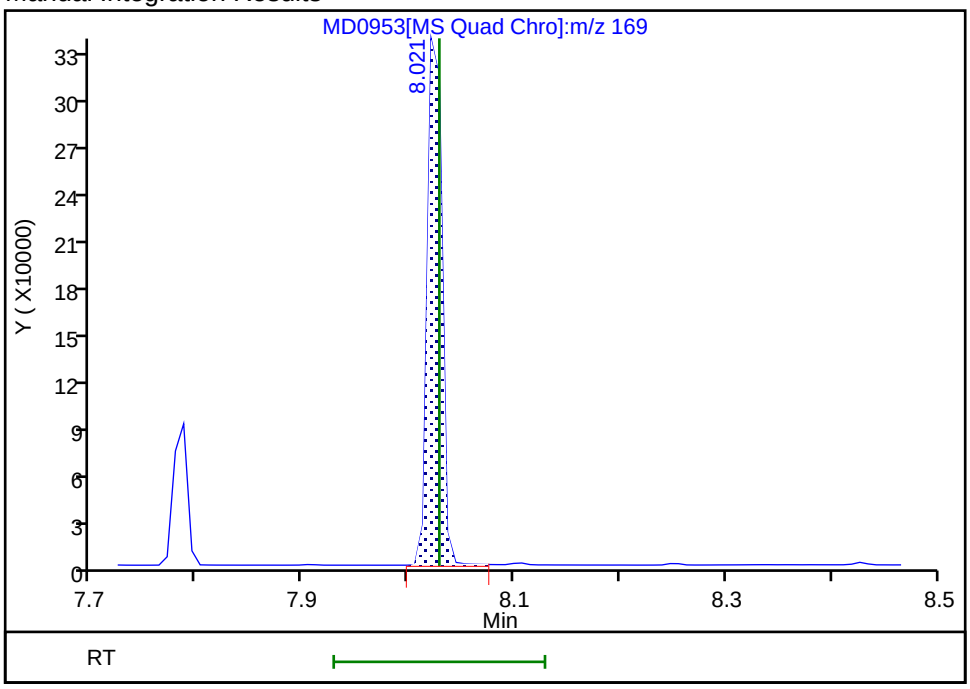
Processing Integration Results

RT: 8.11
Area: 325279
Amount: 1.017701
Amount Units: ug/ml



Manual Integration Results

RT: 8.02
Area: 323150
Amount: 0.934368
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 08:59:27

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

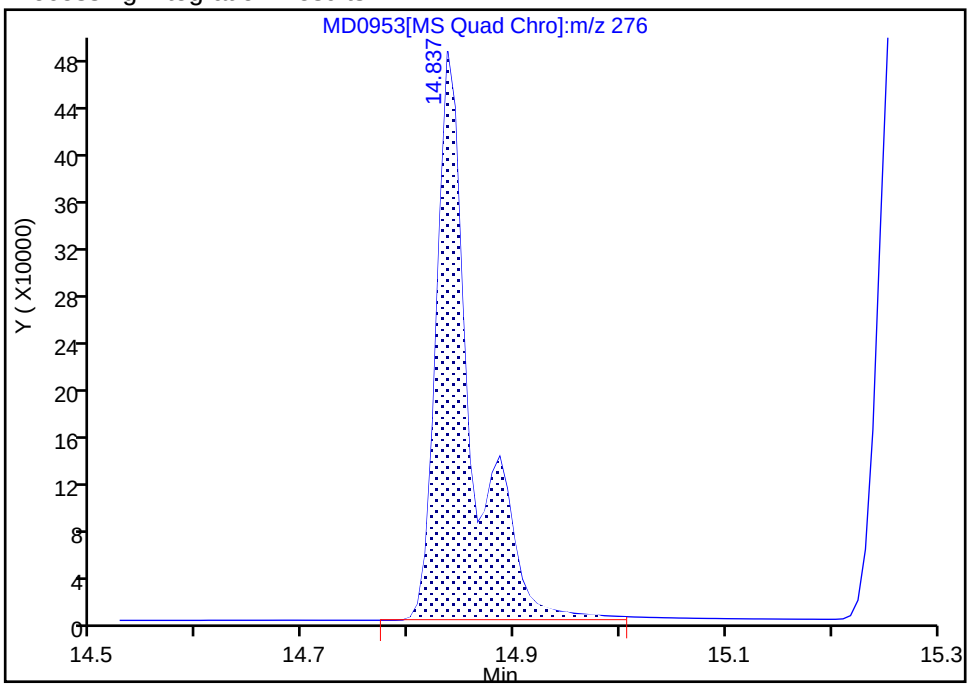
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0953.D				
Injection Date:	25-Apr-2023 07:07:12	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

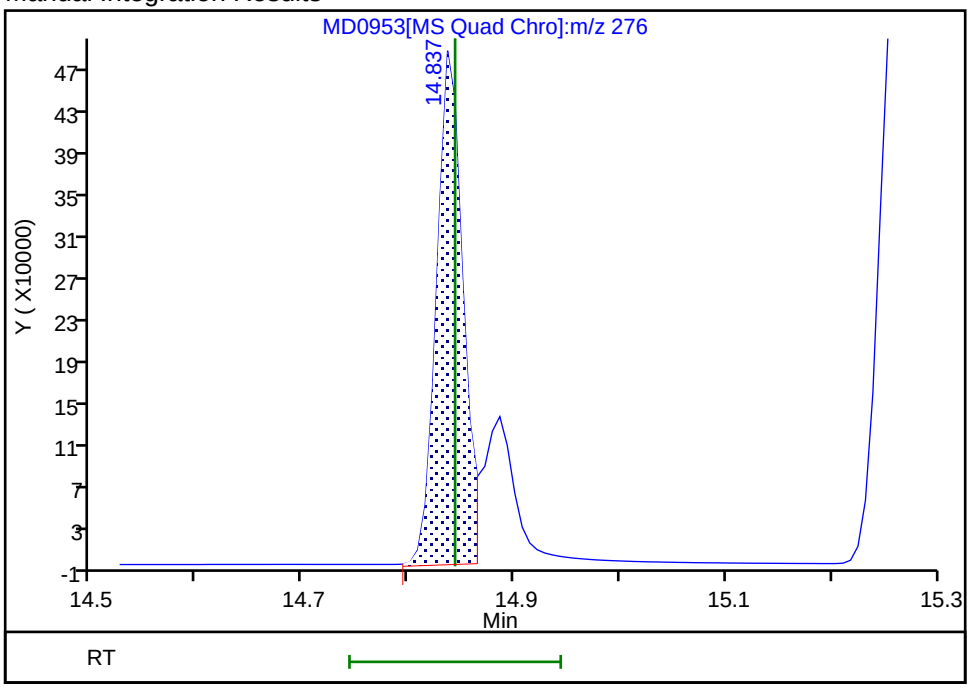
Processing Integration Results

RT: 14.84
Area: 1140841
Amount: 1.187127
Amount Units: ug/ml



Manual Integration Results

RT: 14.84
Area: 836619
Amount: 0.884461
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 08:59:50

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0954.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Apr-2023 07:28:32 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0082279-005, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 09:31:35 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 09:00:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.684	1.675	0.009	85	11303	0.1000	0.0918	M
2 N-Nitrosodimethylamine	74	1.986	1.968	0.018	87	14996	0.1000	0.0972	
3 Bis(2-chloroethyl)ether	93	4.244	4.243	0.001	87	25685	0.1000	0.0945	
* 4 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	98	50213	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.718	5.718	0.000	91	168814	0.2500	0.2500	
6 Naphthalene	128	5.743	5.743	0.000	92	72013	0.1000	0.0918	
7 Quinoline	129	6.056	6.056	0.000	97	44304	0.1000	0.0943	
8 2-Methylnaphthalene	142	6.401	6.401	0.000	95	48478	0.1000	0.0923	
$ 9 1-Methylnaphthalene-d10	152	6.460	6.460	0.000	96	38671	0.1000	0.0941	
10 1-Methylnaphthalene	142	6.490	6.490	0.000	99	46173	0.1000	0.0942	
11 Dimethyl phthalate	163	7.140	7.140	0.000	75	536916	1.00	1.05	
12 Acenaphthylene	152	7.248	7.248	0.000	98	64424	0.1000	0.0903	
* 13 Acenaphthene-d10	164	7.386	7.386	0.000	92	95421	0.2500	0.2500	
14 Acenaphthene	154	7.416	7.416	0.000	85	42692	0.1000	0.0924	
15 Dibenzofuran	168	7.583	7.583	0.000	92	75410	0.1000	0.0937	
16 Diethyl phthalate	149	7.810	7.810	0.000	100	473344	1.00	1.03	
17 Fluorene	166	7.904	7.904	0.000	99	54851	0.1000	0.0929	
18 N-Nitrosodiphenylamine	169	8.021	8.029	-0.008	100	33095	0.1000	0.0985	
19 Hexachlorobenzene	284	8.427	8.435	-0.008	92	22021	0.1000	0.0935	
* 20 Phenanthrene-d10	188	8.794	8.794	0.000	95	186160	0.2500	0.2500	
21 Phenanthrene	178	8.817	8.817	0.000	100	84926	0.1000	0.0918	
22 Anthracene	178	8.864	8.864	0.000	100	71844	0.1000	0.0894	
23 Di-n-butyl phthalate	149	9.372	9.378	-0.006	100	634546	1.00	1.00	
$ 24 Fluoranthene-d10 (Surr)	212	9.923	9.929	-0.006	98	79295	0.1000	0.0932	
25 Fluoranthene	202	9.942	9.948	-0.006	99	95102	0.1000	0.0916	
26 Pyrene	202	10.155	10.161	-0.006	98	99031	0.1000	0.0914	
27 Butyl benzyl phthalate	149	10.822	10.829	-0.007	100	246886	1.00	0.9804	
28 Benzo[a]anthracene	228	11.397	11.405	-0.008	100	80749	0.1000	0.0914	
* 29 Chrysene-d12	240	11.412	11.412	0.000	59	168749	0.2500	0.2500	
30 Chrysene	228	11.443	11.443	0.000	100	100172	0.1000	0.0932	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.497	11.497	0.000	99	320776	1.00	0.9235	
32 Di-n-octyl phthalate	149	12.333	12.333	0.000	100	493030	1.00	0.9842	
33 Benzo[b]fluoranthene	252	12.770	12.770	0.000	100	84917	0.1000	0.0944	
34 Benzo[k]fluoranthene	252	12.808	12.808	0.000	100	94502	0.1000	0.0985	
35 Benzo[e]pyrene	252	13.138	13.146	-0.008	100	86690	0.1000	0.0949	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.184	13.184	0.000	99	58428	0.1000	0.0933	
37 Benzo[a]pyrene	252	13.215	13.215	0.000	100	76948	0.1000	0.0945	
* 38 Perylene-d12	264	13.299	13.299	0.000	100	170272	0.2500	0.2500	
39 Perylene	252	13.330	13.330	0.000	100	90174	0.1000	0.0974	
40 Indeno[1,2,3-cd]pyrene	276	14.837	14.844	-0.007	99	67994	0.1000	0.0908	M
41 Dibenz(a,h)anthracene	278	14.886	14.886	0.000	96	81284	0.1000	0.0942	
42 Benzo[g,h,i]perylene	276	15.253	15.260	-0.007	96	87866	0.1000	0.0921	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00022 Amount Added: 1.00 Units: mL

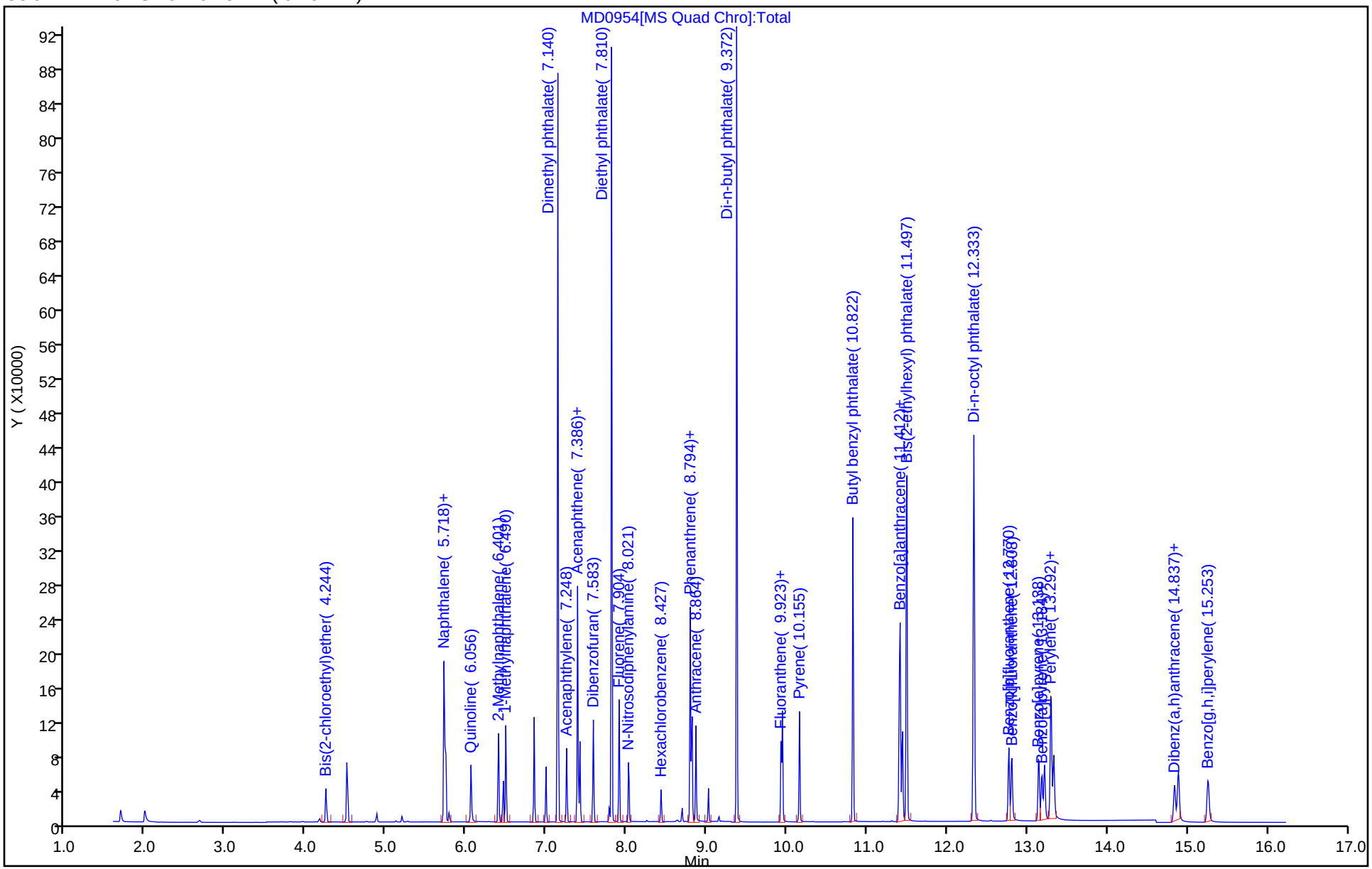
Report Date: 25-Apr-2023 09:31:36 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0954.D

Injection Date:	25-Apr-2023 07:28:32	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

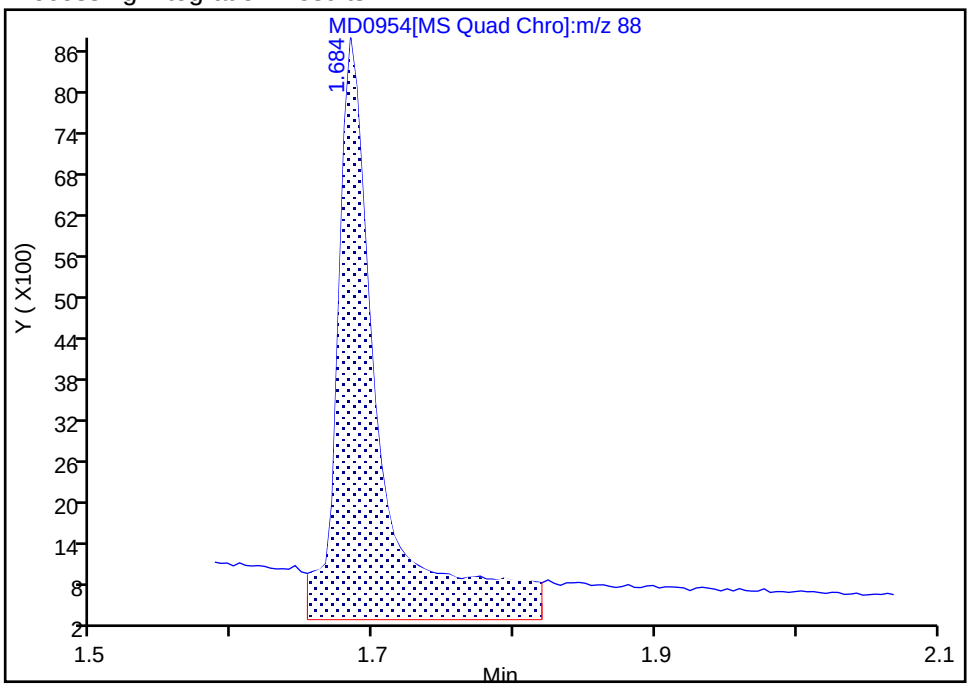
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0954.D				
Injection Date:	25-Apr-2023 07:28:32	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

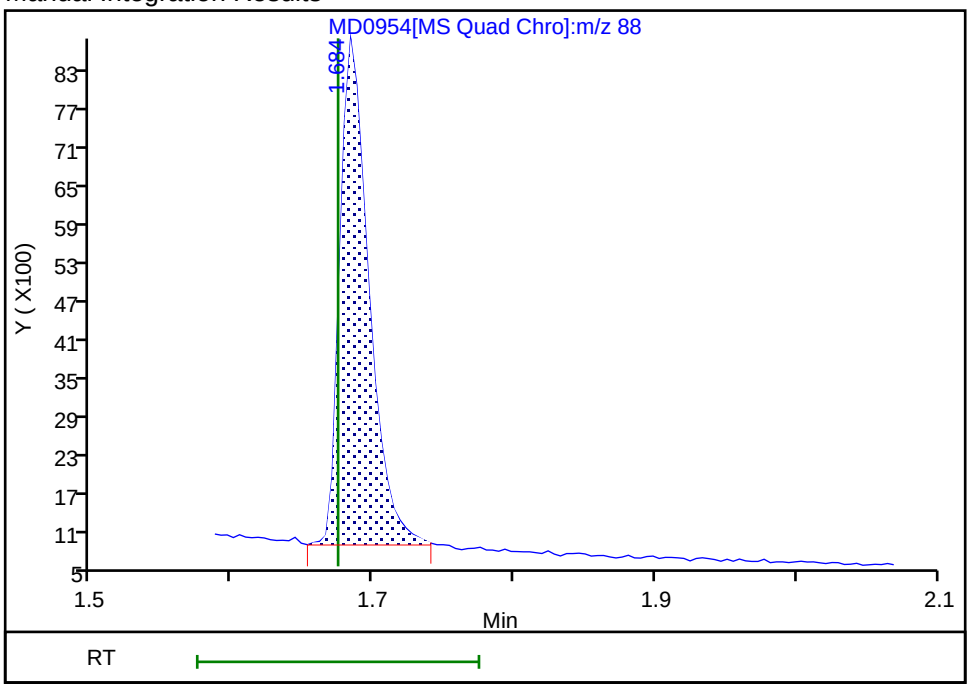
Processing Integration Results

RT: 1.68
Area: 17792
Amount: 0.133464
Amount Units: ug/ml



Manual Integration Results

RT: 1.68
Area: 11303
Amount: 0.091779
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:00:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

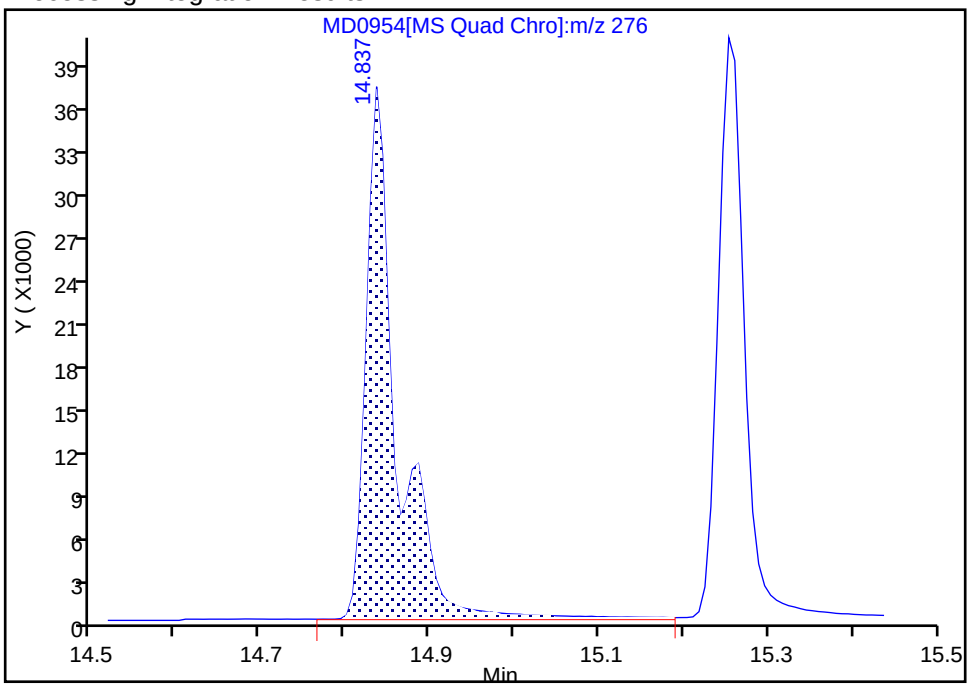
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0954.D				
Injection Date:	25-Apr-2023 07:28:32	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

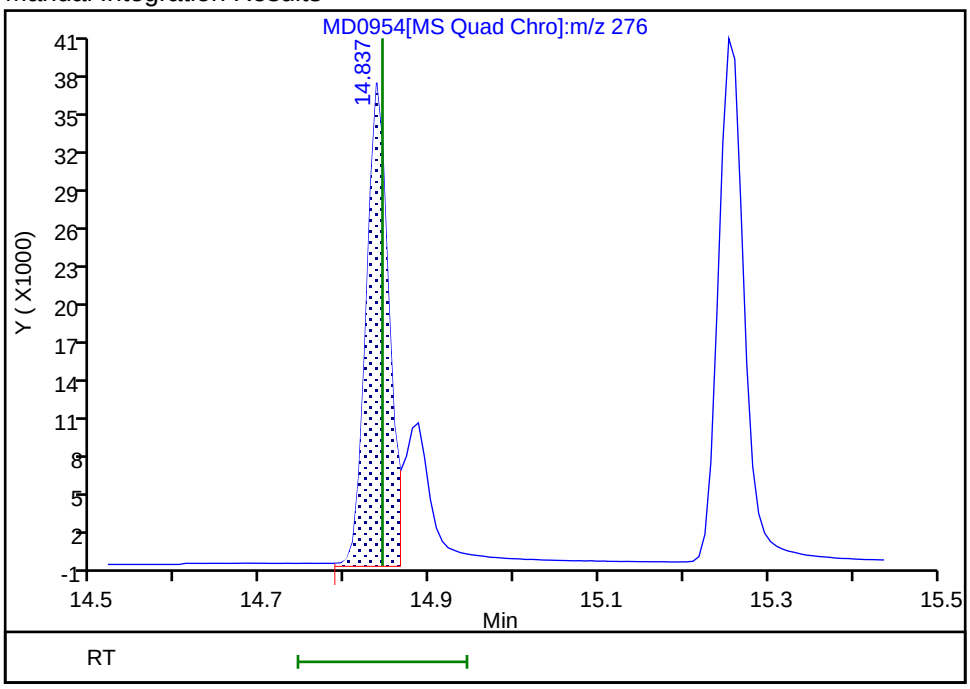
Processing Integration Results

RT: 14.84
Area: 96368
Amount: 0.128295
Amount Units: ug/ml



Manual Integration Results

RT: 14.84
Area: 67994
Amount: 0.090828
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:00:12

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0955.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Apr-2023 07:49:54 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0082279-006, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 09:36:17 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 09:36:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.683	1.687	-0.004	84	6290	0.0500	0.0509	M
2 N-Nitrosodimethylamine	74	1.990	1.999	-0.009	87	7696	0.0500	0.0497	
3 Bis(2-chloroethyl)ether	93	4.243	4.243	0.000	87	14409	0.0500	0.0520	
* 4 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	99	50382	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.718	5.718	0.000	91	171870	0.2500	0.2500	
6 Naphthalene	128	5.743	5.743	0.000	92	41527	0.0500	0.0520	
7 Quinoline	129	6.055	6.068	-0.013	98	23215	0.0500	0.0485	
8 2-Methylnaphthalene	142	6.401	6.401	0.000	95	27122	0.0500	0.0507	
$ 9 1-Methylnaphthalene-d10	152	6.460	6.460	0.000	99	21506	0.0500	0.0514	
10 1-Methylnaphthalene	142	6.490	6.490	0.000	99	25123	0.0500	0.0503	
11 Dimethyl phthalate	163	7.140	7.140	0.000	75	269552	0.5000	0.5201	
12 Acenaphthylene	152	7.248	7.248	0.000	98	35341	0.0500	0.0489	
* 13 Acenaphthene-d10	164	7.386	7.386	0.000	93	96655	0.2500	0.2500	
14 Acenaphthene	154	7.416	7.415	0.001	88	23709	0.0500	0.0506	
15 Dibenzofuran	168	7.583	7.583	0.000	93	42246	0.0500	0.0518	
16 Diethyl phthalate	149	7.810	7.810	0.000	99	233420	0.5000	0.5022	
17 Fluorene	166	7.904	7.904	0.000	99	29316	0.0500	0.0490	
18 N-Nitrosodiphenylamine	169	8.021	8.028	-0.007	100	16276	0.0500	0.0498	
19 Hexachlorobenzene	284	8.427	8.426	0.001	93	12118	0.0500	0.0529	
* 20 Phenanthrene-d10	188	8.794	8.793	0.001	94	180915	0.2500	0.2500	
21 Phenanthrene	178	8.817	8.817	0.000	100	46573	0.0500	0.0518	
22 Anthracene	178	8.864	8.864	0.000	100	37989	0.0500	0.0486	
23 Di-n-butyl phthalate	149	9.371	9.371	0.000	100	293733	0.5000	0.4751	
$ 24 Fluoranthene-d10 (Surr)	212	9.929	9.929	0.000	98	41401	0.0500	0.0501	
25 Fluoranthene	202	9.942	9.942	0.000	100	49555	0.0500	0.0491	
26 Pyrene	202	10.155	10.155	0.000	98	52259	0.0500	0.0520	
27 Butyl benzyl phthalate	149	10.822	10.821	0.001	100	103317	0.5000	0.4422	
28 Benzo[a]anthracene	228	11.397	11.397	0.000	100	39415	0.0500	0.0481	
* 29 Chrysene-d12	240	11.412	11.412	0.000	58	156558	0.2500	0.2500	
30 Chrysene	228	11.443	11.443	0.000	100	52382	0.0500	0.0525	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.497	11.489	0.008	99	130396	0.5000	0.4691	
32 Di-n-octyl phthalate	149	12.333	12.332	0.001	100	198930	0.5000	0.4446	
33 Benzo[b]fluoranthene	252	12.770	12.770	0.000	100	41247	0.0500	0.0513	
34 Benzo[k]fluoranthene	252	12.808	12.808	0.000	100	46728	0.0500	0.0545	
35 Benzo[e]pyrene	252	13.146	13.138	0.008	100	44046	0.0500	0.0540	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.184	13.184	0.000	100	28128	0.0500	0.0503	
37 Benzo[a]pyrene	252	13.215	13.214	0.001	100	37017	0.0500	0.0509	
* 38 Perylene-d12	264	13.299	13.291	0.008	100	152076	0.2500	0.2500	
39 Perylene	252	13.330	13.329	0.001	100	48085	0.0500	0.0581	
40 Indeno[1,2,3-cd]pyrene	276	14.837	14.836	0.000	99	34689	0.0500	0.0519	M
41 Dibenz(a,h)anthracene	278	14.886	14.886	0.000	96	40249	0.0500	0.0522	
42 Benzo[g,h,i]perylene	276	15.253	15.253	0.000	96	46137	0.0500	0.0542	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00021 Amount Added: 1.00 Units: mL

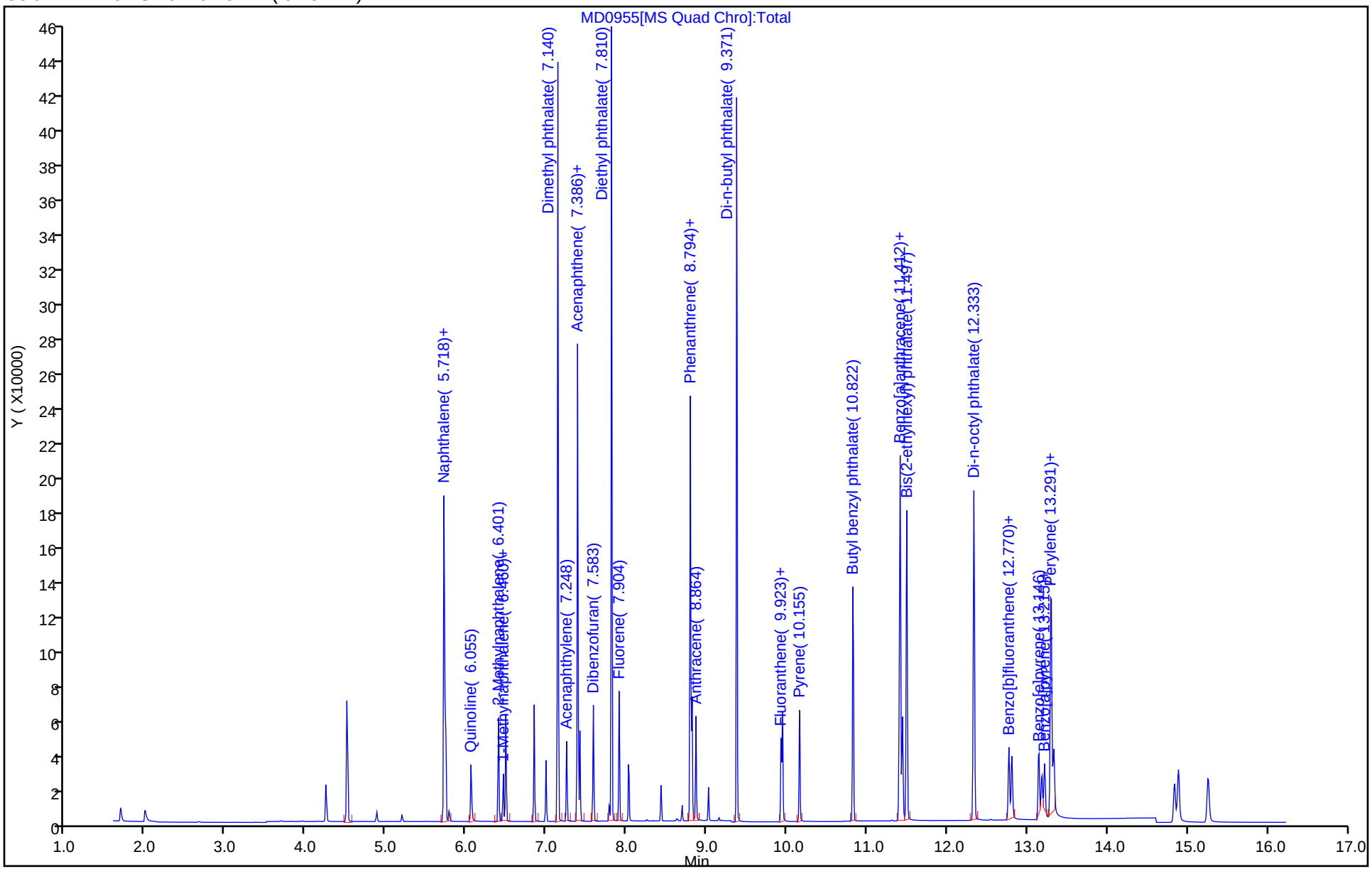
Report Date: 25-Apr-2023 09:36:18 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0955.D

Injection Date:	25-Apr-2023 07:49:54	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

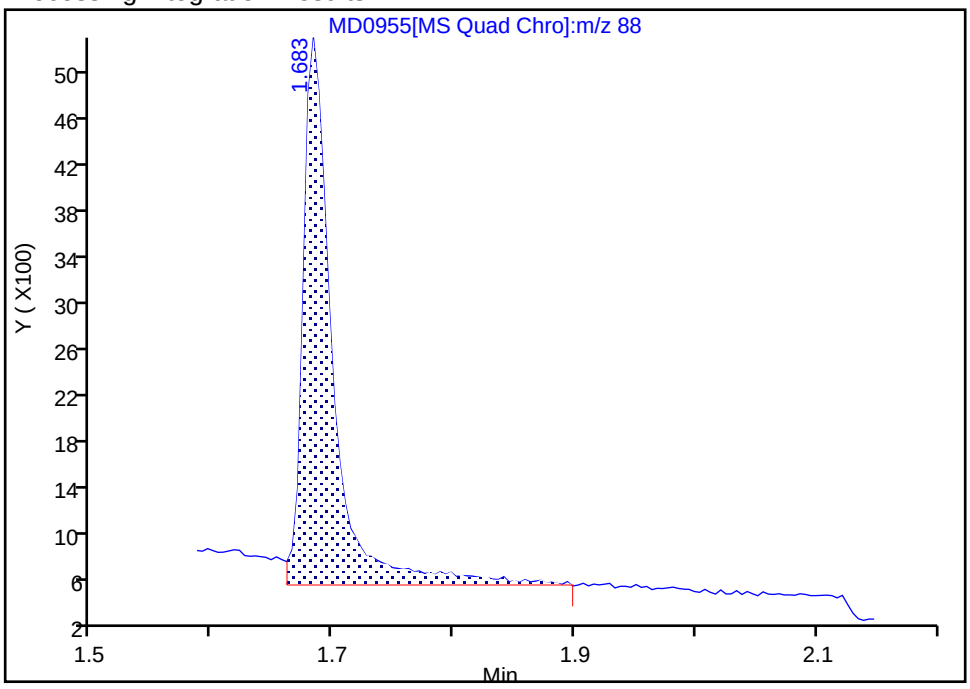
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0955.D				
Injection Date:	25-Apr-2023 07:49:54	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

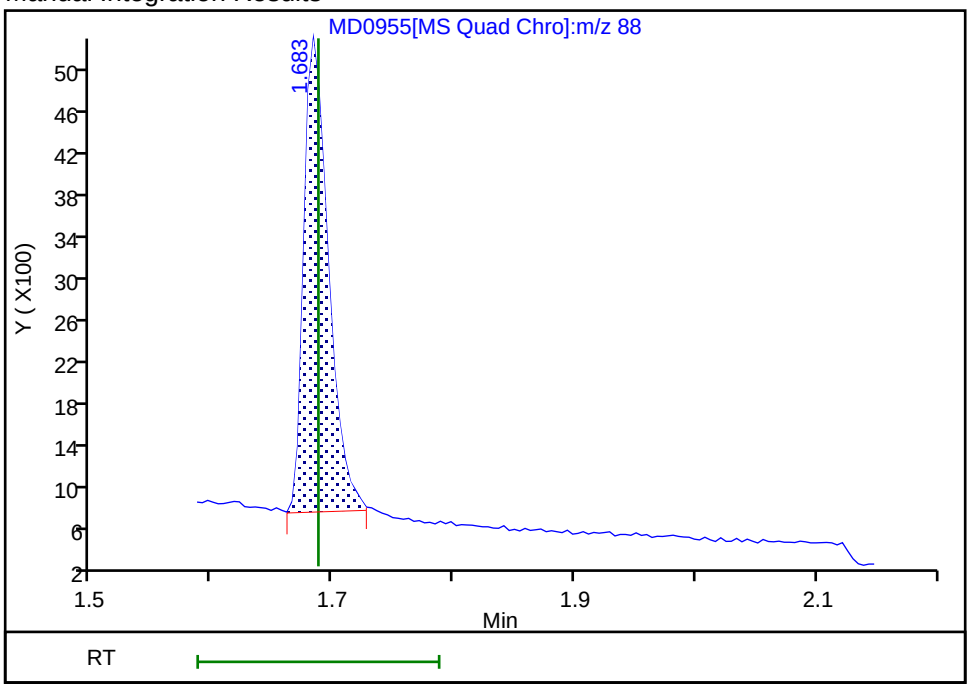
Processing Integration Results

RT: 1.68
Area: 8078
Amount: 0.063960
Amount Units: ug/ml



Manual Integration Results

RT: 1.68
Area: 6290
Amount: 0.050903
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:00:57

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

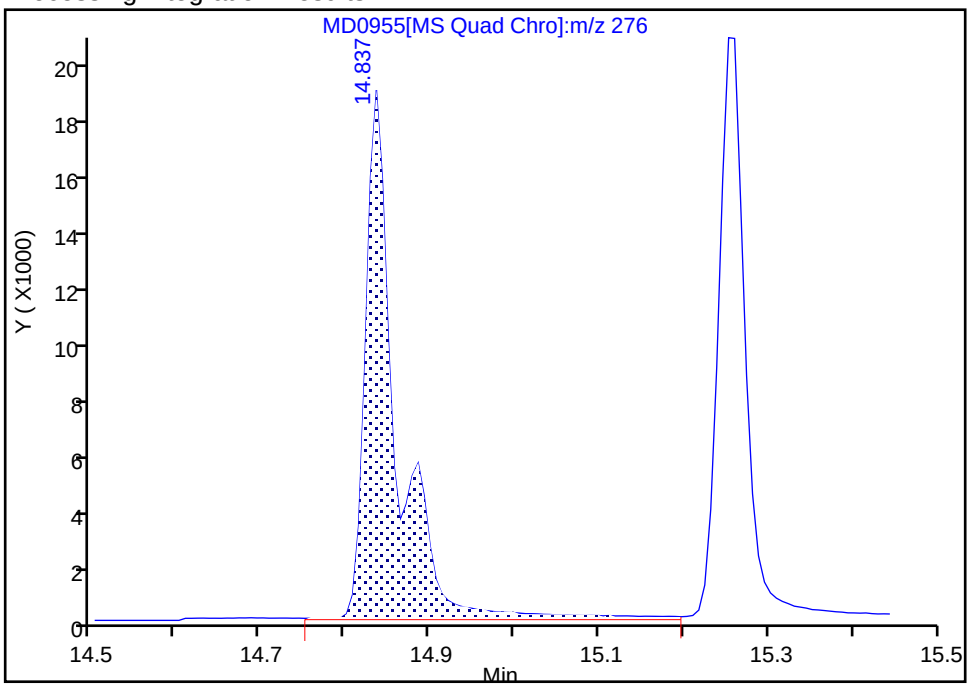
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0955.D				
Injection Date:	25-Apr-2023 07:49:54	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

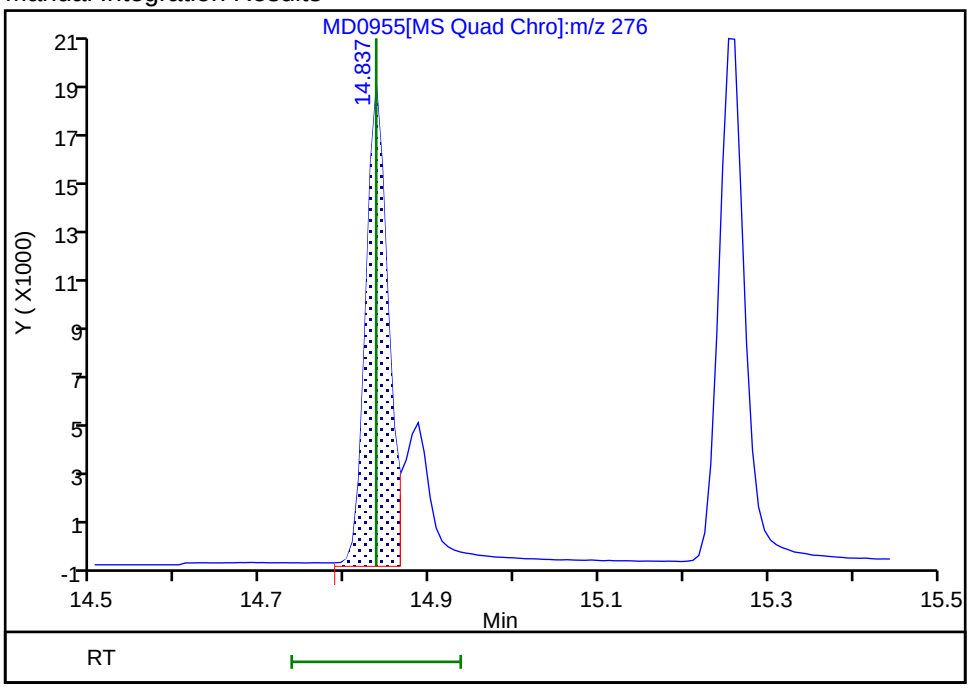
Processing Integration Results

RT: 14.84
Area: 50137
Amount: 0.058893
Amount Units: ug/ml



Manual Integration Results

RT: 14.84
Area: 34689
Amount: 0.051883
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:01:23

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Apr-2023 08:11:13 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0082279-007, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 09:31:39 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 09:02:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.687	1.687	0.000	83	1491	0.0100	0.0118	M
2 N-Nitrosodimethylamine	74	1.999	1.999	0.000	86	1722	0.0100	0.0109	
3 Bis(2-chloroethyl)ether	93	4.243	4.243	0.000	86	3358	0.0100	0.0120	
* 4 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	99	51561	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.718	5.718	0.000	91	174314	0.2500	0.2500	
6 Naphthalene	128	5.743	5.743	0.000	92	9980	0.0100	0.0123	
7 Quinoline	129	6.068	6.068	0.000	98	5183	0.0100	0.0107	
8 2-Methylnaphthalene	142	6.401	6.401	0.000	95	6578	0.0100	0.0121	
$ 9 1-Methylnaphthalene-d10	152	6.460	6.460	0.000	98	5093	0.0100	0.0120	
10 1-Methylnaphthalene	142	6.490	6.490	0.000	100	6051	0.0100	0.0120	
11 Dimethyl phthalate	163	7.140	7.140	0.000	75	117568	0.2500	0.2358	
12 Acenaphthylene	152	7.248	7.248	0.000	98	8039	0.0100	0.0116	
* 13 Acenaphthene-d10	164	7.386	7.386	0.000	93	92995	0.2500	0.2500	
14 Acenaphthene	154	7.415	7.415	0.000	88	5626	0.0100	0.0125	
15 Dibenzofuran	168	7.583	7.583	0.000	90	9798	0.0100	0.0125	
16 Diethyl phthalate	149	7.810	7.810	0.000	100	98381	0.2500	0.2200	
17 Fluorene	166	7.904	7.904	0.000	99	7037	0.0100	0.0122	
18 N-Nitrosodiphenylamine	169	8.028	8.028	0.000	100	3968	0.0100	0.0125	
19 Hexachlorobenzene	284	8.426	8.426	0.000	94	2812	0.0100	0.0127	
* 20 Phenanthrene-d10	188	8.793	8.793	0.000	96	175600	0.2500	0.2500	
21 Phenanthrene	178	8.817	8.817	0.000	100	11319	0.0100	0.0130	
22 Anthracene	178	8.864	8.864	0.000	100	8857	0.0100	0.0117	
23 Di-n-butyl phthalate	149	9.371	9.371	0.000	100	117180	0.2500	0.1953	
$ 24 Fluoranthene-d10 (Surr)	212	9.929	9.929	0.000	98	9265	0.0100	0.0115	
25 Fluoranthene	202	9.942	9.942	0.000	100	12273	0.0100	0.0125	
26 Pyrene	202	10.155	10.155	0.000	98	12823	0.0100	0.0136	
27 Butyl benzyl phthalate	149	10.821	10.821	0.000	100	39600	0.2500	0.1805	
28 Benzo[a]anthracene	228	11.397	11.397	0.000	100	9385	0.0100	0.0122	
* 29 Chrysene-d12	240	11.412	11.412	0.000	57	146988	0.2500	0.2500	
30 Chrysene	228	11.443	11.443	0.000	100	12326	0.0100	0.0132	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.489	11.489	0.000	100	50565	0.2500	0.2611	
32 Di-n-octyl phthalate	149	12.332	12.332	0.000	100	74884	0.2500	0.1906	
33 Benzo[b]fluoranthene	252	12.770	12.770	0.000	100	9569	0.0100	0.0136	
34 Benzo[k]fluoranthene	252	12.808	12.808	0.000	100	9686	0.0100	0.0129	
35 Benzo[e]pyrene	252	13.138	13.138	0.000	100	9806	0.0100	0.0137	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.184	13.184	0.000	100	5908	0.0100	0.0120	
37 Benzo[a]pyrene	252	13.214	13.214	0.000	100	7483	0.0100	0.0117	
* 38 Perylene-d12	264	13.291	13.291	0.000	100	133515	0.2500	0.2500	
39 Perylene	252	13.329	13.329	0.000	100	9301	0.0100	0.0128	M
40 Indeno[1,2,3-cd]pyrene	276	14.836	14.836	0.000	99	7794	0.0100	0.0133	M
41 Dibenz(a,h)anthracene	278	14.886	14.886	0.000	97	8806	0.0100	0.0130	
42 Benzo[g,h,i]perylene	276	15.253	15.253	0.000	96	10246	0.0100	0.0137	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00021 Amount Added: 1.00 Units: mL

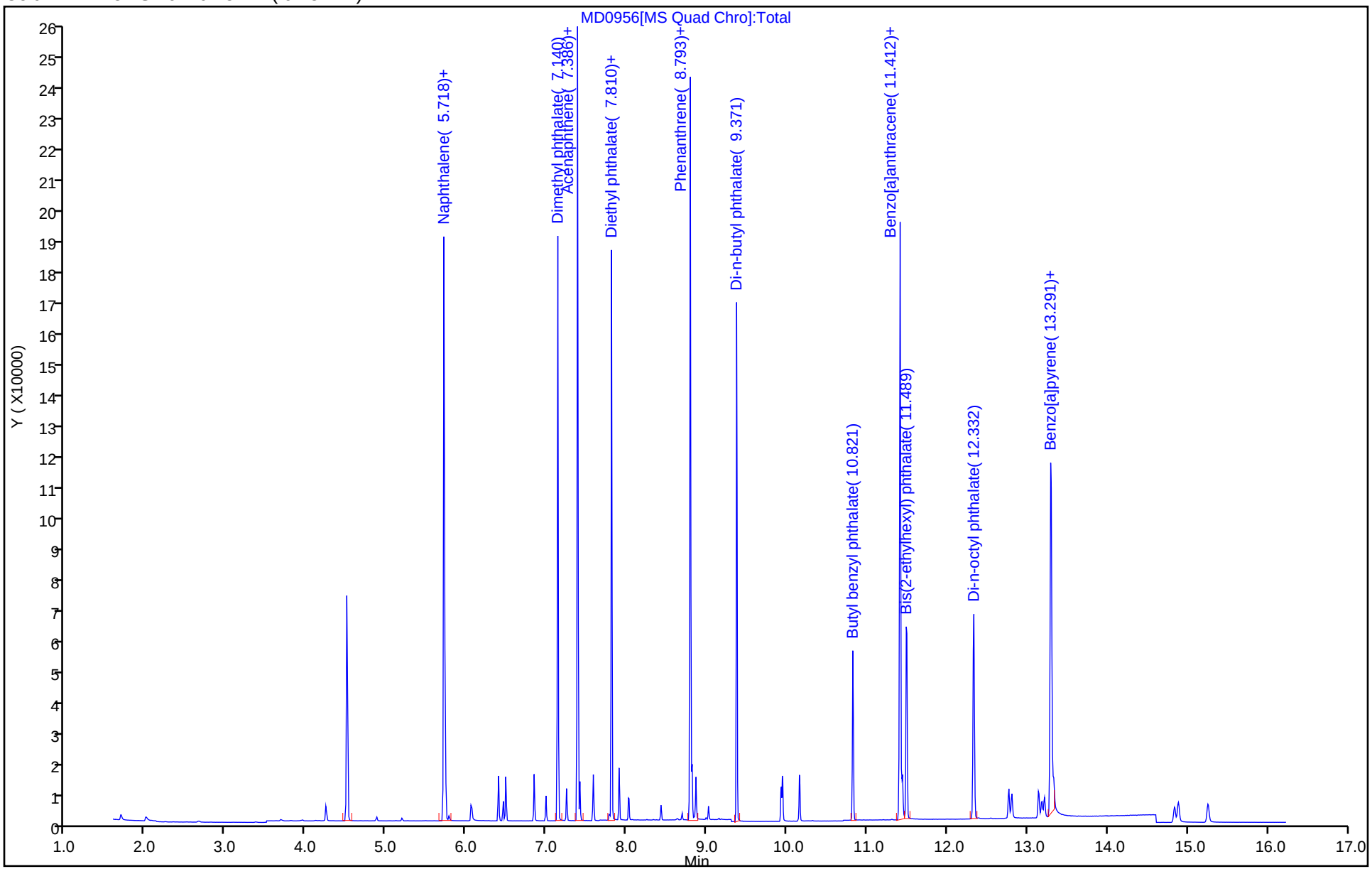
Report Date: 25-Apr-2023 09:31:39 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Injection Date:	25-Apr-2023 08:11:13	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

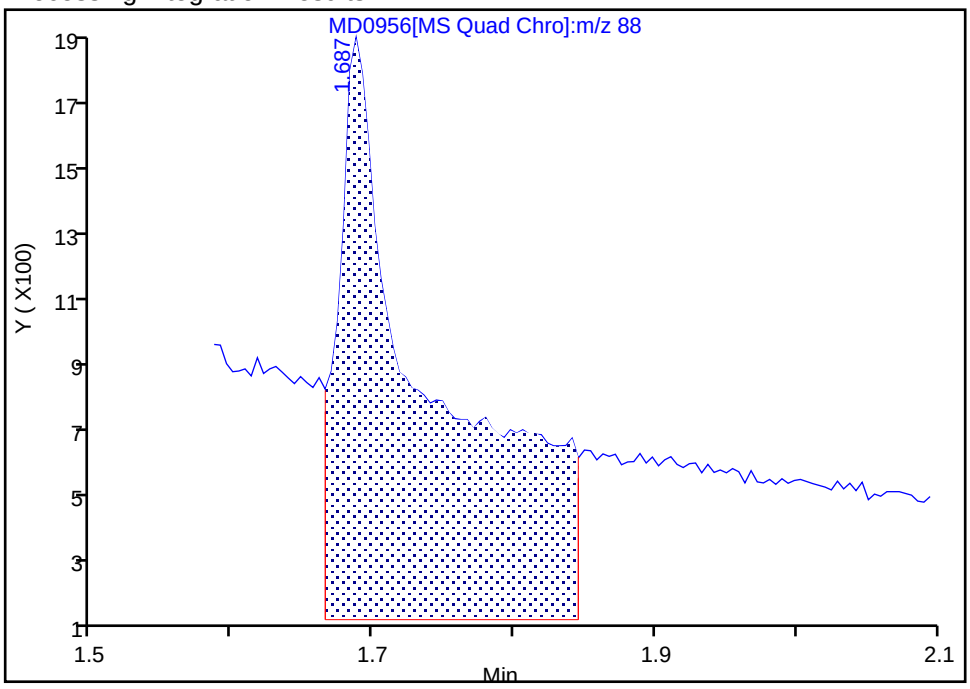
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Injection Date:	25-Apr-2023 08:11:13	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

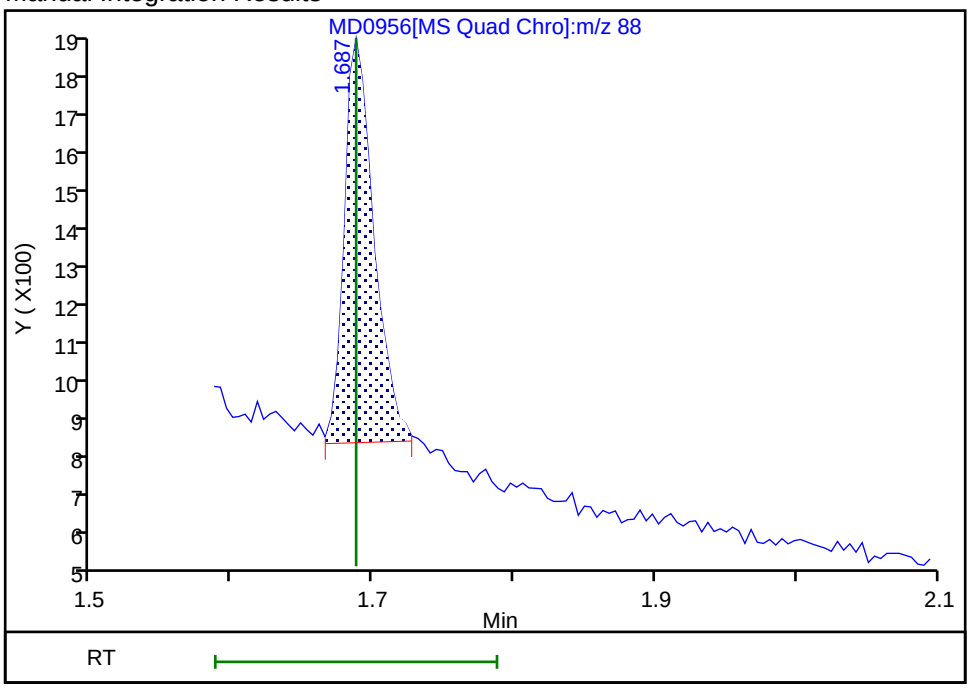
Processing Integration Results

RT: 1.69
Area: 7839
Amount: 0.033751
Amount Units: ug/ml



Manual Integration Results

RT: 1.69
Area: 1491
Amount: 0.011790
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:01:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

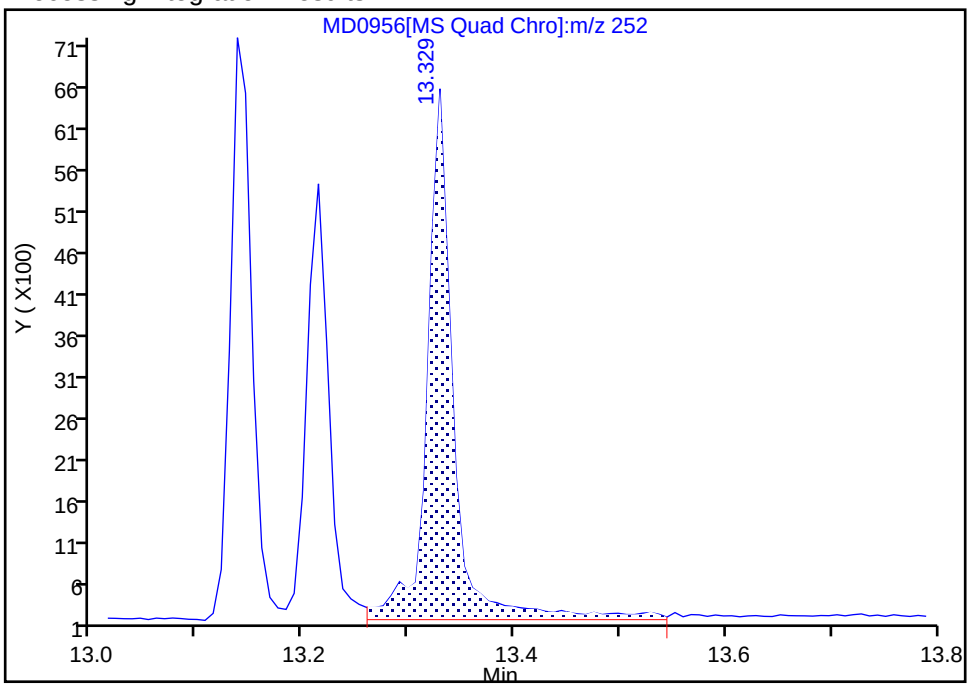
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Injection Date:	25-Apr-2023 08:11:13	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

39 Perylene, CAS: 198-55-0

Signal: 1

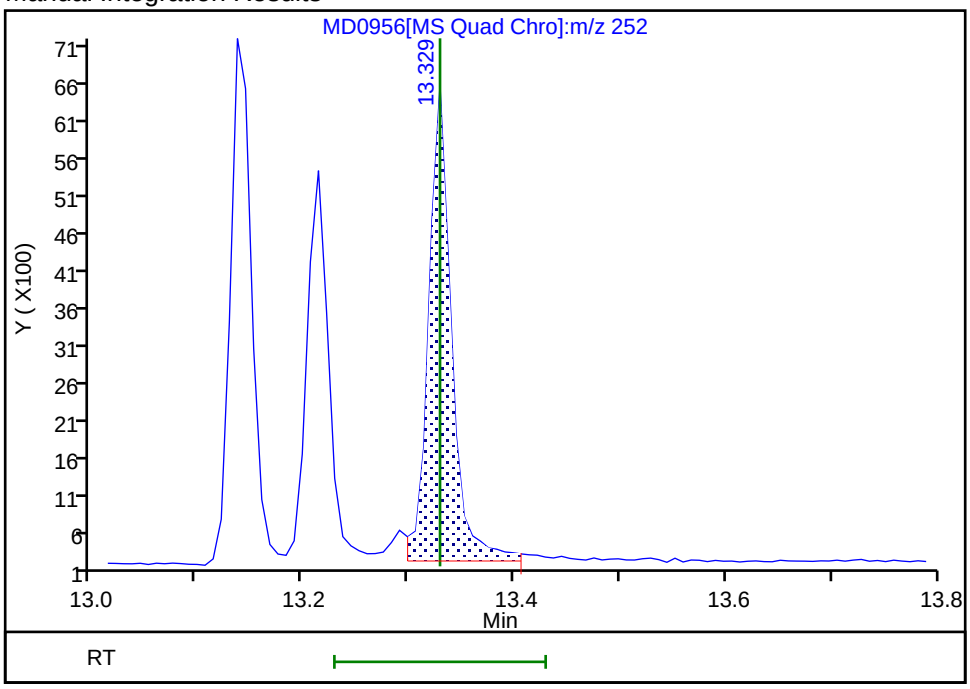
Processing Integration Results

RT: 13.33
Area: 10884
Amount: 0.005796
Amount Units: ug/ml



Manual Integration Results

RT: 13.33
Area: 9301
Amount: 0.012808
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:02:26

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

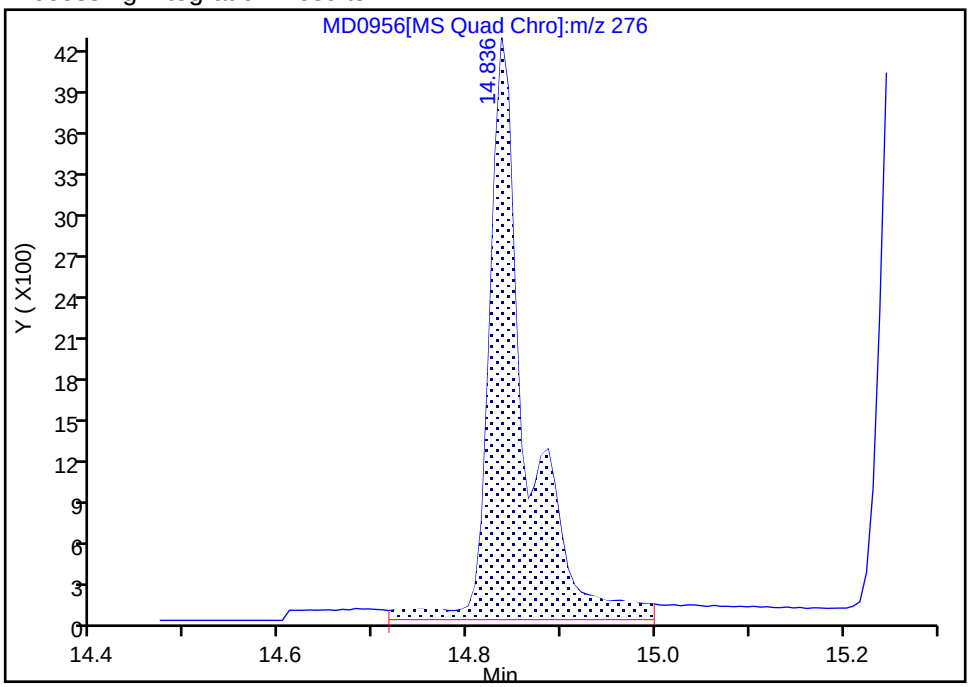
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Injection Date:	25-Apr-2023 08:11:13	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

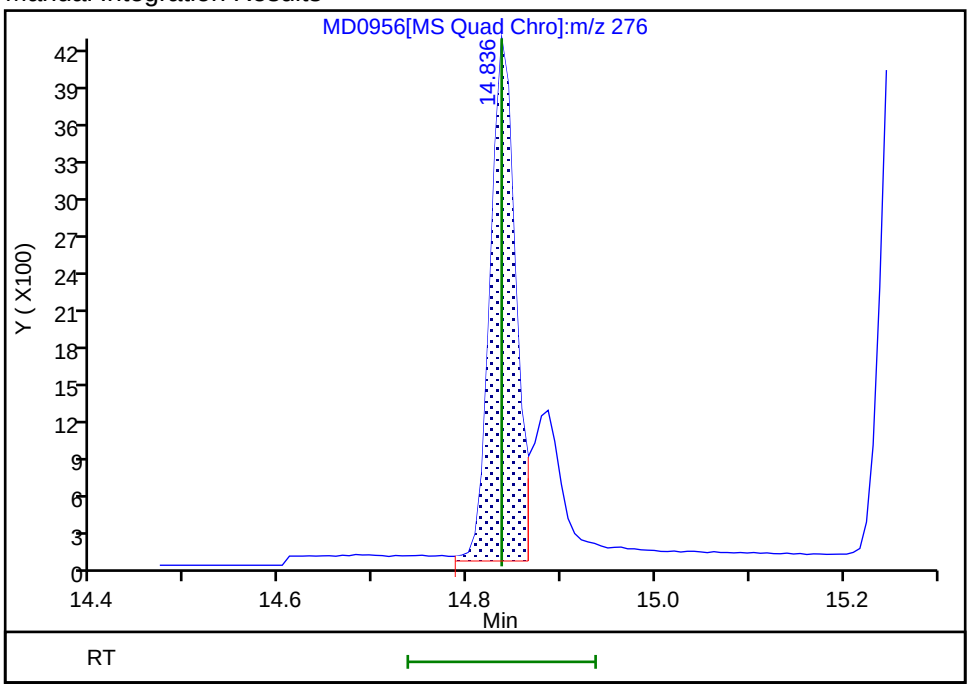
Processing Integration Results

RT: 14.84
Area: 11673
Amount: 0.010166
Amount Units: ug/ml



Manual Integration Results

RT: 14.84
Area: 7794
Amount: 0.013278
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:02:33

Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

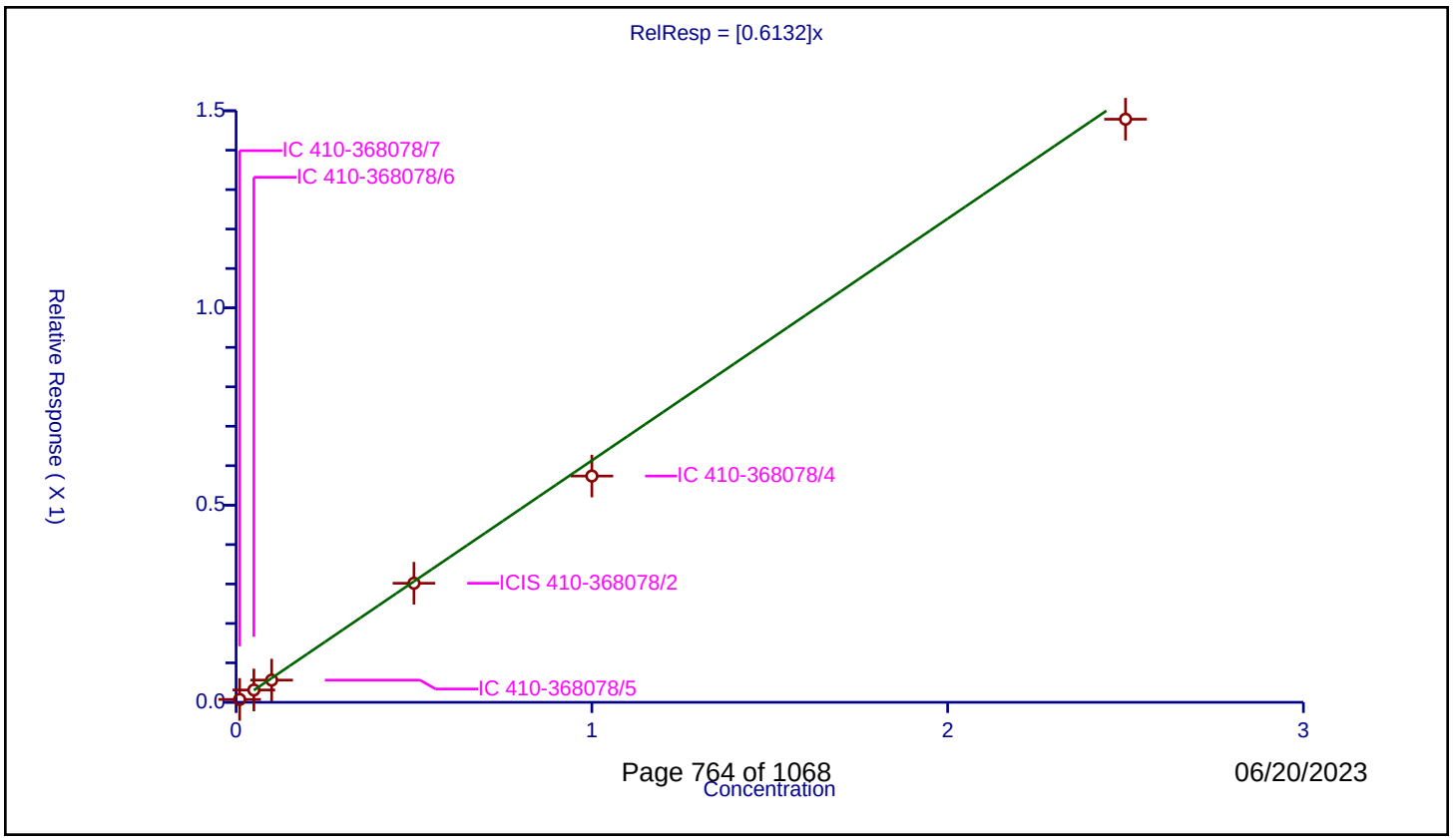
Curve Coefficients

Intercept:	0
Slope:	0.6132

Error Coefficients

Standard Error:	157000
Relative Standard Error:	9.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.007229	0.25	51561.0	0.72293	Y
2	IC 410-368078/6	0.05	0.031212	0.25	50382.0	0.624231	Y
3	IC 410-368078/5	0.1	0.056275	0.25	50213.0	0.562753	Y
4	ICIS 410-368078/2	0.5	0.301928	0.25	51750.0	0.603855	Y
5	IC 410-368078/4	1.0	0.573771	0.25	50179.0	0.573771	Y
6	IC 410-368078/3	2.5	1.478579	0.25	54981.0	0.591432	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

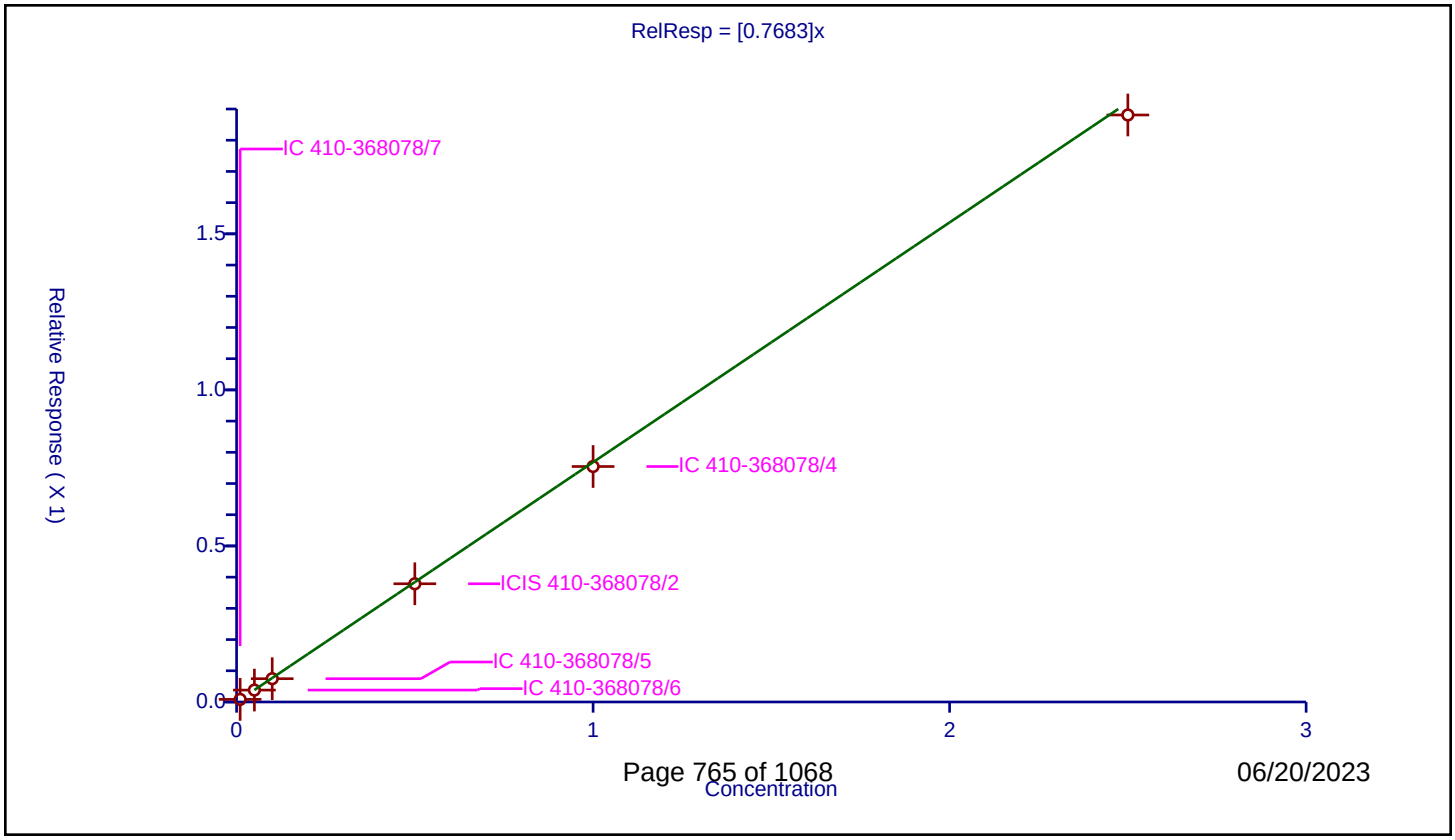
Curve Coefficients

Intercept:	0
Slope:	0.7683

Error Coefficients

Standard Error:	200000
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	IC 410-368078/7	0.01	0.008349	0.25	51561.0	0.834933	Y
2	IC 410-368078/6	0.05	0.038188	0.25	50382.0	0.763765	Y
3	IC 410-368078/5	0.1	0.074662	0.25	50213.0	0.746619	Y
4	ICIS 410-368078/2	0.5	0.378778	0.25	51750.0	0.757556	Y
5	IC 410-368078/4	1.0	0.754484	0.25	50179.0	0.754484	Y
6	IC 410-368078/3	2.5	1.880822	0.25	54981.0	0.752329	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

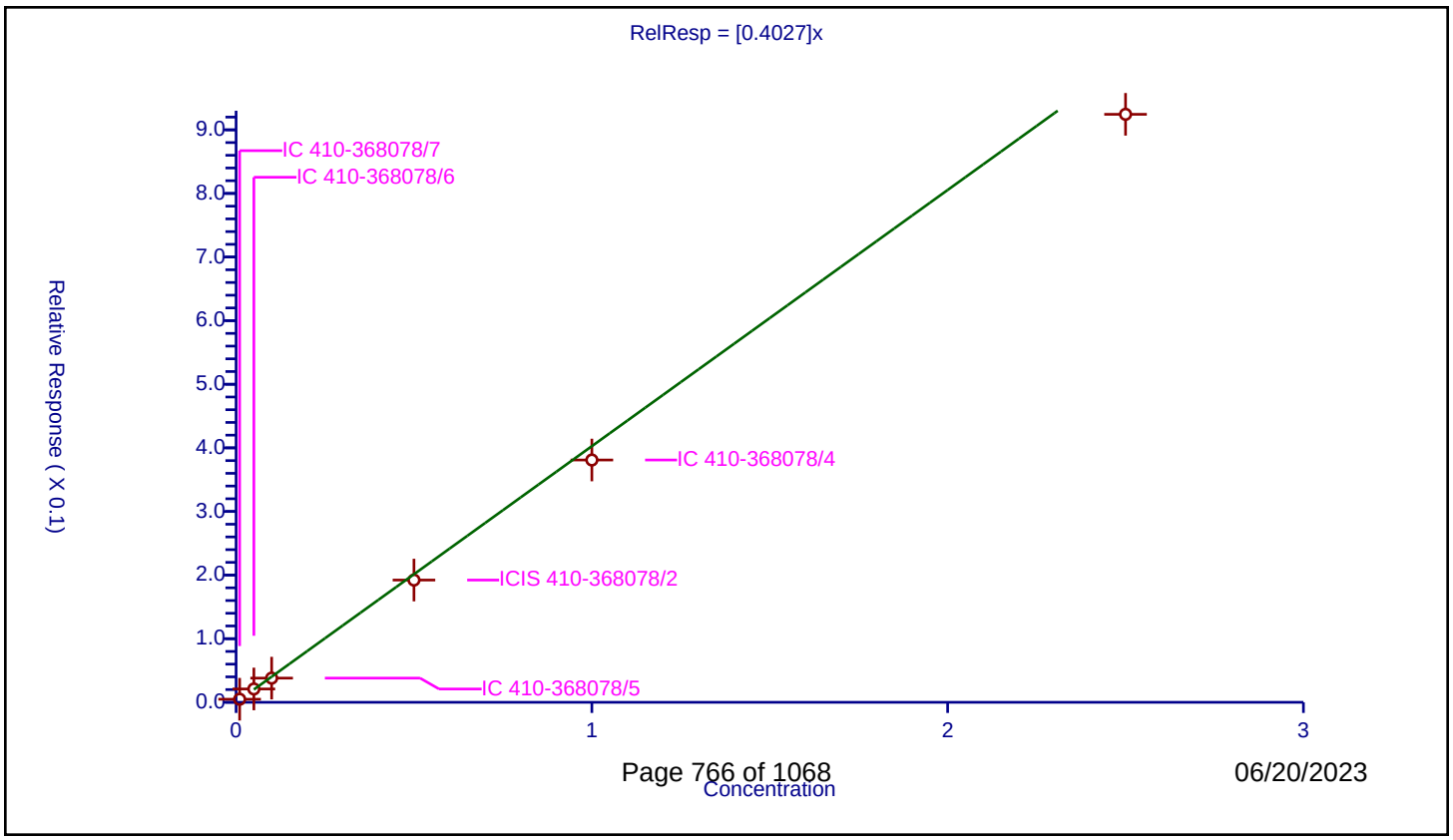
Curve Coefficients

Intercept:	0
Slope:	0.4027

Error Coefficients

Standard Error:	340000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.004816	0.25	174314.0	0.481602	Y
2	IC 410-368078/6	0.05	0.020959	0.25	171870.0	0.419183	Y
3	IC 410-368078/5	0.1	0.038037	0.25	168814.0	0.380374	Y
4	ICIS 410-368078/2	0.5	0.192188	0.25	179639.0	0.384376	Y
5	IC 410-368078/4	1.0	0.380944	0.25	174695.0	0.380944	Y
6	IC 410-368078/3	2.5	0.9244	0.25	188607.0	0.36976	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

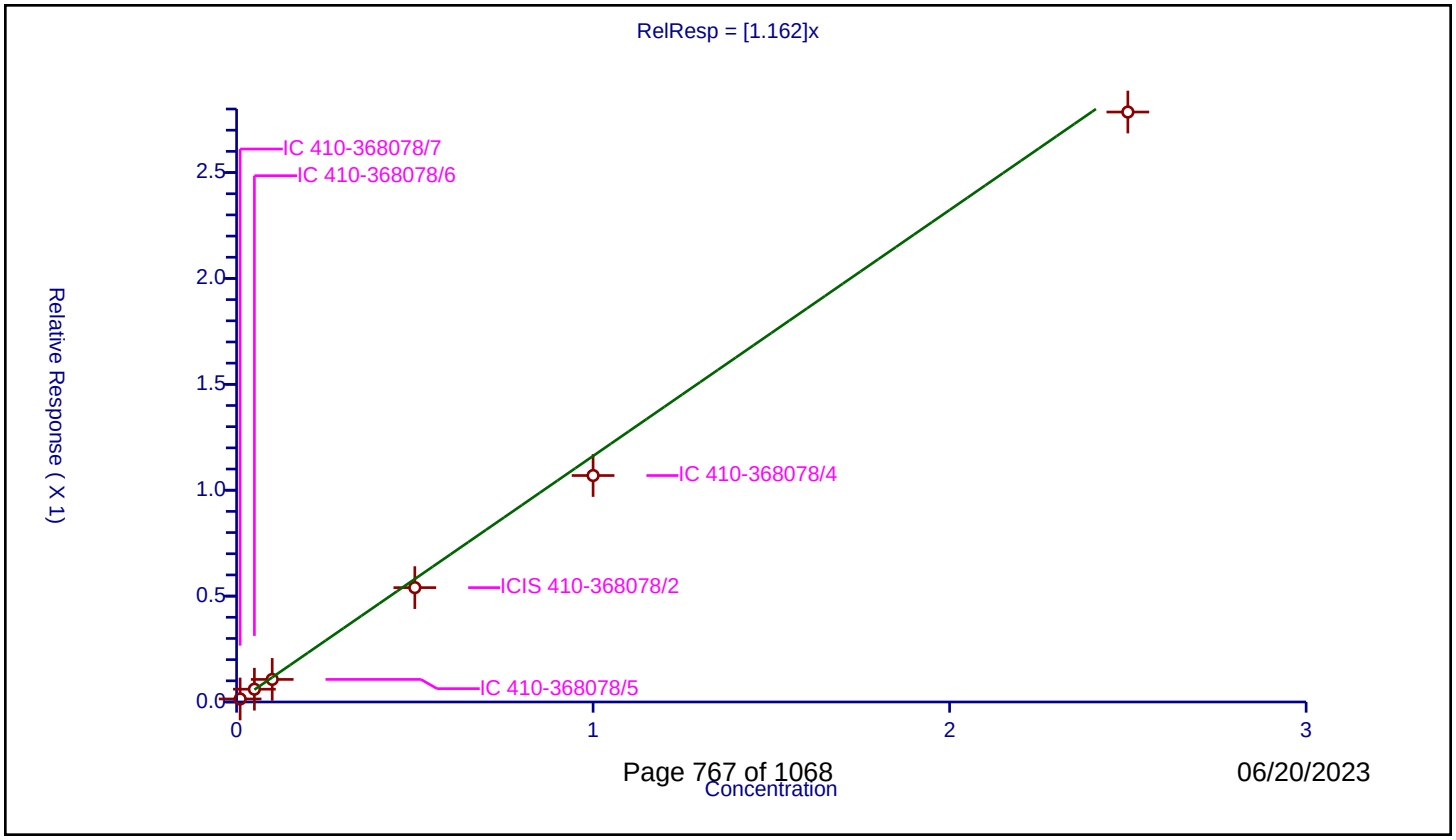
Curve Coefficients

Intercept:	0
Slope:	1.162

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	12.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.014313	0.25	174314.0	1.431325	Y
2	IC 410-368078/6	0.05	0.060405	0.25	171870.0	1.208093	Y
3	IC 410-368078/5	0.1	0.106645	0.25	168814.0	1.066455	Y
4	ICIS 410-368078/2	0.5	0.540004	0.25	179639.0	1.080008	Y
5	IC 410-368078/4	1.0	1.069312	0.25	174695.0	1.069312	Y
6	IC 410-368078/3	2.5	2.785726	0.25	188607.0	1.114291	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

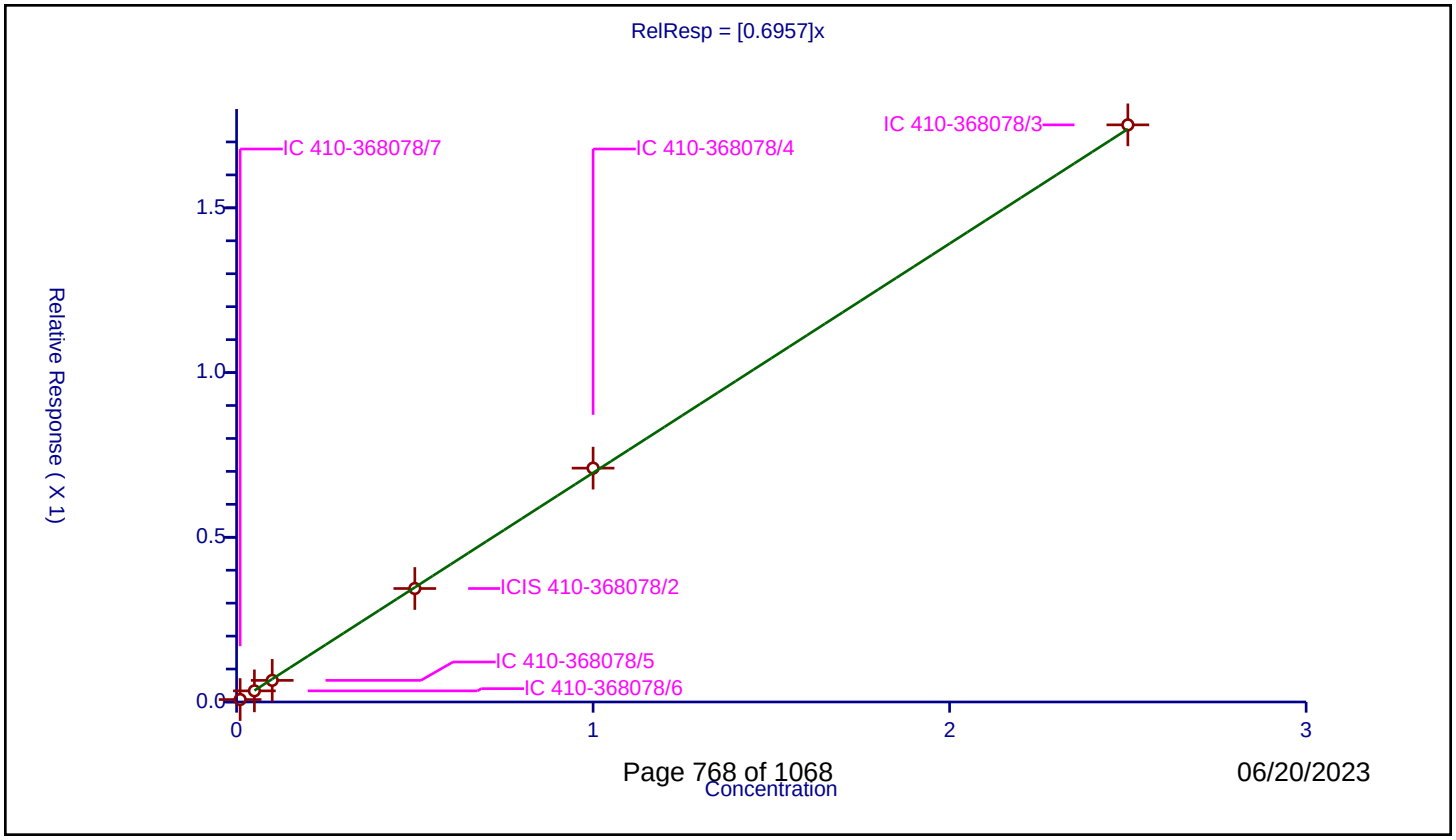
Curve Coefficients

Intercept:	0
Slope:	0.6957

Error Coefficients

Standard Error:	641000
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	IC 410-368078/7	0.01	0.007433	0.25	174314.0	0.743342	Y
2	IC 410-368078/6	0.05	0.033768	0.25	171870.0	0.675365	Y
3	IC 410-368078/5	0.1	0.065611	0.25	168814.0	0.656107	Y
4	ICIS 410-368078/2	0.5	0.344453	0.25	179639.0	0.688907	Y
5	IC 410-368078/4	1.0	0.709843	0.25	174695.0	0.709843	Y
6	IC 410-368078/3	2.5	1.751876	0.25	188607.0	0.70075	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

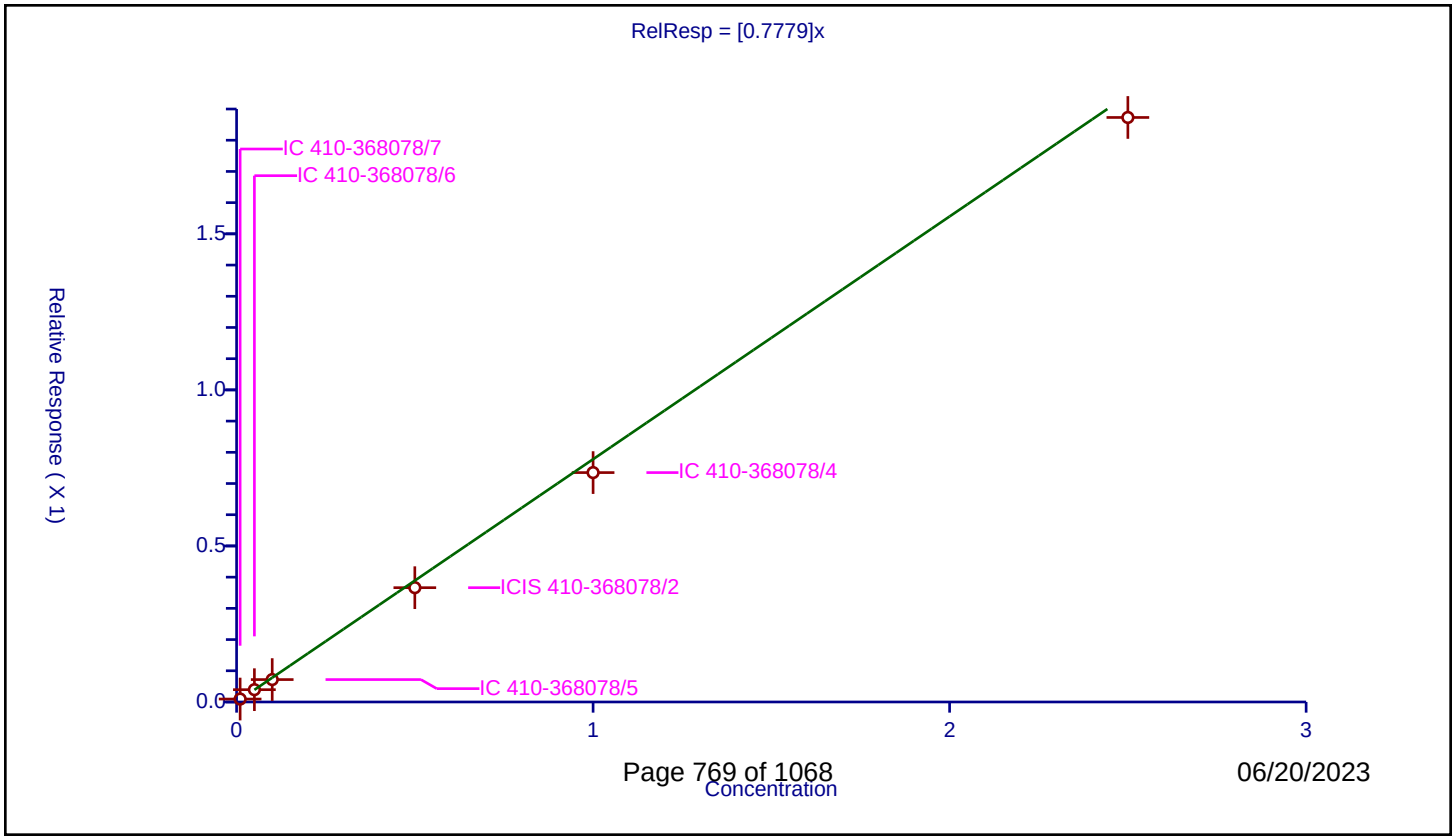
Curve Coefficients

Intercept:	0
Slope:	0.7779

Error Coefficients

Standard Error:	683000
Relative Standard Error:	10.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.009434	0.25	174314.0	0.943412	Y
2	IC 410-368078/6	0.05	0.039451	0.25	171870.0	0.789027	Y
3	IC 410-368078/5	0.1	0.071792	0.25	168814.0	0.71792	Y
4	ICIS 410-368078/2	0.5	0.366299	0.25	179639.0	0.732597	Y
5	IC 410-368078/4	1.0	0.735083	0.25	174695.0	0.735083	Y
6	IC 410-368078/3	2.5	1.872876	0.25	188607.0	0.74915	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

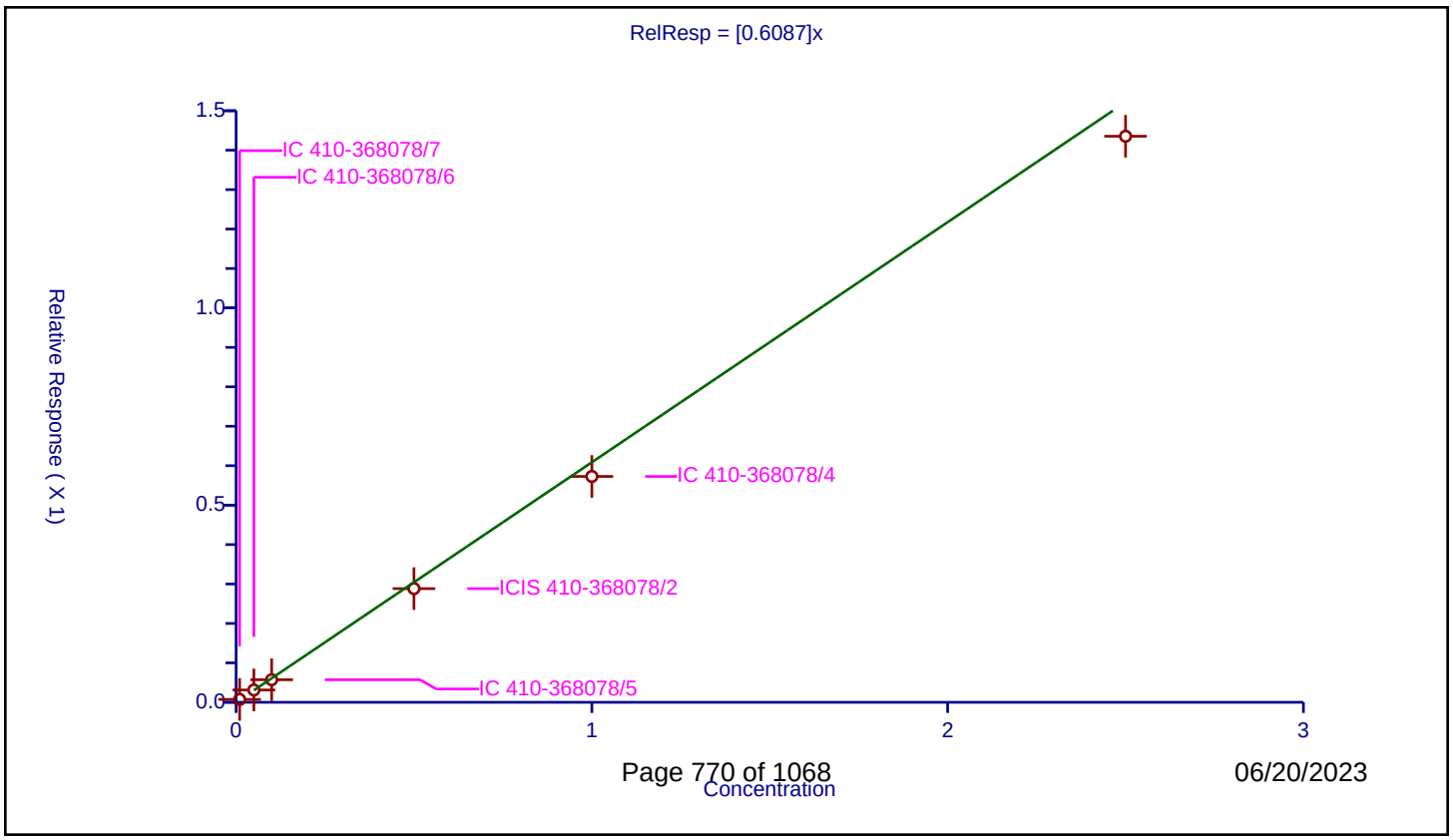
Curve Coefficients

Intercept:	0
Slope:	0.6087

Error Coefficients

Standard Error:	525000
Relative Standard Error:	10.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.007304	0.25	174314.0	0.730435	Y
2	IC 410-368078/6	0.05	0.031282	0.25	171870.0	0.625647	Y
3	IC 410-368078/5	0.1	0.057269	0.25	168814.0	0.572687	Y
4	ICIS 410-368078/2	0.5	0.288306	0.25	179639.0	0.576612	Y
5	IC 410-368078/4	1.0	0.572721	0.25	174695.0	0.572721	Y
6	IC 410-368078/3	2.5	1.435403	0.25	188607.0	0.574161	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

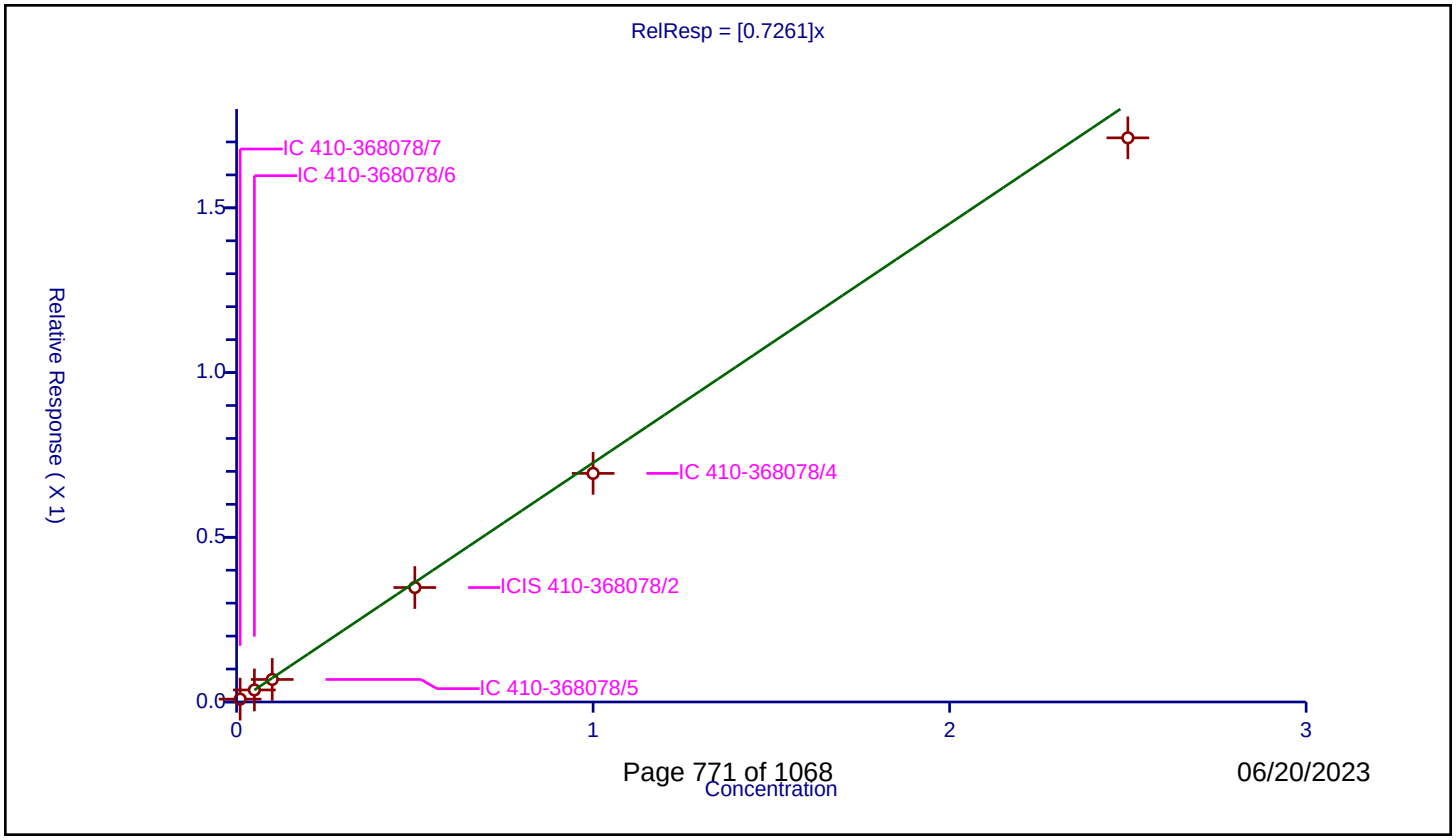
Curve Coefficients

Intercept:	0
Slope:	0.7261

Error Coefficients

Standard Error:	628000
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	IC 410-368078/7	0.01	0.008678	0.25	174314.0	0.86783	Y
2	IC 410-368078/6	0.05	0.036544	0.25	171870.0	0.730872	Y
3	IC 410-368078/5	0.1	0.068379	0.25	168814.0	0.683785	Y
4	ICIS 410-368078/2	0.5	0.347468	0.25	179639.0	0.694935	Y
5	IC 410-368078/4	1.0	0.693892	0.25	174695.0	0.693892	Y
6	IC 410-368078/3	2.5	1.712485	0.25	188607.0	0.684994	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

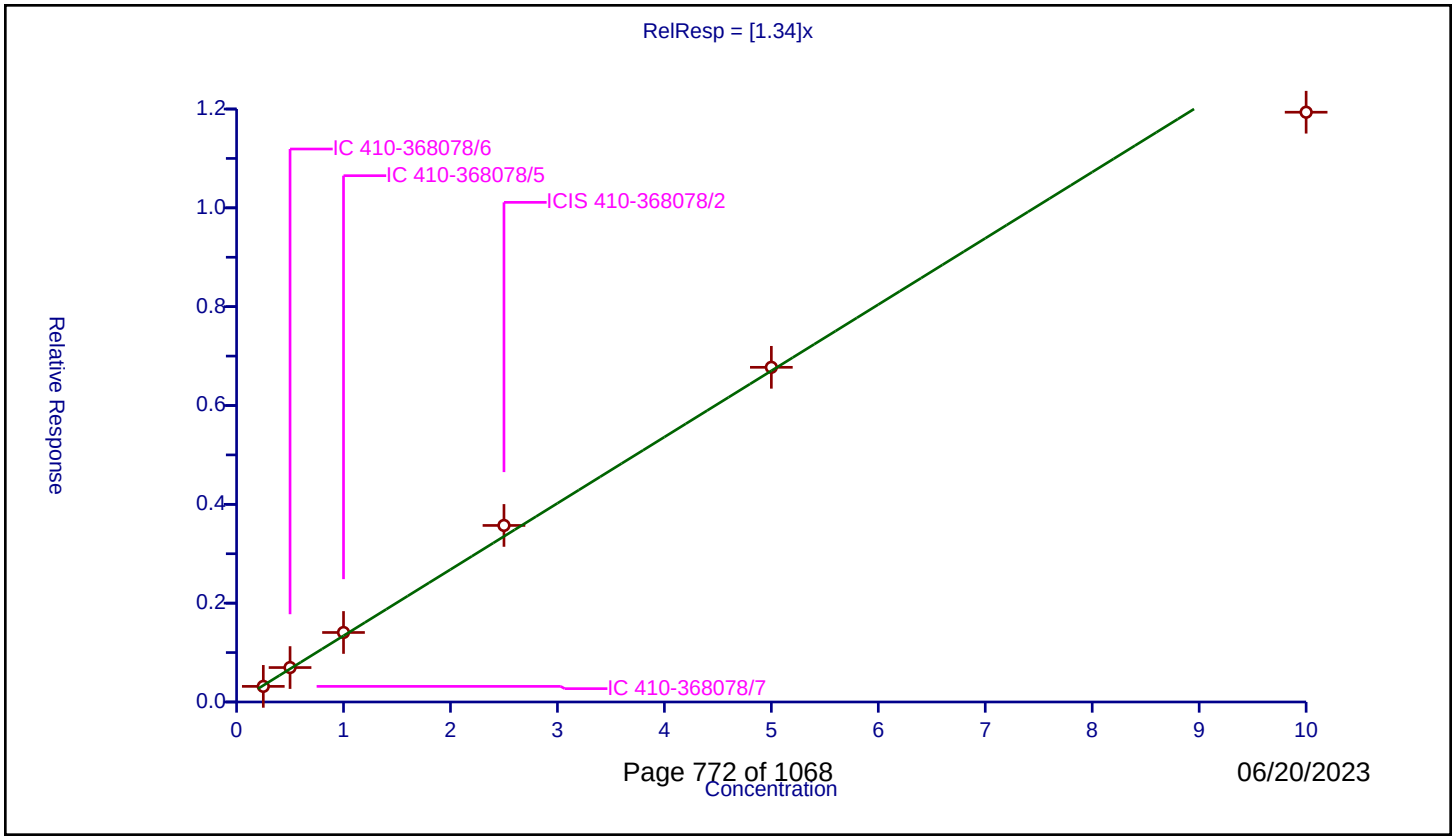
Curve Coefficients

Intercept:	0
Slope:	1.34

Error Coefficients

Standard Error:	2710000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.25	0.31606	0.25	92995.0	1.26424	Y
2	IC 410-368078/6	0.5	0.697201	0.25	96655.0	1.394403	Y
3	IC 410-368078/5	1.0	1.406703	0.25	95421.0	1.406703	Y
4	ICIS 410-368078/2	2.5	3.57288	0.25	99410.0	1.429152	Y
5	IC 410-368078/4	5.0	6.773093	0.25	99262.0	1.354619	Y
6	IC 410-368078/3	10.0	11.935445	0.25	108884.0	1.193545	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

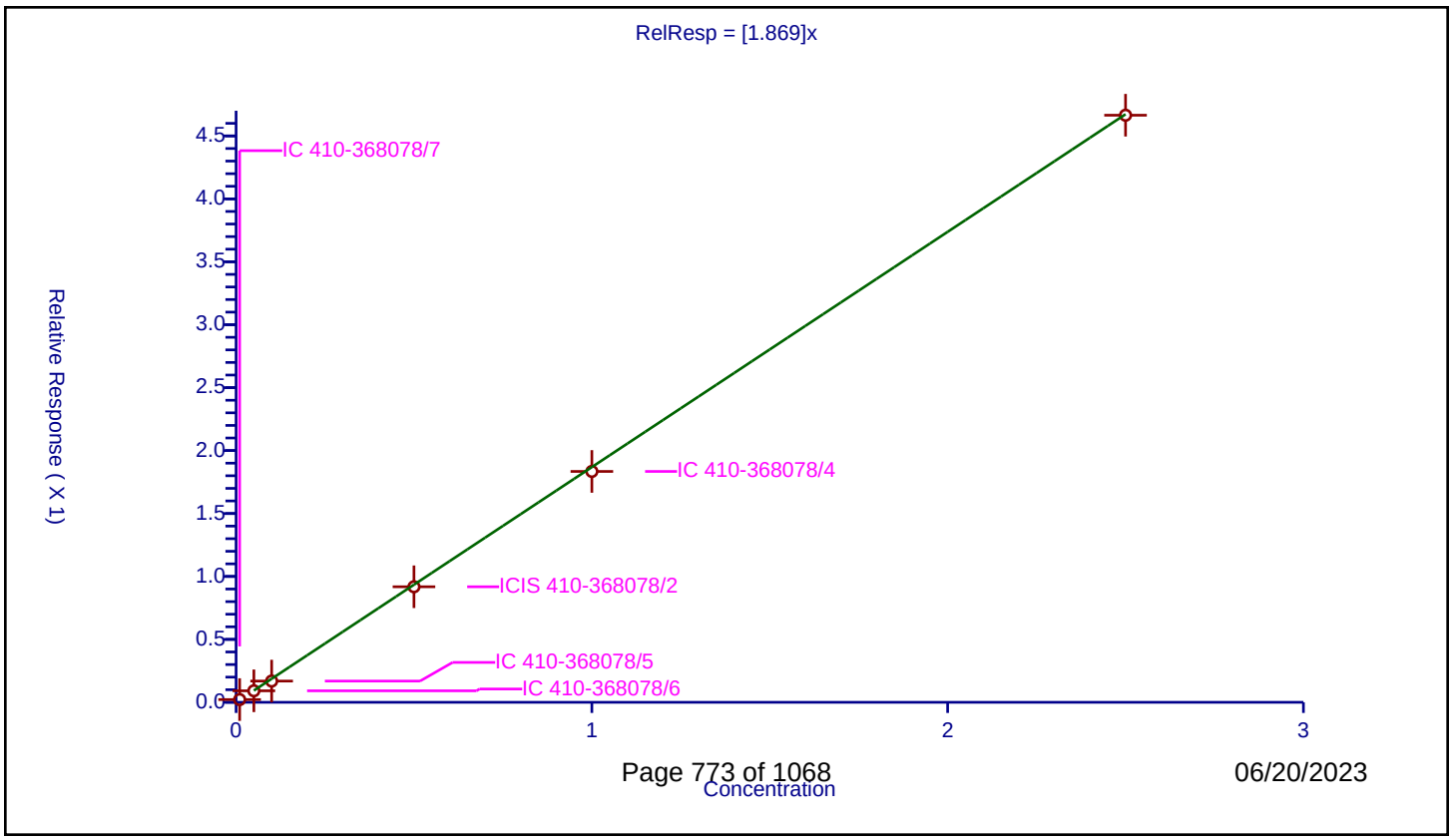
Curve Coefficients

Intercept:	0
Slope:	1.869

Error Coefficients

Standard Error:	979000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.021611	0.25	92995.0	2.161138	Y
2	IC 410-368078/6	0.05	0.09141	0.25	96655.0	1.828203	Y
3	IC 410-368078/5	0.1	0.168789	0.25	95421.0	1.687888	Y
4	ICIS 410-368078/2	0.5	0.918024	0.25	99410.0	1.836048	Y
5	IC 410-368078/4	1.0	1.83434	0.25	99262.0	1.83434	Y
6	IC 410-368078/3	2.5	4.664441	0.25	108884.0	1.865776	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

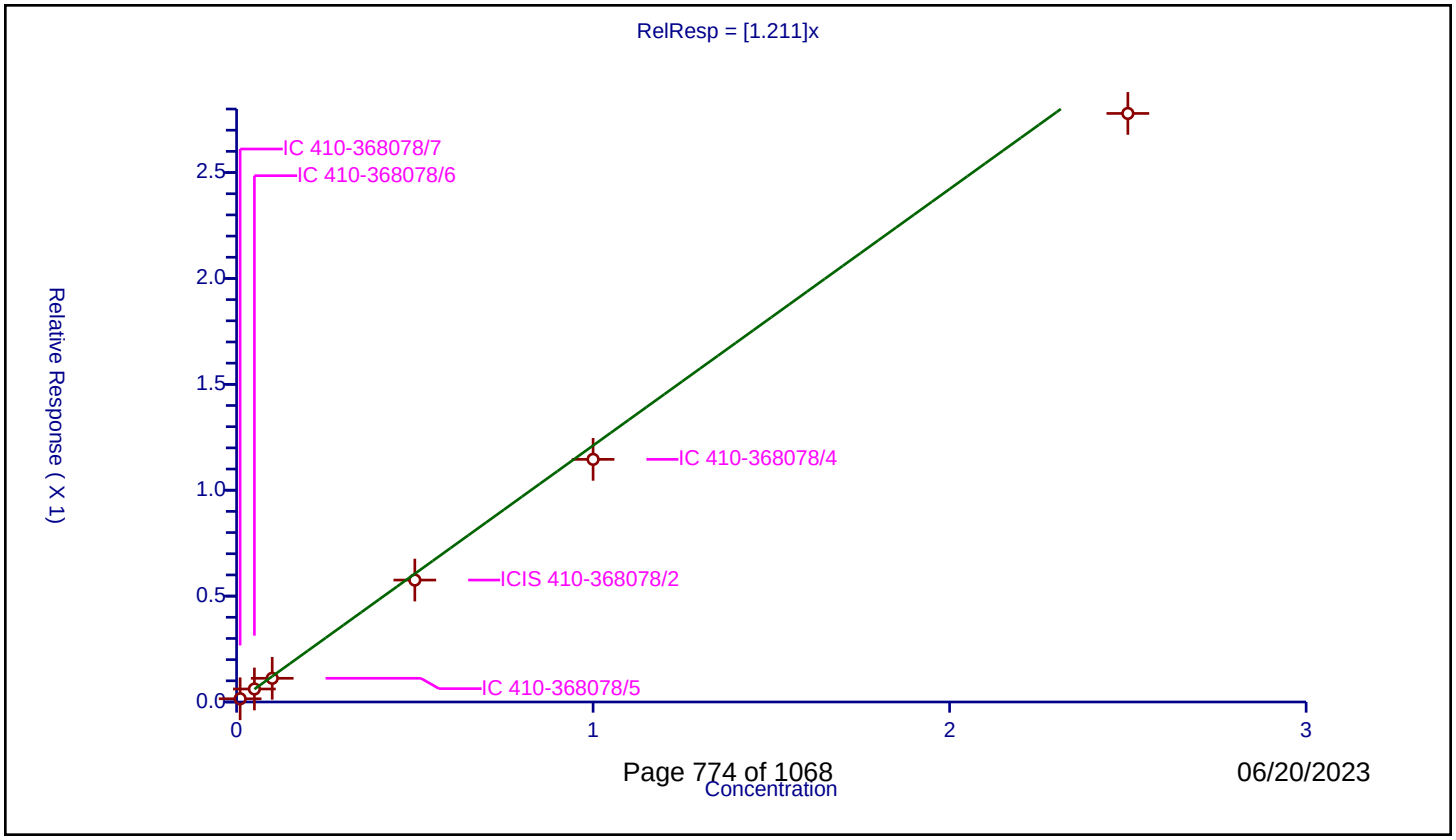
Curve Coefficients

Intercept:	0
Slope:	1.211

Error Coefficients

Standard Error:	588000
Relative Standard Error:	12.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.015124	0.25	92995.0	1.512447	Y
2	IC 410-368078/6	0.05	0.061324	0.25	96655.0	1.226476	Y
3	IC 410-368078/5	0.1	0.111852	0.25	95421.0	1.118517	Y
4	ICIS 410-368078/2	0.5	0.575782	0.25	99410.0	1.151564	Y
5	IC 410-368078/4	1.0	1.14567	0.25	99262.0	1.14567	Y
6	IC 410-368078/3	2.5	2.7791	0.25	108884.0	1.11164	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

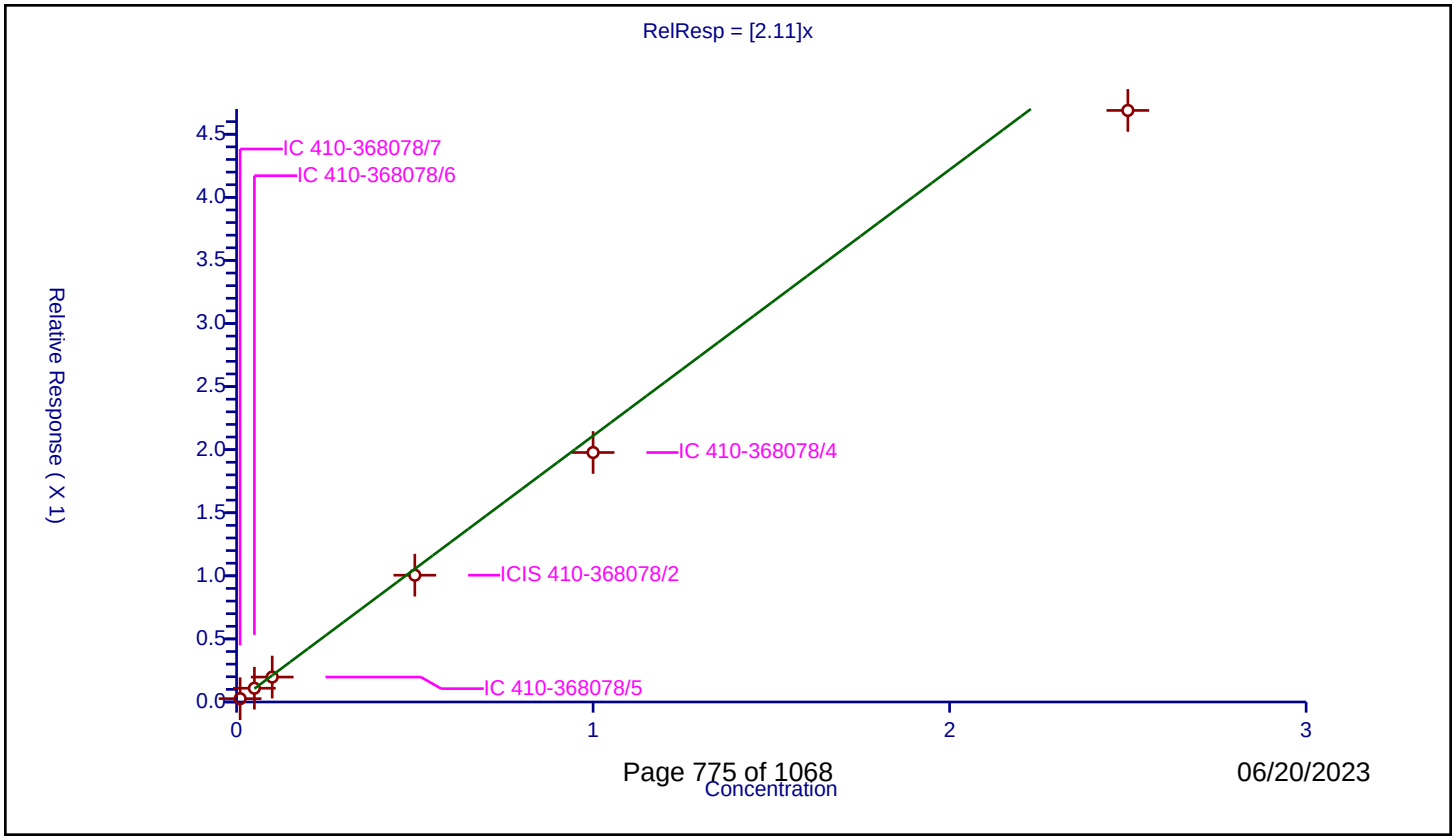
Curve Coefficients

Intercept:	0
Slope:	2.11

Error Coefficients

Standard Error:	995000
Relative Standard Error:	13.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.02634	0.25	92995.0	2.634013	Y
2	IC 410-368078/6	0.05	0.10927	0.25	96655.0	2.185402	Y
3	IC 410-368078/5	0.1	0.197572	0.25	95421.0	1.975718	Y
4	ICIS 410-368078/2	0.5	1.004864	0.25	99410.0	2.009727	Y
5	IC 410-368078/4	1.0	1.977315	0.25	99262.0	1.977315	Y
6	IC 410-368078/3	2.5	4.688841	0.25	108884.0	1.875536	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

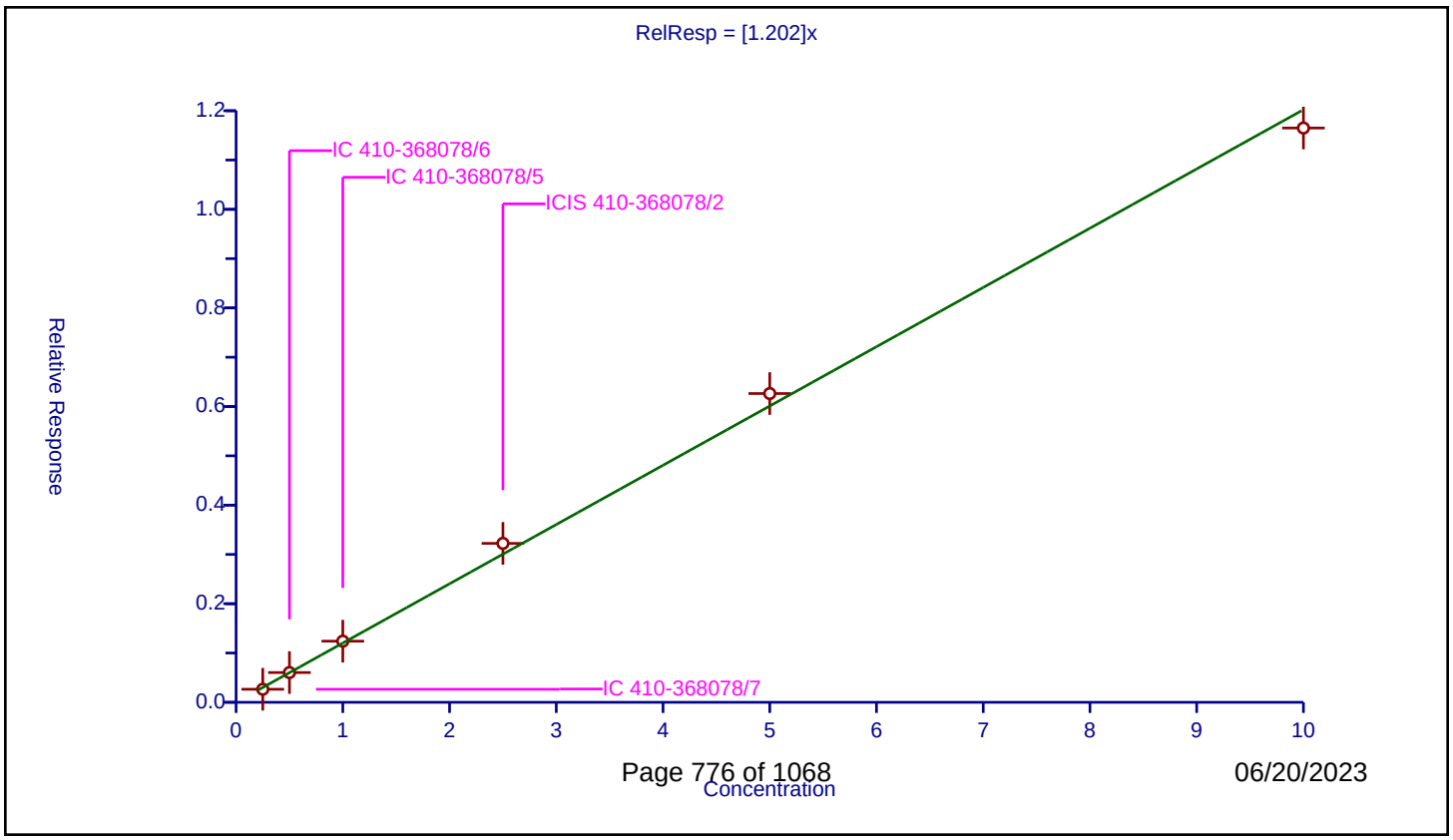
Curve Coefficients

Intercept:	0
Slope:	1.202

Error Coefficients

Standard Error:	2600000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.25	0.264479	0.25	92995.0	1.057917	Y
2	IC 410-368078/6	0.5	0.603745	0.25	96655.0	1.207491	Y
3	IC 410-368078/5	1.0	1.240146	0.25	95421.0	1.240146	Y
4	ICIS 410-368078/2	2.5	3.22412	0.25	99410.0	1.289648	Y
5	IC 410-368078/4	5.0	6.26355	0.25	99262.0	1.25271	Y
6	IC 410-368078/3	10.0	11.649503	0.25	108884.0	1.16495	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

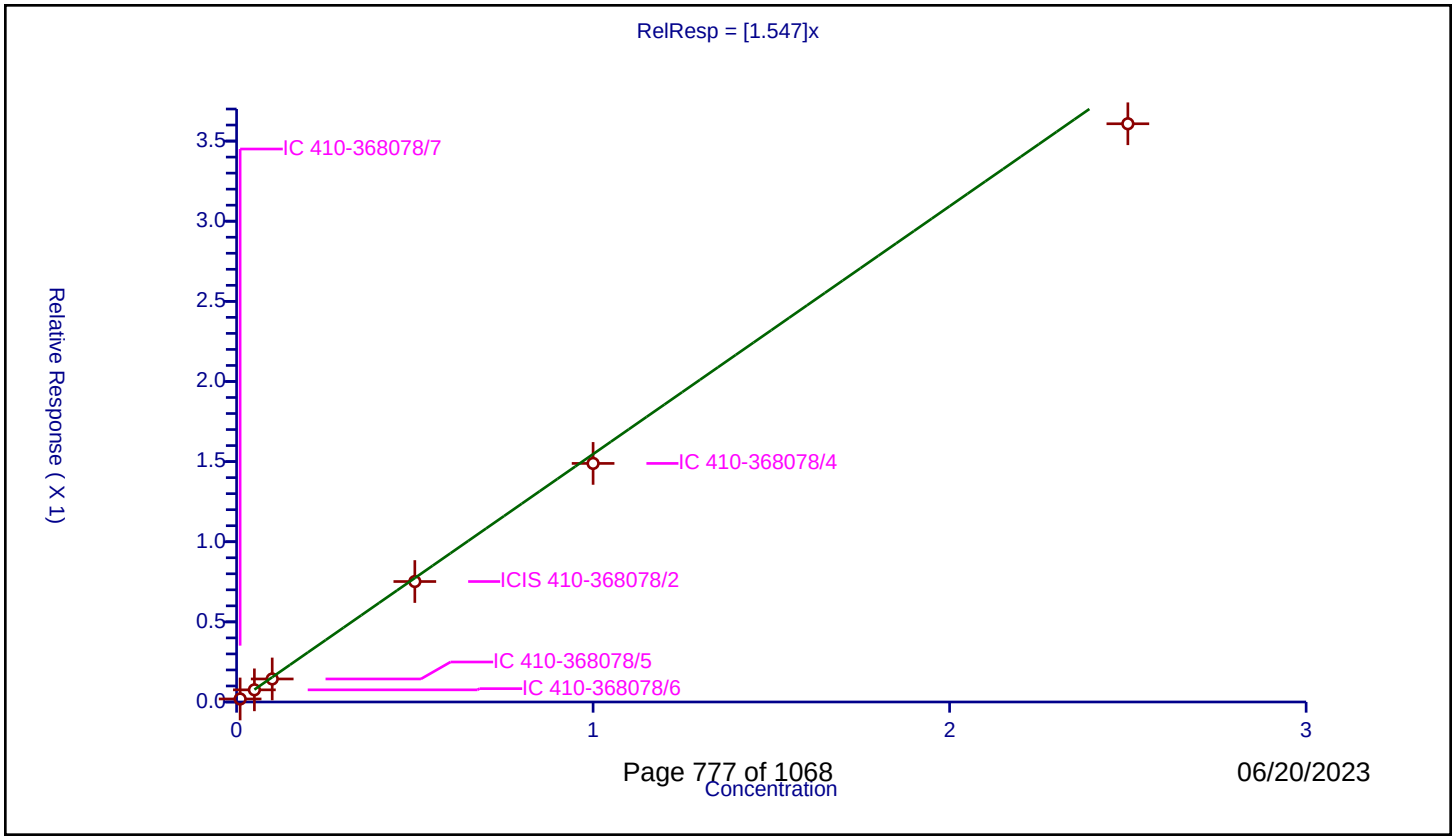
Curve Coefficients

Intercept:	0
Slope:	1.547

Error Coefficients

Standard Error:	763000
Relative Standard Error:	11.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.018918	0.25	92995.0	1.891768	Y
2	IC 410-368078/6	0.05	0.075826	0.25	96655.0	1.516528	Y
3	IC 410-368078/5	0.1	0.143708	0.25	95421.0	1.437079	Y
4	ICIS 410-368078/2	0.5	0.751607	0.25	99410.0	1.503214	Y
5	IC 410-368078/4	1.0	1.488687	0.25	99262.0	1.488687	Y
6	IC 410-368078/3	2.5	3.608055	0.25	108884.0	1.443222	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

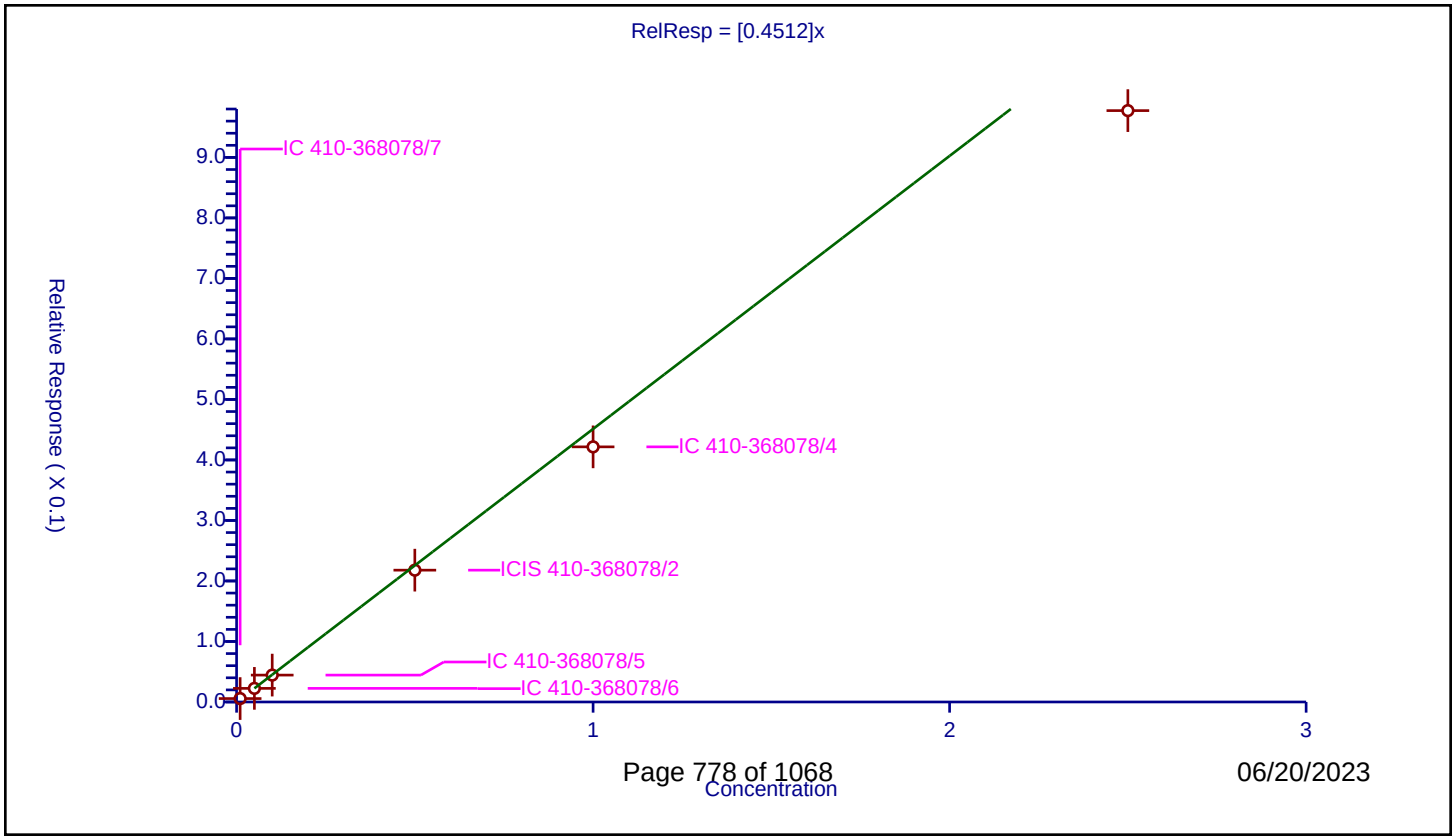
Curve Coefficients

Intercept:	0
Slope:	0.4512

Error Coefficients

Standard Error:	406000
Relative Standard Error:	13.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.005649	0.25	175600.0	0.56492	Y
2	IC 410-368078/6	0.05	0.022491	0.25	180915.0	0.449825	Y
3	IC 410-368078/5	0.1	0.044444	0.25	186160.0	0.444443	Y
4	ICIS 410-368078/2	0.5	0.21787	0.25	191334.0	0.435741	Y
5	IC 410-368078/4	1.0	0.421633	0.25	191606.0	0.421633	Y
6	IC 410-368078/3	2.5	0.97734	0.25	212557.0	0.390936	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

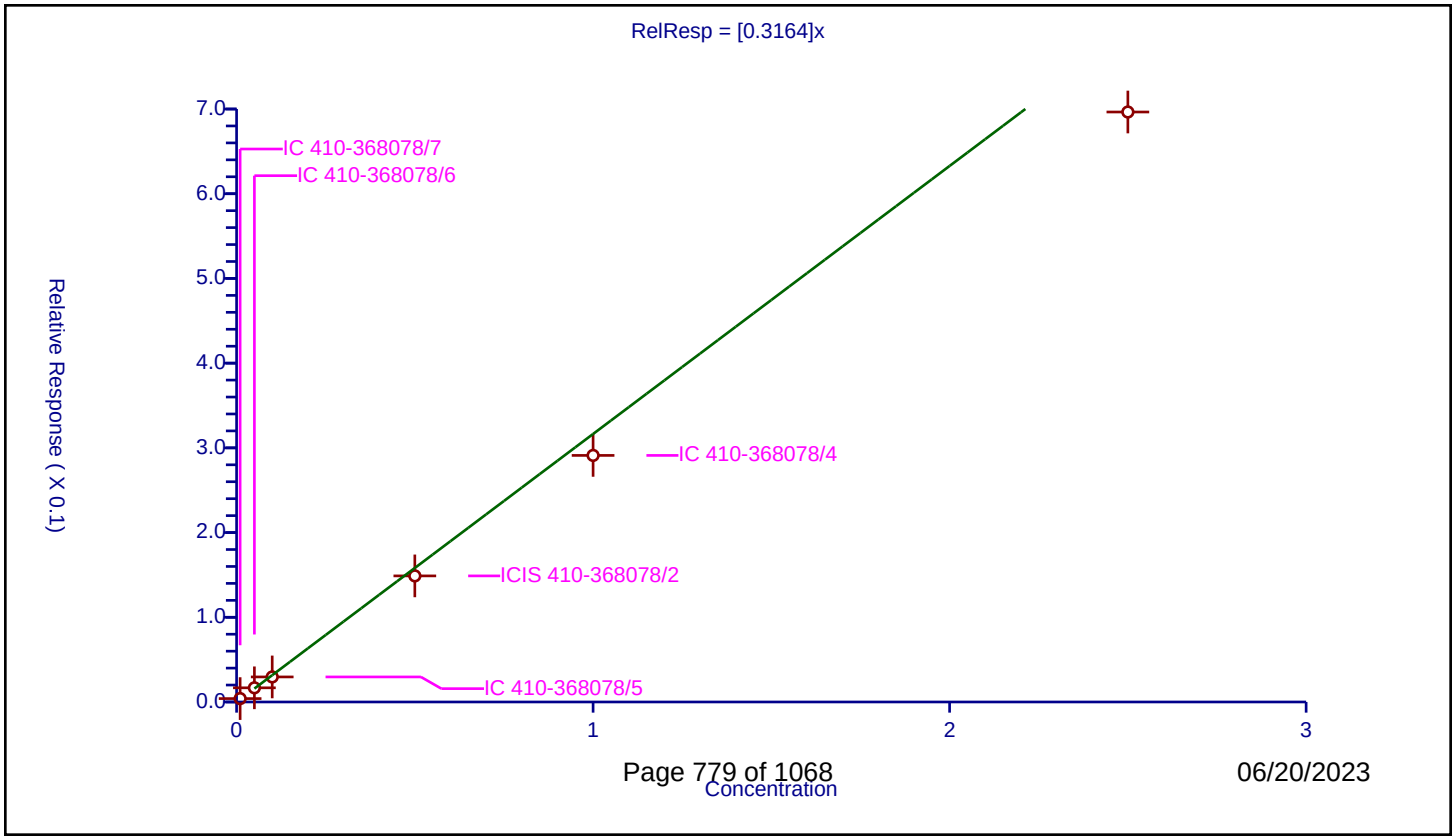
Curve Coefficients

Intercept:	0
Slope:	0.3164

Error Coefficients

Standard Error:	288000
Relative Standard Error:	14.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.004003	0.25	175600.0	0.400342	Y
2	IC 410-368078/6	0.05	0.016745	0.25	180915.0	0.334909	Y
3	IC 410-368078/5	0.1	0.029573	0.25	186160.0	0.295727	Y
4	ICIS 410-368078/2	0.5	0.148855	0.25	191334.0	0.29771	Y
5	IC 410-368078/4	1.0	0.291073	0.25	191606.0	0.291073	Y
6	IC 410-368078/3	2.5	0.69646	0.25	212557.0	0.278584	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

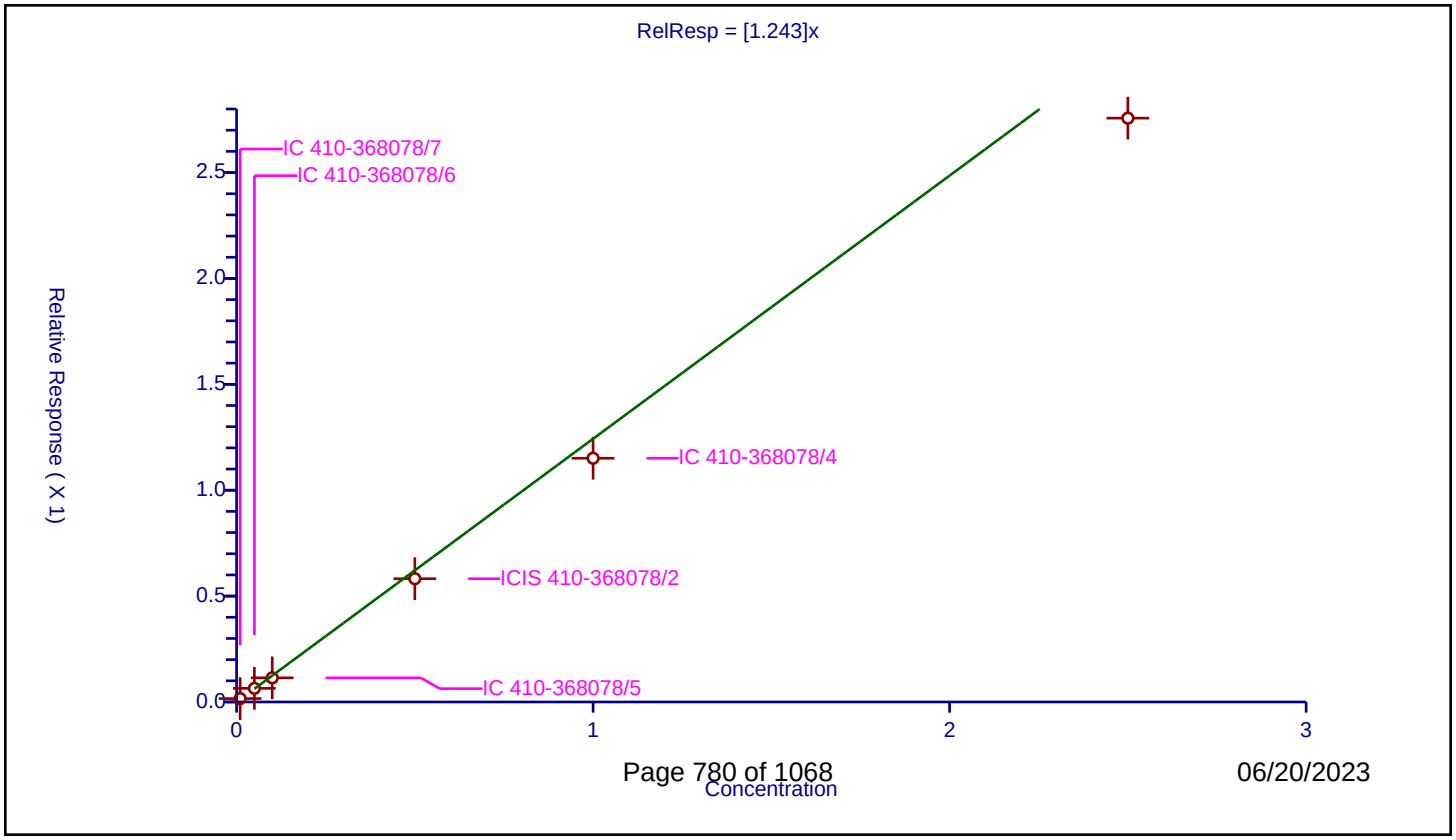
Curve Coefficients

Intercept:	0
Slope:	1.243

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	15.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.016115	0.25	175600.0	1.611475	Y
2	IC 410-368078/6	0.05	0.064358	0.25	180915.0	1.287151	Y
3	IC 410-368078/5	0.1	0.11405	0.25	186160.0	1.140497	Y
4	ICIS 410-368078/2	0.5	0.582018	0.25	191334.0	1.164035	Y
5	IC 410-368078/4	1.0	1.150944	0.25	191606.0	1.150944	Y
6	IC 410-368078/3	2.5	2.756962	0.25	212557.0	1.102785	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

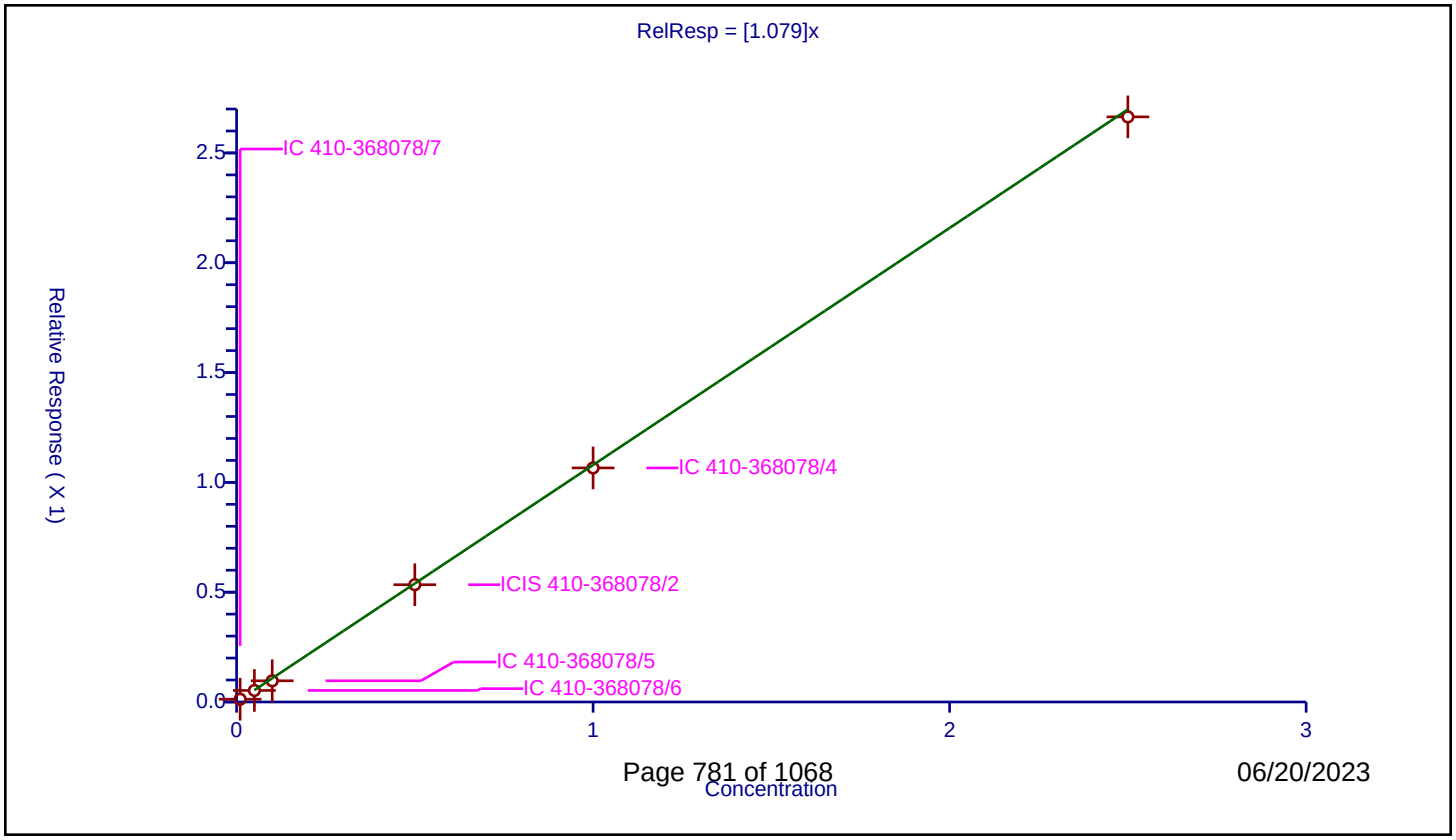
Curve Coefficients

Intercept:	0
Slope:	1.079

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	9.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.01261	0.25	175600.0	1.260962	Y
2	IC 410-368078/6	0.05	0.052496	0.25	180915.0	1.049913	Y
3	IC 410-368078/5	0.1	0.096482	0.25	186160.0	0.964815	Y
4	ICIS 410-368078/2	0.5	0.533913	0.25	191334.0	1.067826	Y
5	IC 410-368078/4	1.0	1.065746	0.25	191606.0	1.065746	Y
6	IC 410-368078/3	2.5	2.664122	0.25	212557.0	1.065649	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

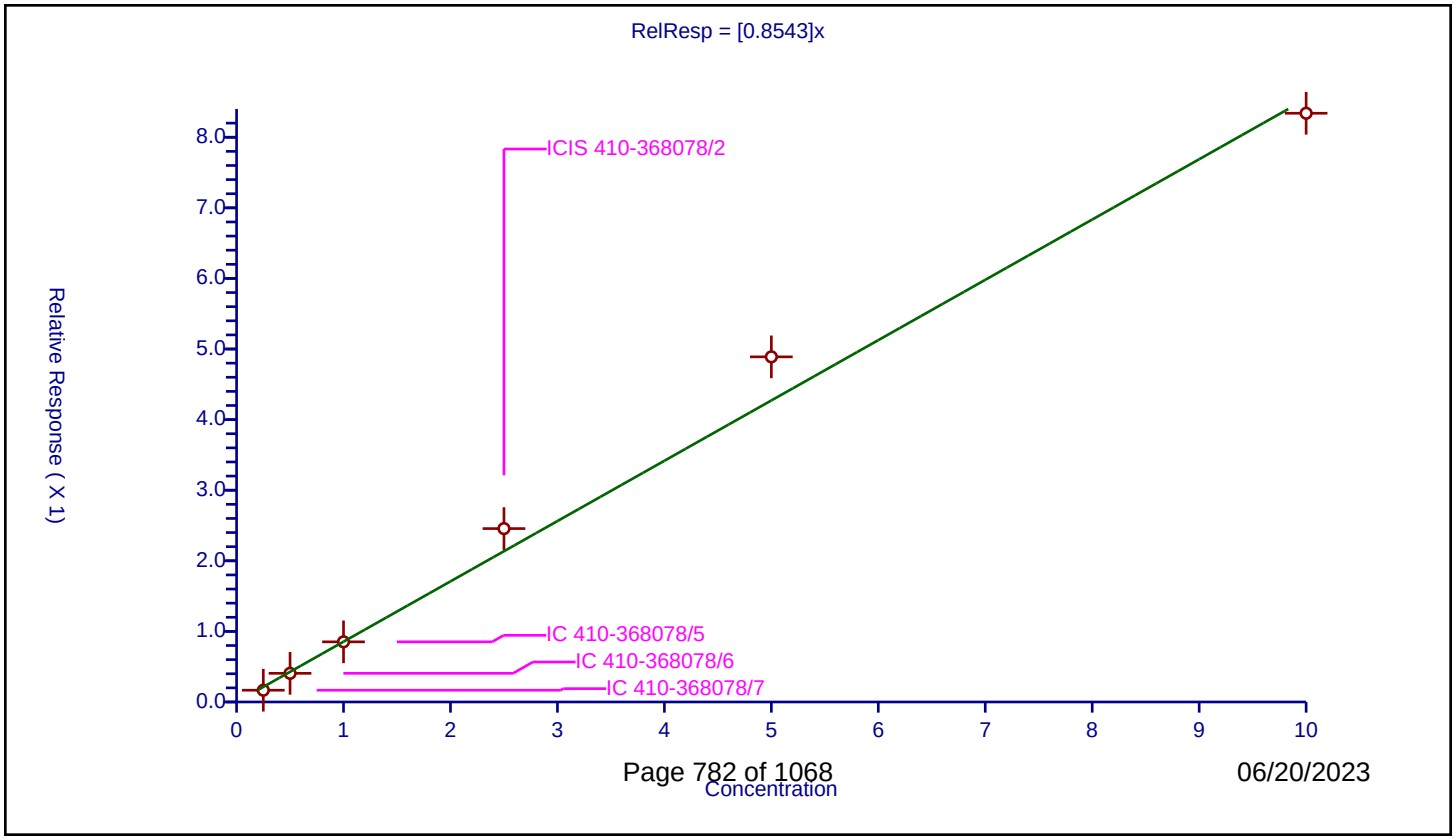
Curve Coefficients

Intercept:	0
Slope:	0.8543

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	13.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.25	0.166828	0.25	175600.0	0.667312	Y
2	IC 410-368078/6	0.5	0.405899	0.25	180915.0	0.811798	Y
3	IC 410-368078/5	1.0	0.852151	0.25	186160.0	0.852151	Y
4	ICIS 410-368078/2	2.5	2.456551	0.25	191334.0	0.98262	Y
5	IC 410-368078/4	5.0	4.888966	0.25	191606.0	0.977793	Y
6	IC 410-368078/3	10.0	8.339848	0.25	212557.0	0.833985	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

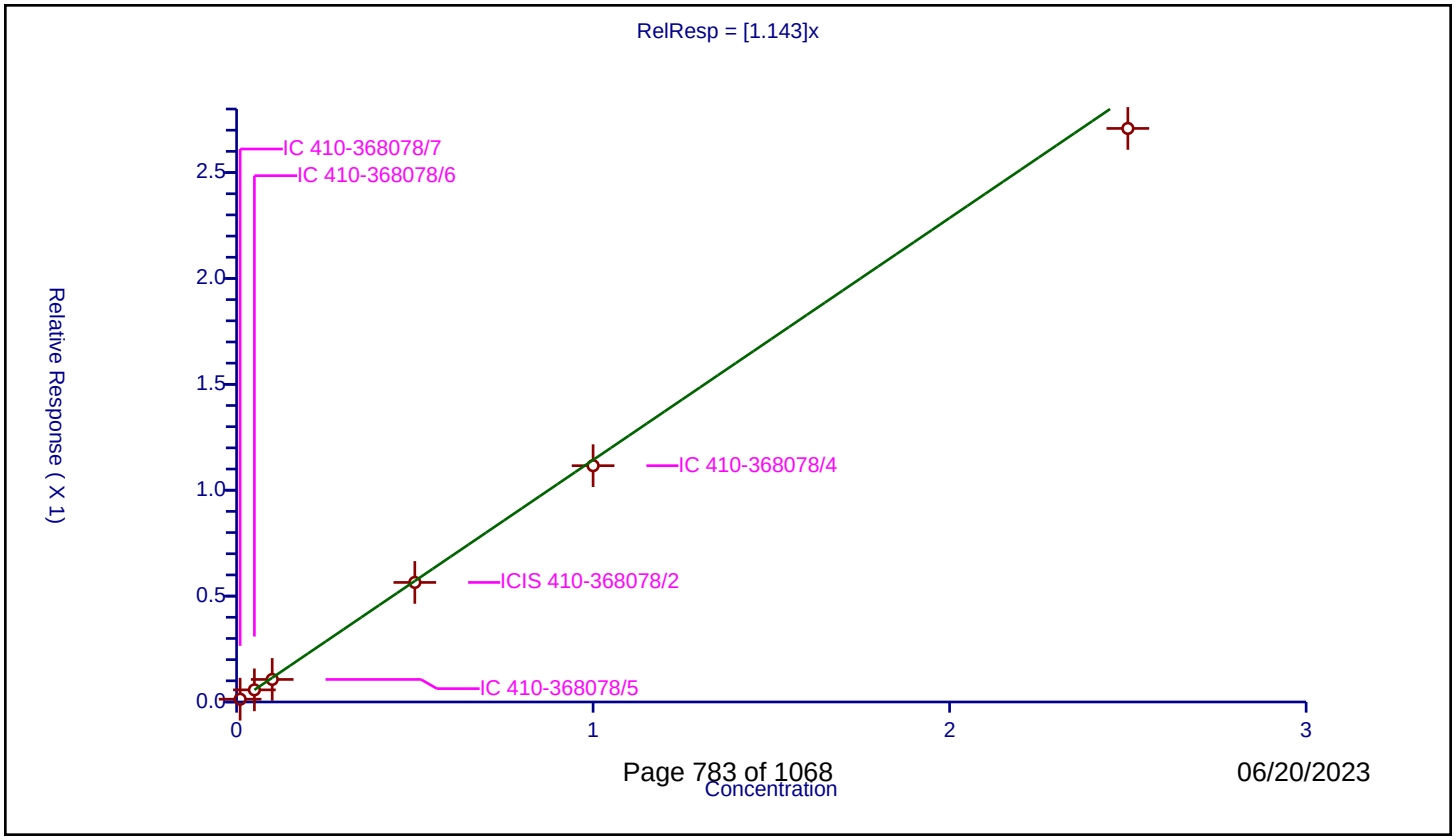
Curve Coefficients

Intercept:	0
Slope:	1.143

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.01319	0.25	175600.0	1.319049	Y
2	IC 410-368078/6	0.05	0.057211	0.25	180915.0	1.144211	Y
3	IC 410-368078/5	0.1	0.106488	0.25	186160.0	1.064877	Y
4	ICIS 410-368078/2	0.5	0.564565	0.25	191334.0	1.12913	Y
5	IC 410-368078/4	1.0	1.115804	0.25	191606.0	1.115804	Y
6	IC 410-368078/3	2.5	2.708301	0.25	212557.0	1.08332	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

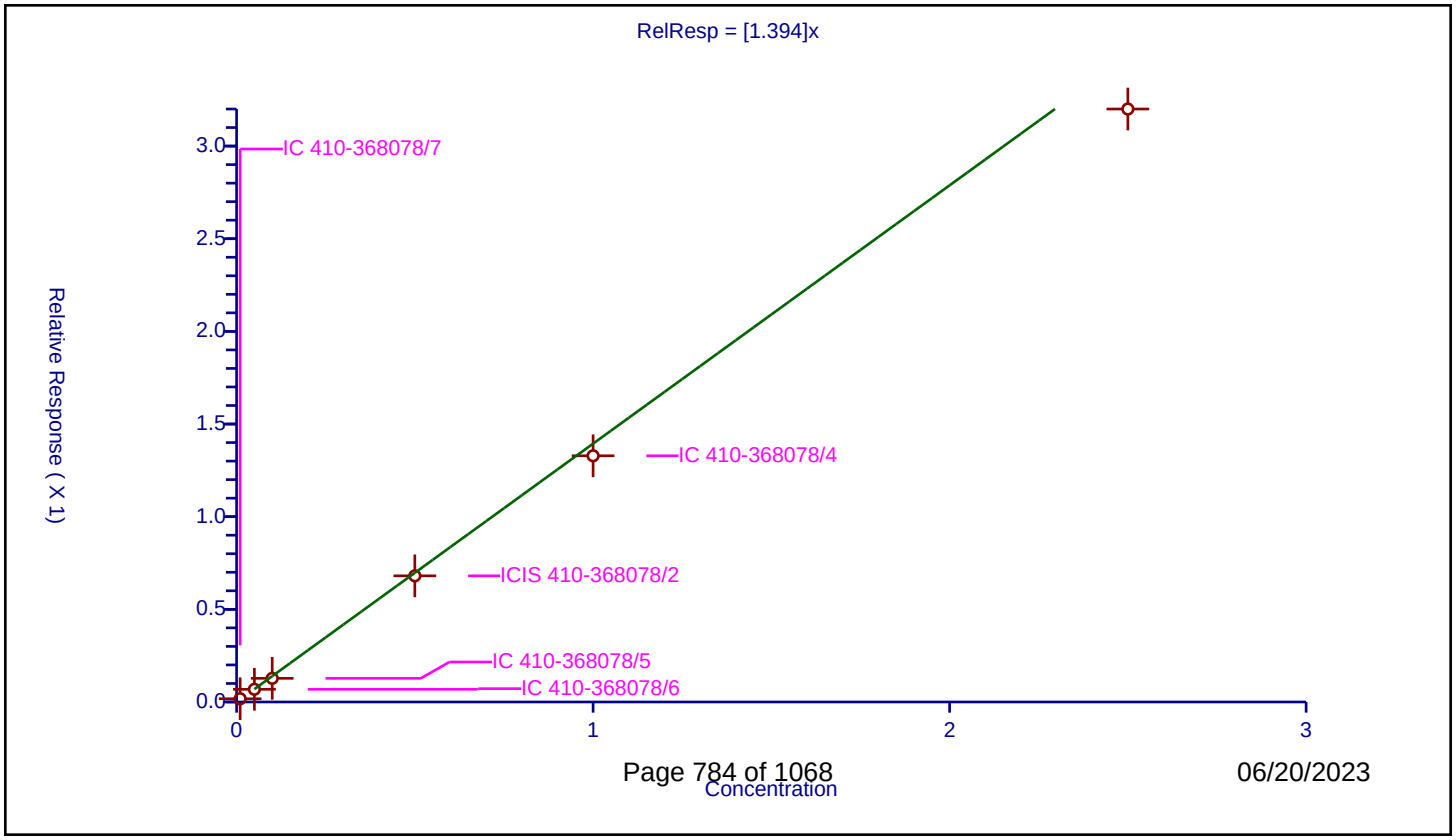
Curve Coefficients

Intercept:	0
Slope:	1.394

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	12.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.017473	0.25	175600.0	1.747295	Y
2	IC 410-368078/6	0.05	0.068478	0.25	180915.0	1.369566	Y
3	IC 410-368078/5	0.1	0.127715	0.25	186160.0	1.277154	Y
4	ICIS 410-368078/2	0.5	0.68079	0.25	191334.0	1.36158	Y
5	IC 410-368078/4	1.0	1.328656	0.25	191606.0	1.328656	Y
6	IC 410-368078/3	2.5	3.199998	0.25	212557.0	1.279999	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

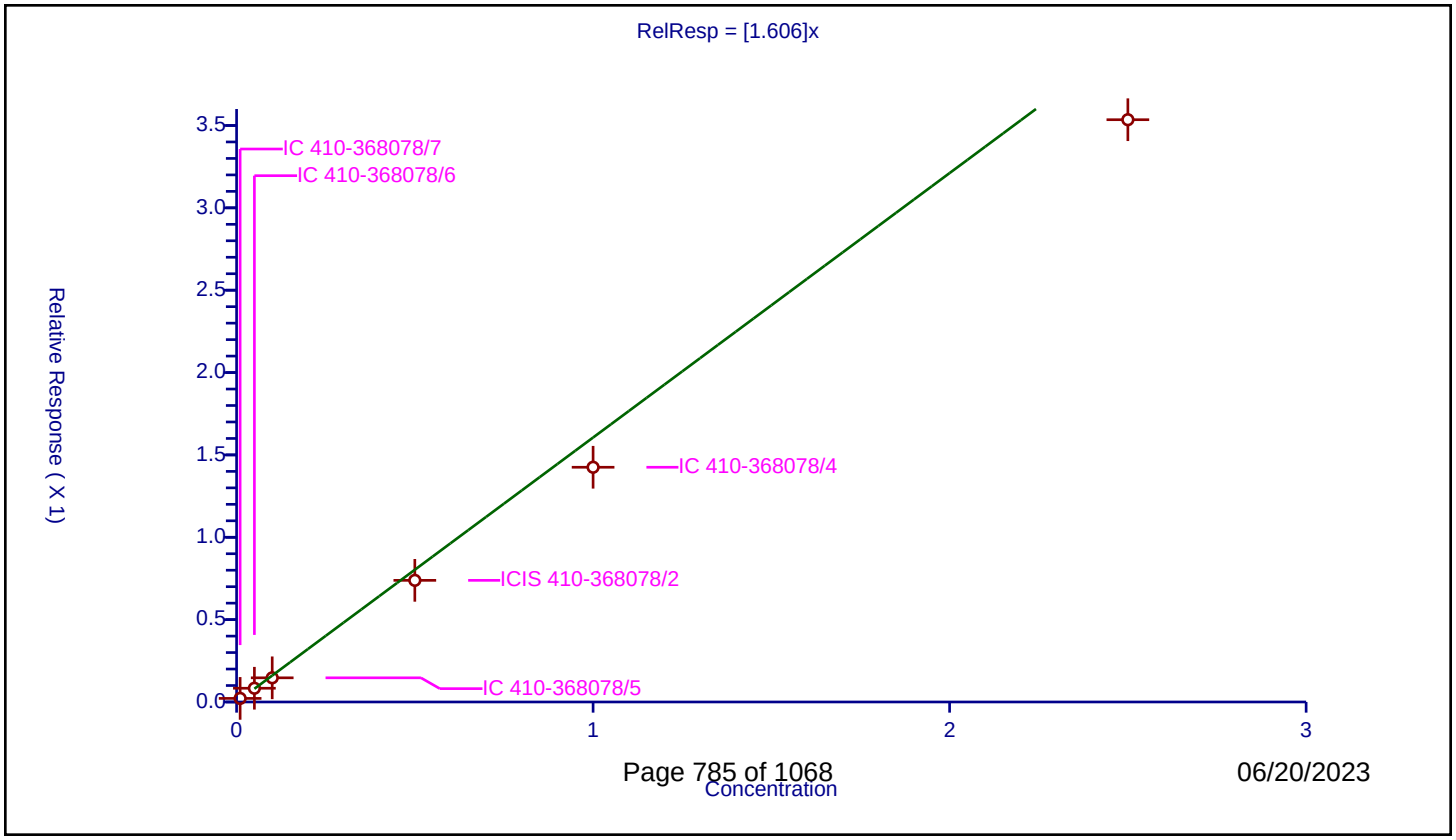
Curve Coefficients

Intercept:	0
Slope:	1.606

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	18.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.951

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.02181	0.25	146988.0	2.18096	Y
2	IC 410-368078/6	0.05	0.08345	0.25	156558.0	1.668998	Y
3	IC 410-368078/5	0.1	0.146713	0.25	168749.0	1.467135	Y
4	ICIS 410-368078/2	0.5	0.738478	0.25	180257.0	1.476955	Y
5	IC 410-368078/4	1.0	1.425124	0.25	186583.0	1.425124	Y
6	IC 410-368078/3	2.5	3.53501	0.25	202625.0	1.414004	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

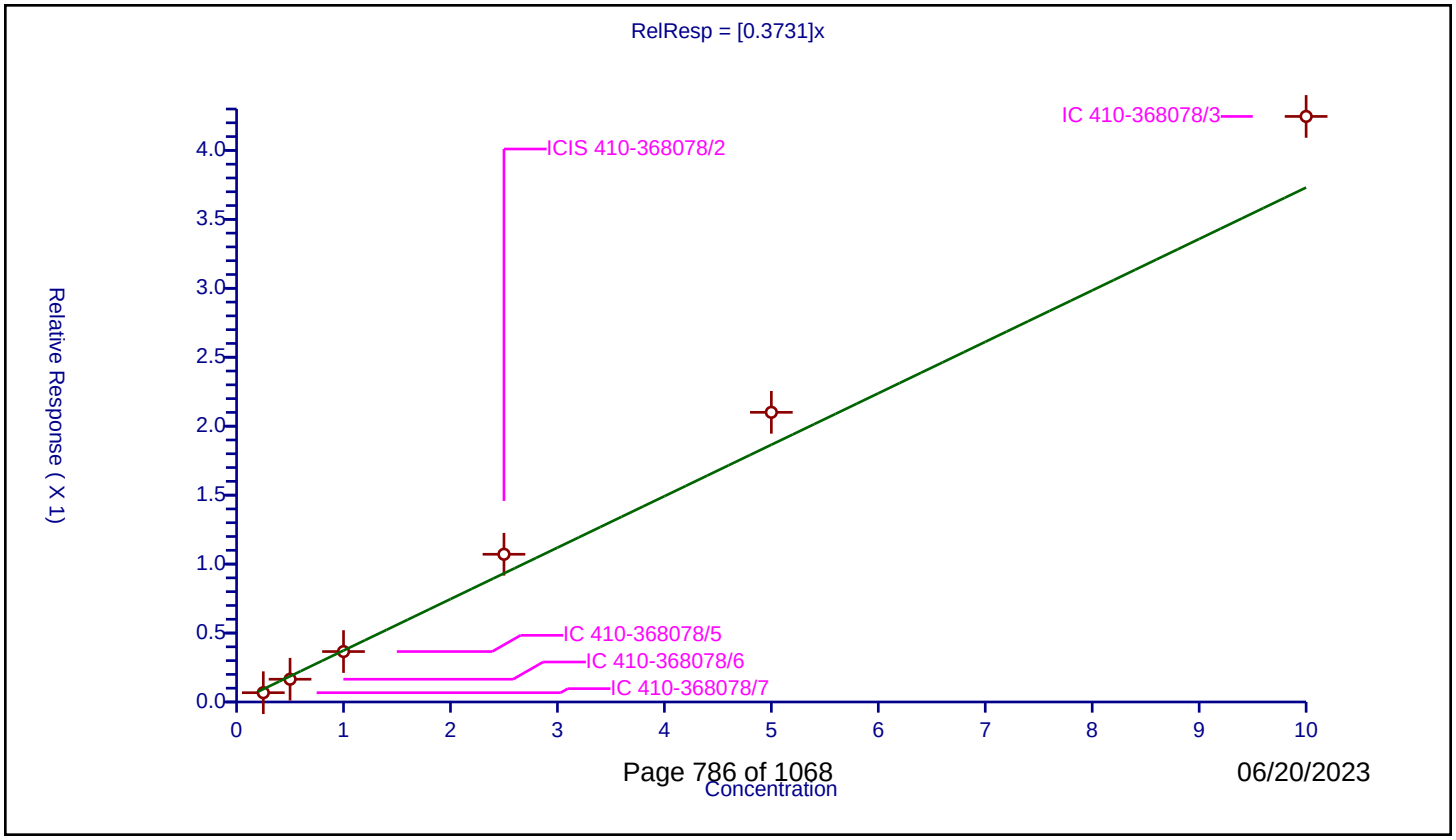
Curve Coefficients

Intercept:	0
Slope:	0.3731

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	17.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.25	0.067352	0.25	146988.0	0.26941	Y
2	IC 410-368078/6	0.5	0.164982	0.25	156558.0	0.329964	Y
3	IC 410-368078/5	1.0	0.365759	0.25	168749.0	0.365759	Y
4	ICIS 410-368078/2	2.5	1.071295	0.25	180257.0	0.428518	Y
5	IC 410-368078/4	5.0	2.100564	0.25	186583.0	0.420113	Y
6	IC 410-368078/3	10.0	4.246317	0.25	202625.0	0.424632	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

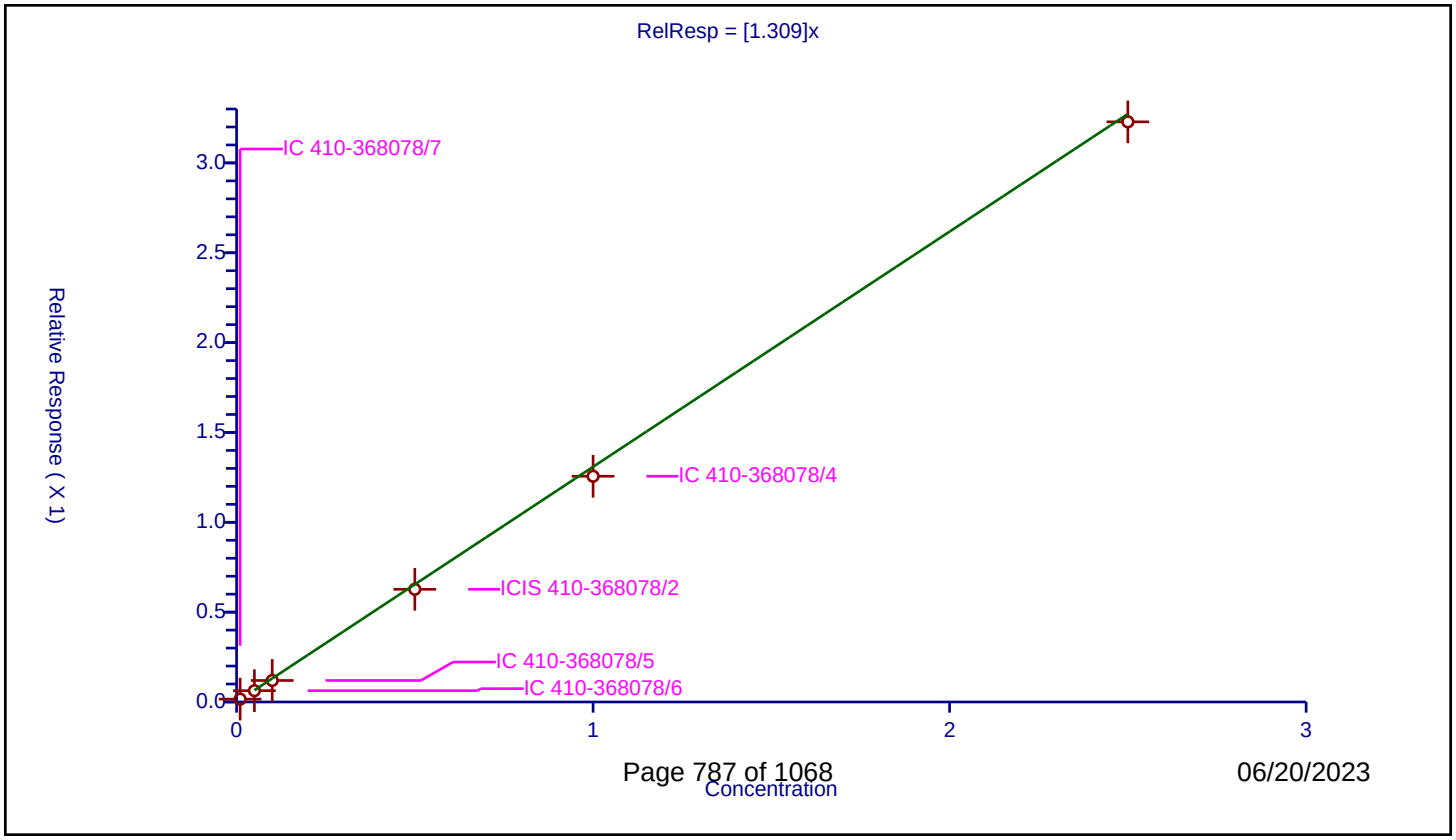
Curve Coefficients

Intercept:	0
Slope:	1.309

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	11.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.015962	0.25	146988.0	1.596219	Y
2	IC 410-368078/6	0.05	0.06294	0.25	156558.0	1.258799	Y
3	IC 410-368078/5	0.1	0.119629	0.25	168749.0	1.196289	Y
4	ICIS 410-368078/2	0.5	0.627134	0.25	180257.0	1.254268	Y
5	IC 410-368078/4	1.0	1.25626	0.25	186583.0	1.25626	Y
6	IC 410-368078/3	2.5	3.228682	0.25	202625.0	1.291473	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

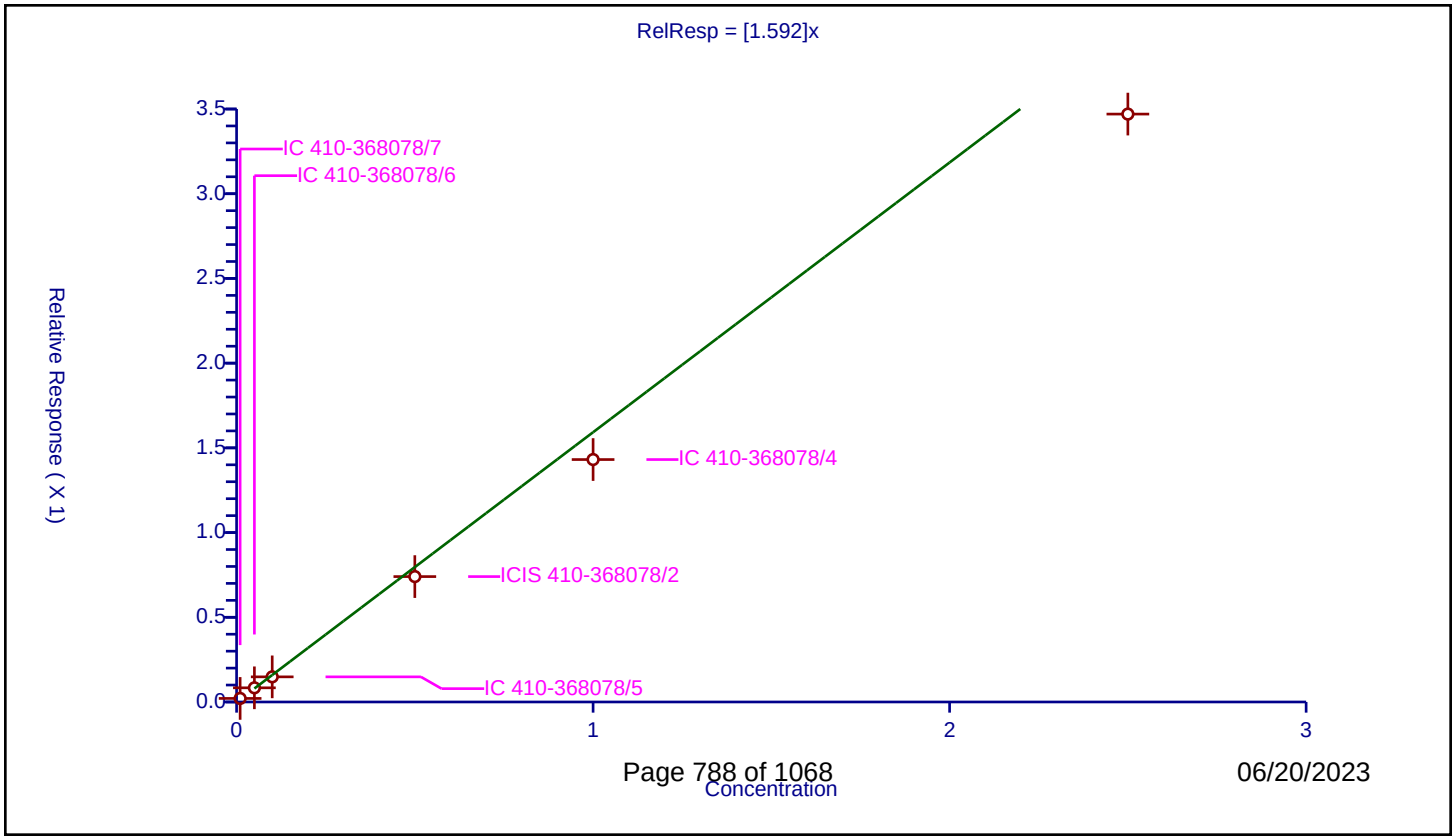
Curve Coefficients

Intercept:	0
Slope:	1.592

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	16.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.020964	0.25	146988.0	2.09643	Y
2	IC 410-368078/6	0.05	0.083646	0.25	156558.0	1.672926	Y
3	IC 410-368078/5	0.1	0.148404	0.25	168749.0	1.484038	Y
4	ICIS 410-368078/2	0.5	0.740177	0.25	180257.0	1.480353	Y
5	IC 410-368078/4	1.0	1.431005	0.25	186583.0	1.431005	Y
6	IC 410-368078/3	2.5	3.470167	0.25	202625.0	1.388067	Y



Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

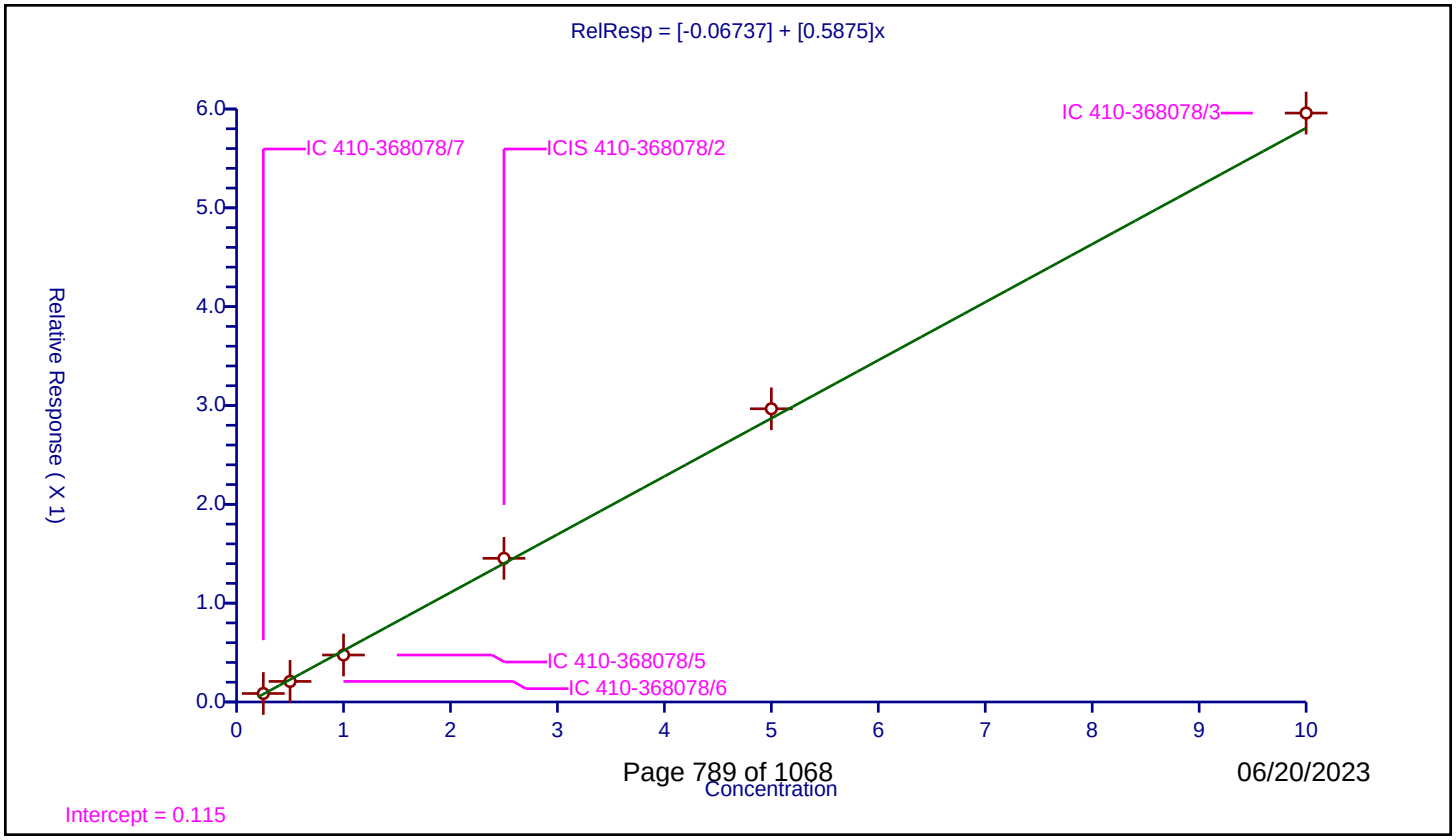
Curve Coefficients

Intercept:	-0.06737
Slope:	0.5875

Error Coefficients

Standard Error:	2710000
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	IC 410-368078/7	0.25	0.086002	0.25	146988.0	0.344008	Y
2	IC 410-368078/6	0.5	0.208223	0.25	156558.0	0.416446	Y
3	IC 410-368078/5	1.0	0.475227	0.25	168749.0	0.475227	Y
4	ICIS 410-368078/2	2.5	1.453663	0.25	180257.0	0.581465	Y
5	IC 410-368078/4	5.0	2.966901	0.25	186583.0	0.59338	Y
6	IC 410-368078/3	10.0	5.958971	0.25	202625.0	0.595897	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

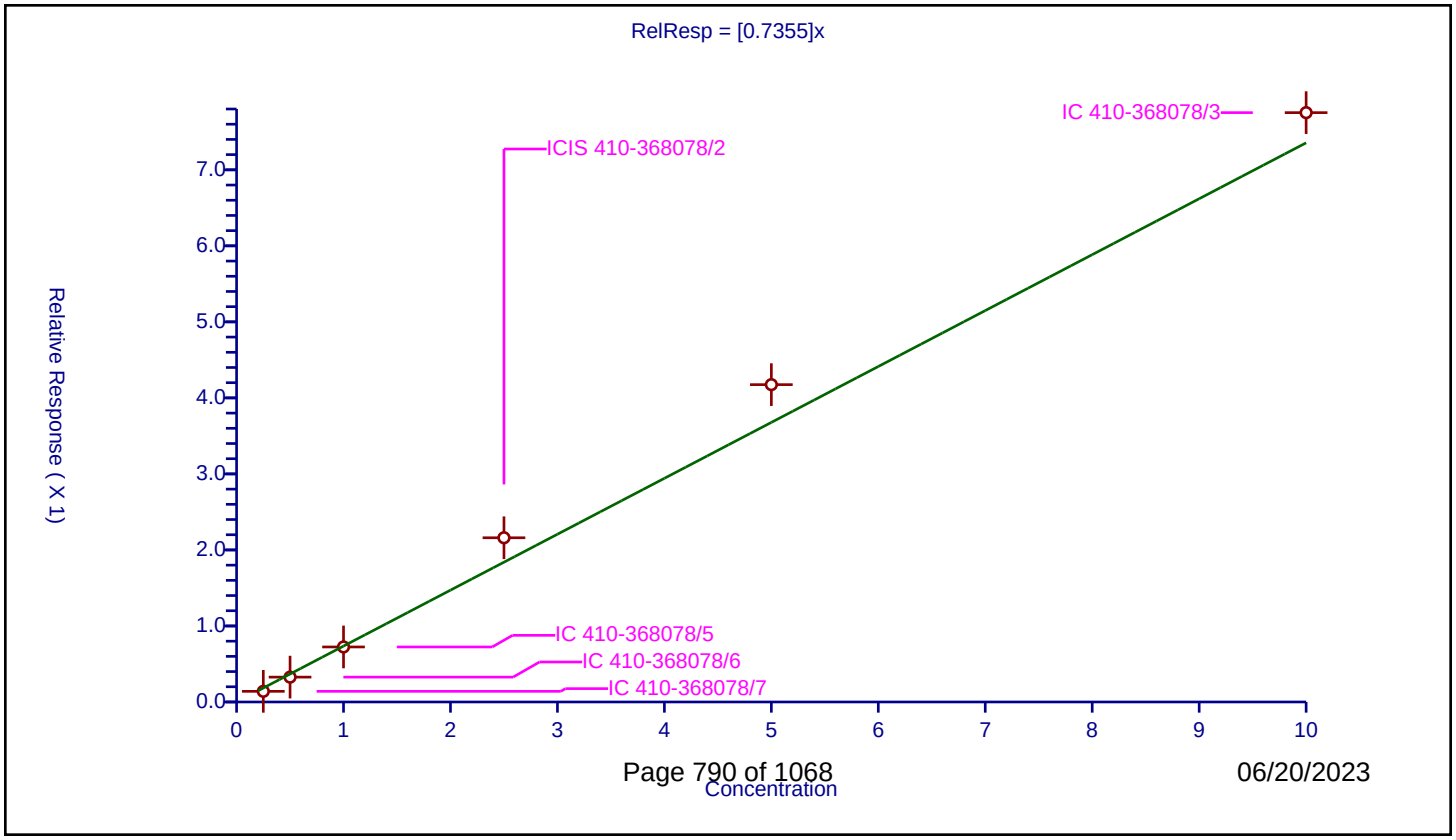
Curve Coefficients

Intercept:	0
Slope:	0.7355

Error Coefficients

Standard Error:	3990000
Relative Standard Error:	15.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.25	0.140216	0.25	133515.0	0.560866	Y
2	IC 410-368078/6	0.5	0.327024	0.25	152076.0	0.654048	Y
3	IC 410-368078/5	1.0	0.723886	0.25	170272.0	0.723886	Y
4	ICIS 410-368078/2	2.5	2.16034	0.25	193506.0	0.864136	Y
5	IC 410-368078/4	5.0	4.174517	0.25	215151.0	0.834903	Y
6	IC 410-368078/3	10.0	7.752208	0.25	257478.0	0.775221	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

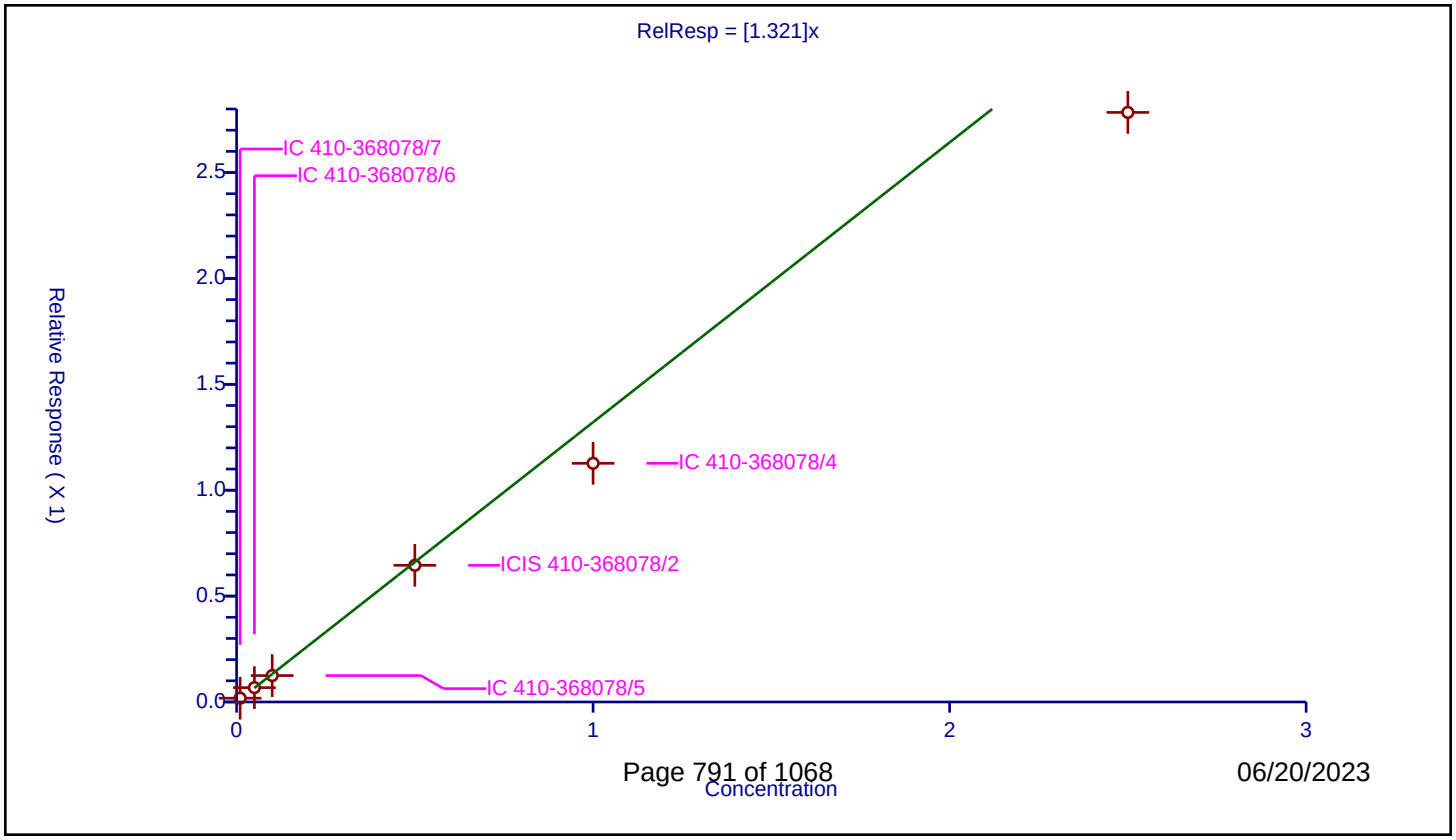
Curve Coefficients

Intercept:	0
Slope:	1.321

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	18.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.017917	0.25	133515.0	1.791746	Y
2	IC 410-368078/6	0.05	0.067807	0.25	152076.0	1.356131	Y
3	IC 410-368078/5	0.1	0.124678	0.25	170272.0	1.246785	Y
4	ICIS 410-368078/2	0.5	0.645452	0.25	193506.0	1.290903	Y
5	IC 410-368078/4	1.0	1.127096	0.25	215151.0	1.127096	Y
6	IC 410-368078/3	2.5	2.784043	0.25	257478.0	1.113617	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

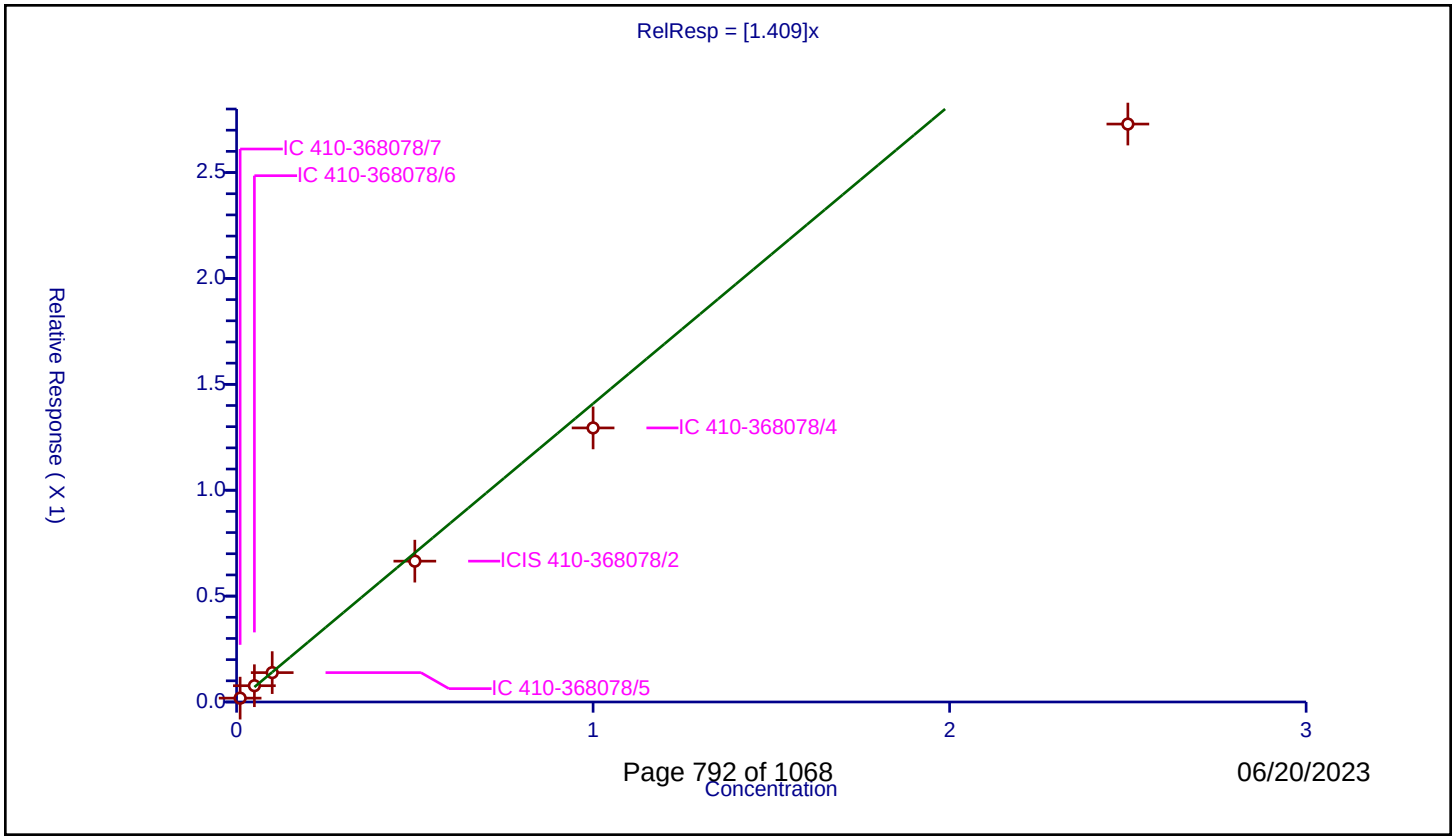
Curve Coefficients

Intercept:	0
Slope:	1.409

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	17.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.958

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.018137	0.25	133515.0	1.813654	Y
2	IC 410-368078/6	0.05	0.076817	0.25	152076.0	1.536337	Y
3	IC 410-368078/5	0.1	0.138752	0.25	170272.0	1.387515	Y
4	ICIS 410-368078/2	0.5	0.66505	0.25	193506.0	1.330101	Y
5	IC 410-368078/4	1.0	1.294109	0.25	215151.0	1.294109	Y
6	IC 410-368078/3	2.5	2.728994	0.25	257478.0	1.091598	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

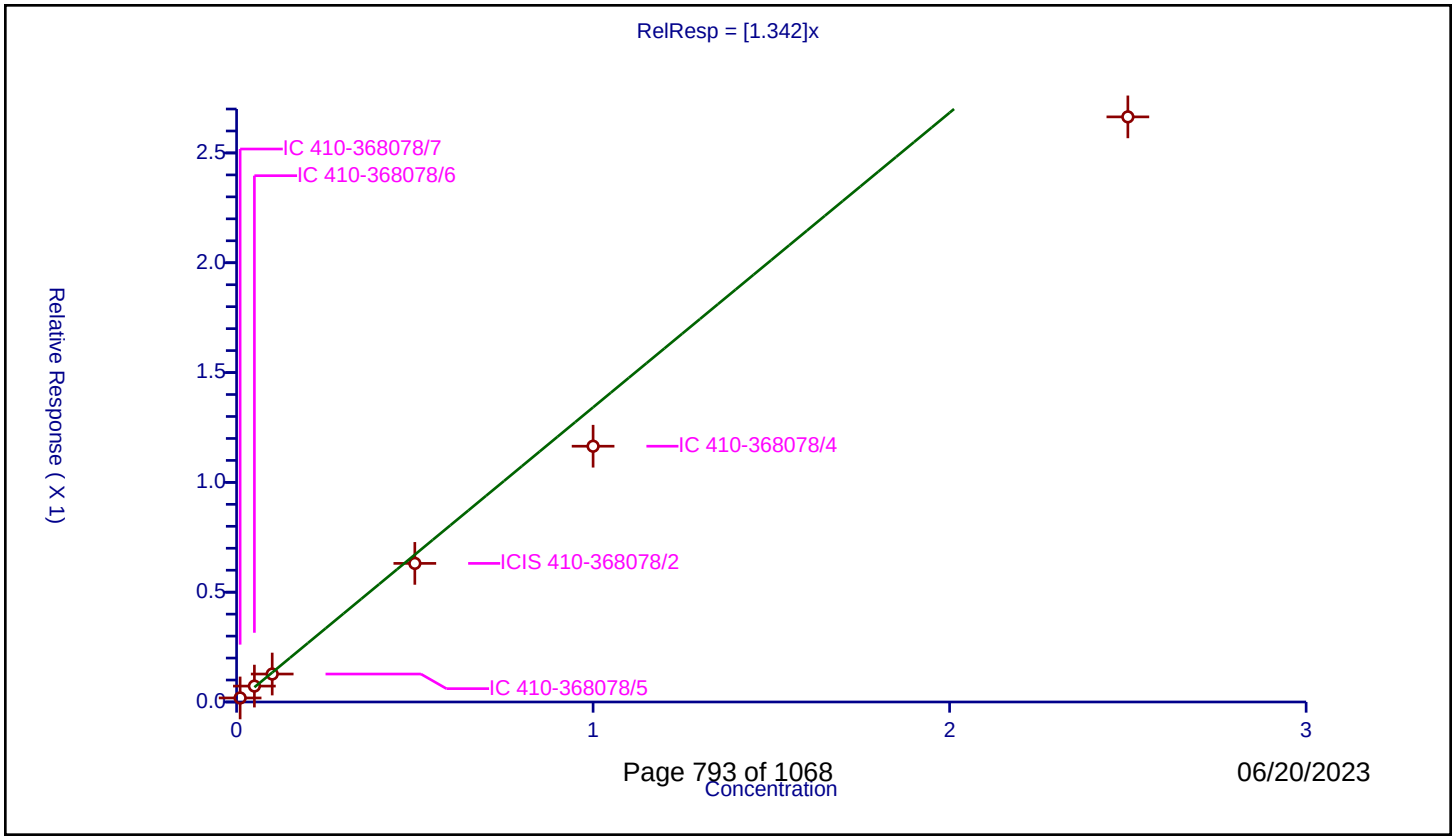
Curve Coefficients

Intercept:	0
Slope:	1.342

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	20.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.939

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.018361	0.25	133515.0	1.836123	Y
2	IC 410-368078/6	0.05	0.072408	0.25	152076.0	1.448158	Y
3	IC 410-368078/5	0.1	0.127282	0.25	170272.0	1.272816	Y
4	ICIS 410-368078/2	0.5	0.631112	0.25	193506.0	1.262224	Y
5	IC 410-368078/4	1.0	1.164652	0.25	215151.0	1.164652	Y
6	IC 410-368078/3	2.5	2.664179	0.25	257478.0	1.065672	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

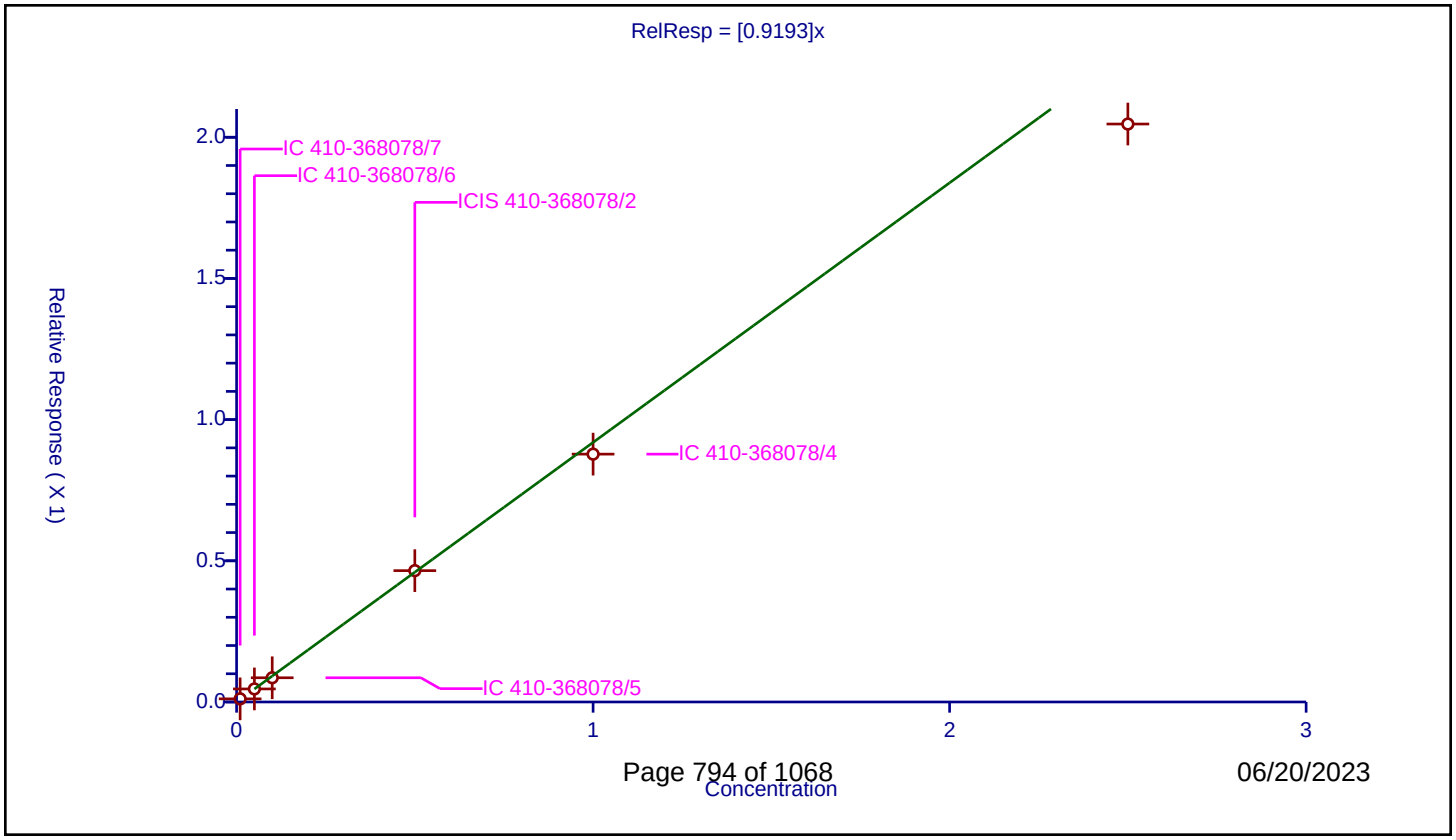
Curve Coefficients

Intercept:	0
Slope:	0.9193

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	11.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.011062	0.25	133515.0	1.106243	Y
2	IC 410-368078/6	0.05	0.04624	0.25	152076.0	0.924801	Y
3	IC 410-368078/5	0.1	0.085786	0.25	170272.0	0.857863	Y
4	ICIS 410-368078/2	0.5	0.465194	0.25	193506.0	0.930387	Y
5	IC 410-368078/4	1.0	0.877799	0.25	215151.0	0.877799	Y
6	IC 410-368078/3	2.5	2.046798	0.25	257478.0	0.818719	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

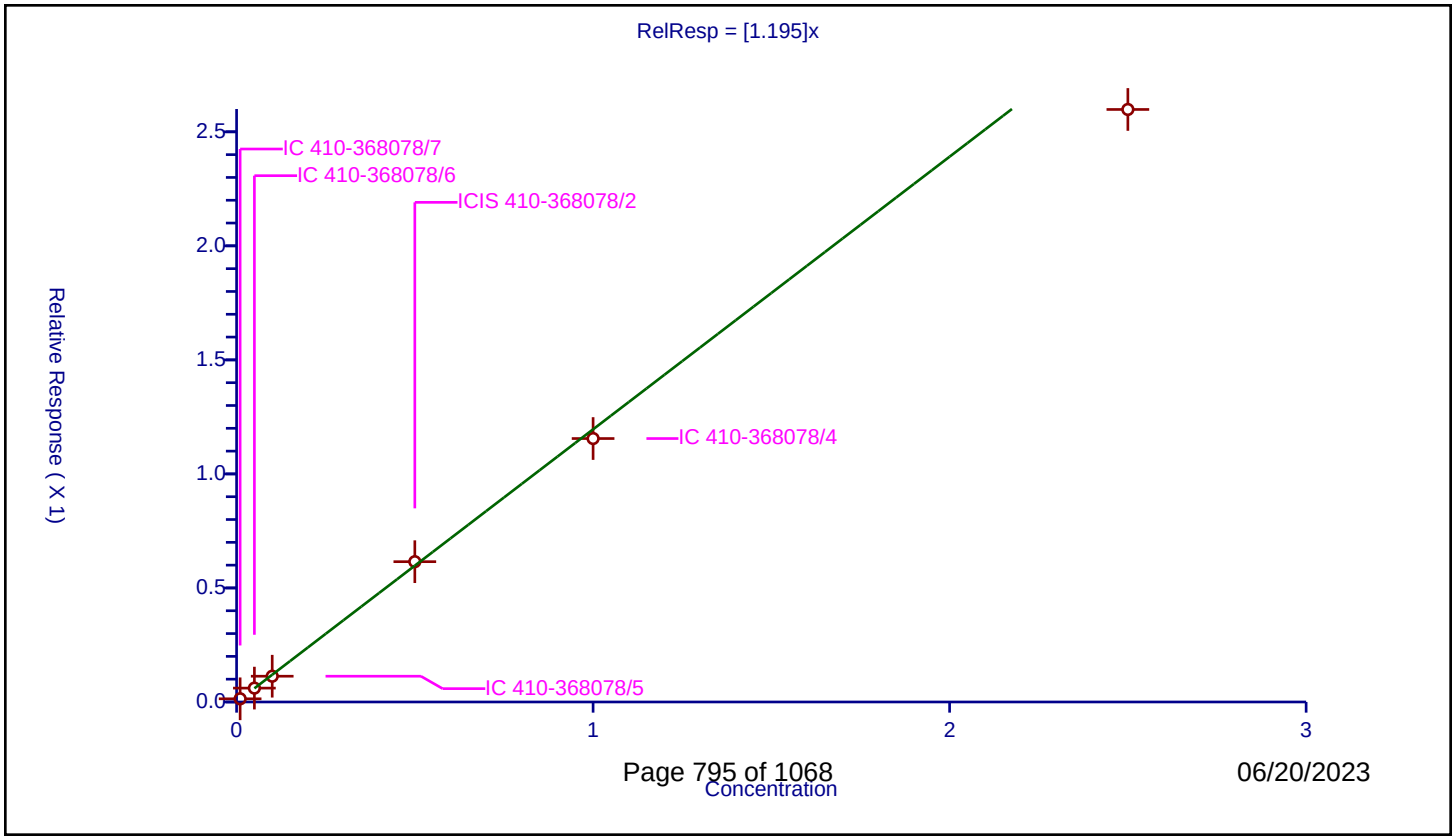
Curve Coefficients

Intercept:	0
Slope:	1.195

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.014012	0.25	133515.0	1.401153	Y
2	IC 410-368078/6	0.05	0.060853	0.25	152076.0	1.217056	Y
3	IC 410-368078/5	0.1	0.112978	0.25	170272.0	1.129781	Y
4	ICIS 410-368078/2	0.5	0.61525	0.25	193506.0	1.230499	Y
5	IC 410-368078/4	1.0	1.155184	0.25	215151.0	1.155184	Y
6	IC 410-368078/3	2.5	2.597997	0.25	257478.0	1.039199	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

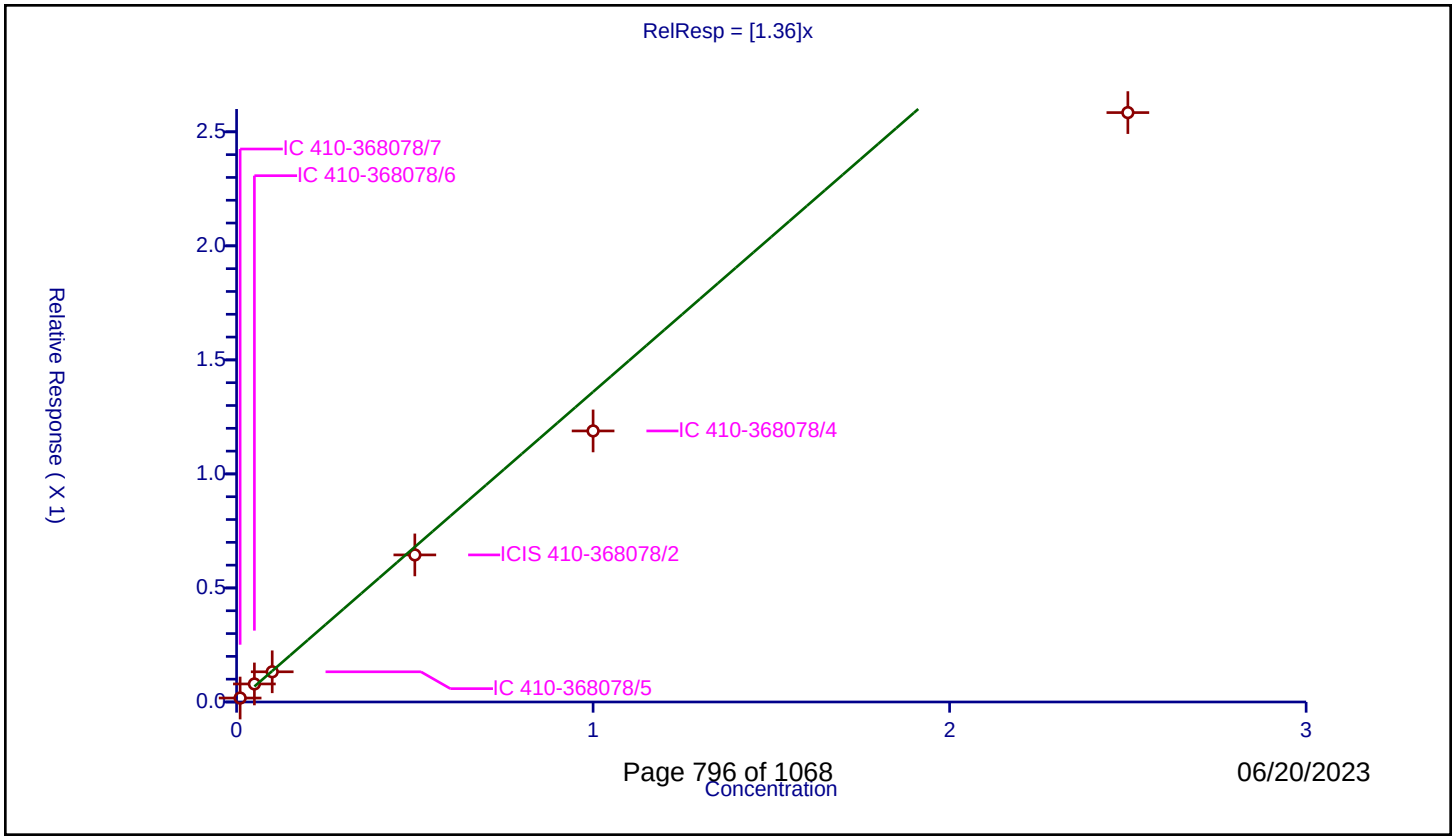
Curve Coefficients

Intercept:	0
Slope:	1.36

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	19.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.950

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.017416	0.25	133515.0	1.741565	Y
2	IC 410-368078/6	0.05	0.079048	0.25	152076.0	1.580953	Y
3	IC 410-368078/5	0.1	0.132397	0.25	170272.0	1.32397	Y
4	ICIS 410-368078/2	0.5	0.644881	0.25	193506.0	1.289761	Y
5	IC 410-368078/4	1.0	1.188534	0.25	215151.0	1.188534	Y
6	IC 410-368078/3	2.5	2.584318	0.25	257478.0	1.033727	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

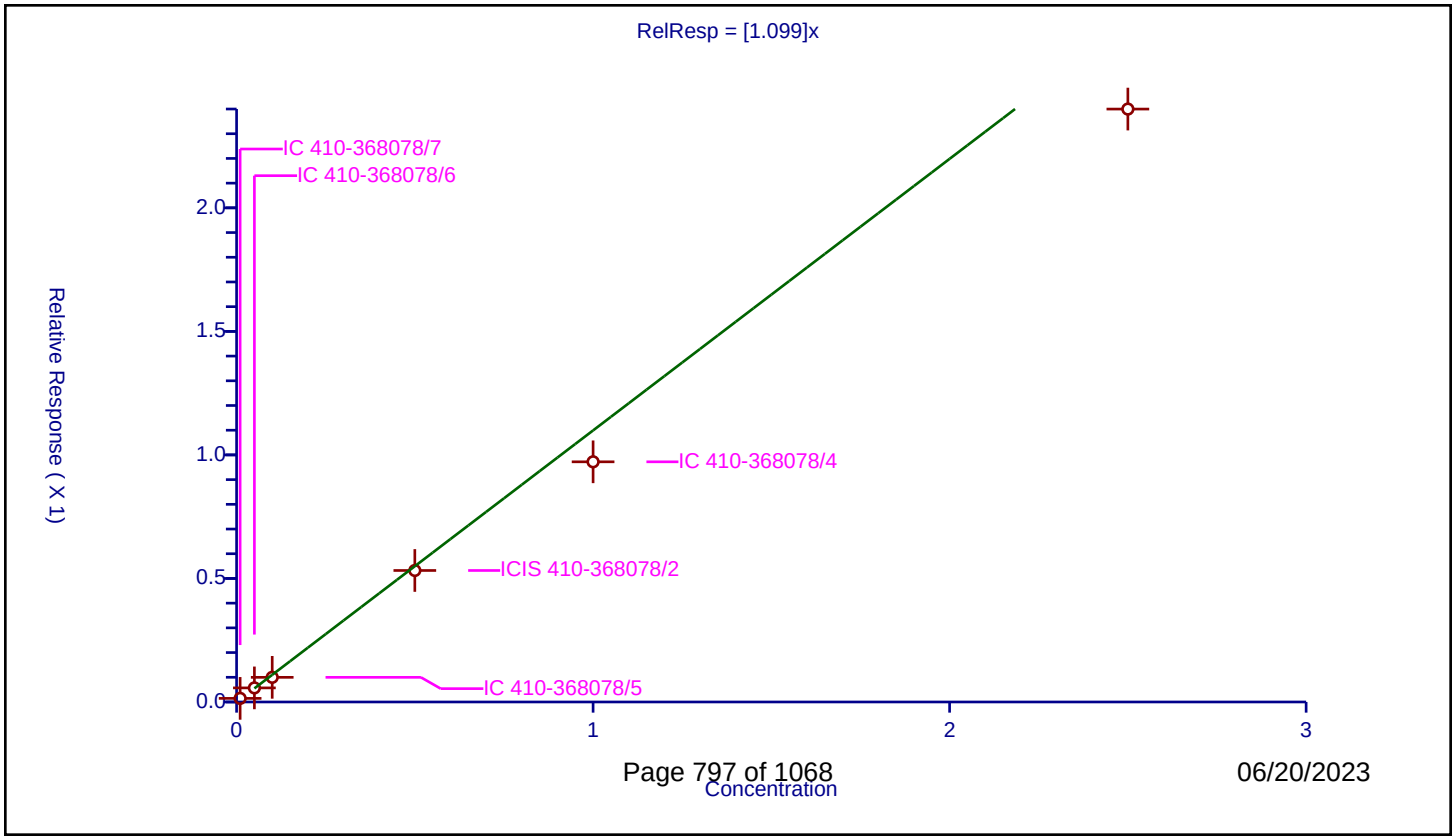
Curve Coefficients

Intercept:	0
Slope:	1.099

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	17.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.958

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.014594	0.25	133515.0	1.459387	Y
2	IC 410-368078/6	0.05	0.057026	0.25	152076.0	1.140515	Y
3	IC 410-368078/5	0.1	0.099831	0.25	170272.0	0.998314	Y
4	ICIS 410-368078/2	0.5	0.532241	0.25	193506.0	1.064481	Y
5	IC 410-368078/4	1.0	0.97213	0.25	215151.0	0.97213	Y
6	IC 410-368078/3	2.5	2.399746	0.25	257478.0	0.959898	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

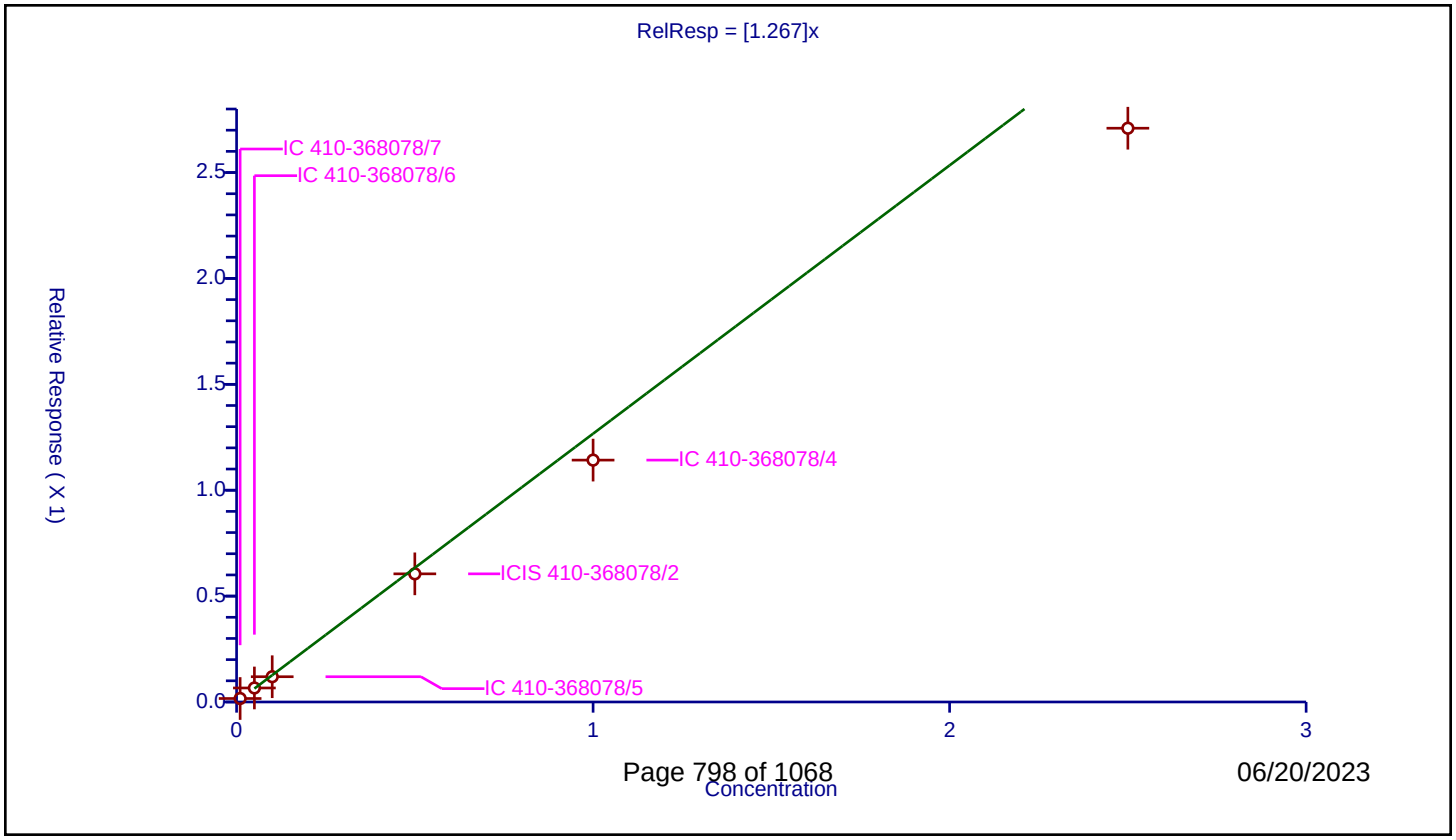
Curve Coefficients

Intercept:	0
Slope:	1.267

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	16.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.016489	0.25	133515.0	1.648878	Y
2	IC 410-368078/6	0.05	0.066166	0.25	152076.0	1.323319	Y
3	IC 410-368078/5	0.1	0.119344	0.25	170272.0	1.193443	Y
4	ICIS 410-368078/2	0.5	0.605141	0.25	193506.0	1.210283	Y
5	IC 410-368078/4	1.0	1.142201	0.25	215151.0	1.142201	Y
6	IC 410-368078/3	2.5	2.709287	0.25	257478.0	1.083715	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

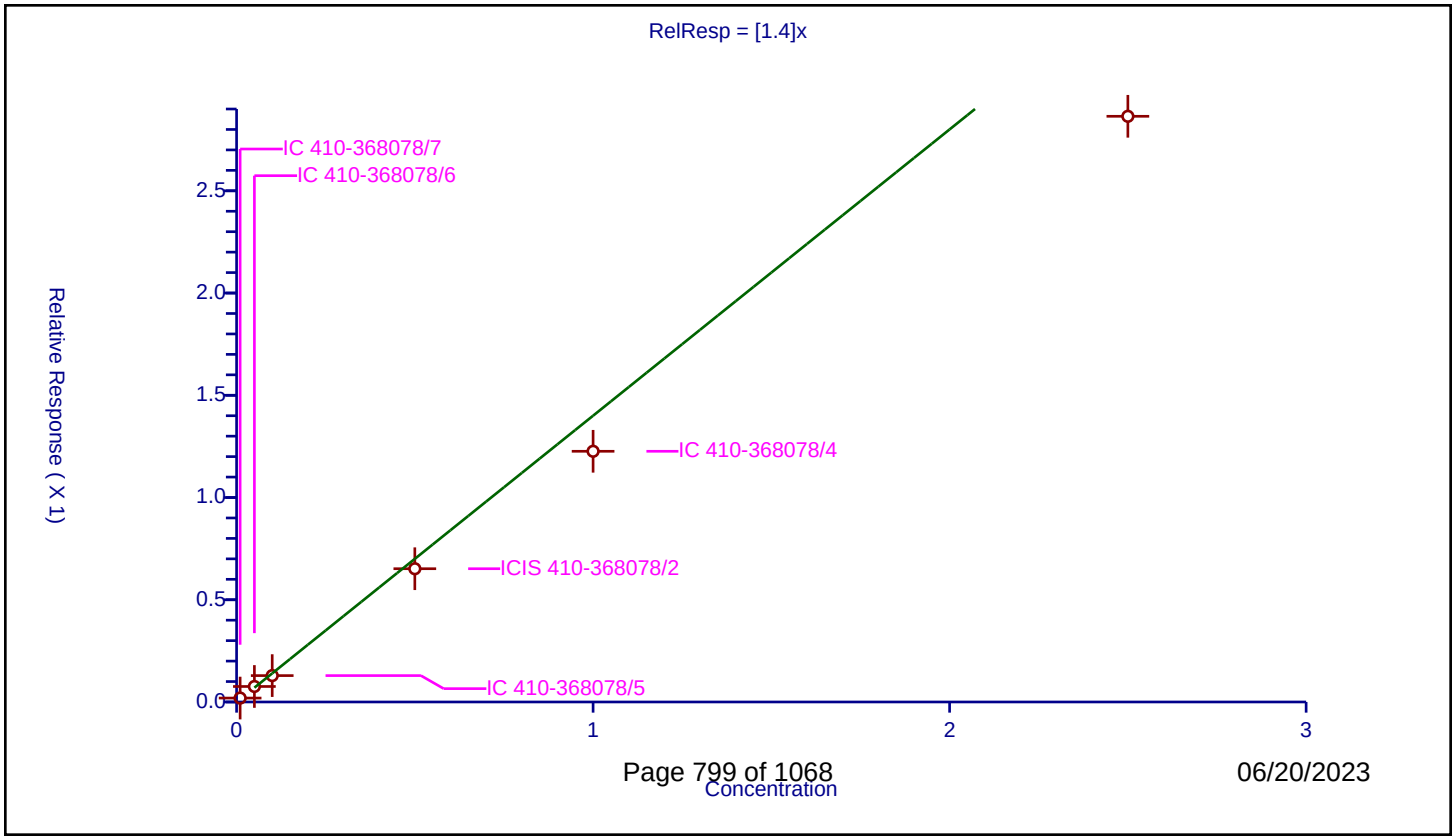
Curve Coefficients

Intercept:	0
Slope:	1.4

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	20.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.941

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-368078/7	0.01	0.019185	0.25	133515.0	1.918511	Y
2	IC 410-368078/6	0.05	0.075845	0.25	152076.0	1.516906	Y
3	IC 410-368078/5	0.1	0.129008	0.25	170272.0	1.290083	Y
4	ICIS 410-368078/2	0.5	0.651689	0.25	193506.0	1.303378	Y
5	IC 410-368078/4	1.0	1.226125	0.25	215151.0	1.226125	Y
6	IC 410-368078/3	2.5	2.864388	0.25	257478.0	1.145755	Y



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 346701

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/21/2023 22:48 Calibration End Date: 02/22/2023 01:02 Calibration ID: 47415

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-346701/7	NB0456.D
Level 2	IC 410-346701/6	NB0455.D
Level 3	IC 410-346701/5	NB0454.D
Level 4	ICIS 410-346701/2	NB0451a.D
Level 5	IC 410-346701/4	NB0453.D
Level 6	IC 410-346701/3	NB0452.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5985 0.5125	0.5323	0.5780	0.5845	0.5219	Ave		0.5546				6.6		20.4			
N-Nitrosodimethylamine	0.4819 0.6717	0.6051	0.6195	0.7507	0.6898	Ave		0.6364				14.4		20.4			
Bis(2-chloroethyl)ether	0.4039 0.3238	0.3685	0.3686	0.3963	0.3479	Ave		0.3682				8.1		20.4			
Naphthalene	2.0393 0.7800	1.1850	1.0729	0.9790	0.8719	Lin2	0.0116	0.8968							0.9920		0.9900
Quinoline	0.7987 0.4808	0.5921	0.5862	0.5891	0.5081	Ave		0.5925				18.8		20.4			
2-Methylnaphthalene	0.8886 0.5088	0.6796	0.6608	0.6363	0.5583	Ave		0.6554				20.0		20.4			
1-Methylnaphthalene	0.6958 0.4557	0.5756	0.5707	0.5591	0.4965	Ave		0.5589				14.7		20.4			
Dimethyl phthalate	1.1534 0.9626	1.1657	1.1419	1.1006	0.9527	Ave		1.0795				9.0		20.4			
Acenaphthylene	2.1167 1.6761	1.8659	1.9259	1.9658	1.7123	Ave		1.8771				8.8		20.4			
Acenaphthene	1.3703 0.9896	1.0656	1.1245	1.1060	0.9982	Ave		1.1090				12.6		20.4			
Dibenzofuran	2.1295 1.4727	1.7347	1.7847	1.7674	1.5122	Ave		1.7335				13.6		20.4			
Diethyl phthalate	1.0621 0.9374	1.0931	1.1273	1.0817	0.9078	Ave		1.0349				8.7		20.4			
Fluorene	1.5272 1.1073	1.2227	1.2695	1.2495	1.1296	Ave		1.2510				12.0		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 346701

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/21/2023 22:48 Calibration End Date: 02/22/2023 01:02 Calibration ID: 47415

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodiphenylamine	0.5078 0.3724	0.4256	0.4460	0.4573	0.3876	Ave		0.4328				11.4		20.4			
Hexachlorobenzene	0.3201 0.2316	0.2670	0.2682	0.2743	0.2415	Ave		0.2671				11.6		20.4			
Phenanthrene	1.7114 0.9513	1.1389	1.1285	1.0945	0.9759	Lin2	0.0070	1.0101							0.9970		0.9900
Anthracene	1.1781 0.9276	0.9799	1.0087	1.0420	0.9440	Ave		1.0134				9.0		20.4			
Di-n-butyl phthalate	1.2995 0.8632	0.9316	0.9325	0.9539	0.8541	Ave		0.9725				17.0		20.4			
Fluoranthene	1.2882 0.8707	1.0159	1.0306	0.9821	0.8608	Ave		1.0080				15.4		20.4			
Pyrene	2.1946 1.4223	1.6774	1.7149	1.7564	1.5043	Ave		1.7117				15.7		20.4			
Butyl benzyl phthalate	0.4264 0.5550	0.4833	0.5148	0.6279	0.5403	Ave		0.5246				13.0		20.4			
Benzo[a]anthracene	1.4332 1.1808	1.1698	1.2441	1.3834	1.1972	Ave		1.2681				8.9		20.4			
Chrysene	1.4201 1.1866	1.2380	1.2699	1.3647	1.1831	Ave		1.2771				7.6		20.4			
Bis(2-ethylhexyl) phthalate	0.5236 0.7111	0.5617	0.6399	0.7726	0.6584	Ave		0.6446				14.3		20.4			
Di-n-octyl phthalate	0.8609 1.1448	0.9767	1.1354	1.3371	1.1368	Ave		1.0986				14.9		20.4			
Benzo[b]fluoranthene	1.2790 1.0423	1.1337	1.2646	1.2545	1.1206	Ave		1.1825				8.2		20.4			
Benzo[k]fluoranthene	1.4391 1.1437	1.3864	1.3836	1.3791	1.1695	Ave		1.3169				9.6		20.4			
Benzo[e]pyrene	1.3499 1.0785	1.2108	1.2616	1.2885	1.1215	Ave		1.2185				8.5		20.4			
Benzo[a]pyrene	1.1260 0.9830	1.0989	1.1579	1.1995	1.0594	Ave		1.1041				6.9		20.4			
Perylene	1.1910 1.0133	1.1451	1.2452	1.2396	1.1028	Ave		1.1562				7.7		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-130132-1 Analy Batch No.: 346701

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/21/2023 22:48 Calibration End Date: 02/22/2023 01:02 Calibration ID: 47415

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Indeno[1,2,3-cd]pyrene	0.8488 0.8463	0.7755	0.8041	0.9350	0.8120	Ave		0.8370				6.6		20.4			
Dibenz(a,h)anthracene	0.8285 0.9144	0.8055	0.8894	0.9998	0.9089	Ave		0.8911				7.8		20.4			
Benzo[g,h,i]perylene	1.1635 1.0129	0.9817	1.0807	1.1586	1.0376	Ave		1.0725				7.1		20.4			
1-Methylnaphthalene-d10 (Surr)	0.4990 0.3638	0.4463	0.4429	0.4578	0.4005	Ave		0.4351				10.8		20.4			
Fluoranthene-d10 (Surr)	0.8958 0.7420	0.8068	0.8418	0.8294	0.7320	Ave		0.8080				7.7		20.4			
Benzo(a)pyrene-d12 (Surr)	0.8536 0.7837	0.8155	0.8640	0.9122	0.8034	Ave		0.8387				5.6		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 346701

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/21/2023 22:48 Calibration End Date: 02/22/2023 01:02 Calibration ID: 47415

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-346701/7	NB0456.D
Level 2	IC 410-346701/6	NB0455.D
Level 3	IC 410-346701/5	NB0454.D
Level 4	ICIS 410-346701/2	NB0451a.D
Level 5	IC 410-346701/4	NB0453.D
Level 6	IC 410-346701/3	NB0452.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	1371 263790	5830	12912	58081	114794	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	1104 345741	6628	13840	74593	151720	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	3191 600803	13992	28263	135031	264036	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Lin2	16111 1447177	44996	82270	333590	661766	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	6310 892001	22483	44950	200752	385654	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	7020 944014	25808	50666	216820	423702	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	5497 845418	21856	43758	190524	376809	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethyl phthalate	ANT	Ave	99203 2793250	193589	374221	797176	1522750	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	7282 1215977	30987	63111	284759	547359	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	4714 717915	17697	36851	160213	319085	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	7326 1068394	28809	58484	256026	483389	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethyl phthalate	ANT	Ave	91346 2720303	181535	369409	783468	1450962	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	5254	20306	41601	180994	361098	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 346701

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/21/2023 22:48 Calibration End Date: 02/22/2023 01:02 Calibration ID: 47415

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			803272					2.50				
N-Nitrosodiphenylamine	PHN	Ave	2608 429363	10993	23420	101679	188639	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	1644 267069	6896	14081	60979	117517	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Lin2	8790 1096869	29417	59252	243356	474972	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	6051 1069563	25312	52965	231672	459467	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	166855 3981284	240629	489629	1060459	2078455	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	6616 1003924	26242	54113	218351	418943	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	6549 1086729	26479	56404	229902	449155	0.0100 2.50	0.0500	0.100	0.500	1.00
Butyl benzyl phthalate	CRY	Ave	31812 1696215	76291	169328	410910	806652	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	4277 902197	18466	40918	181084	357456	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	4238 906616	19543	41767	178632	353237	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	39066 2173348	88674	210453	505657	982915	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	54035 3607351	130389	316439	821647	1589430	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	3211 821097	15135	35243	154187	313358	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	3613 901003	18509	38559	169503	327012	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	3389 849626	16165	35160	158357	313598	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	2827 774424	14671	32271	147419	296243	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	2990 798265	15287	34703	152354	308368	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	2131	10353	22410	114921	227044	0.0100	0.0500	0.100	0.500	1.00

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 346701

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/21/2023 22:48 Calibration End Date: 02/22/2023 01:02 Calibration ID: 47415

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			666708					2.50				
Dibenz(a,h)anthracene	PRY	Ave	2080 720366	10753	24787	122877	254139	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	2921 797973	13106	30117	142399	290128	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	3942 674903	16949	33963	156012	303980	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	4601 855511	20840	44199	184416	356275	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	2143 617387	10887	24078	112119	224662	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Envirc Job No.: 410-130132-1 Analy Batch No.: 346701

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m 0 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/21/2023 22:48 Calibration End Date: 02/22/2023 01:02 Calibration ID: 47415

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-346701/7	NB0456.D
Level 2	IC 410-346701/6	NB0455.D
Level 3	IC 410-346701/5	NB0454.D
Level 4	ICIS 410-346701/2	NB0451a.D
Level 5	IC 410-346701/4	NB0453.D
Level 6	IC 410-346701/3	NB0452.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
Naphthalene	-2.0	6.3	6.7	6.6	-4.1	-13.5	50	30	30	30	30	30
Phenanthrene	-0.3	-1.2	4.7	7.0	-4.1	-6.1	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0451a.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 21-Feb-2023 22:48:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0077517-002
Operator ID: kel10217 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:33:33 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: SJ89 Date: 21-Feb-2023 23:33:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.731	1.731	0.000	90	58081	0.5000	0.5270	
2 N-Nitrosodimethylamine	74	2.038	2.038	0.000	86	74593	0.5000	0.5897	
3 Bis(2-chloroethyl)ether	93	4.307	4.307	0.000	94	135031	0.5000	0.5382	
* 4 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	95	49684	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.769	5.769	0.000	100	170375	0.2500	0.2500	M
6 Naphthalene	128	5.781	5.781	0.000	98	333590	0.5000	0.5329	
7 Quinoline	129	6.106	6.106	0.000	95	200752	0.5000	0.4972	
8 2-Methylnaphthalene	142	6.439	6.439	0.000	100	216820	0.5000	0.4854	
$ 9 1-Methylnaphthalene-d10	152	6.499	6.499	0.000	99	156012	0.5000	0.5262	
10 1-Methylnaphthalene	142	6.529	6.529	0.000	93	190524	0.5000	0.5002	
11 Dimethyl phthalate	163	7.170	7.170	0.000	97	797176	2.50	2.55	
12 Acenaphthylene	152	7.290	7.290	0.000	99	284759	0.5000	0.5236	
* 13 Acenaphthene-d10	164	7.430	7.430	0.000	95	72429	0.2500	0.2500	
14 Acenaphthene	154	7.461	7.461	0.000	95	160213	0.5000	0.4986	
15 Dibenzofuran	168	7.625	7.625	0.000	98	256026	0.5000	0.5098	
16 Diethyl phthalate	149	7.841	7.841	0.000	99	783468	2.50	2.61	
17 Fluorene	166	7.949	7.949	0.000	100	180994	0.5000	0.4994	
18 N-Nitrosodiphenylamine	169	8.065	8.065	0.000	96	101679	0.5000	0.5283	
19 Hexachlorobenzene	284	8.466	8.466	0.000	96	60979	0.5000	0.5134	
* 20 Phenanthrene-d10	188	8.837	8.837	0.000	98	111170	0.2500	0.2500	
21 Phenanthrene	178	8.860	8.860	0.000	100	243356	0.5000	0.5348	
22 Anthracene	178	8.914	8.914	0.000	100	231672	0.5000	0.5141	
23 Di-n-butyl phthalate	149	9.407	9.407	0.000	100	1060459	2.50	2.45	
$ 24 Fluoranthene-d10 (Surr)	212	9.972	9.972	0.000	99	184416	0.5000	0.5133	
25 Fluoranthene	202	9.990	9.990	0.000	100	218351	0.5000	0.4871	
26 Pyrene	202	10.210	10.210	0.000	97	229902	0.5000	0.5131	
27 Butyl benzyl phthalate	149	10.889	10.889	0.000	100	410910	2.50	2.99	
28 Benzo[a]anthracene	228	11.502	11.502	0.000	99	181084	0.5000	0.5455	
* 29 Chrysene-d12	240	11.517	11.517	0.000	100	65447	0.2500	0.2500	
30 Chrysene	228	11.548	11.548	0.000	100	178632	0.5000	0.5343	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.579	11.579	0.000	99	505657	2.50	3.00	
32 Di-n-octyl phthalate	149	12.468	12.468	0.000	100	821647	2.50	3.04	
33 Benzo[b]fluoranthene	252	12.936	12.936	0.000	100	154187	0.5000	0.5305	
34 Benzo[k]fluoranthene	252	12.982	12.982	0.000	100	169503	0.5000	0.5236	
35 Benzo[e]pyrene	252	13.335	13.335	0.000	100	158357	0.5000	0.5287	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.373	13.373	0.000	99	112119	0.5000	0.5438	
37 Benzo[a]pyrene	252	13.412	13.412	0.000	100	147419	0.5000	0.5432	
* 38 Perylene-d12	264	13.496	13.496	0.000	96	61452	0.2500	0.2500	
39 Perylene	252	13.527	13.527	0.000	100	152354	0.5000	0.5361	
40 Indeno[1,2,3-cd]pyrene	276	15.150	15.150	0.000	97	114921	0.5000	0.5586	
41 Dibenz(a,h)anthracene	278	15.206	15.206	0.000	98	122877	0.5000	0.5610	
42 Benzo[g,h,i]perylene	276	15.616	15.616	0.000	100	142399	0.5000	0.5402	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00027 Amount Added: 1.00 Units: mL

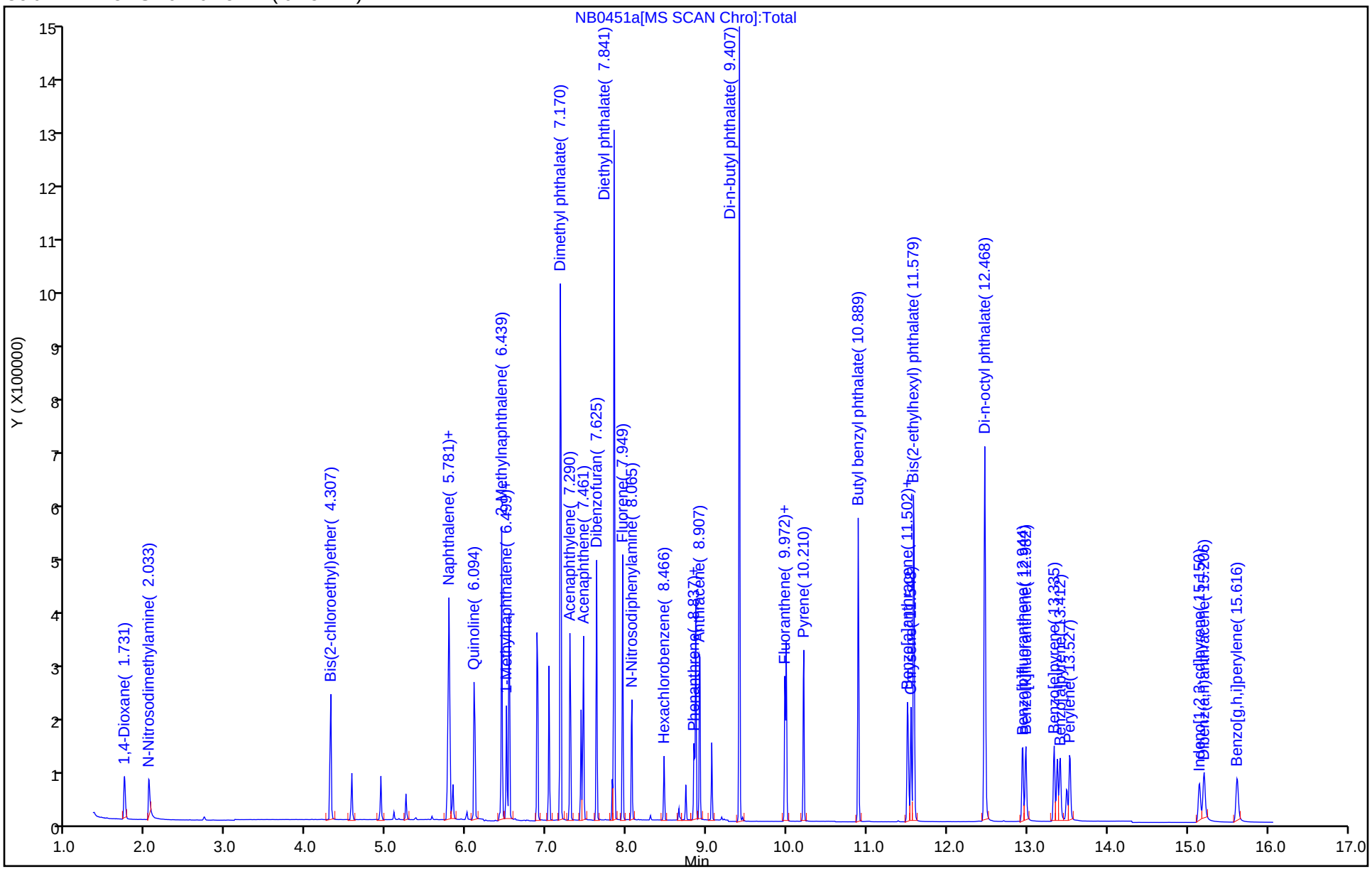
Report Date: 22-Feb-2023 03:33:34 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0451a.D

Injection Date:	21-Feb-2023 22:48:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	ICIS L4			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0451a.D				
Injection Date:	21-Feb-2023 22:48:30	Instrument ID:	HP23263		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

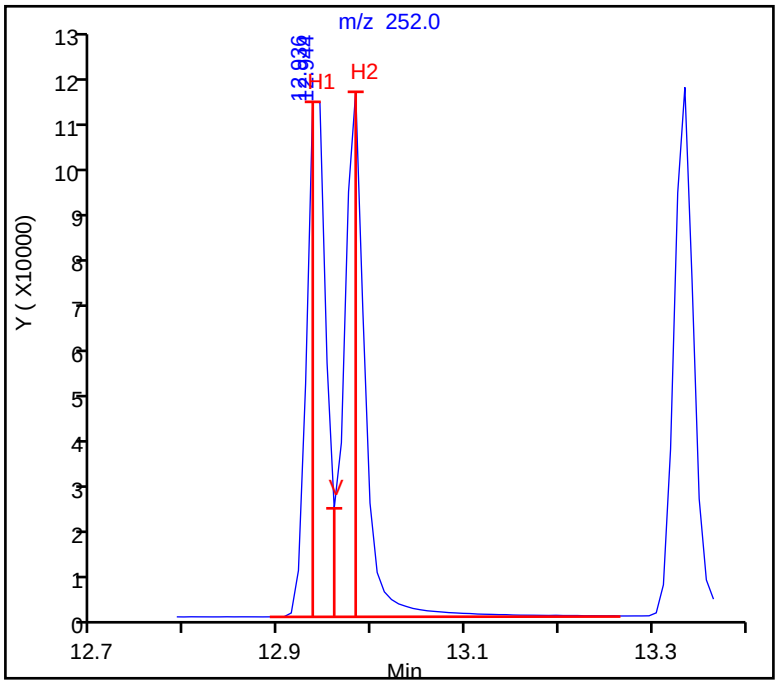
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 22450
H1(33 Benzo[b]fluoranthen) = 106534
H2(34 Benzo[k]fluoranthen) = 108597

Version D: %R = 20.9 <= 50.0
Passed



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

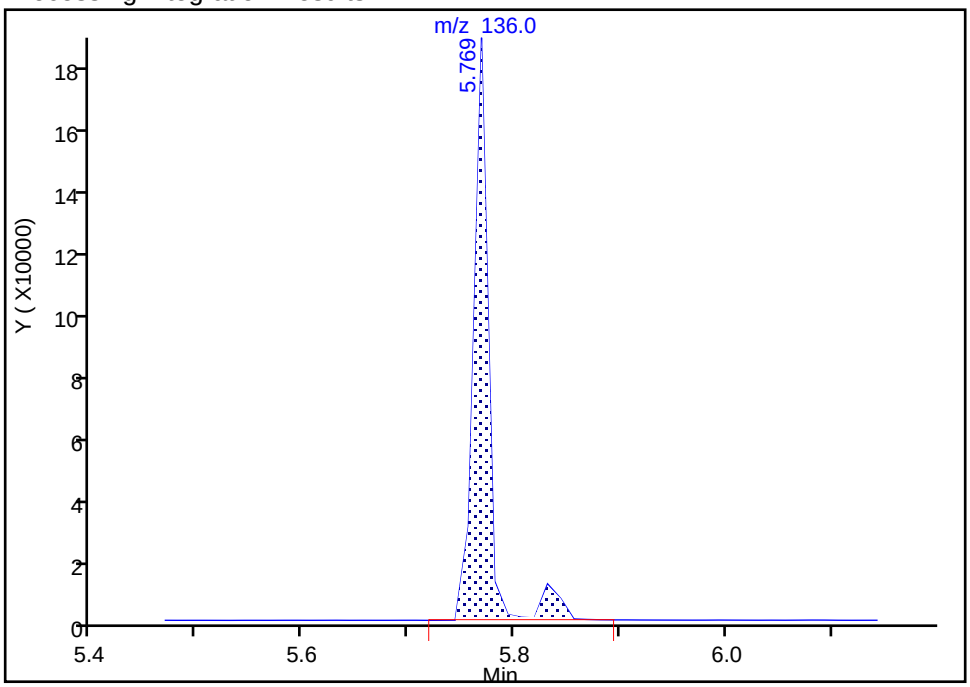
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0451a.D				
Injection Date:	21-Feb-2023 22:48:30	Instrument ID:	HP23263		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

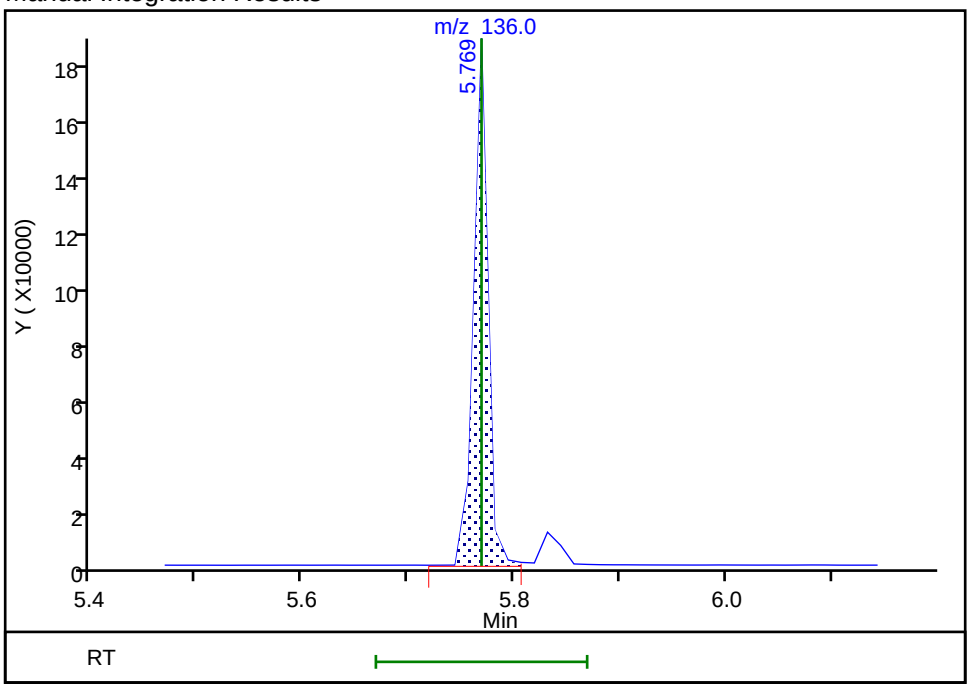
Processing Integration Results

RT: 5.77
Area: 185299
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.77
Area: 170375
Amount: 0.250000
Amount Units: ug/ml



Reviewer: SJ89, 21-Feb-2023 23:27:44
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0452.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Feb-2023 23:35:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0077517-003
Operator ID: kel10217 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:33:36 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: UJM0 Date: 22-Feb-2023 03:18:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.727	1.731	-0.004	90	263790	2.50	2.31	
2 N-Nitrosodimethylamine	74	2.025	2.038	-0.013	83	345741	2.50	2.64	
3 Bis(2-chloroethyl)ether	93	4.306	4.307	-0.001	95	600803	2.50	2.20	
* 4 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	95	51473	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.769	5.769	0.000	100	185528	0.2500	0.2500	
6 Naphthalene	128	5.781	5.781	0.000	98	1447177	2.50	2.16	
7 Quinoline	129	6.106	6.106	0.000	95	892001	2.50	2.03	
8 2-Methylnaphthalene	142	6.436	6.439	-0.003	98	944014	2.50	1.94	
$ 9 1-Methylnaphthalene-d10	152	6.497	6.499	-0.003	99	674903	2.50	2.09	
10 1-Methylnaphthalene	142	6.537	6.529	0.008	96	845418	2.50	2.04	
11 Dimethyl phthalate	163	7.178	7.170	0.008	98	2793250	10.0	8.92	
12 Acenaphthylene	152	7.298	7.290	0.008	98	1215977	2.50	2.23	
* 13 Acenaphthene-d10	164	7.428	7.430	-0.002	87	72546	0.2500	0.2500	
14 Acenaphthene	154	7.458	7.461	-0.002	100	717915	2.50	2.23	
15 Dibenzofuran	168	7.625	7.625	-0.001	99	1068394	2.50	2.12	
16 Diethyl phthalate	149	7.841	7.841	0.000	99	2720303	10.0	9.06	
17 Fluorene	166	7.949	7.949	0.000	100	803272	2.50	2.21	
18 N-Nitrosodiphenylamine	169	8.065	8.065	0.000	96	429363	2.50	2.15	
19 Hexachlorobenzene	284	8.466	8.466	0.000	100	267069	2.50	2.17	
* 20 Phenanthrene-d10	188	8.845	8.837	0.008	100	115305	0.2500	0.2500	
21 Phenanthrene	178	8.860	8.860	0.000	100	1096869	2.50	2.35	
22 Anthracene	178	8.914	8.914	0.000	100	1069563	2.50	2.29	
23 Di-n-butyl phthalate	149	9.409	9.407	0.002	100	3981284	10.0	8.88	
$ 24 Fluoranthene-d10 (Surr)	212	9.979	9.972	0.007	98	855511	2.50	2.30	
25 Fluoranthene	202	9.992	9.990	0.002	100	1003924	2.50	2.16	
26 Pyrene	202	10.211	10.210	0.001	98	1086729	2.50	2.08	
27 Butyl benzyl phthalate	149	10.890	10.889	0.001	100	1696215	10.0	10.6	
28 Benzo[a]anthracene	228	11.503	11.502	0.001	98	902197	2.50	2.33	
* 29 Chrysene-d12	240	11.519	11.517	0.002	49	76404	0.2500	0.2500	
30 Chrysene	228	11.549	11.548	0.001	100	906616	2.50	2.32	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.580	11.579	0.001	99	2173348	10.0	11.0	
32 Di-n-octyl phthalate	149	12.470	12.468	0.002	100	3607351	10.0	10.4	
33 Benzo[b]fluoranthene	252	12.945	12.936	0.009	99	821097	2.50	2.20	
34 Benzo[k]fluoranthene	252	12.984	12.982	0.002	100	901003	2.50	2.17	
35 Benzo[e]pyrene	252	13.336	13.335	0.001	100	849626	2.50	2.21	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.375	13.373	0.002	99	617387	2.50	2.34	
37 Benzo[a]pyrene	252	13.413	13.412	0.001	100	774424	2.50	2.23	
* 38 Perylene-d12	264	13.497	13.496	0.001	97	78779	0.2500	0.2500	
39 Perylene	252	13.536	13.527	0.009	100	798265	2.50	2.19	
40 Indeno[1,2,3-cd]pyrene	276	15.150	15.150	0.000	98	666708	2.50	2.53	
41 Dibenz(a,h)anthracene	278	15.207	15.206	0.001	99	720366	2.50	2.57	
42 Benzo[g,h,i]perylene	276	15.624	15.616	0.008	100	797973	2.50	2.36	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_6_00017 Amount Added: 1.00 Units: mL

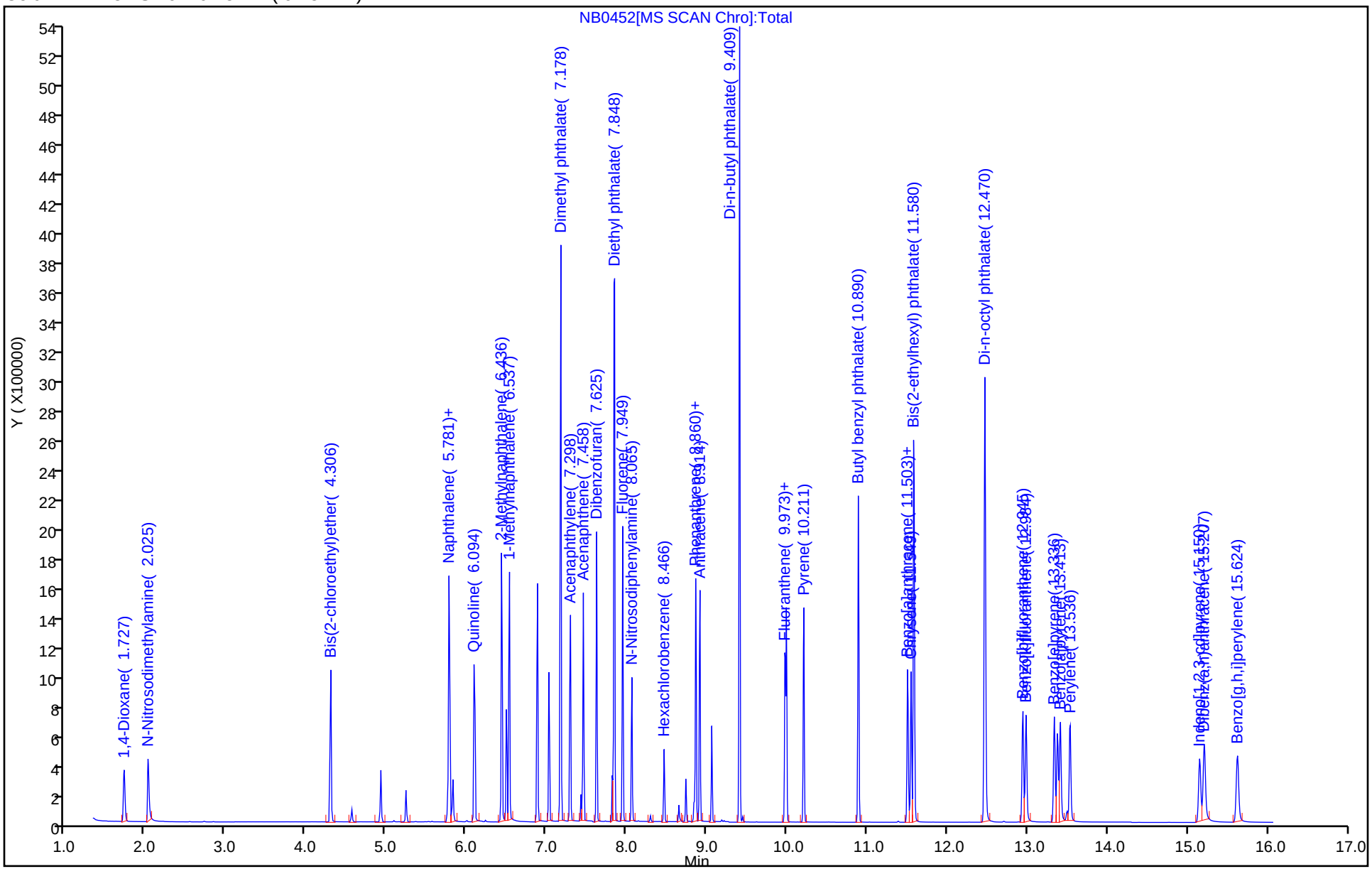
Report Date: 22-Feb-2023 03:33:36 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0452.D

Injection Date:	21-Feb-2023 23:35:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	IC L6			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0453.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Feb-2023 23:57:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0077517-004
Operator ID: kel10217 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:33:39 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: UJM0 Date: 22-Feb-2023 03:19:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.727	1.731	-0.004	88	114794	1.00	0.9410	
2 N-Nitrosodimethylamine	74	2.029	2.038	-0.009	83	151720	1.00	1.08	
3 Bis(2-chloroethyl)ether	93	4.307	4.307	0.000	93	264036	1.00	0.9449	
* 4 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	97	54990	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.769	5.769	0.000	100	189739	0.2500	0.2500	
6 Naphthalene	128	5.781	5.781	0.000	99	661766	1.00	0.9594	
7 Quinoline	129	6.094	6.106	-0.012	90	385654	1.00	0.8576	Ma
8 2-Methylnaphthalene	142	6.439	6.439	0.000	99	423702	1.00	0.8518	
$ 9 1-Methylnaphthalene-d10	152	6.499	6.499	0.000	100	303980	1.00	0.9206	
10 1-Methylnaphthalene	142	6.529	6.529	0.000	96	376809	1.00	0.8883	
11 Dimethyl phthalate	163	7.170	7.170	0.000	98	1522750	5.00	4.41	
12 Acenaphthylene	152	7.290	7.290	0.000	99	547359	1.00	0.9122	
* 13 Acenaphthene-d10	164	7.431	7.430	0.001	98	79916	0.2500	0.2500	
14 Acenaphthene	154	7.461	7.461	0.001	93	319085	1.00	0.9001	
15 Dibenzofuran	168	7.625	7.625	0.000	97	483389	1.00	0.8723	
16 Diethyl phthalate	149	7.841	7.841	0.000	100	1450962	5.00	4.39	
17 Fluorene	166	7.949	7.949	0.000	99	361098	1.00	0.9030	
18 N-Nitrosodiphenylamine	169	8.065	8.065	0.000	95	188639	1.00	0.8956	
19 Hexachlorobenzene	284	8.467	8.466	0.001	94	117517	1.00	0.9040	
* 20 Phenanthrene-d10	188	8.837	8.837	0.000	99	121675	0.2500	0.2500	
21 Phenanthrene	178	8.860	8.860	0.000	100	474972	1.00	0.9591	
22 Anthracene	178	8.907	8.914	-0.007	99	459467	1.00	0.9316	
23 Di-n-butyl phthalate	149	9.408	9.407	0.001	100	2078455	5.00	4.39	
$ 24 Fluoranthene-d10 (Surr)	212	9.972	9.972	0.000	99	356275	1.00	0.9060	
25 Fluoranthene	202	9.991	9.990	0.001	100	418943	1.00	0.8539	
26 Pyrene	202	10.210	10.210	0.000	97	449155	1.00	0.8789	
27 Butyl benzyl phthalate	149	10.889	10.889	0.000	100	806652	5.00	5.15	
28 Benzo[a]anthracene	228	11.502	11.502	0.000	99	357456	1.00	0.9441	
* 29 Chrysene-d12	240	11.518	11.517	0.001	98	74645	0.2500	0.2500	
30 Chrysene	228	11.548	11.548	0.000	100	353237	1.00	0.9264	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.579	11.579	0.000	99	982915	5.00	5.11	
32 Di-n-octyl phthalate	149	12.469	12.468	0.001	100	1589430	5.00	5.17	
33 Benzo[b]fluoranthene	252	12.937	12.936	0.001	100	313358	1.00	0.9477	
34 Benzo[k]fluoranthene	252	12.983	12.982	0.001	100	327012	1.00	0.8880	
35 Benzo[e]pyrene	252	13.335	13.335	0.000	100	313598	1.00	0.9204	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.374	13.373	0.001	99	224662	1.00	0.9579	
37 Benzo[a]pyrene	252	13.404	13.412	-0.008	100	296243	1.00	0.9595	
* 38 Perylene-d12	264	13.489	13.496	-0.007	99	69906	0.2500	0.2500	
39 Perylene	252	13.527	13.527	0.000	100	308368	1.00	0.9538	
40 Indeno[1,2,3-cd]pyrene	276	15.150	15.150	0.000	98	227044	1.00	0.9701	
41 Dibenz(a,h)anthracene	278	15.206	15.206	0.000	98	254139	1.00	1.02	
42 Benzo[g,h,i]perylene	276	15.616	15.616	0.000	99	290128	1.00	0.9674	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RVSIM_5_00020 Amount Added: 1.00 Units: mL

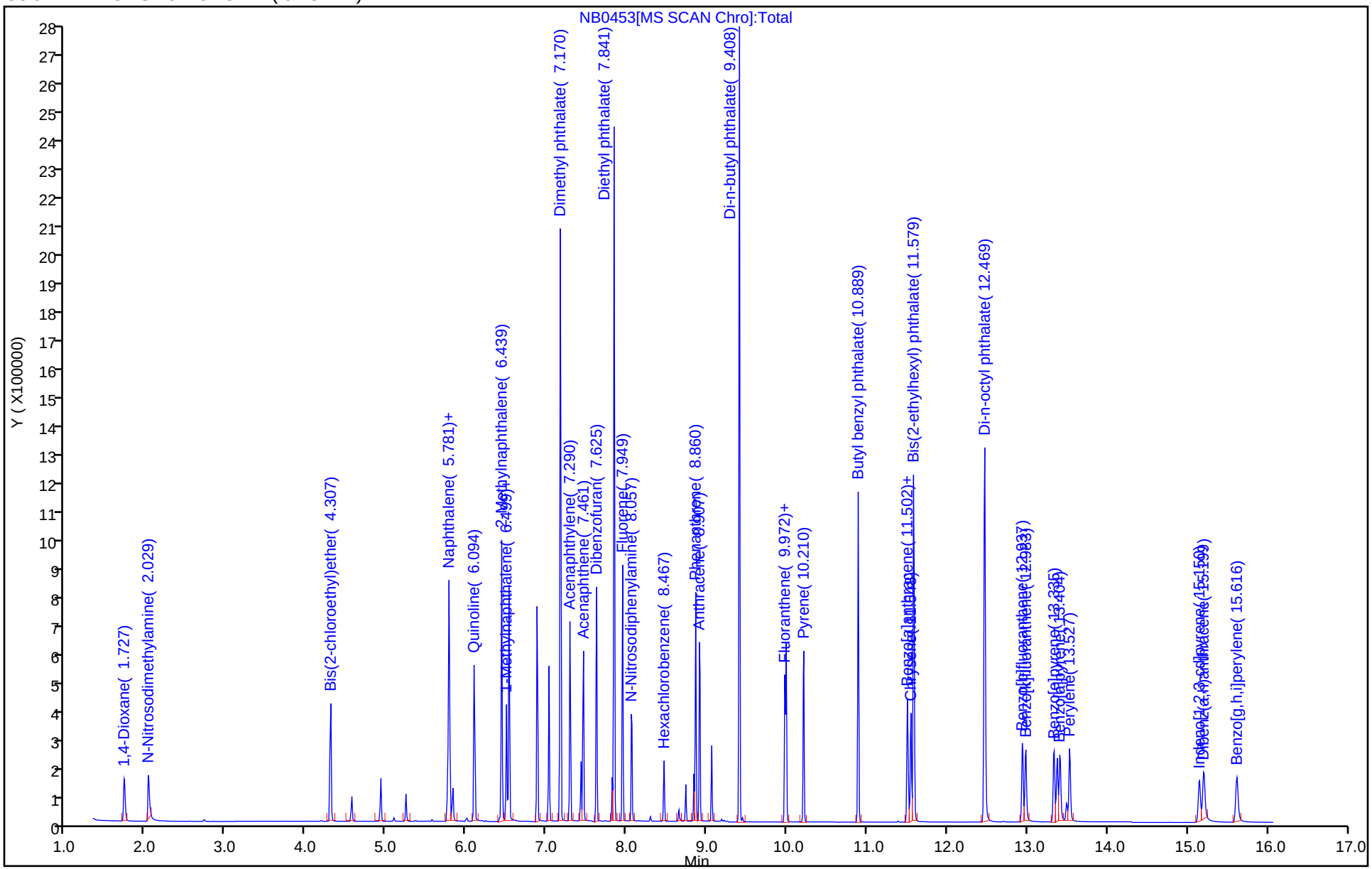
Report Date: 22-Feb-2023 03:33:39 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0453.D

Injection Date:	21-Feb-2023 23:57:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	IC L5			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

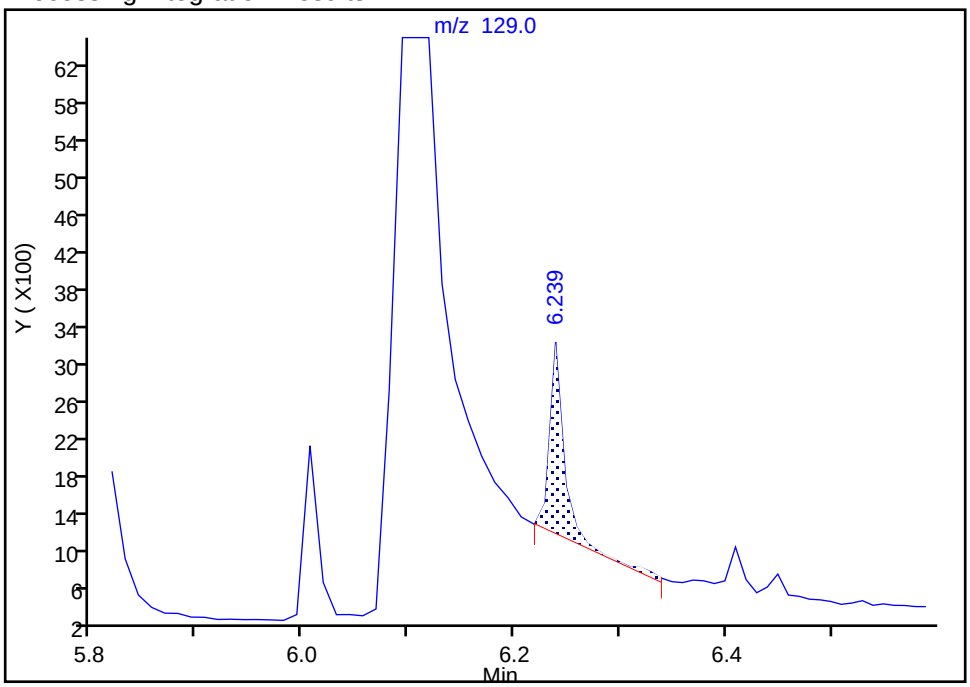
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0453.D				
Injection Date:	21-Feb-2023 23:57:30	Instrument ID:	HP23263		
Lims ID:	IC L5				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

7 Quinoline, CAS: 91-22-5

Signal: 1

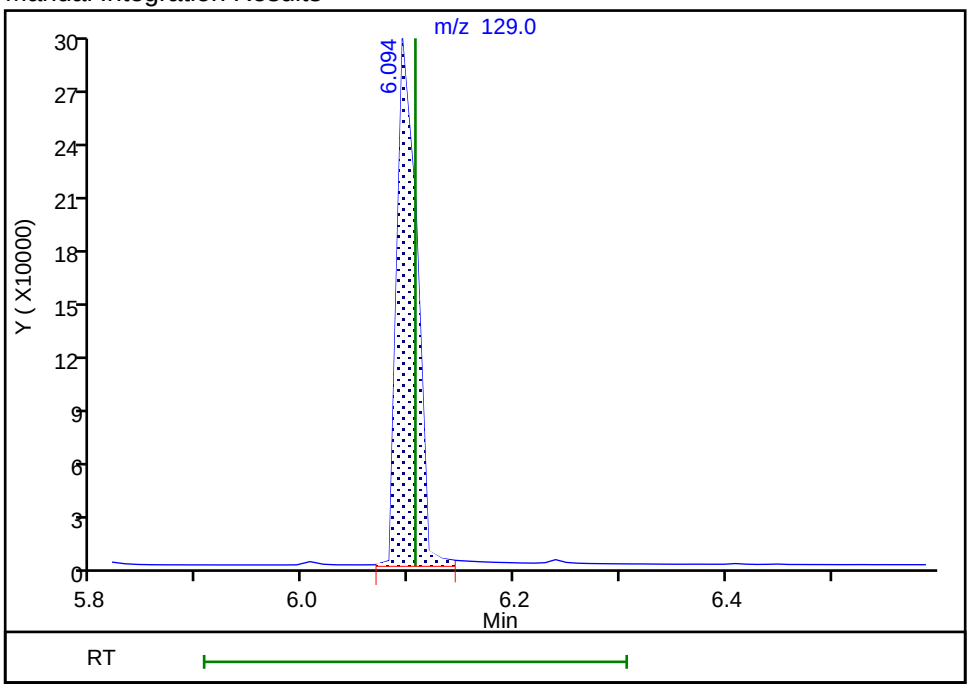
Processing Integration Results

RT: 6.24
Area: 2049
Amount: 0.008306
Amount Units: ug/ml



Manual Integration Results

RT: 6.09
Area: 385654
Amount: 0.857597
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:18:52
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0454.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Feb-2023 00:19:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0077517-005
Operator ID: kel10217 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:33:41 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: UJM0 Date: 22-Feb-2023 03:20:14

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.735	1.731	0.004	90	12912	0.1000	0.1042	
	2 N-Nitrosodimethylamine	74	2.055	2.038	0.017	82	13840	0.1000	0.0973	
	3 Bis(2-chloroethyl)ether	93	4.307	4.307	0.000	94	28263	0.1000	0.1001	
*	4 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	100	55847	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.769	5.769	0.000	100	191695	0.2500	0.2500	M
	6 Naphthalene	128	5.781	5.781	0.000	99	82270	0.1000	0.1067	
	7 Quinoline	129	6.094	6.106	-0.012	89	44950	0.1000	0.0989	M
	8 2-Methylnaphthalene	142	6.436	6.439	-0.003	98	50666	0.1000	0.1008	
$	9 1-Methylnaphthalene-d10	152	6.497	6.499	-0.002	99	33963	0.1000	0.1018	
	10 1-Methylnaphthalene	142	6.537	6.529	0.008	95	43758	0.1000	0.1021	
	11 Dimethyl phthalate	163	7.168	7.170	-0.002	97	374221	1.00	1.06	
	12 Acenaphthylene	152	7.288	7.290	-0.002	97	63111	0.1000	0.1026	
*	13 Acenaphthene-d10	164	7.428	7.430	-0.002	92	81926	0.2500	0.2500	
	14 Acenaphthene	154	7.458	7.461	-0.002	95	36851	0.1000	0.1014	
	15 Dibenzofuran	168	7.625	7.625	0.000	96	58484	0.1000	0.1029	
	16 Diethyl phthalate	149	7.841	7.841	0.000	100	369409	1.00	1.09	
	17 Fluorene	166	7.949	7.949	0.000	100	41601	0.1000	0.1015	
	18 N-Nitrosodiphenylamine	169	8.065	8.065	0.000	96	23420	0.1000	0.1031	
	19 Hexachlorobenzene	284	8.466	8.466	0.000	92	14081	0.1000	0.1004	
*	20 Phenanthrene-d10	188	8.837	8.837	0.000	100	131266	0.2500	0.2500	
	21 Phenanthrene	178	8.860	8.860	0.000	100	59252	0.1000	0.1047	
	22 Anthracene	178	8.906	8.914	-0.008	99	52965	0.1000	0.0995	
	23 Di-n-butyl phthalate	149	9.402	9.407	-0.005	100	489629	1.00	0.9589	
$	24 Fluoranthene-d10 (Surr)	212	9.973	9.972	0.001	100	44199	0.1000	0.1042	
	25 Fluoranthene	202	9.992	9.990	0.002	98	54113	0.1000	0.1022	
	26 Pyrene	202	10.205	10.210	-0.005	100	56404	0.1000	0.1002	
	27 Butyl benzyl phthalate	149	10.890	10.889	0.001	100	169328	1.00	0.9813	
	28 Benzo[a]anthracene	228	11.503	11.502	0.001	93	40918	0.1000	0.0981	
*	29 Chrysene-d12	240	11.519	11.517	0.002	83	82226	0.2500	0.2500	
	30 Chrysene	228	11.549	11.548	0.001	100	41767	0.1000	0.0994	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.580	11.579	0.001	99	210453	1.00	0.99	
32 Di-n-octyl phthalate	149	12.462	12.468	-0.006	100	316439	1.00	1.03	
33 Benzo[b]fluoranthene	252	12.938	12.936	0.002	100	35243	0.1000	0.1069	
34 Benzo[k]fluoranthene	252	12.976	12.982	-0.006	100	38559	0.1000	0.1051	
35 Benzo[e]pyrene	252	13.329	13.335	-0.006	100	35160	0.1000	0.1035	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.375	13.373	0.002	98	24078	0.1000	0.1030	
37 Benzo[a]pyrene	252	13.405	13.412	-0.007	100	32271	0.1000	0.1049	
* 38 Perylene-d12	264	13.490	13.496	-0.006	98	69673	0.2500	0.2500	
39 Perylene	252	13.528	13.527	0.001	99	34703	0.1000	0.1077	
40 Indeno[1,2,3-cd]pyrene	276	15.143	15.150	-0.007	98	22410	0.1000	0.0961	
41 Dibenz(a,h)anthracene	278	15.200	15.206	-0.006	98	24787	0.1000	0.0998	
42 Benzo[g,h,i]perylene	276	15.617	15.616	0.001	99	30117	0.1000	0.1008	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00020 Amount Added: 1.00 Units: mL

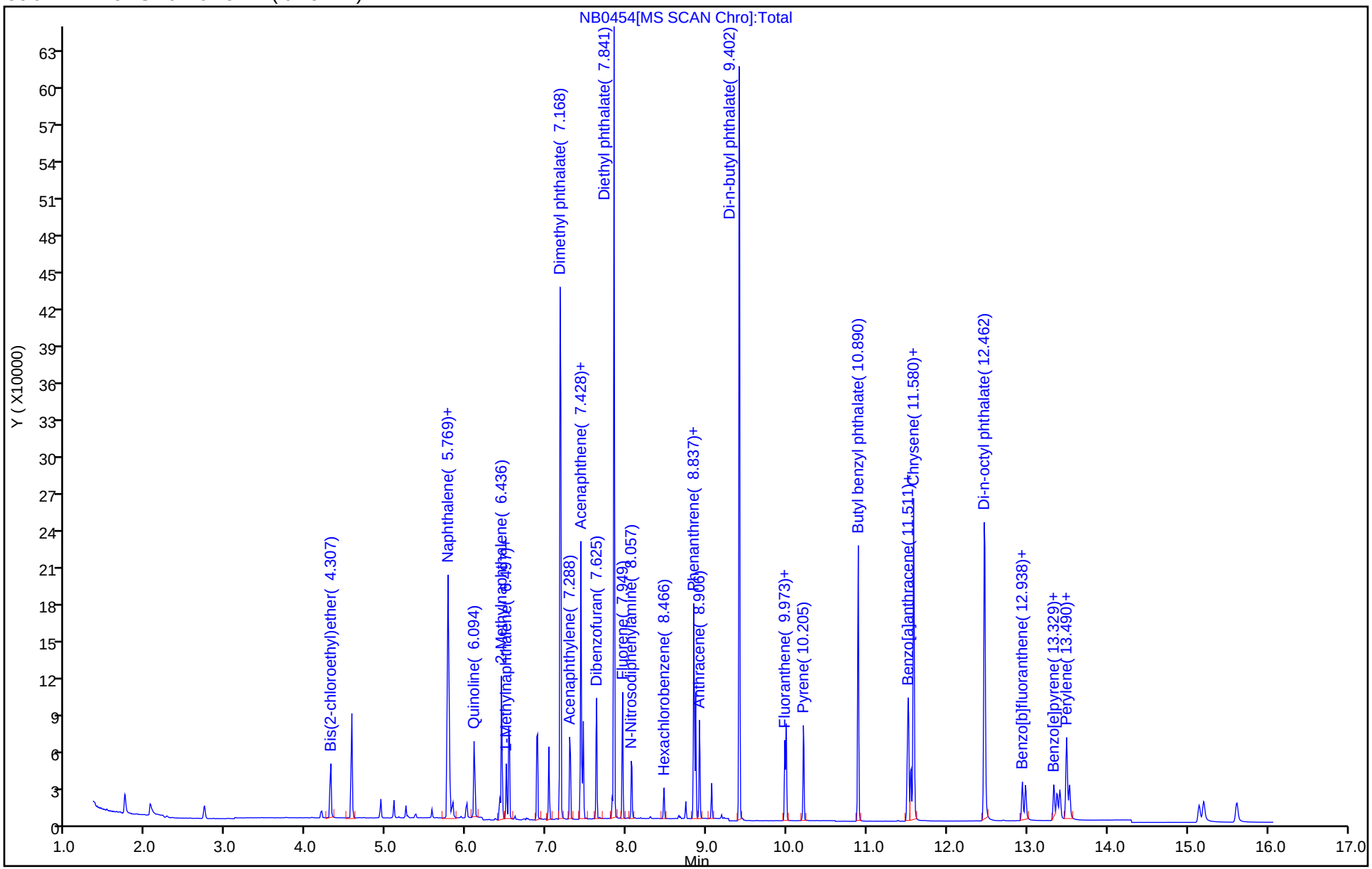
Report Date: 22-Feb-2023 03:33:42 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0454.D

Injection Date:	22-Feb-2023 00:19:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	IC L3			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

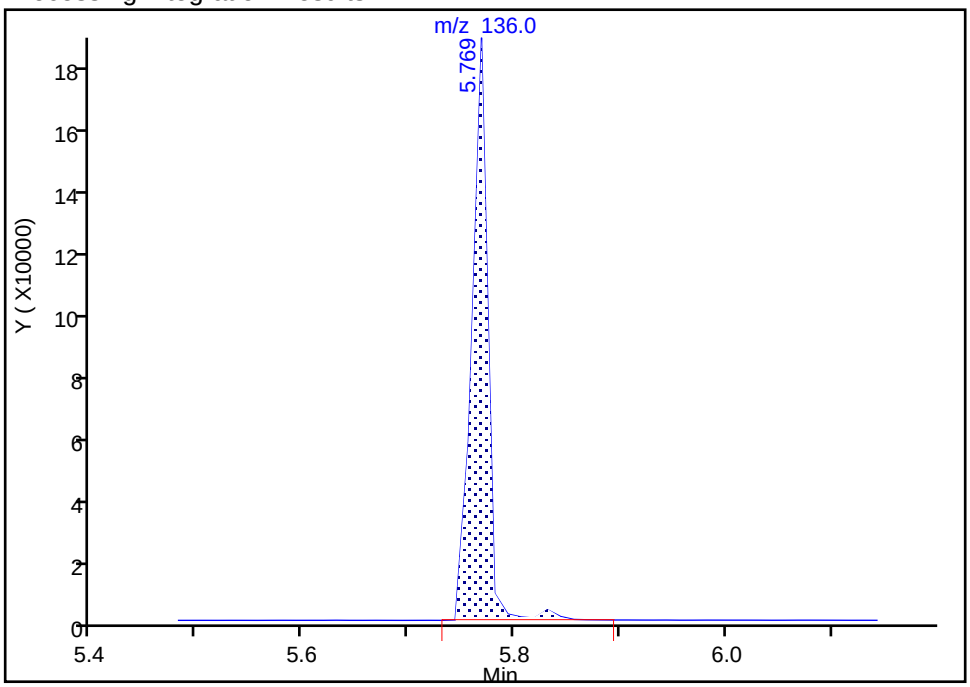
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0454.D				
Injection Date:	22-Feb-2023 00:19:30	Instrument ID:	HP23263		
Lims ID:	IC L3				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

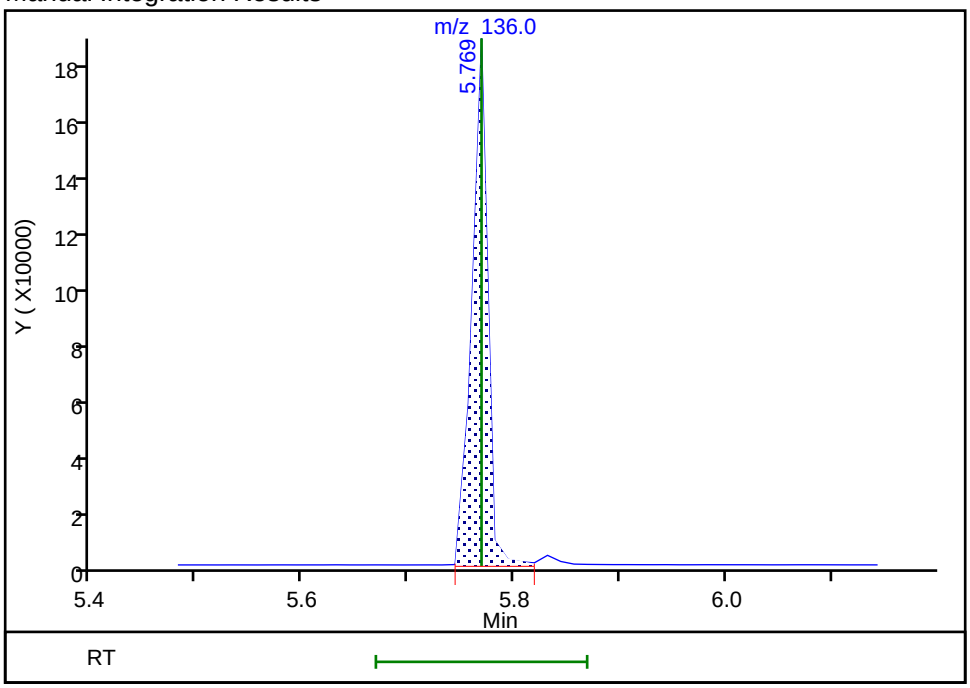
Processing Integration Results

RT: 5.77
Area: 195009
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.77
Area: 191695
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:19:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

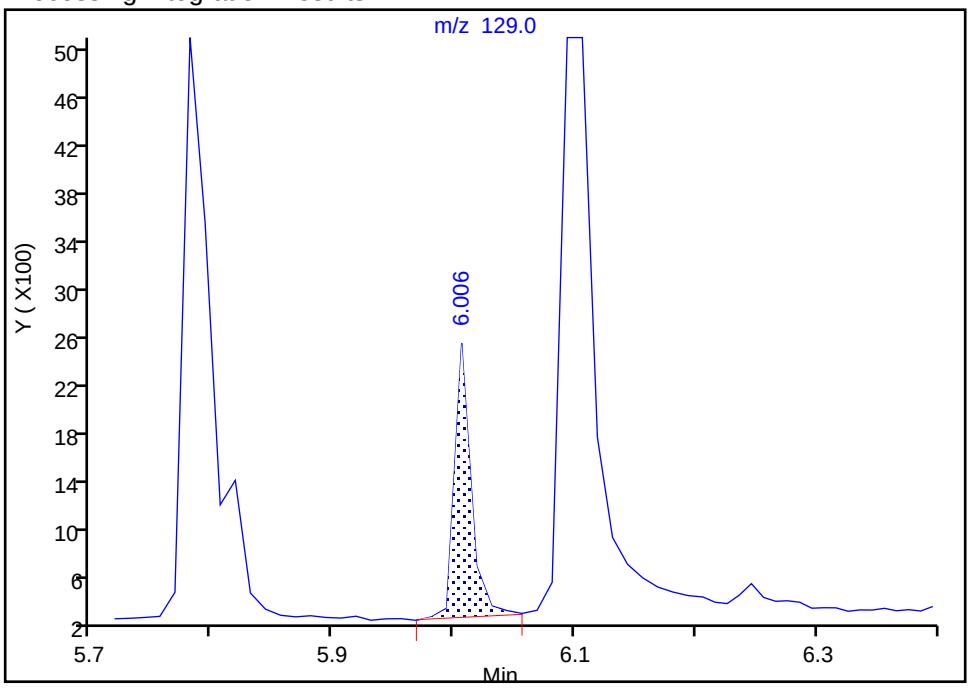
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0454.D				
Injection Date:	22-Feb-2023 00:19:30	Instrument ID:	HP23263		
Lims ID:	IC L3				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

7 Quinoline, CAS: 91-22-5

Signal: 1

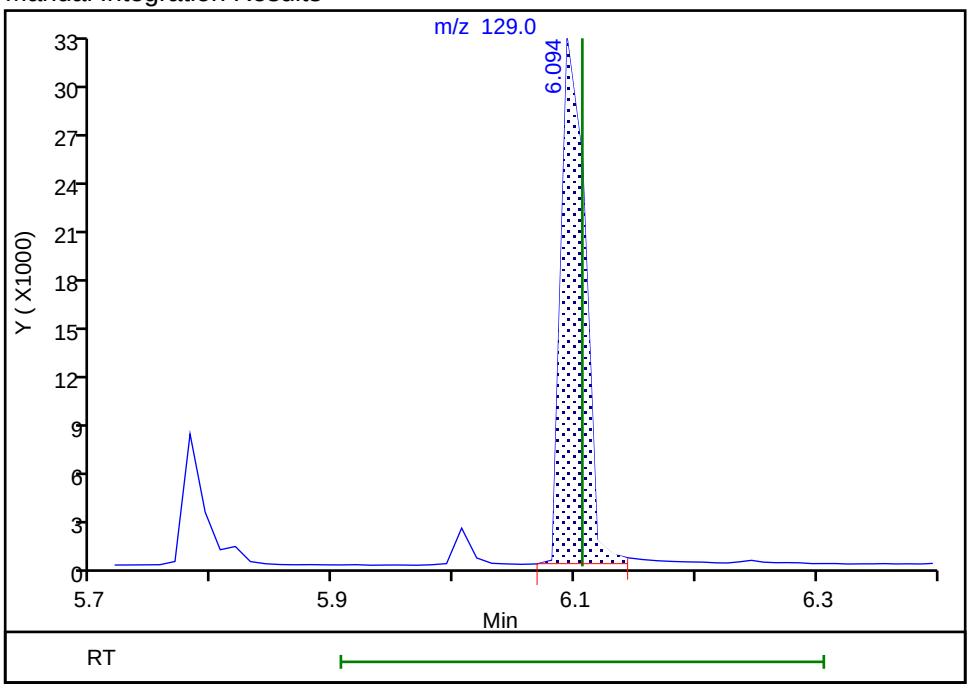
Processing Integration Results

RT: 6.01
Area: 2160
Amount: 0.006882
Amount Units: ug/ml



Manual Integration Results

RT: 6.09
Area: 44950
Amount: 0.098937
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:19:49

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0455.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Feb-2023 00:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0077517-006
Operator ID: kel10217 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:33:44 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: UJM0 Date: 22-Feb-2023 03:22:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.736	1.731	0.005	87	5830	0.0500	0.0480	M
2 N-Nitrosodimethylamine	74	2.060	2.038	0.022	78	6628	0.0500	0.0475	M
3 Bis(2-chloroethyl)ether	93	4.307	4.307	0.000	96	13992	0.0500	0.0500	
* 4 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	100	54767	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.769	5.769	0.000	100	189864	0.2500	0.2500	M
6 Naphthalene	128	5.781	5.781	0.000	99	44996	0.0500	0.0531	
7 Quinoline	129	6.094	6.106	-0.012	88	22483	0.0500	0.0500	M
8 2-Methylnaphthalene	142	6.439	6.439	0.000	97	25808	0.0500	0.0518	
$ 9 1-Methylnaphthalene-d10	152	6.499	6.499	0.000	98	16949	0.0500	0.0513	
10 1-Methylnaphthalene	142	6.529	6.529	0.000	94	21856	0.0500	0.0515	
11 Dimethyl phthalate	163	7.170	7.170	0.000	100	193589	0.5000	0.5399	
12 Acenaphthylene	152	7.290	7.290	0.000	99	30987	0.0500	0.0497	
* 13 Acenaphthene-d10	164	7.431	7.430	0.000	97	83037	0.2500	0.2500	
14 Acenaphthene	154	7.461	7.461	0.001	92	17697	0.0500	0.0480	
15 Dibenzofuran	168	7.625	7.625	0.000	97	28809	0.0500	0.0500	
16 Diethyl phthalate	149	7.841	7.841	0.000	100	181535	0.5000	0.5281	
17 Fluorene	166	7.949	7.949	0.000	100	20306	0.0500	0.0489	
18 N-Nitrosodiphenylamine	169	8.065	8.065	0.000	97	10993	0.0500	0.0492	
19 Hexachlorobenzene	284	8.467	8.466	0.001	93	6896	0.0500	0.0500	
* 20 Phenanthrene-d10	188	8.837	8.837	0.000	99	129151	0.2500	0.2500	
21 Phenanthrene	178	8.860	8.860	0.000	100	29417	0.0500	0.0494	
22 Anthracene	178	8.907	8.914	-0.007	99	25312	0.0500	0.0483	
23 Di-n-butyl phthalate	149	9.408	9.407	0.001	100	240629	0.5000	0.4790	
$ 24 Fluoranthene-d10 (Surr)	212	9.972	9.972	0.000	99	20840	0.0500	0.0499	
25 Fluoranthene	202	9.991	9.990	0.001	100	26242	0.0500	0.0504	
26 Pyrene	202	10.210	10.210	0.000	97	26479	0.0500	0.0490	
27 Butyl benzyl phthalate	149	10.889	10.889	0.000	100	76291	0.5000	0.4606	
28 Benzo[a]anthracene	228	11.502	11.502	0.000	98	18466	0.0500	0.0461	
* 29 Chrysene-d12	240	11.518	11.517	0.001	83	78928	0.2500	0.2500	
30 Chrysene	228	11.548	11.548	0.000	100	19543	0.0500	0.0485	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.579	11.579	0.000	98	88674	0.5000	0.4358	
32 Di-n-octyl phthalate	149	12.469	12.468	0.001	100	130389	0.5000	0.4445	
33 Benzo[b]fluoranthene	252	12.936	12.936	0.000	100	15135	0.0500	0.0479	
34 Benzo[k]fluoranthene	252	12.982	12.982	0.000	100	18509	0.0500	0.0526	
35 Benzo[e]pyrene	252	13.335	13.335	0.000	100	16165	0.0500	0.0497	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.374	13.373	0.001	99	10887	0.0500	0.0486	
37 Benzo[a]pyrene	252	13.404	13.412	-0.008	100	14671	0.0500	0.0498	
* 38 Perylene-d12	264	13.496	13.496	0.000	96	66751	0.2500	0.2500	
39 Perylene	252	13.527	13.527	0.000	99	15287	0.0500	0.0495	
40 Indeno[1,2,3-cd]pyrene	276	15.143	15.150	-0.007	98	10353	0.0500	0.0463	
41 Dibenz(a,h)anthracene	278	15.206	15.206	0.000	98	10753	0.0500	0.0452	
42 Benzo[g,h,i]perylene	276	15.616	15.616	0.000	100	13106	0.0500	0.0458	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00020 Amount Added: 1.00 Units: mL

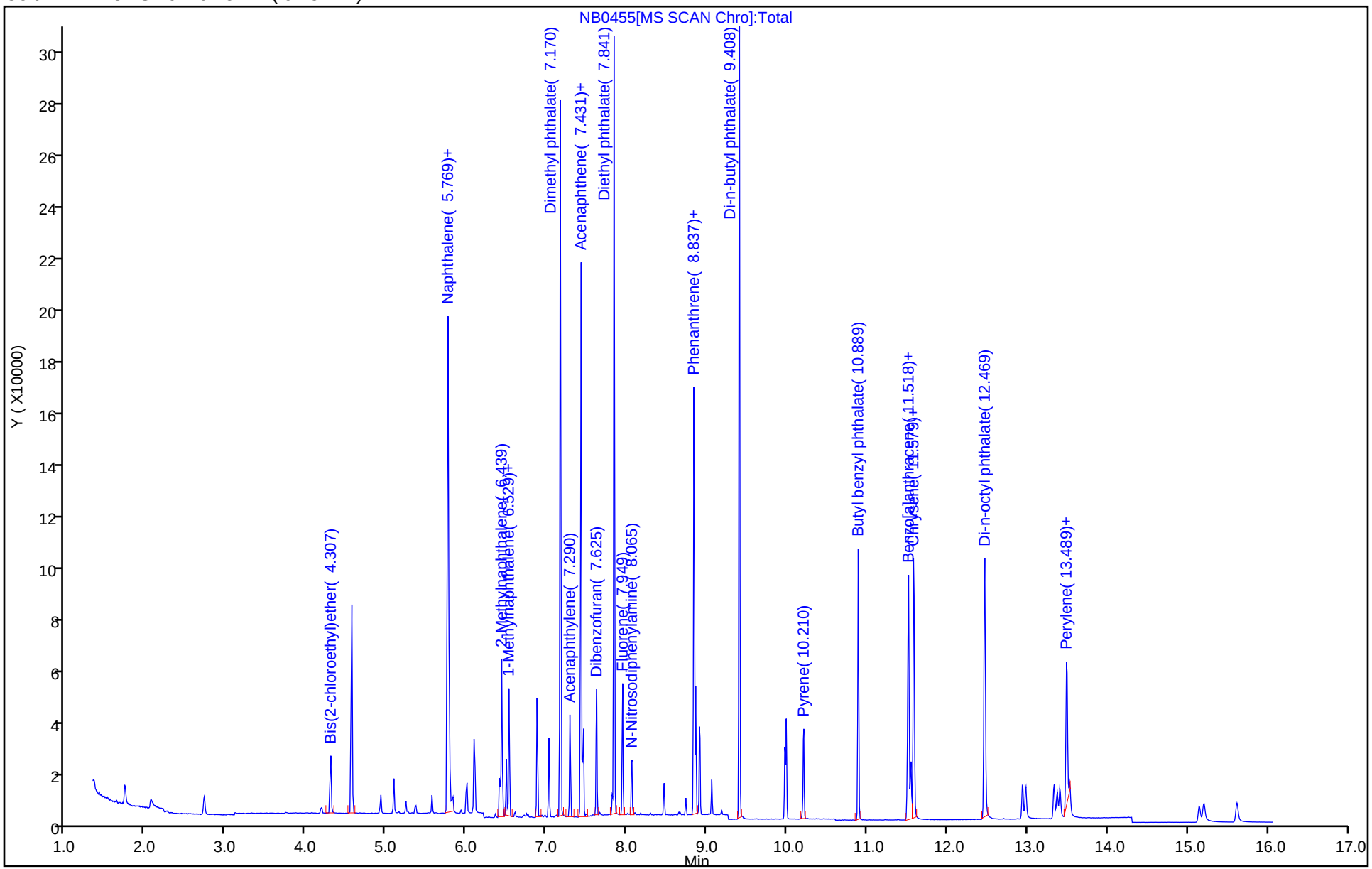
Report Date: 22-Feb-2023 03:33:44 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0455.D

Injection Date:	22-Feb-2023 00:40:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	IC L2			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

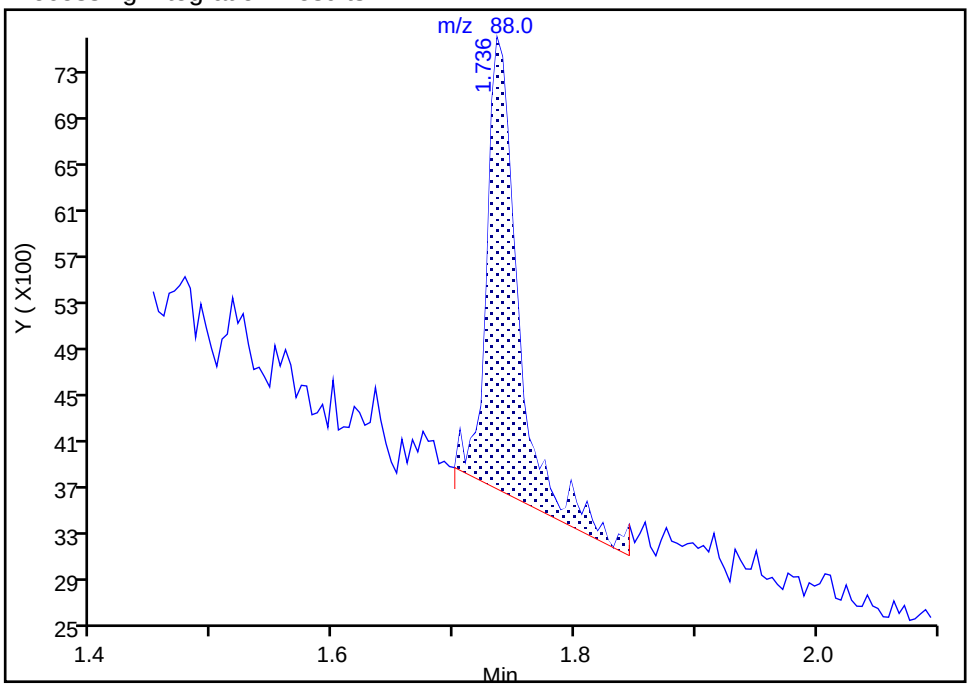
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0455.D				
Injection Date:	22-Feb-2023 00:40:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

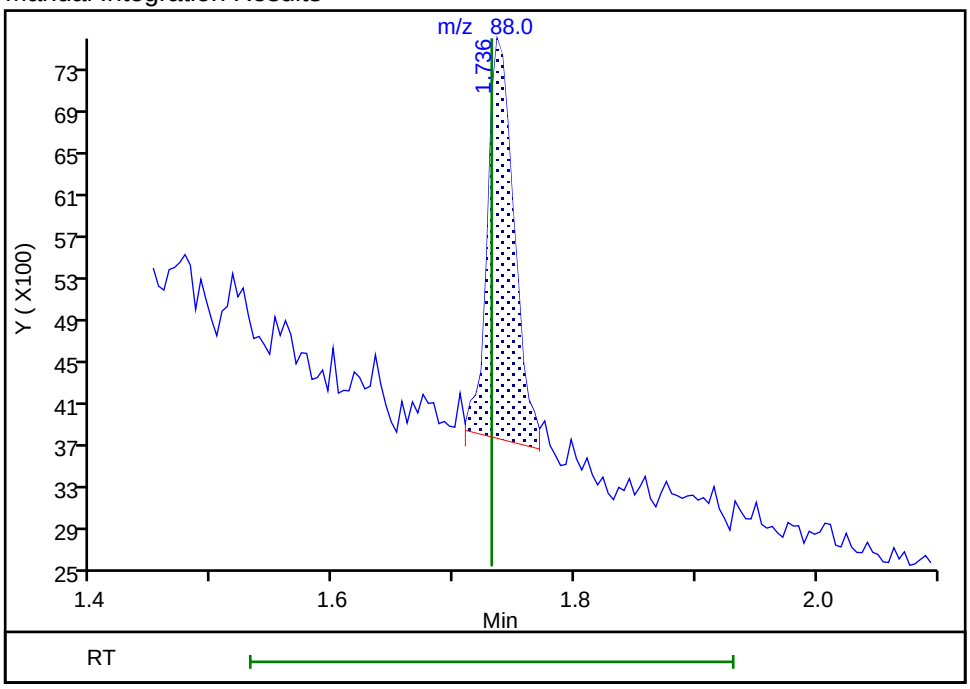
Processing Integration Results

RT: 1.74
Area: 7053
Amount: 0.052534
Amount Units: ug/ml



Manual Integration Results

RT: 1.74
Area: 5830
Amount: 0.047986
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:21:10
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

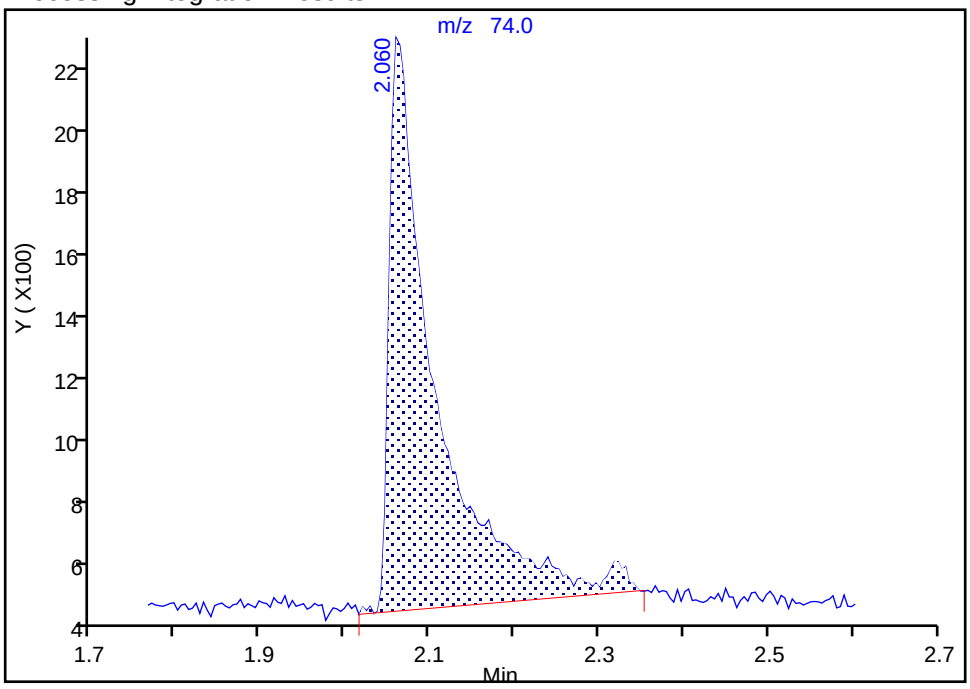
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0455.D				
Injection Date:	22-Feb-2023 00:40:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

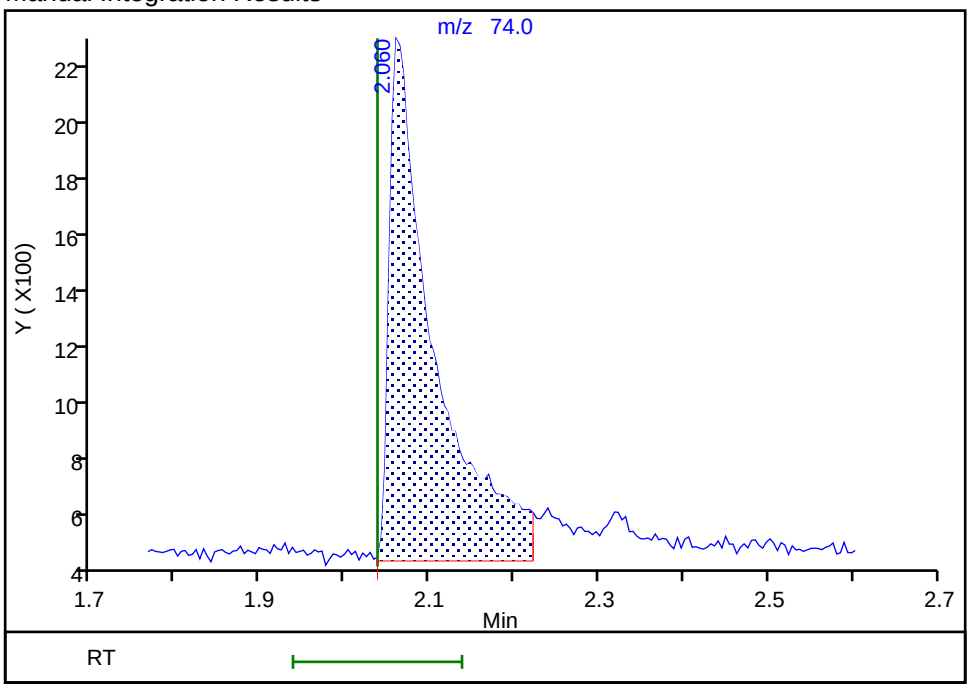
Processing Integration Results

RT: 2.06
Area: 6814
Amount: 0.049271
Amount Units: ug/ml



Manual Integration Results

RT: 2.06
Area: 6628
Amount: 0.047538
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:21:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

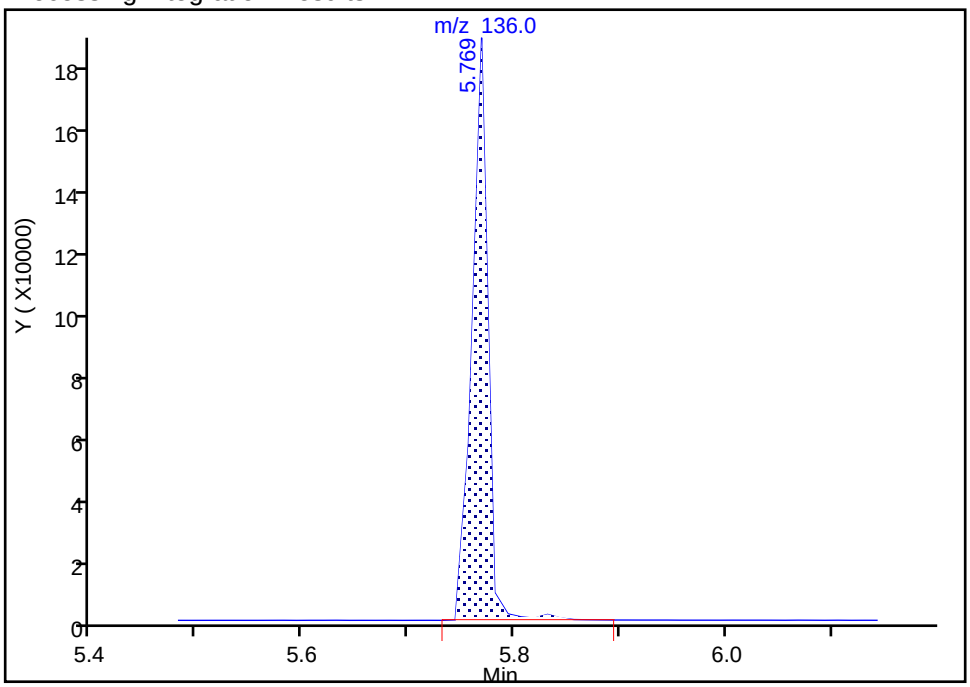
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0455.D				
Injection Date:	22-Feb-2023 00:40:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

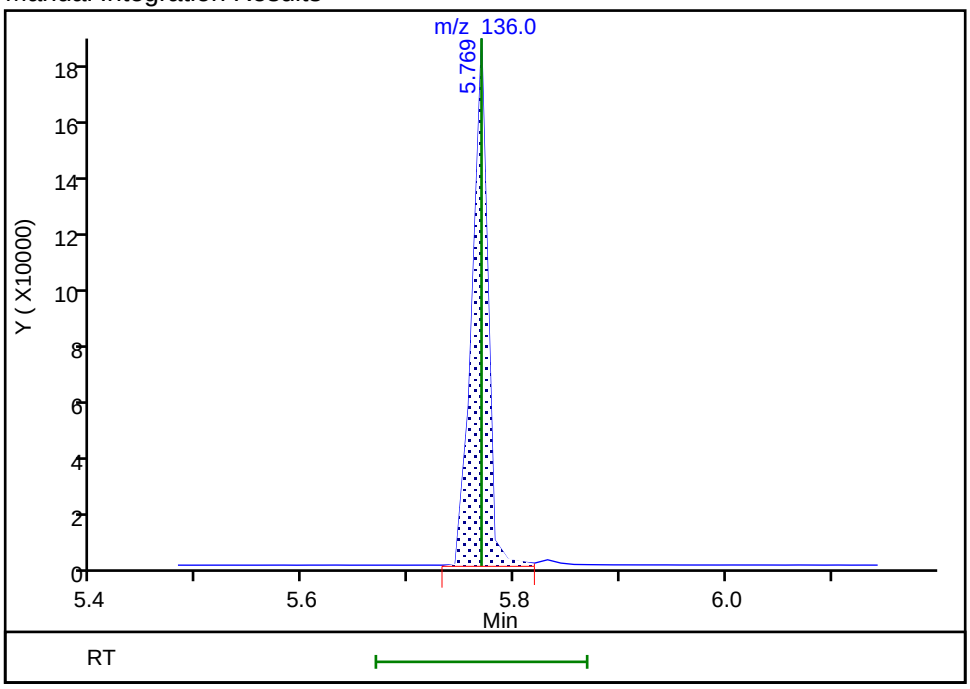
Processing Integration Results

RT: 5.77
Area: 191933
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.77
Area: 189864
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:21:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

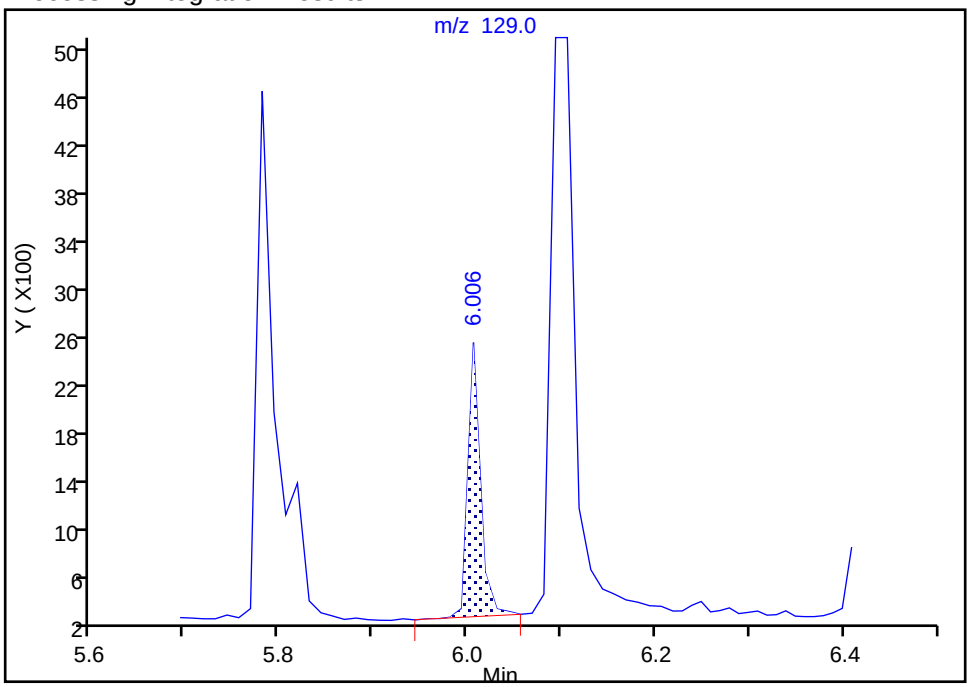
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0455.D				
Injection Date:	22-Feb-2023 00:40:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

7 Quinoline, CAS: 91-22-5

Signal: 1

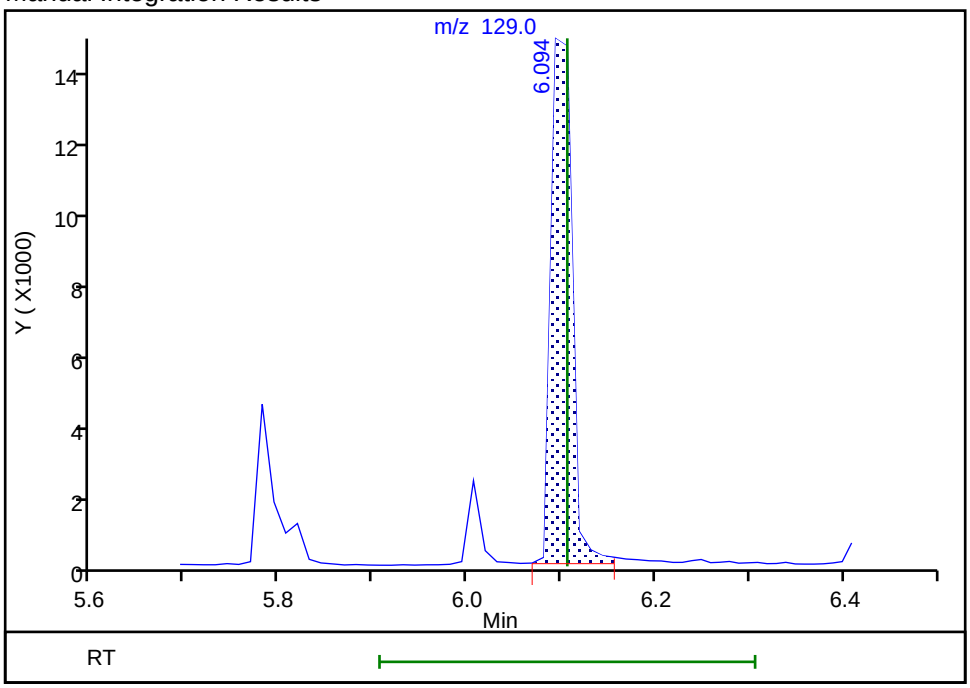
Processing Integration Results

RT: 6.01
Area: 2105
Amount: 0.005458
Amount Units: ug/ml



Manual Integration Results

RT: 6.09
Area: 22483
Amount: 0.049964
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:21:31
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Feb-2023 01:02:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0077517-007
Operator ID: kel10217 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:33:47 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: UJM0 Date: 22-Feb-2023 03:25:09

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.744	1.744	0.000	92	1371	0.0100	0.0108	M
	2 N-Nitrosodimethylamine	74	2.082	2.082	0.000	96	1104	0.0100	0.007572	M
	3 Bis(2-chloroethyl)ether	93	4.307	4.307	0.000	95	3191	0.0100	0.0110	
*	4 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	100	57272	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.769	5.769	0.000	100	197507	0.2500	0.2500	M
	6 Naphthalene	128	5.781	5.781	0.000	98	16111	0.0100	0.009804	
	7 Quinoline	129	6.106	6.106	0.000	95	6310	0.0100	0.0135	
	8 2-Methylnaphthalene	142	6.439	6.439	0.000	97	7020	0.0100	0.0136	
$	9 1-Methylnaphthalene-d10	152	6.499	6.499	0.000	98	3942	0.0100	0.0115	
	10 1-Methylnaphthalene	142	6.529	6.529	0.000	92	5497	0.0100	0.0124	
	11 Dimethyl phthalate	163	7.170	7.170	0.000	100	99203	0.2500	0.2671	
	12 Acenaphthylene	152	7.290	7.290	0.000	100	7282	0.0100	0.0113	
*	13 Acenaphthene-d10	164	7.431	7.431	0.000	99	86006	0.2500	0.2500	
	14 Acenaphthene	154	7.461	7.461	0.000	69	4714	0.0100	0.0124	
	15 Dibenzofuran	168	7.625	7.625	0.000	98	7326	0.0100	0.0123	
	16 Diethyl phthalate	149	7.841	7.841	0.000	100	91346	0.2500	0.2566	
	17 Fluorene	166	7.949	7.949	0.000	100	5254	0.0100	0.0122	
	18 N-Nitrosodiphenylamine	169	8.065	8.065	0.000	96	2608	0.0100	0.0117	
	19 Hexachlorobenzene	284	8.467	8.467	0.000	93	1644	0.0100	0.0120	
*	20 Phenanthrene-d10	188	8.837	8.837	0.000	99	128401	0.2500	0.2500	
	21 Phenanthrene	178	8.860	8.860	0.000	100	8790	0.0100	0.0100	
	22 Anthracene	178	8.907	8.907	0.000	99	6051	0.0100	0.0116	
	23 Di-n-butyl phthalate	149	9.408	9.408	0.000	100	166855	0.2500	0.3341	
$	24 Fluoranthene-d10 (Surr)	212	9.972	9.972	0.000	99	4601	0.0100	0.0111	
	25 Fluoranthene	202	9.991	9.991	0.000	99	6616	0.0100	0.0128	
	26 Pyrene	202	10.210	10.210	0.000	97	6549	0.0100	0.0128	
	27 Butyl benzyl phthalate	149	10.889	10.889	0.000	100	31812	0.2500	0.2032	
	28 Benzo[a]anthracene	228	11.502	11.502	0.000	47	4277	0.0100	0.0113	M
*	29 Chrysene-d12	240	11.518	11.518	0.000	81	74605	0.2500	0.2500	M
	30 Chrysene	228	11.548	11.548	0.000	100	4238	0.0100	0.0111	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.579	11.579	0.000	99	39066	0.2500	0.2031	
32 Di-n-octyl phthalate	149	12.469	12.469	0.000	100	54035	0.2500	0.1959	
33 Benzo[b]fluoranthene	252	12.936	12.936	0.000	99	3211	0.0100	0.0108	
34 Benzo[k]fluoranthene	252	12.975	12.975	0.000	100	3613	0.0100	0.0109	M
35 Benzo[e]pyrene	252	13.328	13.328	0.000	100	3389	0.0100	0.0111	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.374	13.374	0.000	98	2143	0.0100	0.0102	
37 Benzo[a]pyrene	252	13.404	13.404	0.000	100	2827	0.0100	0.0102	
* 38 Perylene-d12	264	13.489	13.489	0.000	98	62765	0.2500	0.2500	
39 Perylene	252	13.527	13.527	0.000	100	2990	0.0100	0.0103	
40 Indeno[1,2,3-cd]pyrene	276	15.143	15.143	0.000	98	2131	0.0100	0.0101	M
41 Dibenz(a,h)anthracene	278	15.206	15.206	0.000	97	2080	0.0100	0.009298	M
42 Benzo[g,h,i]perylene	276	15.616	15.616	0.000	99	2921	0.0100	0.0108	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00020 Amount Added: 1.00 Units: mL

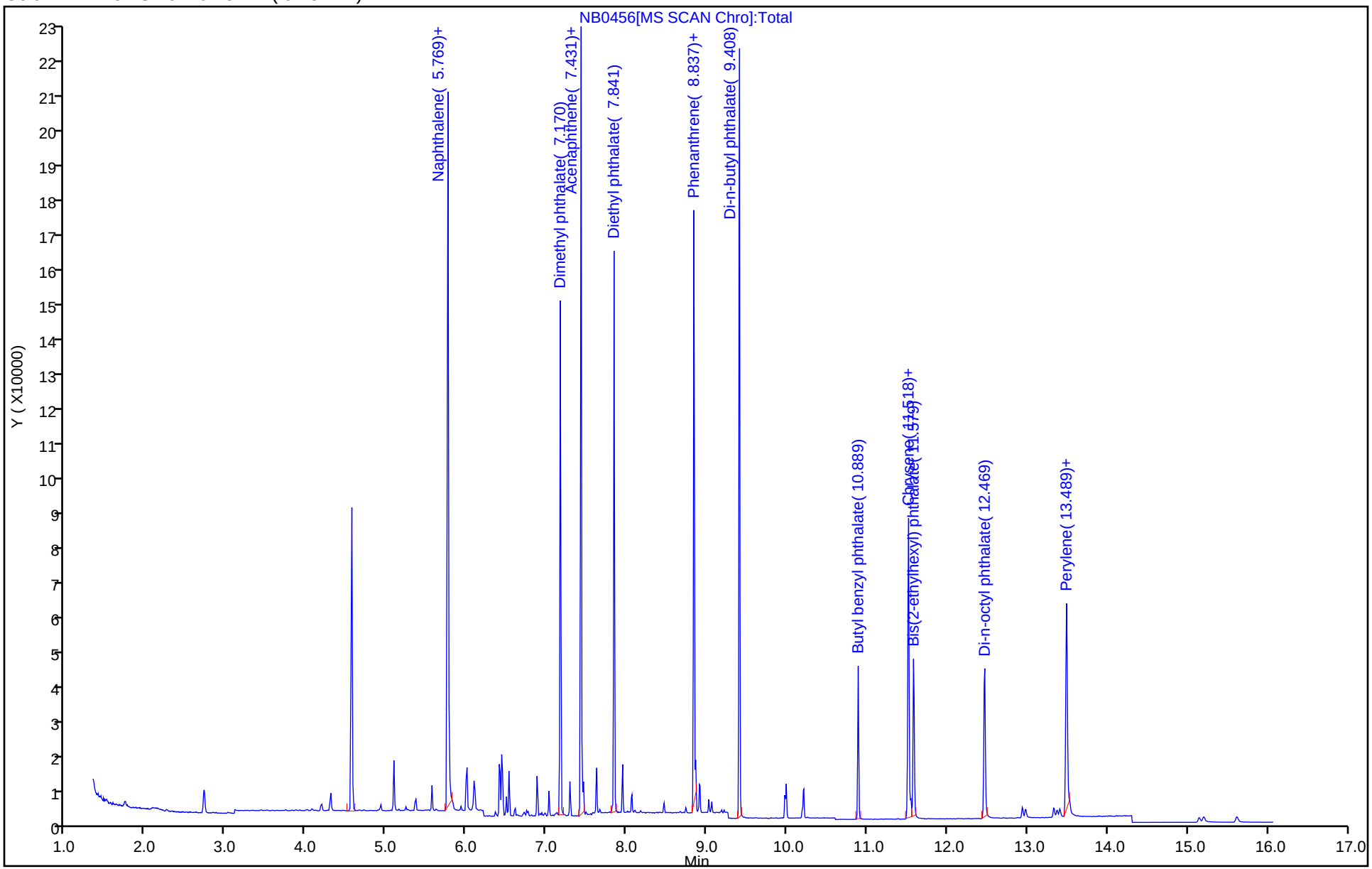
Report Date: 22-Feb-2023 03:33:47 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	IC L1			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

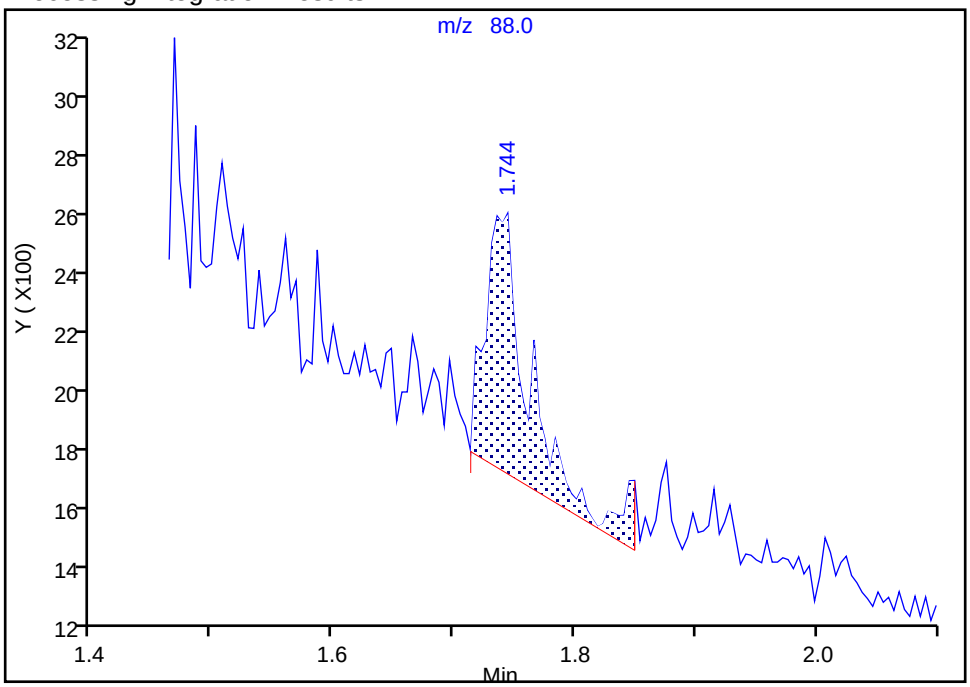
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

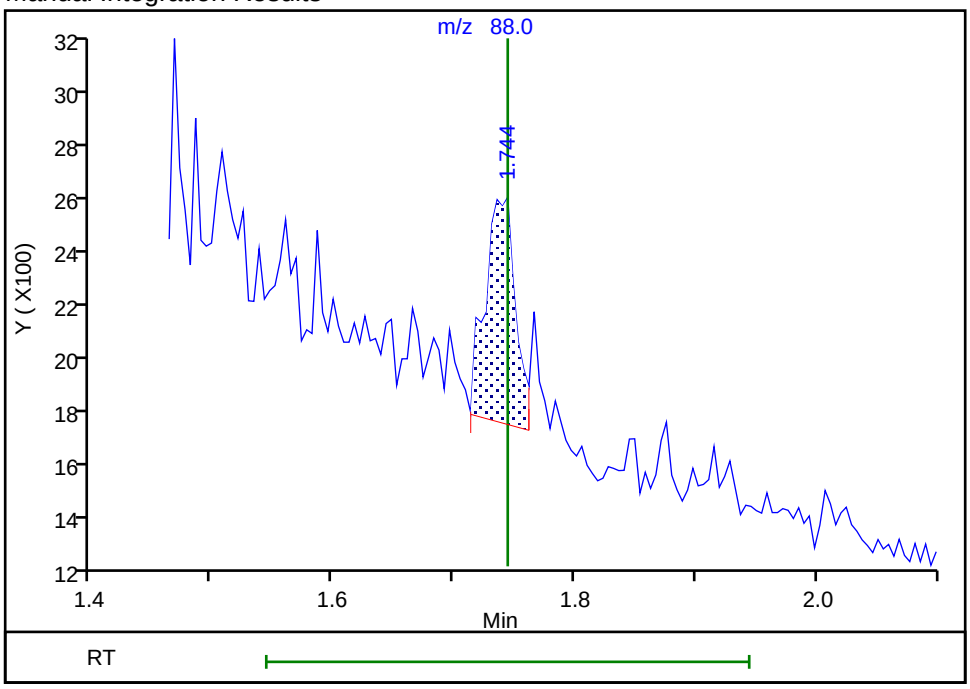
Processing Integration Results

RT: 1.74
Area: 2079
Amount: 0.010198
Amount Units: ug/ml



Manual Integration Results

RT: 1.74
Area: 1371
Amount: 0.010791
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:22:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

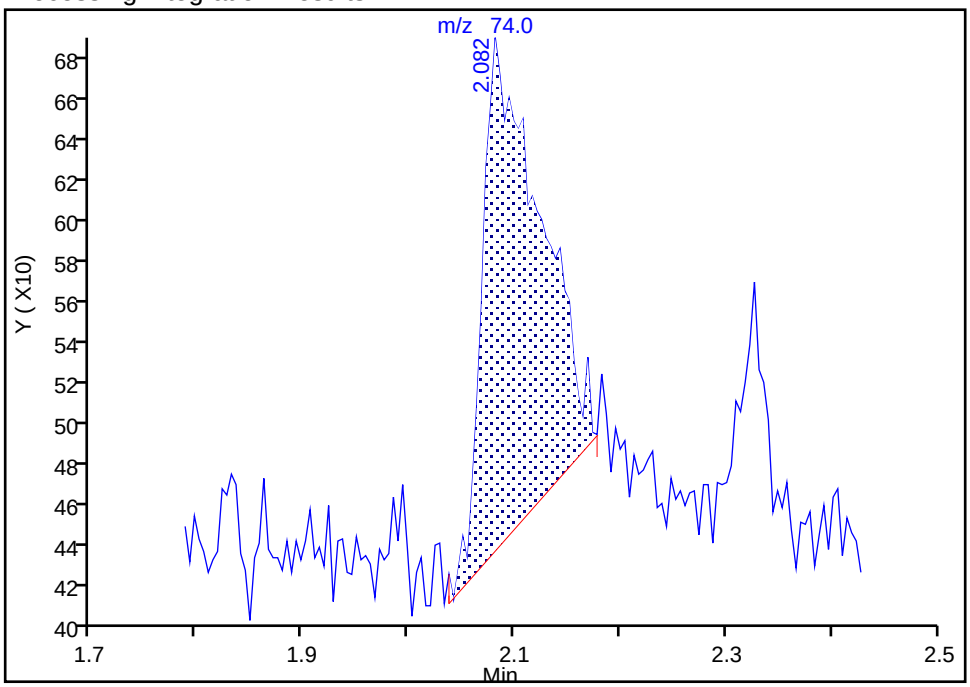
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

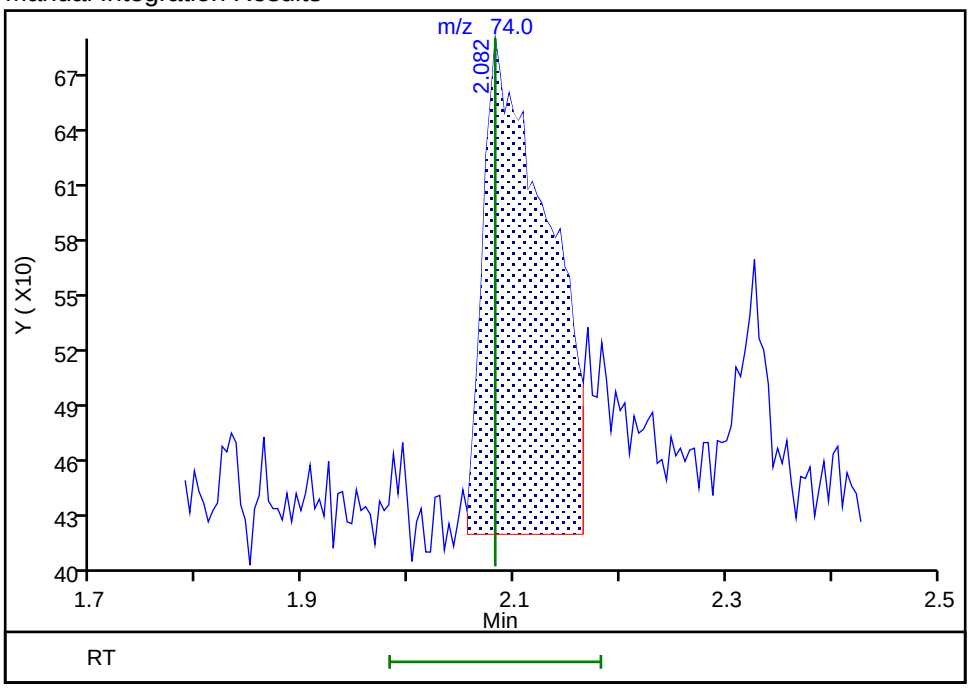
Processing Integration Results

RT: 2.08
Area: 915
Amount: 0.010108
Amount Units: ug/ml



Manual Integration Results

RT: 2.08
Area: 1104
Amount: 0.007572
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:22:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

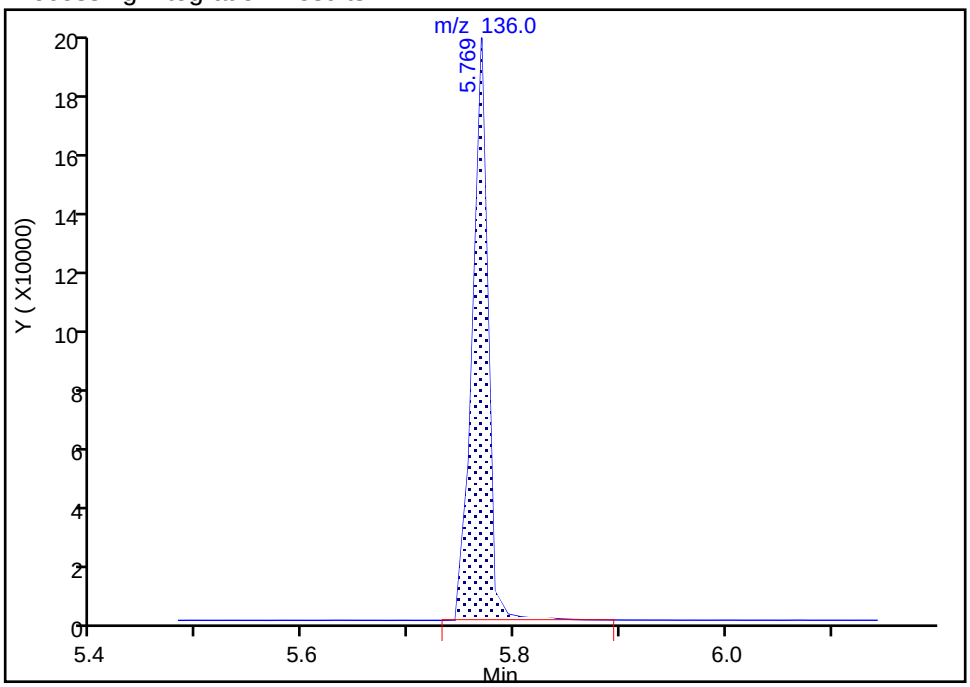
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

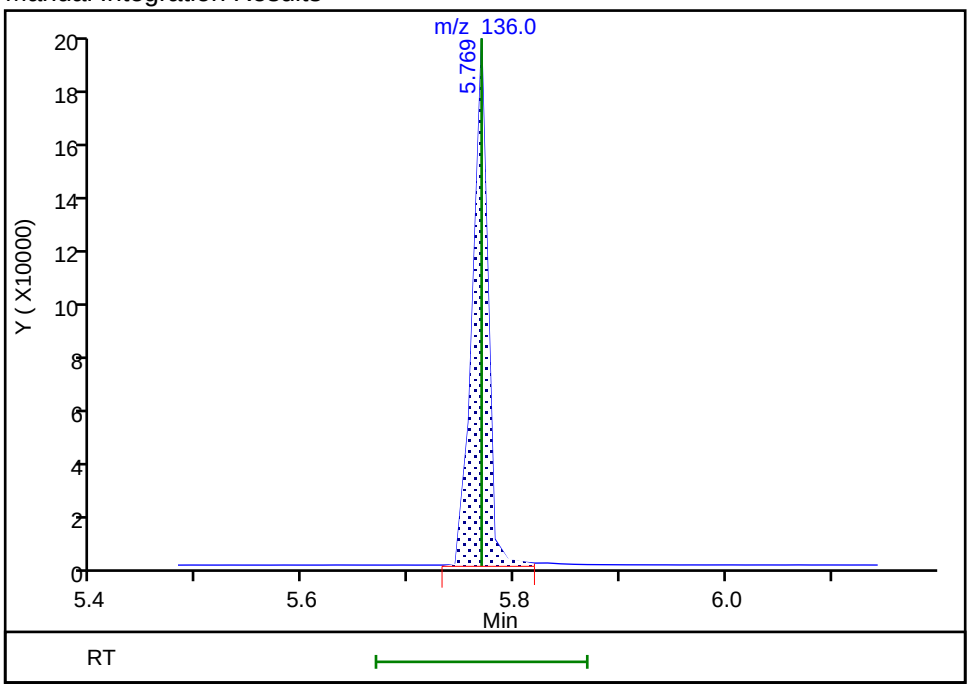
Processing Integration Results

RT: 5.77
Area: 198430
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.77
Area: 197507
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:22:37

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

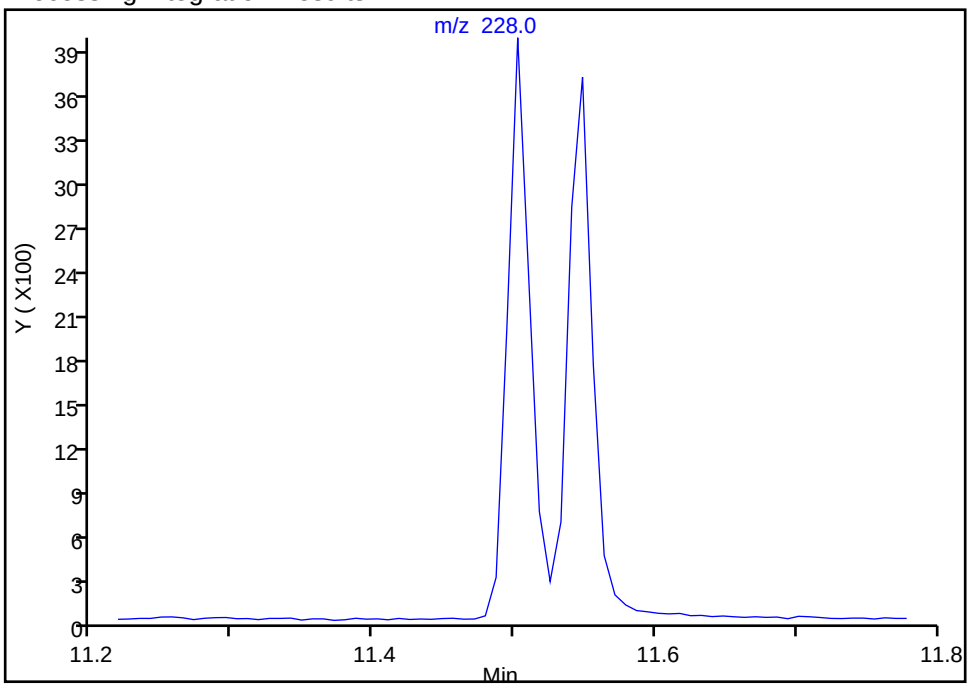
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

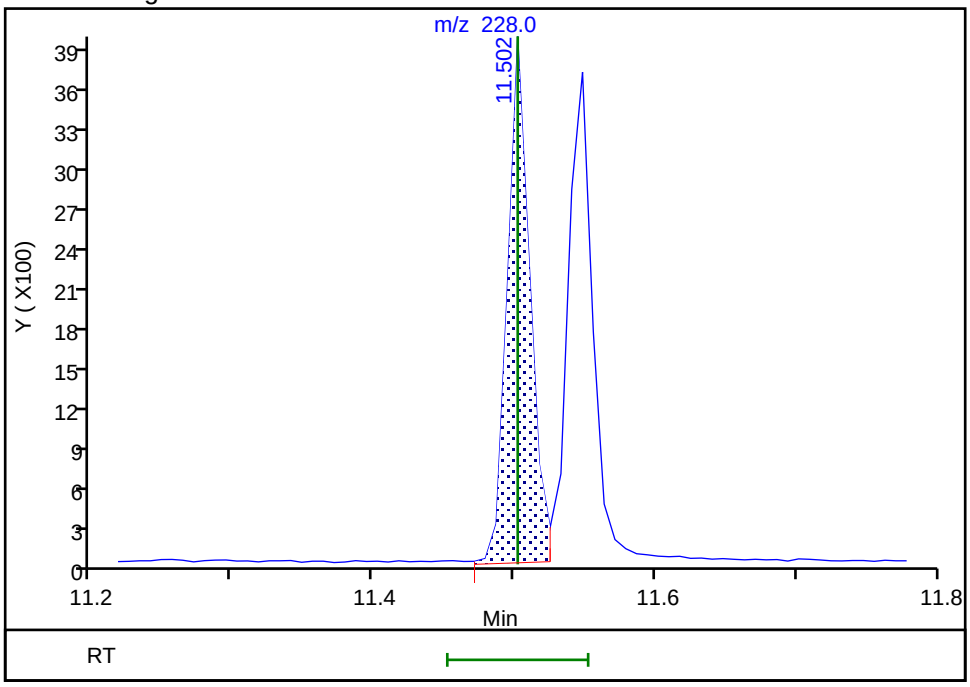
Not Detected
Expected RT: 11.50

Processing Integration Results



Manual Integration Results

RT: 11.50
Area: 4277
Amount: 0.011302
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:22:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

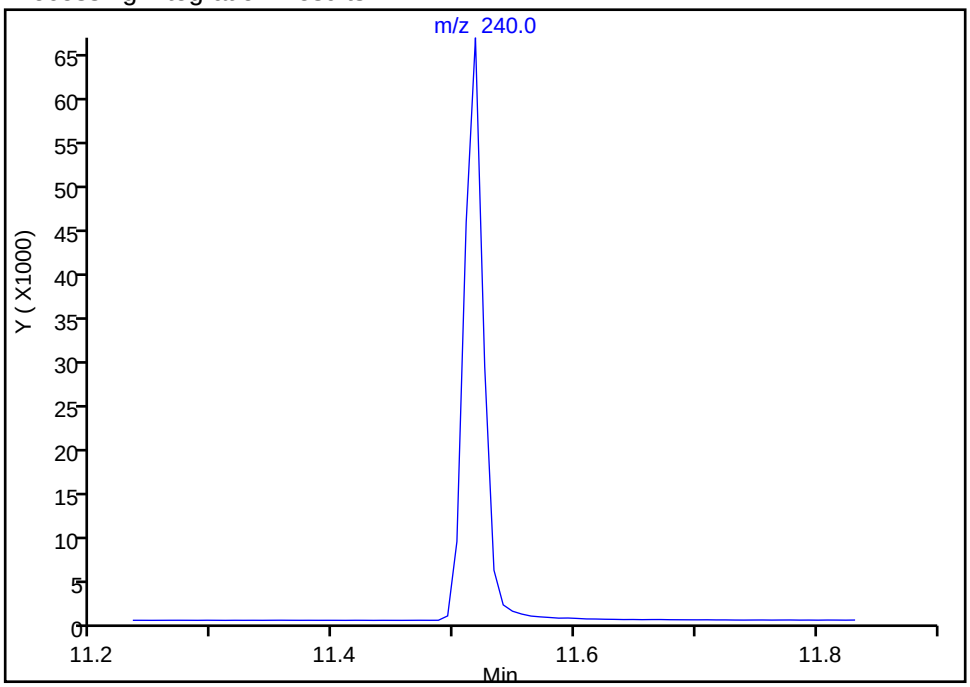
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 29 Chrysene-d12, CAS: 1719-03-5

Signal: 1

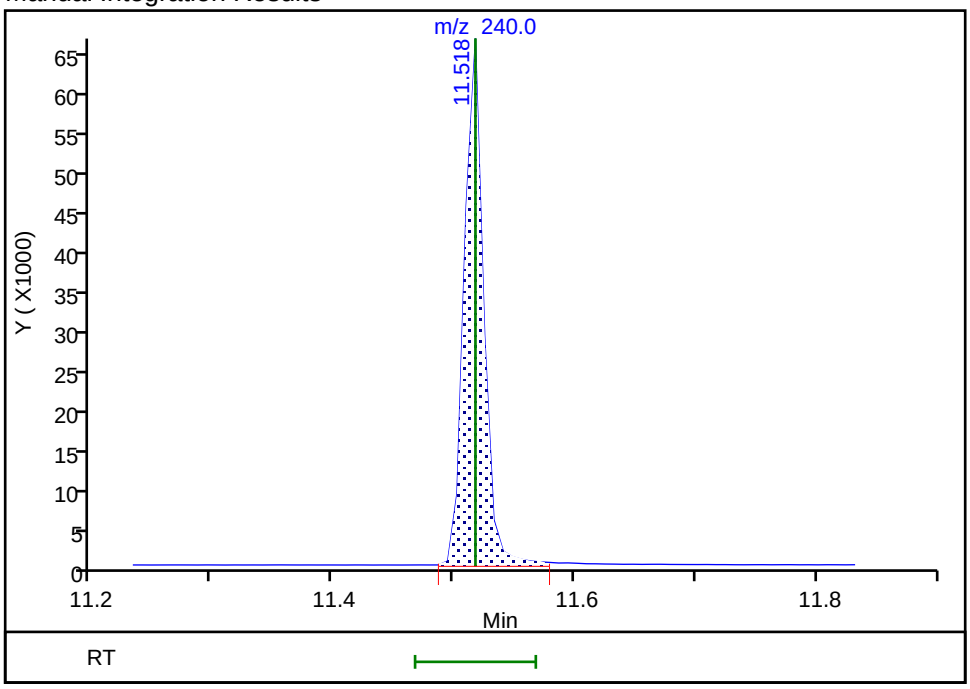
Not Detected
Expected RT: 11.52

Processing Integration Results



Manual Integration Results

RT: 11.52
Area: 74605
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:23:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

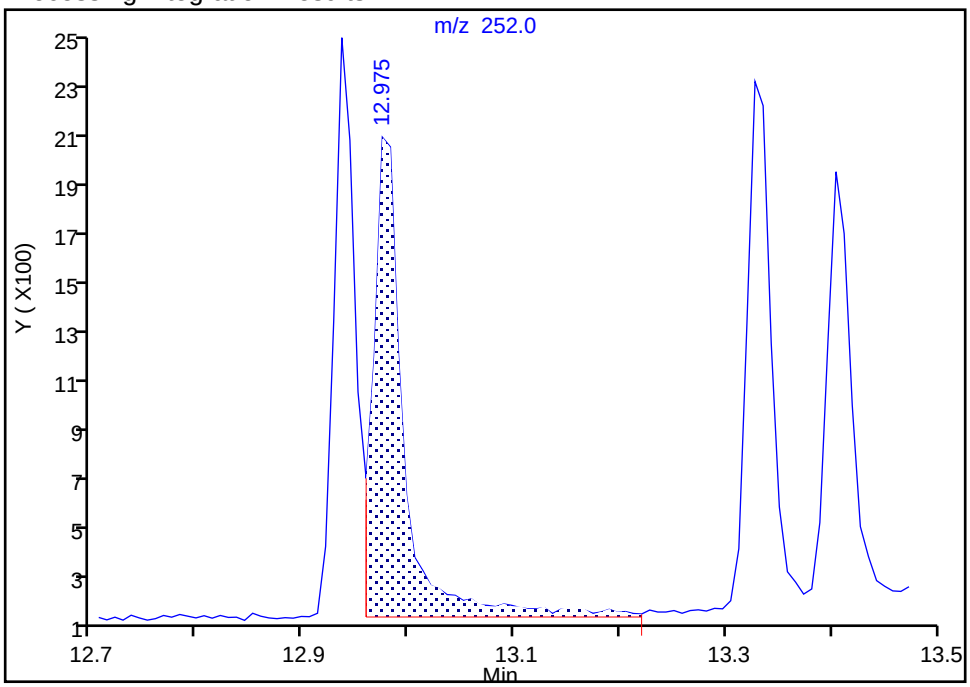
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

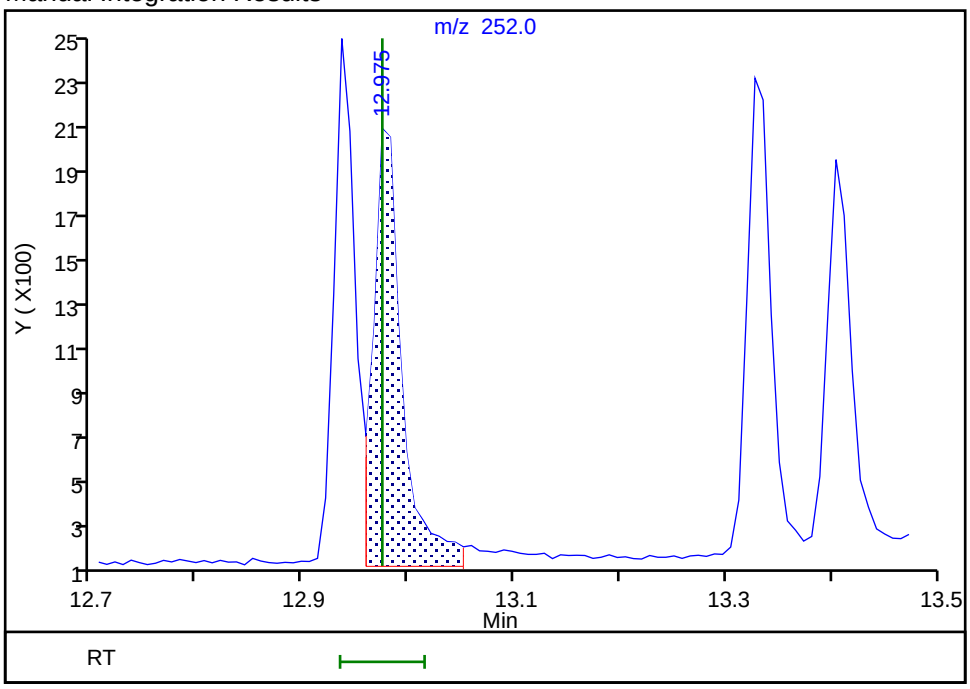
Processing Integration Results

RT: 12.97
Area: 3875
Amount: 0.011568
Amount Units: ug/ml



Manual Integration Results

RT: 12.97
Area: 3613
Amount: 0.010928
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:23:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

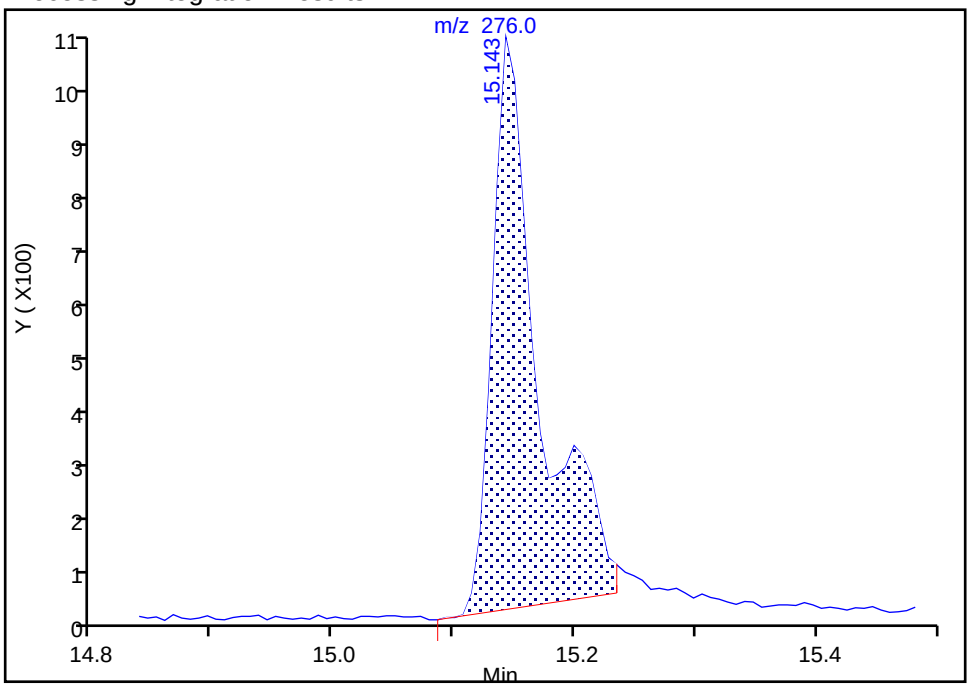
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

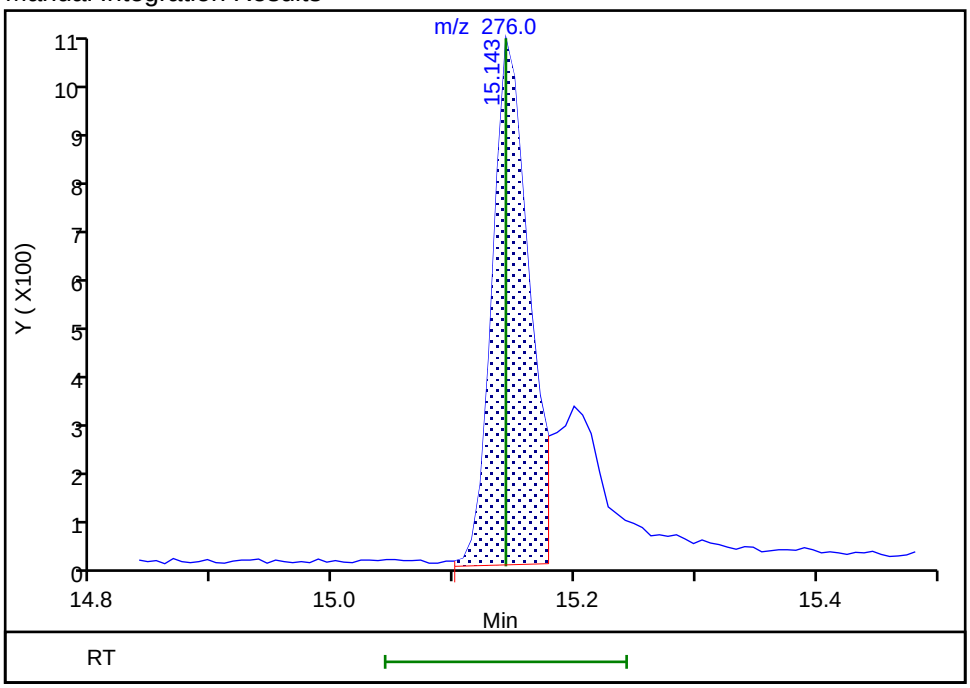
Processing Integration Results

RT: 15.14
Area: 2676
Amount: 0.012208
Amount Units: ug/ml



Manual Integration Results

RT: 15.14
Area: 2131
Amount: 0.010142
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:23:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

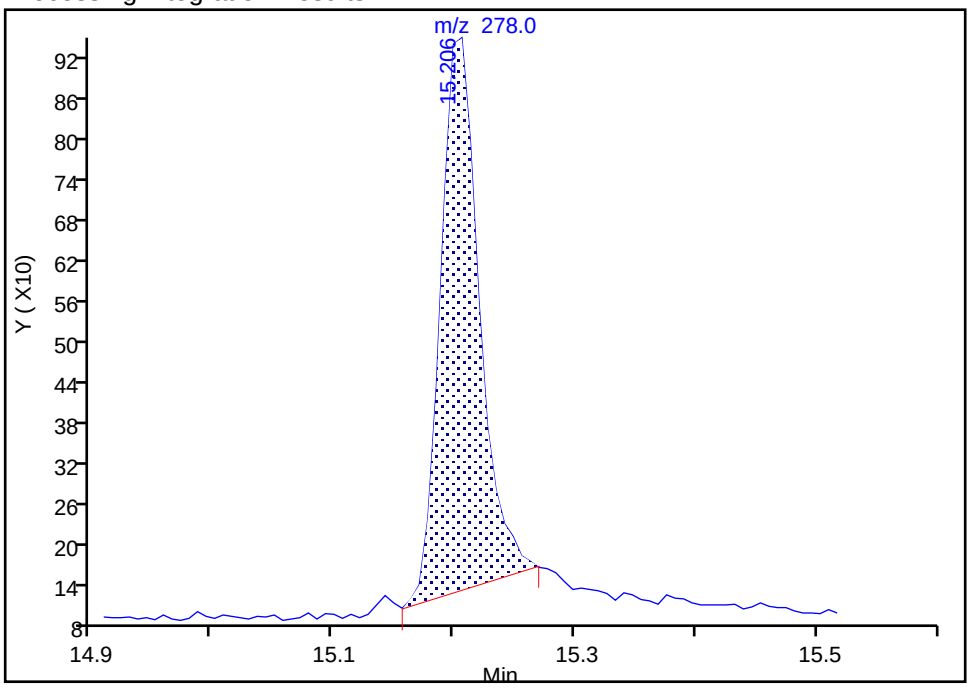
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

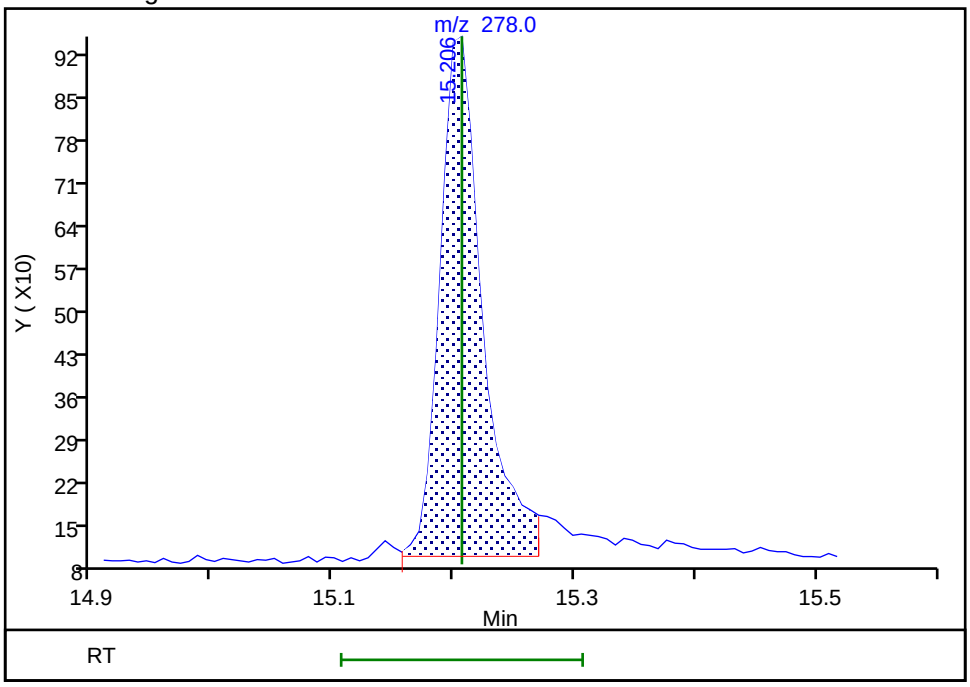
Processing Integration Results

RT: 15.21
Area: 1839
Amount: 0.008371
Amount Units: ug/ml



Manual Integration Results

RT: 15.21
Area: 2080
Amount: 0.009298
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:23:35

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

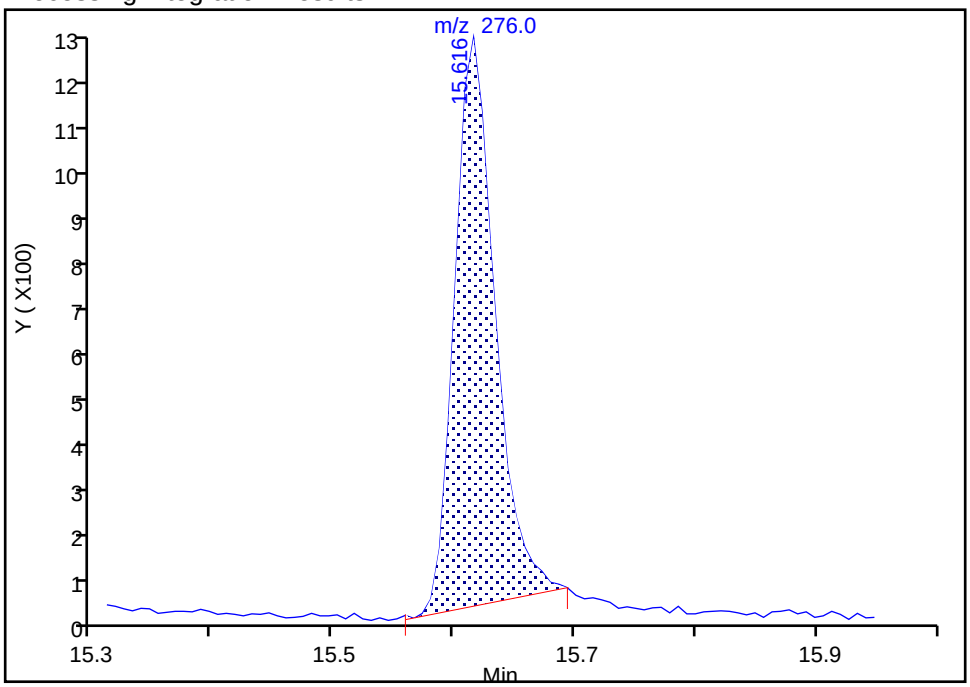
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D				
Injection Date:	22-Feb-2023 01:02:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

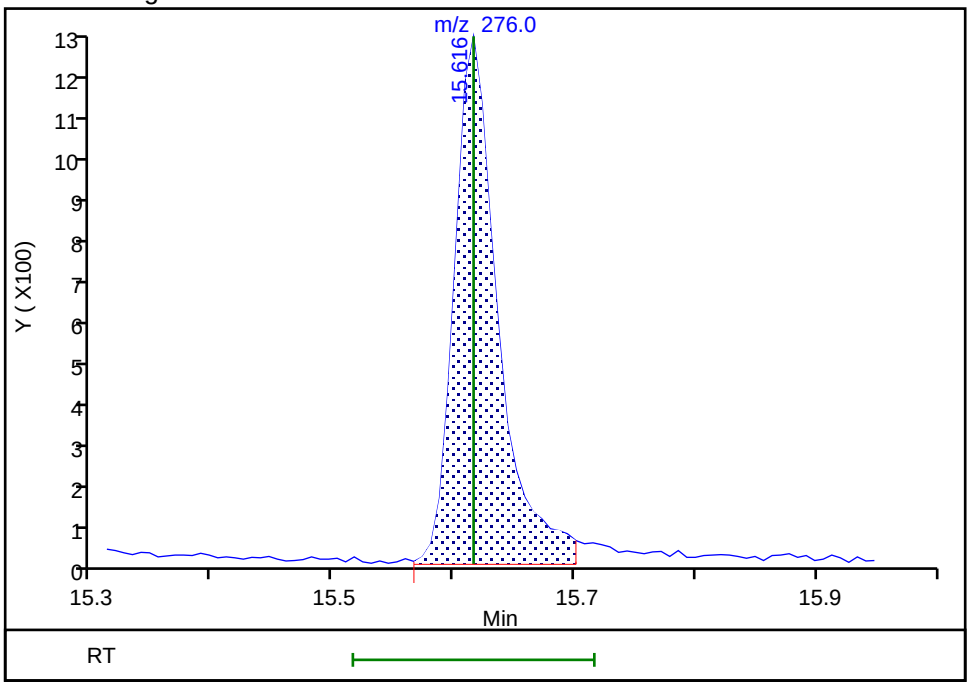
Processing Integration Results

RT: 15.62
Area: 2638
Amount: 0.009972
Amount Units: ug/ml



Manual Integration Results

RT: 15.62
Area: 2921
Amount: 0.010848
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:23:42

Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

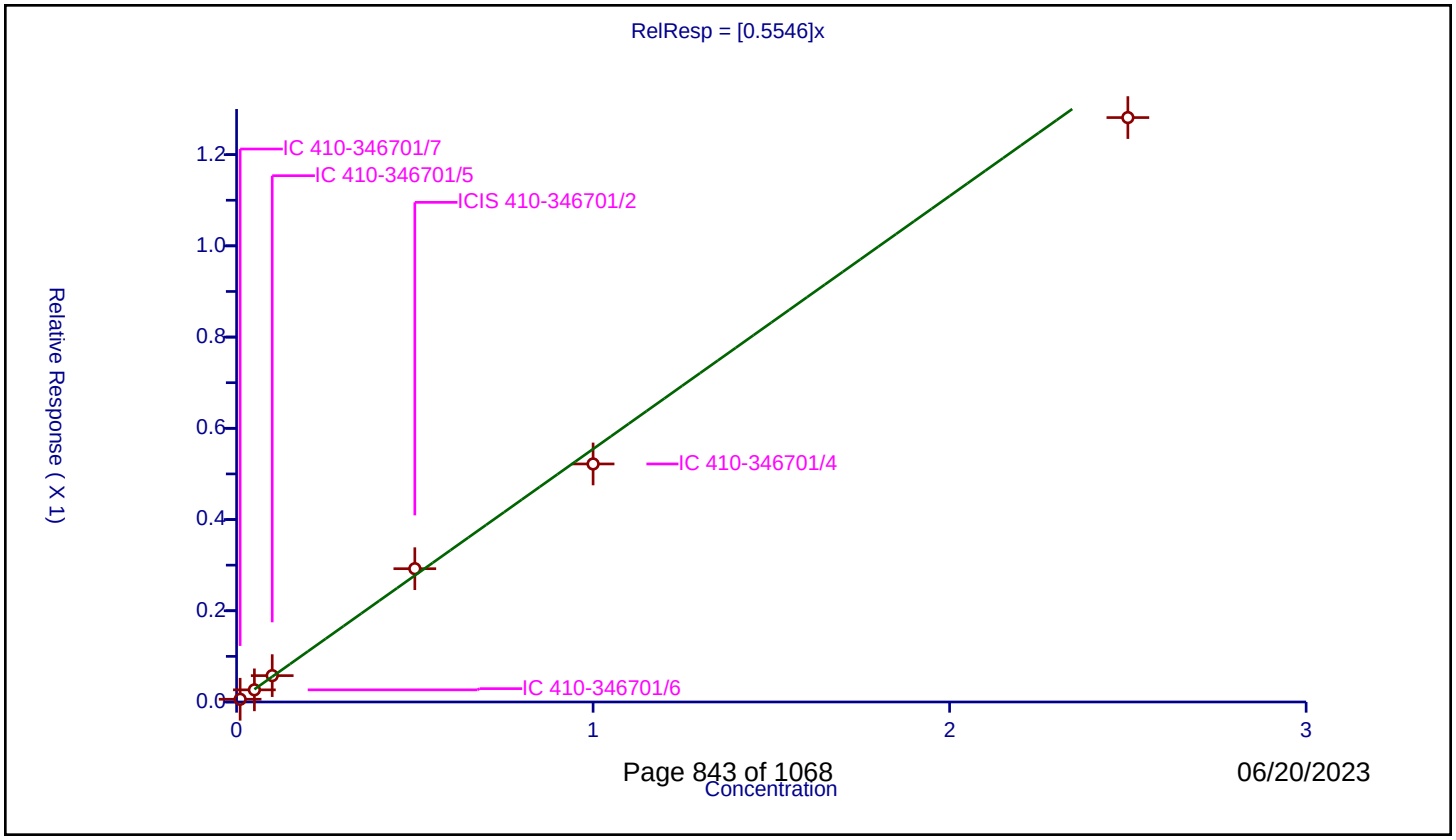
Curve Coefficients

Intercept:	0
Slope:	0.5546

Error Coefficients

Standard Error:	131000
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	IC 410-346701/7	0.01	0.005985	0.25	57272.0	0.59846	Y
2	IC 410-346701/6	0.05	0.026613	0.25	54767.0	0.532255	Y
3	IC 410-346701/5	0.1	0.057801	0.25	55847.0	0.578008	Y
4	ICIS 410-346701/2	0.5	0.292252	0.25	49684.0	0.584504	Y
5	IC 410-346701/4	1.0	0.521886	0.25	54990.0	0.521886	Y
6	IC 410-346701/3	2.5	1.281206	0.25	51473.0	0.512482	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

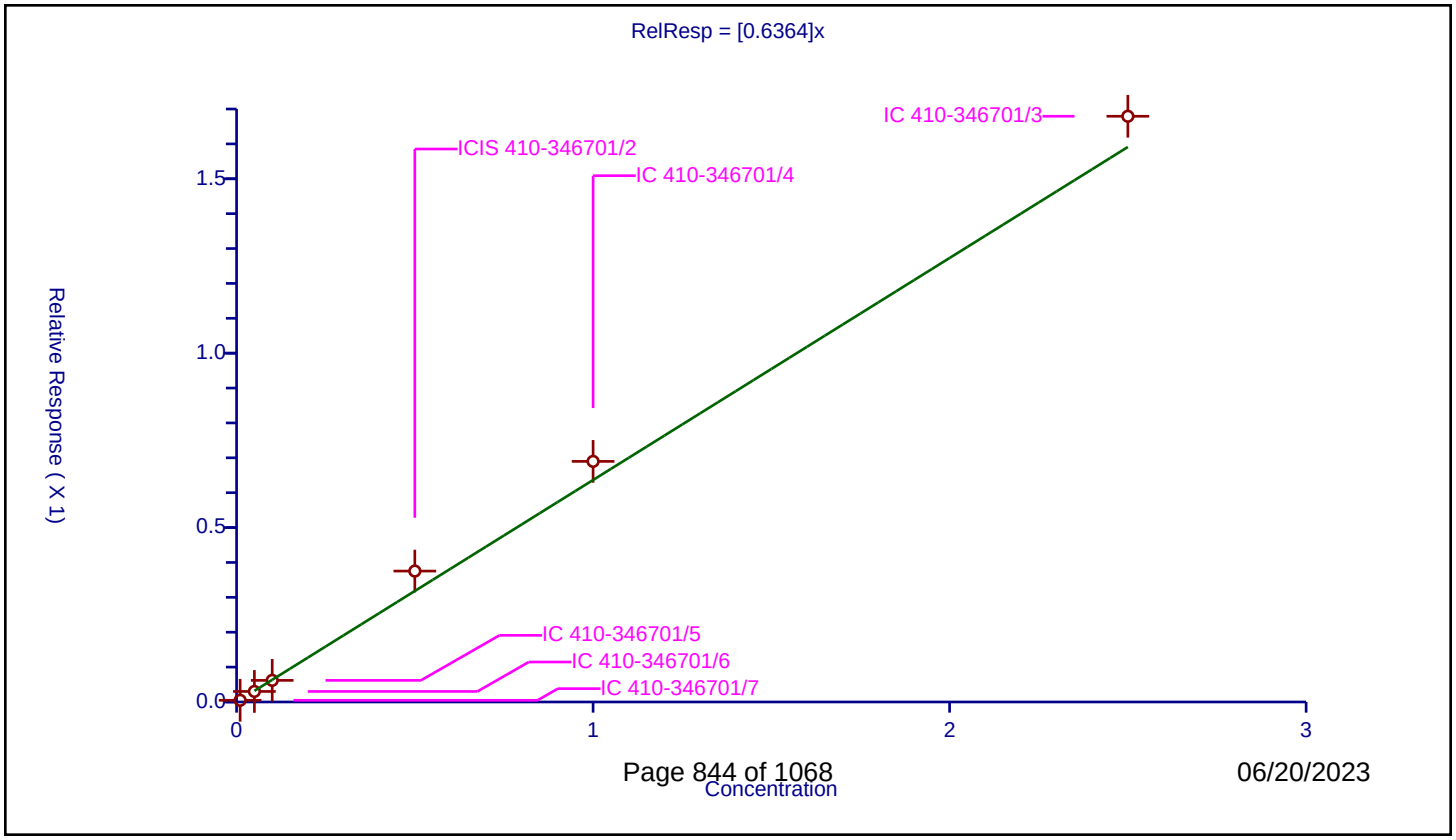
Curve Coefficients

Intercept:	0
Slope:	0.6364

Error Coefficients

Standard Error:	172000
Relative Standard Error:	14.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.004819	0.25	57272.0	0.481911	Y
2	IC 410-346701/6	0.05	0.030255	0.25	54767.0	0.605109	Y
3	IC 410-346701/5	0.1	0.061955	0.25	55847.0	0.61955	Y
4	ICIS 410-346701/2	0.5	0.375337	0.25	49684.0	0.750674	Y
5	IC 410-346701/4	1.0	0.689762	0.25	54990.0	0.689762	Y
6	IC 410-346701/3	2.5	1.679235	0.25	51473.0	0.671694	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

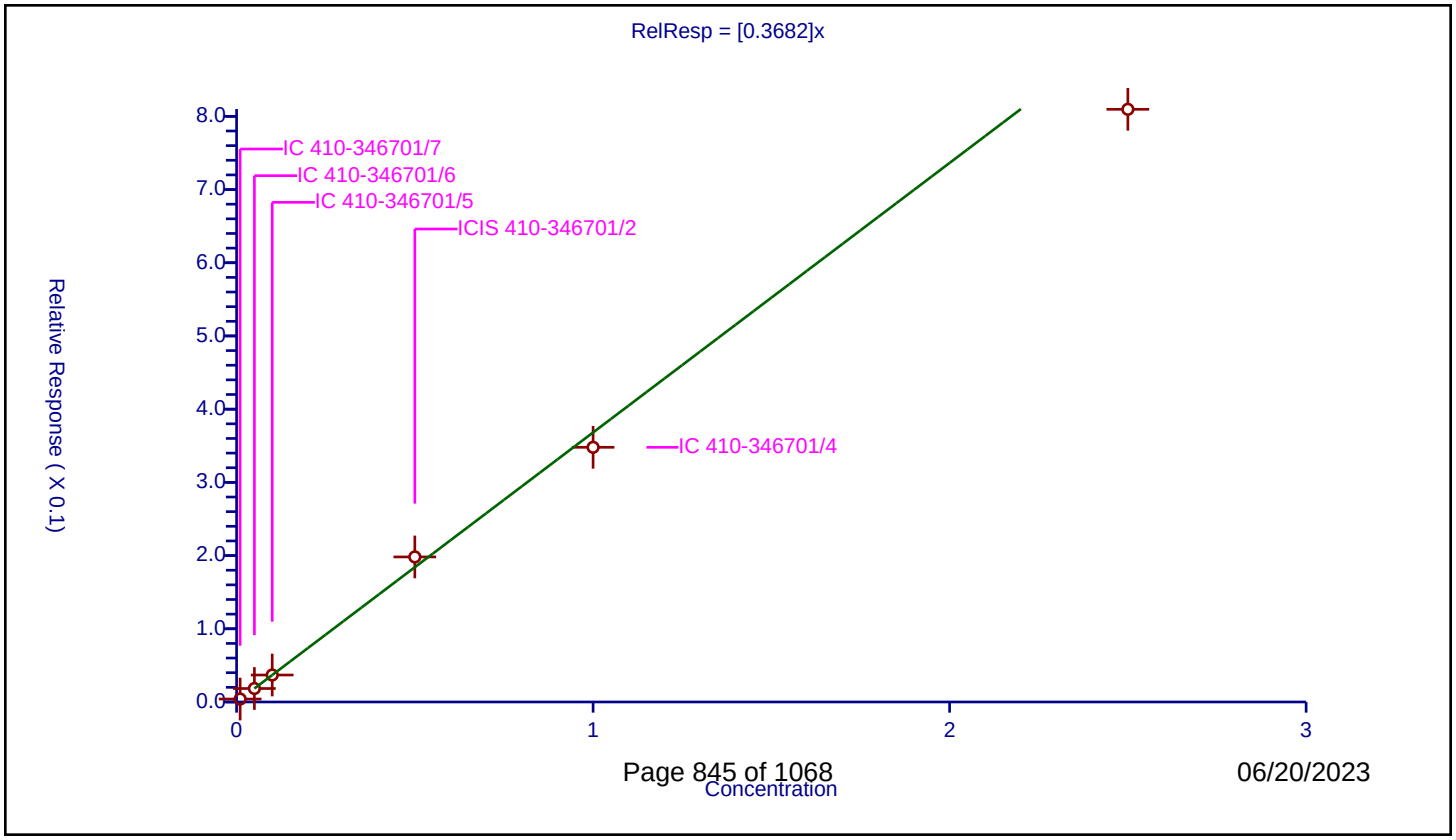
Curve Coefficients

Intercept:	0
Slope:	0.3682

Error Coefficients

Standard Error:	300000
Relative Standard Error:	8.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.004039	0.25	197507.0	0.40391	Y
2	IC 410-346701/6	0.05	0.018424	0.25	189864.0	0.368474	Y
3	IC 410-346701/5	0.1	0.036859	0.25	191695.0	0.368593	Y
4	ICIS 410-346701/2	0.5	0.198138	0.25	170375.0	0.396276	Y
5	IC 410-346701/4	1.0	0.347894	0.25	189739.0	0.347894	Y
6	IC 410-346701/3	2.5	0.809585	0.25	185528.0	0.323834	Y



Calibration / Naphthalene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

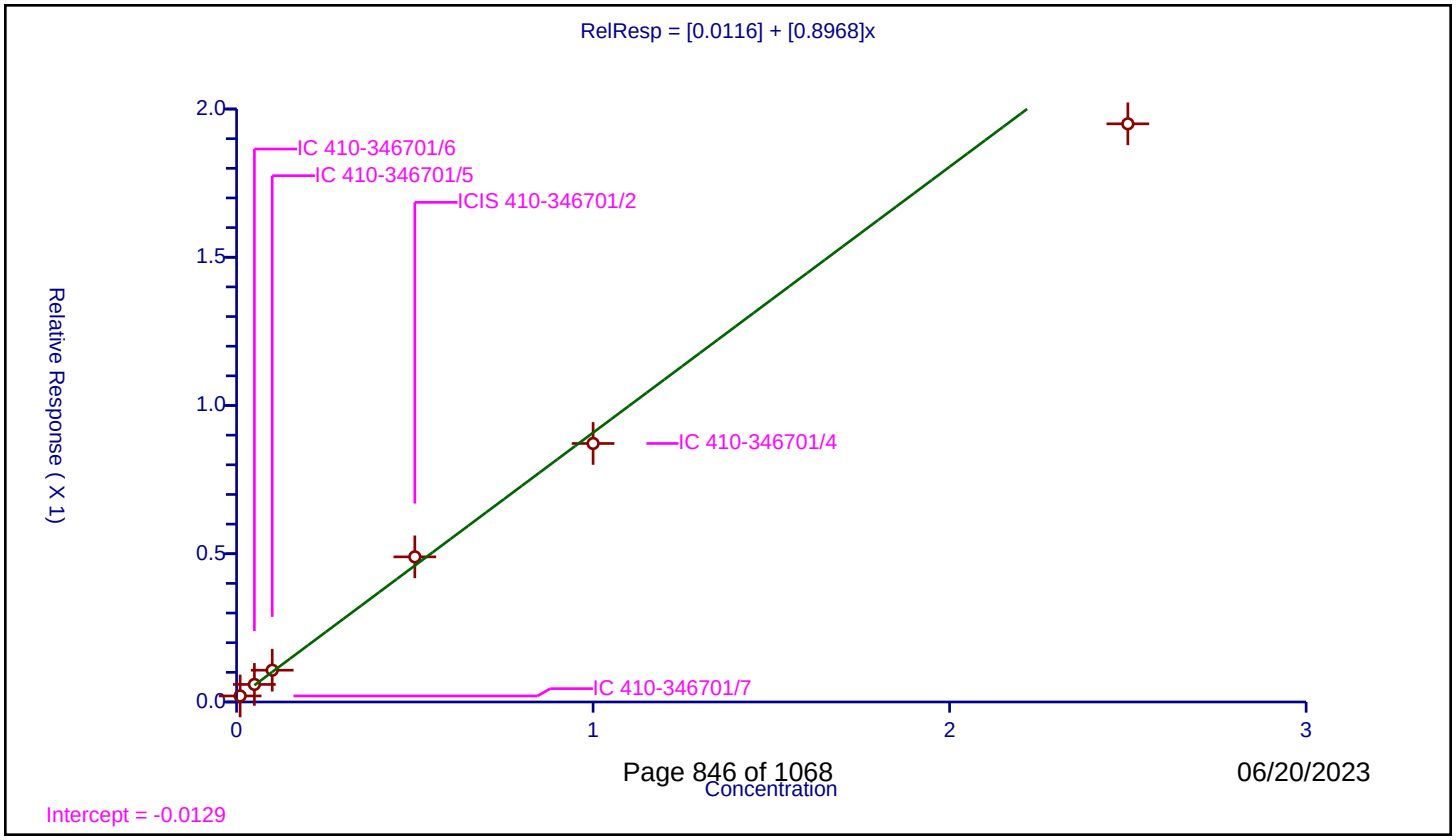
Curve Coefficients

Intercept:	0.0116
Slope:	0.8968

Error Coefficients

Standard Error:	814000
Relative Standard Error:	9.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.020393	0.25	197507.0	2.039295	Y
2	IC 410-346701/6	0.05	0.059248	0.25	189864.0	1.184953	Y
3	IC 410-346701/5	0.1	0.107293	0.25	191695.0	1.072928	Y
4	ICIS 410-346701/2	0.5	0.489494	0.25	170375.0	0.978988	Y
5	IC 410-346701/4	1.0	0.871943	0.25	189739.0	0.871943	Y
6	IC 410-346701/3	2.5	1.950079	0.25	185528.0	0.780032	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

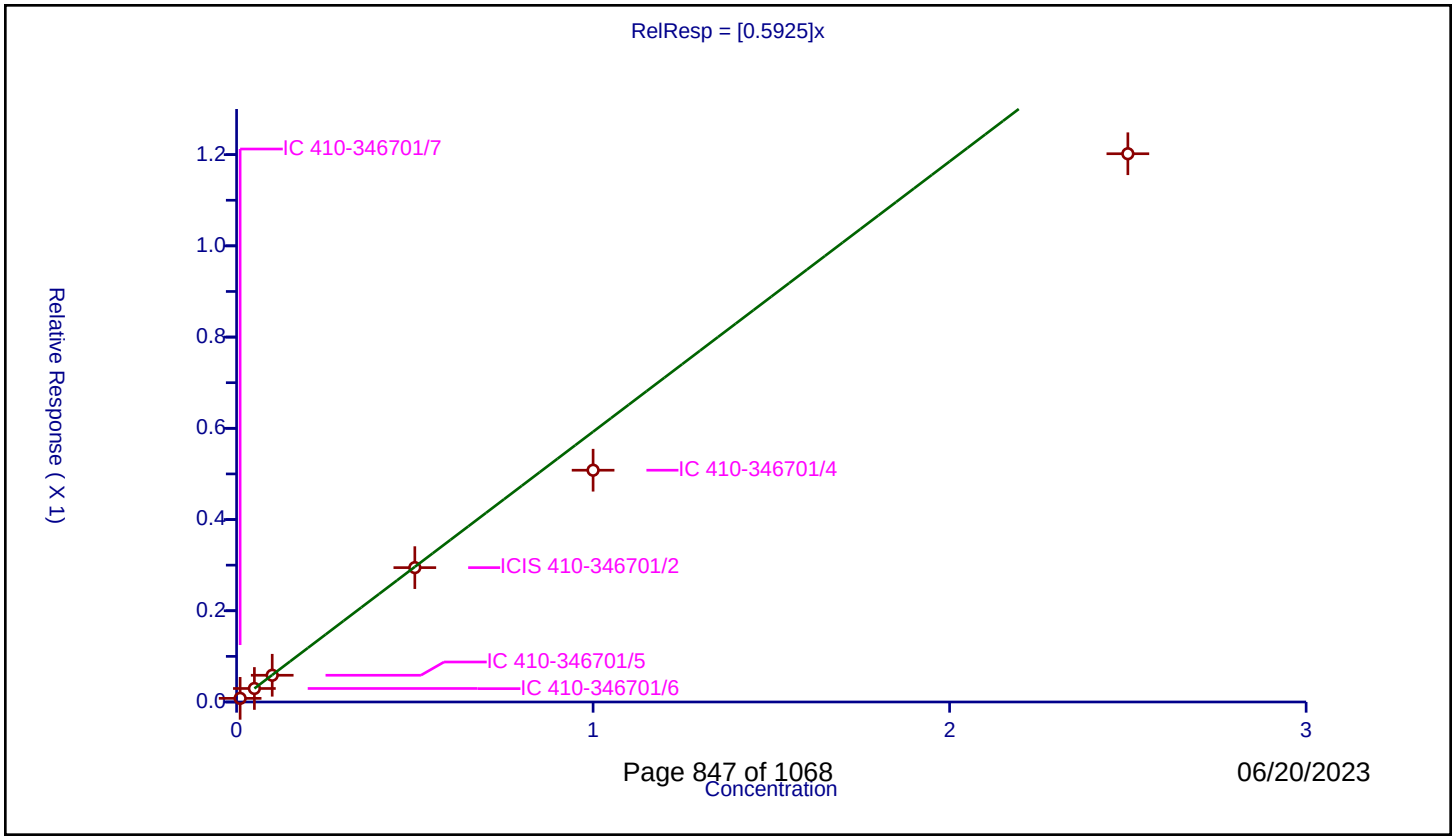
Curve Coefficients

Intercept:	0
Slope:	0.5925

Error Coefficients

Standard Error:	444000
Relative Standard Error:	18.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.007987	0.25	197507.0	0.798706	Y
2	IC 410-346701/6	0.05	0.029604	0.25	189864.0	0.592082	Y
3	IC 410-346701/5	0.1	0.058622	0.25	191695.0	0.586218	Y
4	ICIS 410-346701/2	0.5	0.294574	0.25	170375.0	0.589147	Y
5	IC 410-346701/4	1.0	0.508137	0.25	189739.0	0.508137	Y
6	IC 410-346701/3	2.5	1.201976	0.25	185528.0	0.480791	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

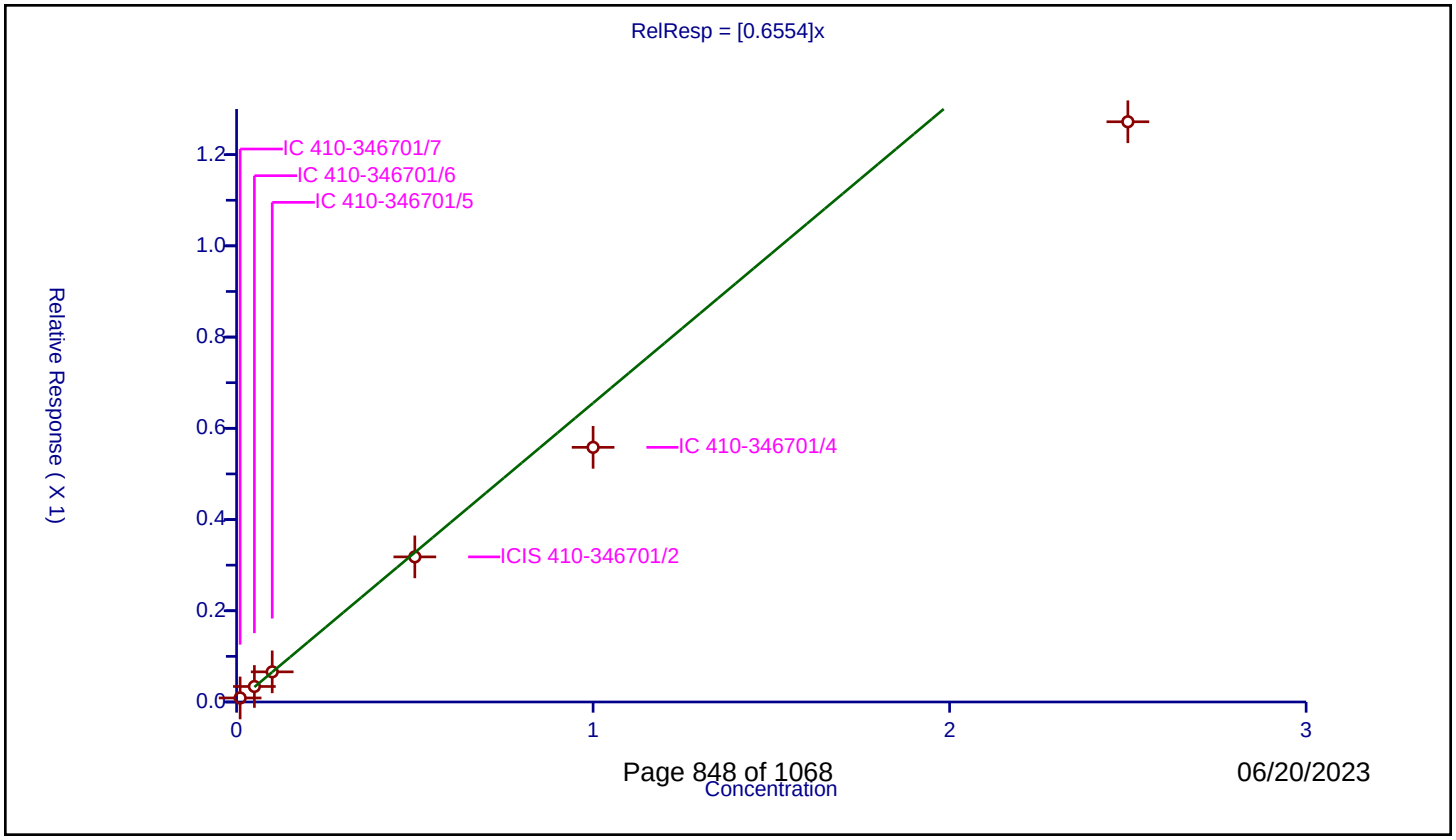
Curve Coefficients

Intercept:	0
Slope:	0.6554

Error Coefficients

Standard Error:	473000
Relative Standard Error:	20.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.942

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.008886	0.25	197507.0	0.888576	Y
2	IC 410-346701/6	0.05	0.033982	0.25	189864.0	0.679644	Y
3	IC 410-346701/5	0.1	0.066076	0.25	191695.0	0.660763	Y
4	ICIS 410-346701/2	0.5	0.318151	0.25	170375.0	0.636302	Y
5	IC 410-346701/4	1.0	0.55827	0.25	189739.0	0.55827	Y
6	IC 410-346701/3	2.5	1.272064	0.25	185528.0	0.508826	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

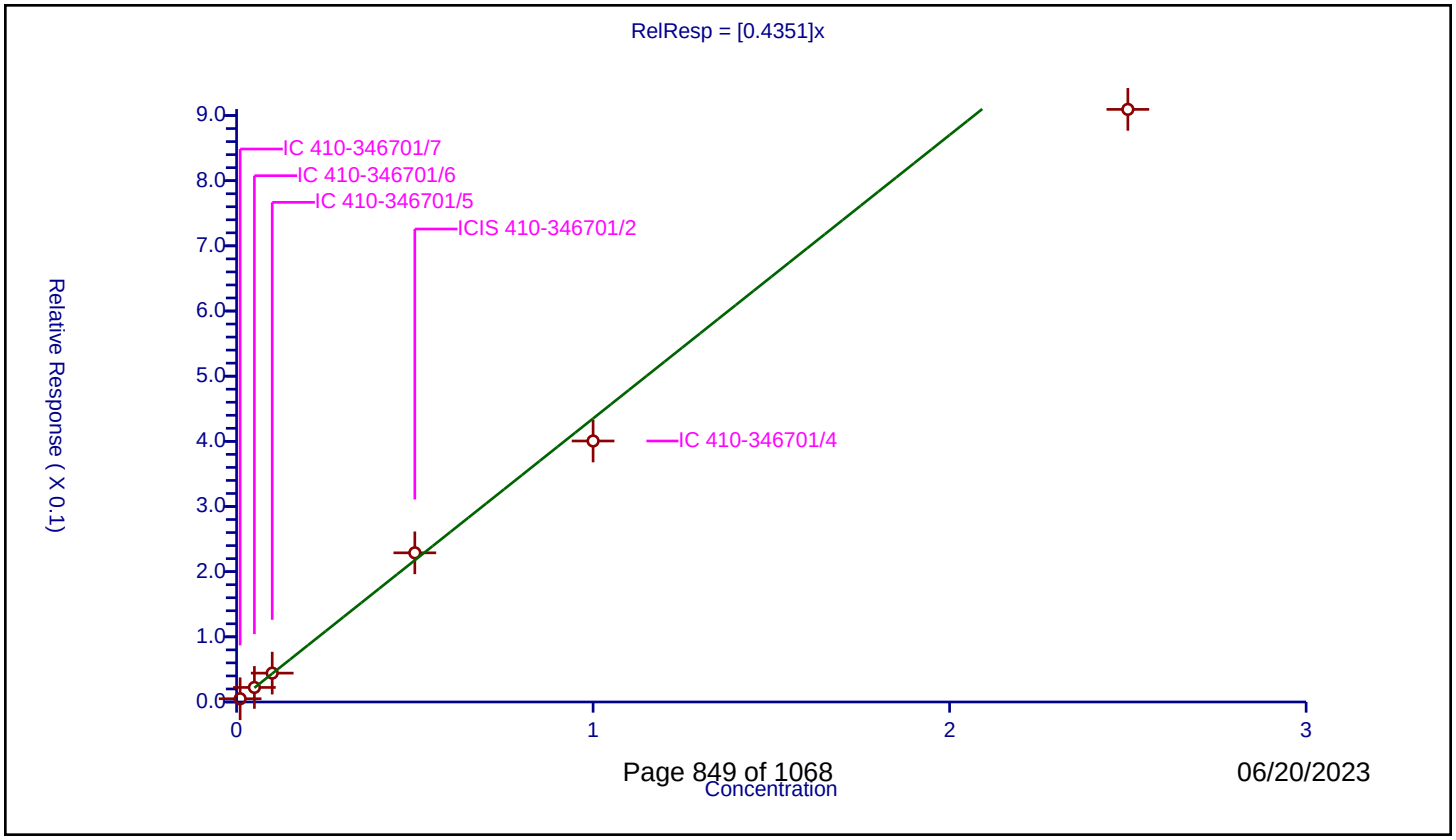
Curve Coefficients

Intercept:	0
Slope:	0.4351

Error Coefficients

Standard Error:	339000
Relative Standard Error:	10.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.00499	0.25	197507.0	0.49897	Y
2	IC 410-346701/6	0.05	0.022317	0.25	189864.0	0.446346	Y
3	IC 410-346701/5	0.1	0.044293	0.25	191695.0	0.44293	Y
4	ICIS 410-346701/2	0.5	0.228924	0.25	170375.0	0.457849	Y
5	IC 410-346701/4	1.0	0.400524	0.25	189739.0	0.400524	Y
6	IC 410-346701/3	2.5	0.909436	0.25	185528.0	0.363774	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

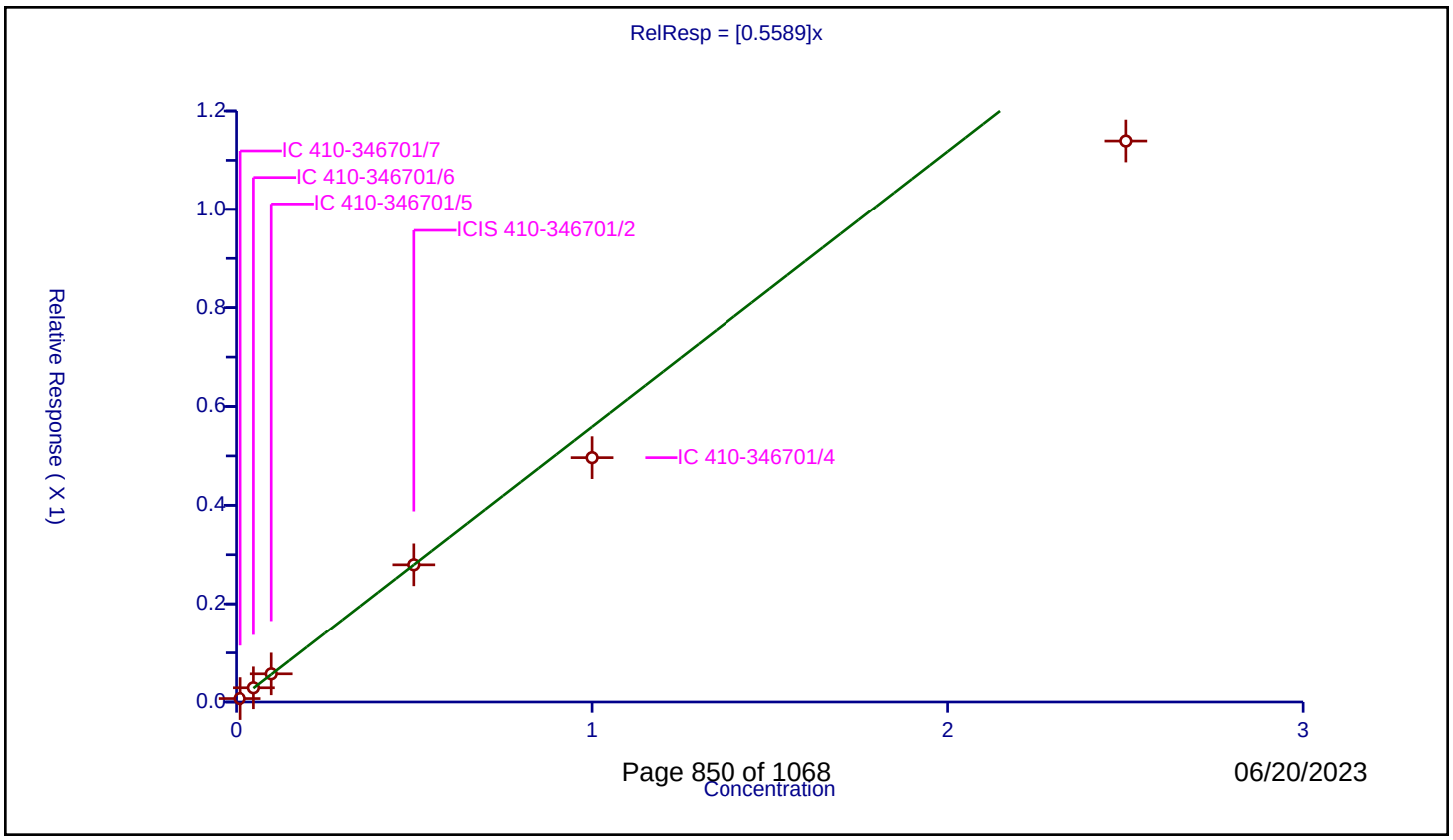
Curve Coefficients

Intercept:	0
Slope:	0.5589

Error Coefficients

Standard Error:	423000
Relative Standard Error:	14.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.006958	0.25	197507.0	0.695798	Y
2	IC 410-346701/6	0.05	0.028778	0.25	189864.0	0.57557	Y
3	IC 410-346701/5	0.1	0.057067	0.25	191695.0	0.570672	Y
4	ICIS 410-346701/2	0.5	0.279566	0.25	170375.0	0.559131	Y
5	IC 410-346701/4	1.0	0.496483	0.25	189739.0	0.496483	Y
6	IC 410-346701/3	2.5	1.139205	0.25	185528.0	0.455682	Y



06/20/2023

Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

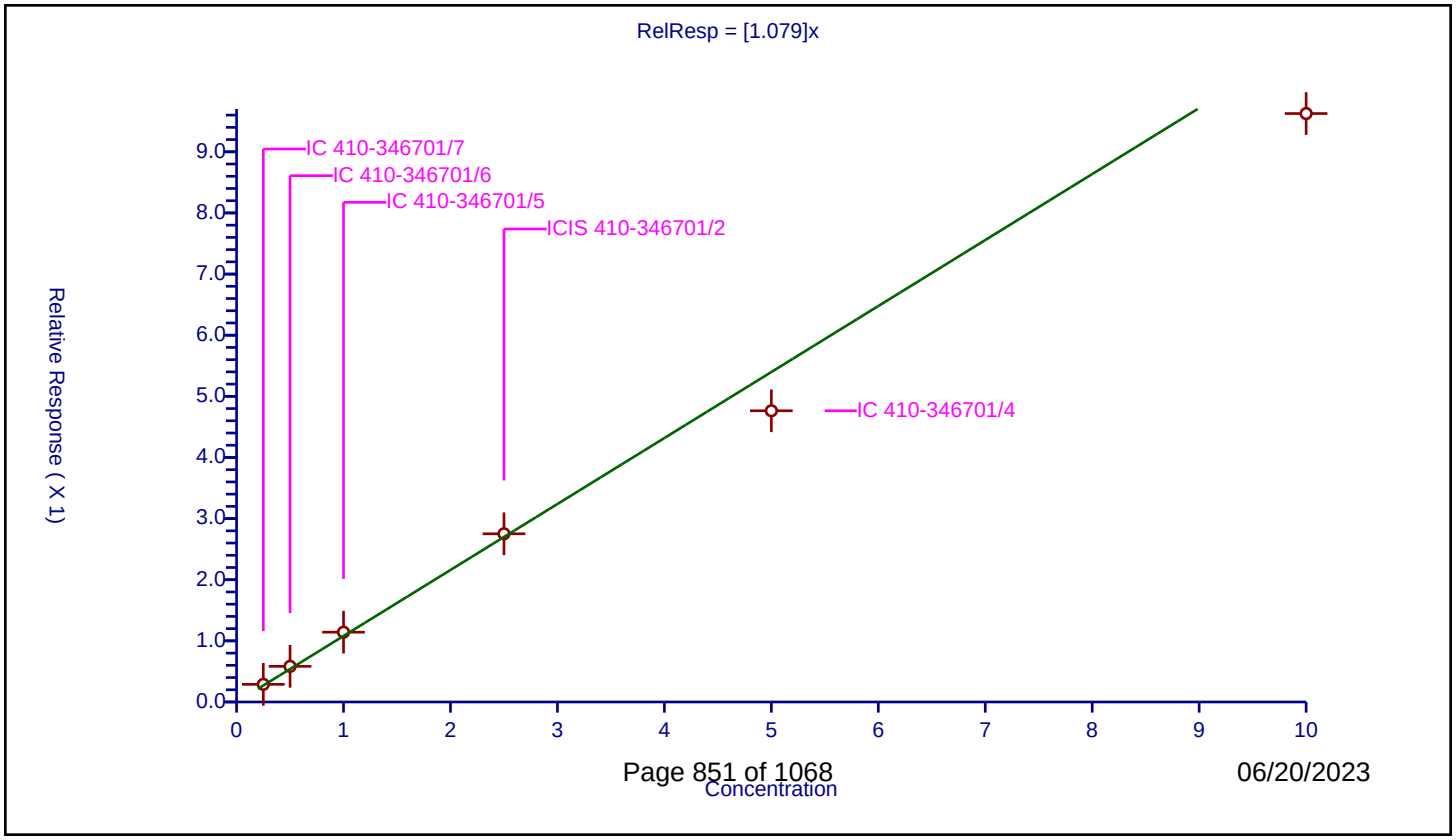
Curve Coefficients

Intercept:	0
Slope:	1.079

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	9.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.25	0.288361	0.25	86006.0	1.153443	Y
2	IC 410-346701/6	0.5	0.58284	0.25	83037.0	1.165679	Y
3	IC 410-346701/5	1.0	1.141948	0.25	81926.0	1.141948	Y
4	ICIS 410-346701/2	2.5	2.751577	0.25	72429.0	1.100631	Y
5	IC 410-346701/4	5.0	4.763596	0.25	79916.0	0.952719	Y
6	IC 410-346701/3	10.0	9.625789	0.25	72546.0	0.962579	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

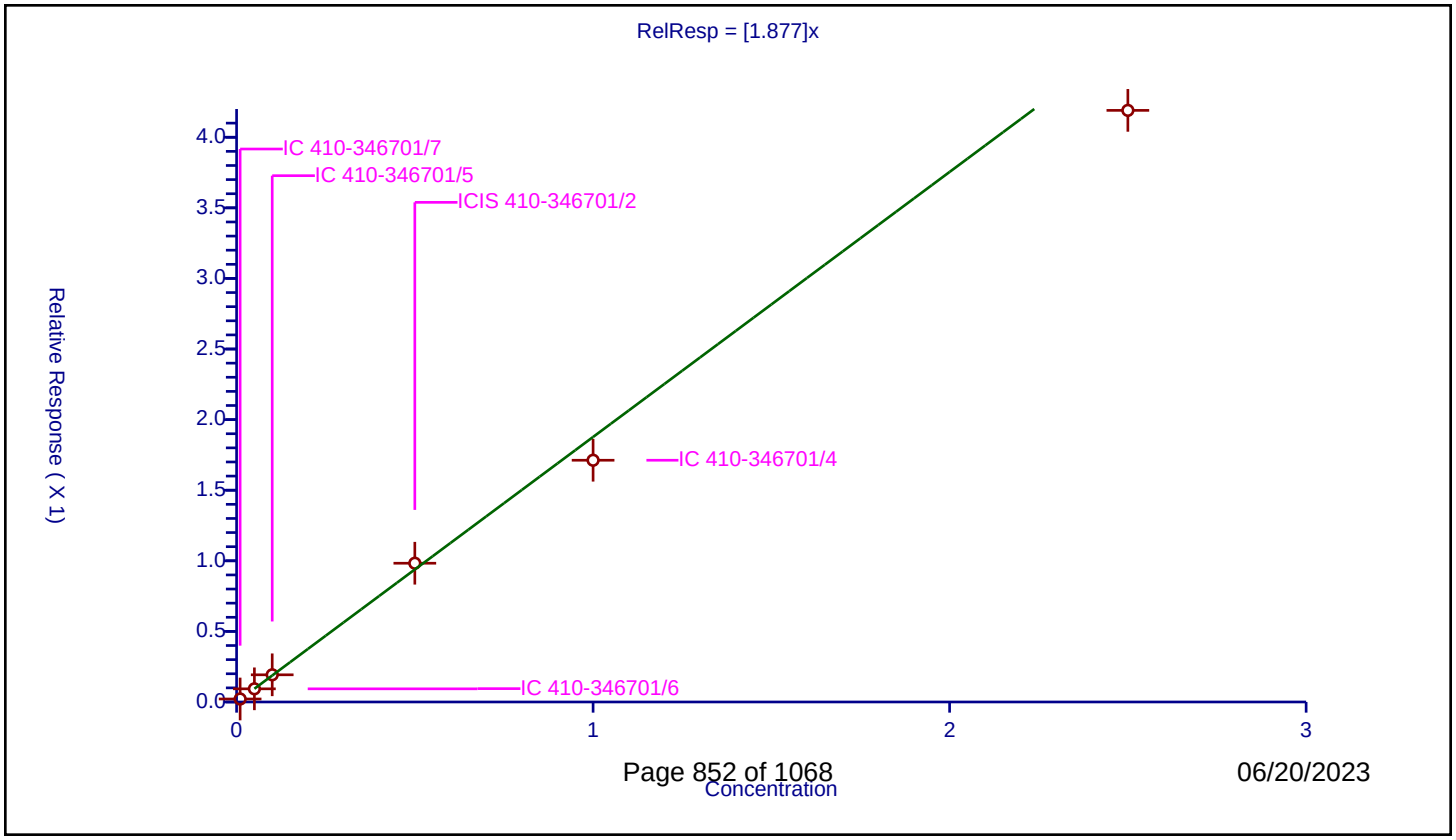
Curve Coefficients

Intercept:	0
Slope:	1.877

Error Coefficients

Standard Error:	611000
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	IC 410-346701/7	0.01	0.021167	0.25	86006.0	2.116713	Y
2	IC 410-346701/6	0.05	0.093293	0.25	83037.0	1.865855	Y
3	IC 410-346701/5	0.1	0.192585	0.25	81926.0	1.925854	Y
4	ICIS 410-346701/2	0.5	0.98289	0.25	72429.0	1.96578	Y
5	IC 410-346701/4	1.0	1.712295	0.25	79916.0	1.712295	Y
6	IC 410-346701/3	2.5	4.190365	0.25	72546.0	1.676146	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

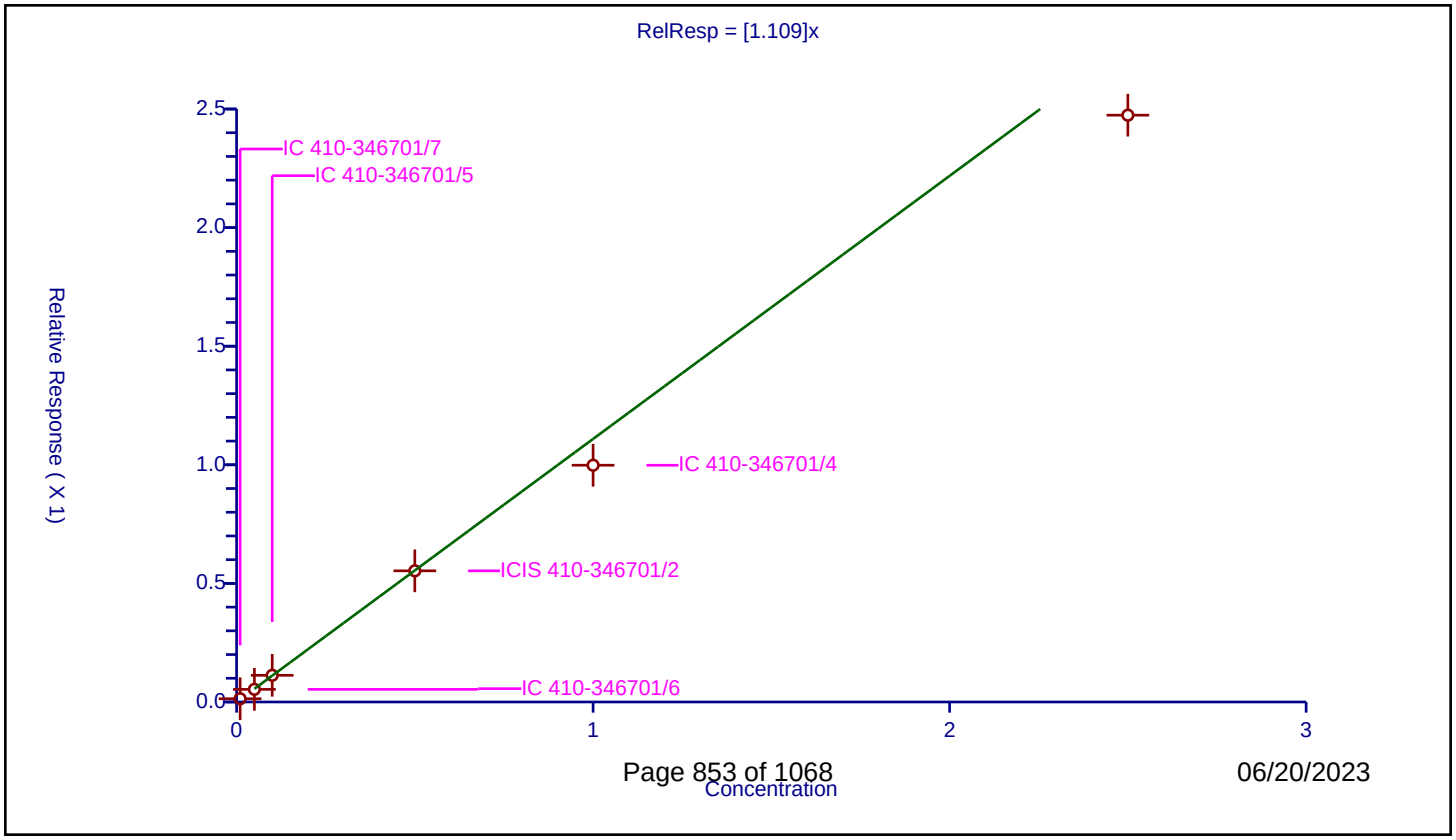
Curve Coefficients

Intercept:	0
Slope:	1.109

Error Coefficients

Standard Error:	359000
Relative Standard Error:	12.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.013703	0.25	86006.0	1.370253	Y
2	IC 410-346701/6	0.05	0.05328	0.25	83037.0	1.065609	Y
3	IC 410-346701/5	0.1	0.112452	0.25	81926.0	1.124521	Y
4	ICIS 410-346701/2	0.5	0.553	0.25	72429.0	1.106	Y
5	IC 410-346701/4	1.0	0.998189	0.25	79916.0	0.998189	Y
6	IC 410-346701/3	2.5	2.473999	0.25	72546.0	0.9896	Y



Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

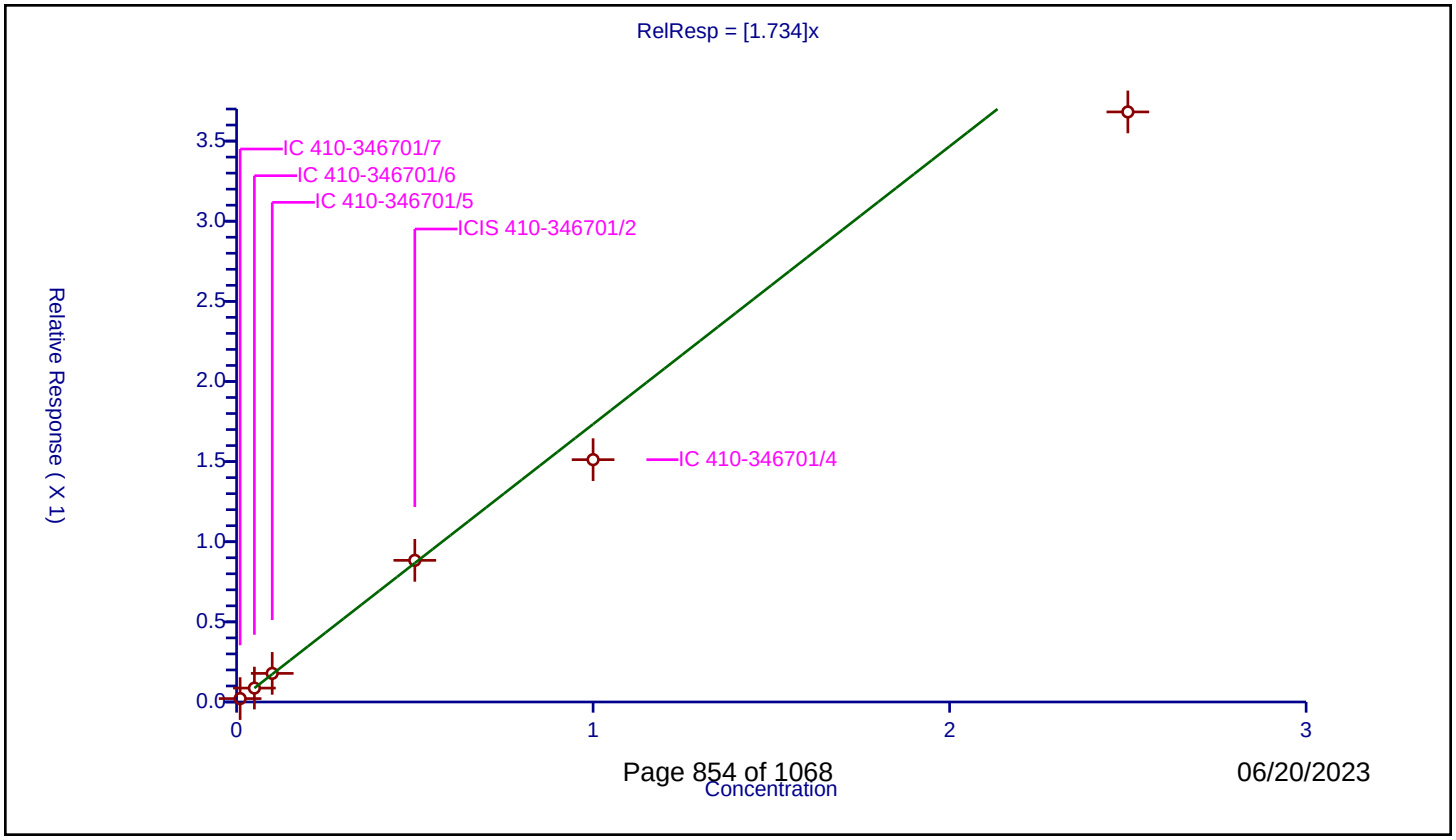
Curve Coefficients

Intercept:	0
Slope:	1.734

Error Coefficients

Standard Error:	538000
Relative Standard Error:	13.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.021295	0.25	86006.0	2.129503	Y
2	IC 410-346701/6	0.05	0.086735	0.25	83037.0	1.734709	Y
3	IC 410-346701/5	0.1	0.178466	0.25	81926.0	1.784659	Y
4	ICIS 410-346701/2	0.5	0.883714	0.25	72429.0	1.767427	Y
5	IC 410-346701/4	1.0	1.512178	0.25	79916.0	1.512178	Y
6	IC 410-346701/3	2.5	3.681781	0.25	72546.0	1.472712	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

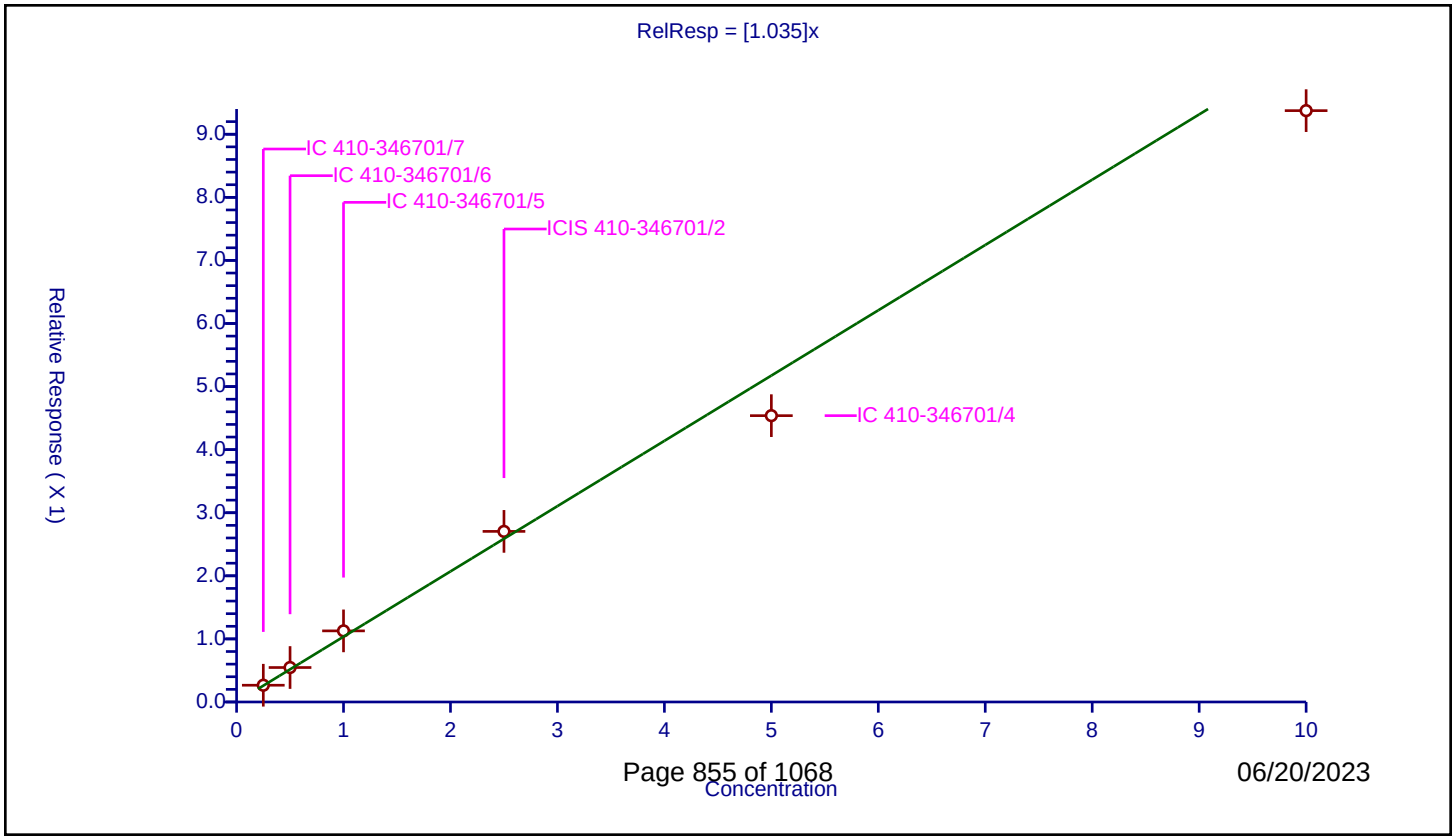
Curve Coefficients

Intercept:	0
Slope:	1.035

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	8.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.25	0.265522	0.25	86006.0	1.062089	Y
2	IC 410-346701/6	0.5	0.546549	0.25	83037.0	1.093097	Y
3	IC 410-346701/5	1.0	1.127264	0.25	81926.0	1.127264	Y
4	ICIS 410-346701/2	2.5	2.704262	0.25	72429.0	1.081705	Y
5	IC 410-346701/4	5.0	4.539022	0.25	79916.0	0.907804	Y
6	IC 410-346701/3	10.0	9.374407	0.25	72546.0	0.937441	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

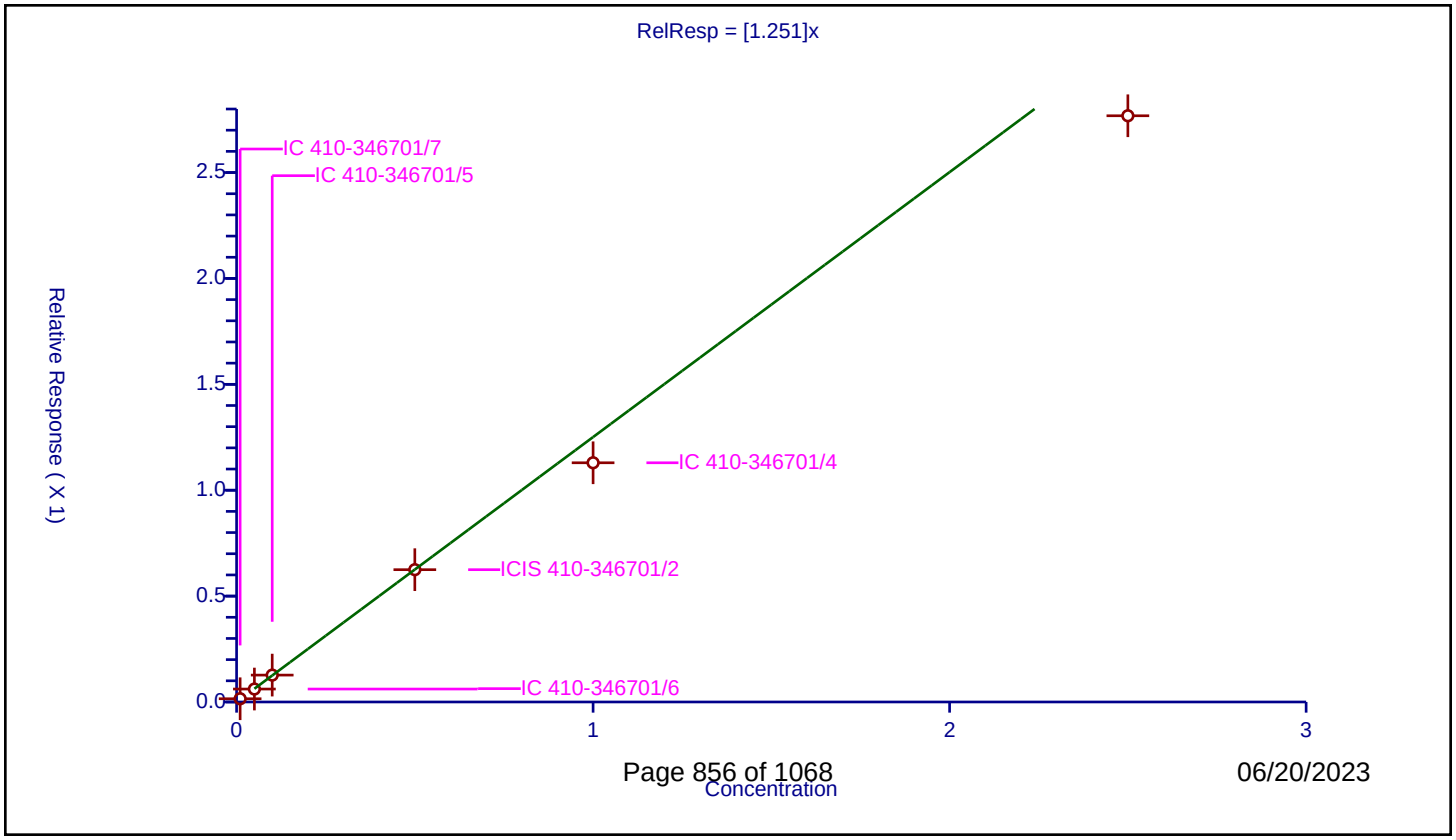
Curve Coefficients

Intercept:	0
Slope:	1.251

Error Coefficients

Standard Error:	403000
Relative Standard Error:	12.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.015272	0.25	86006.0	1.527219	Y
2	IC 410-346701/6	0.05	0.061135	0.25	83037.0	1.222708	Y
3	IC 410-346701/5	0.1	0.126947	0.25	81926.0	1.269469	Y
4	ICIS 410-346701/2	0.5	0.624729	0.25	72429.0	1.249458	Y
5	IC 410-346701/4	1.0	1.129617	0.25	79916.0	1.129617	Y
6	IC 410-346701/3	2.5	2.768147	0.25	72546.0	1.107259	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

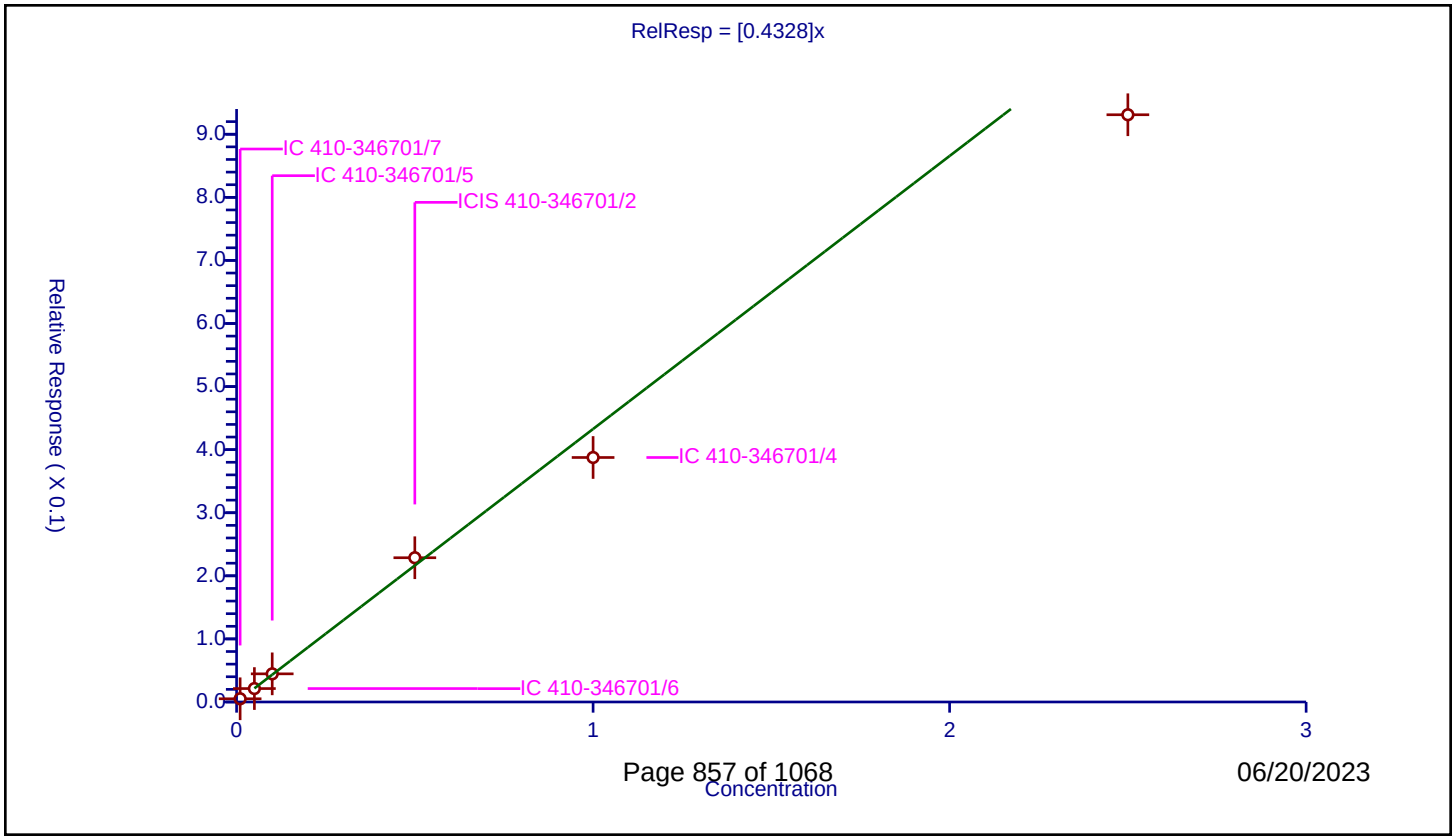
Curve Coefficients

Intercept:	0
Slope:	0.4328

Error Coefficients

Standard Error:	215000
Relative Standard Error:	11.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.005078	0.25	128401.0	0.507784	Y
2	IC 410-346701/6	0.05	0.021279	0.25	129151.0	0.425587	Y
3	IC 410-346701/5	0.1	0.044604	0.25	131266.0	0.446041	Y
4	ICIS 410-346701/2	0.5	0.228657	0.25	111170.0	0.457313	Y
5	IC 410-346701/4	1.0	0.387588	0.25	121675.0	0.387588	Y
6	IC 410-346701/3	2.5	0.930929	0.25	115305.0	0.372372	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

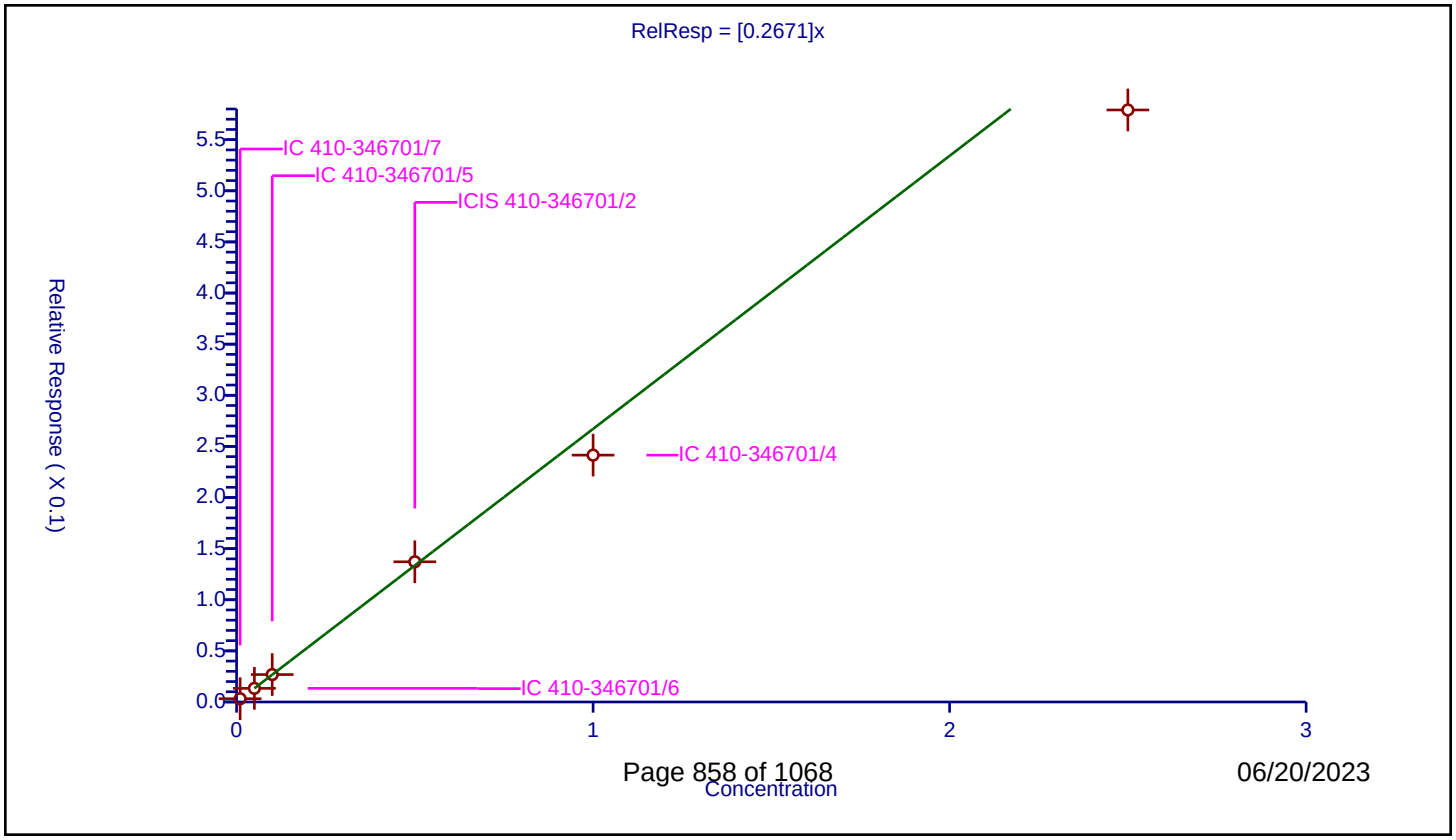
Curve Coefficients

Intercept:	0
Slope:	0.2671

Error Coefficients

Standard Error:	133000
Relative Standard Error:	11.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.003201	0.25	128401.0	0.320091	Y
2	IC 410-346701/6	0.05	0.013349	0.25	129151.0	0.266974	Y
3	IC 410-346701/5	0.1	0.026818	0.25	131266.0	0.268177	Y
4	ICIS 410-346701/2	0.5	0.13713	0.25	111170.0	0.27426	Y
5	IC 410-346701/4	1.0	0.241457	0.25	121675.0	0.241457	Y
6	IC 410-346701/3	2.5	0.579049	0.25	115305.0	0.23162	Y



Calibration / Phenanthrene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

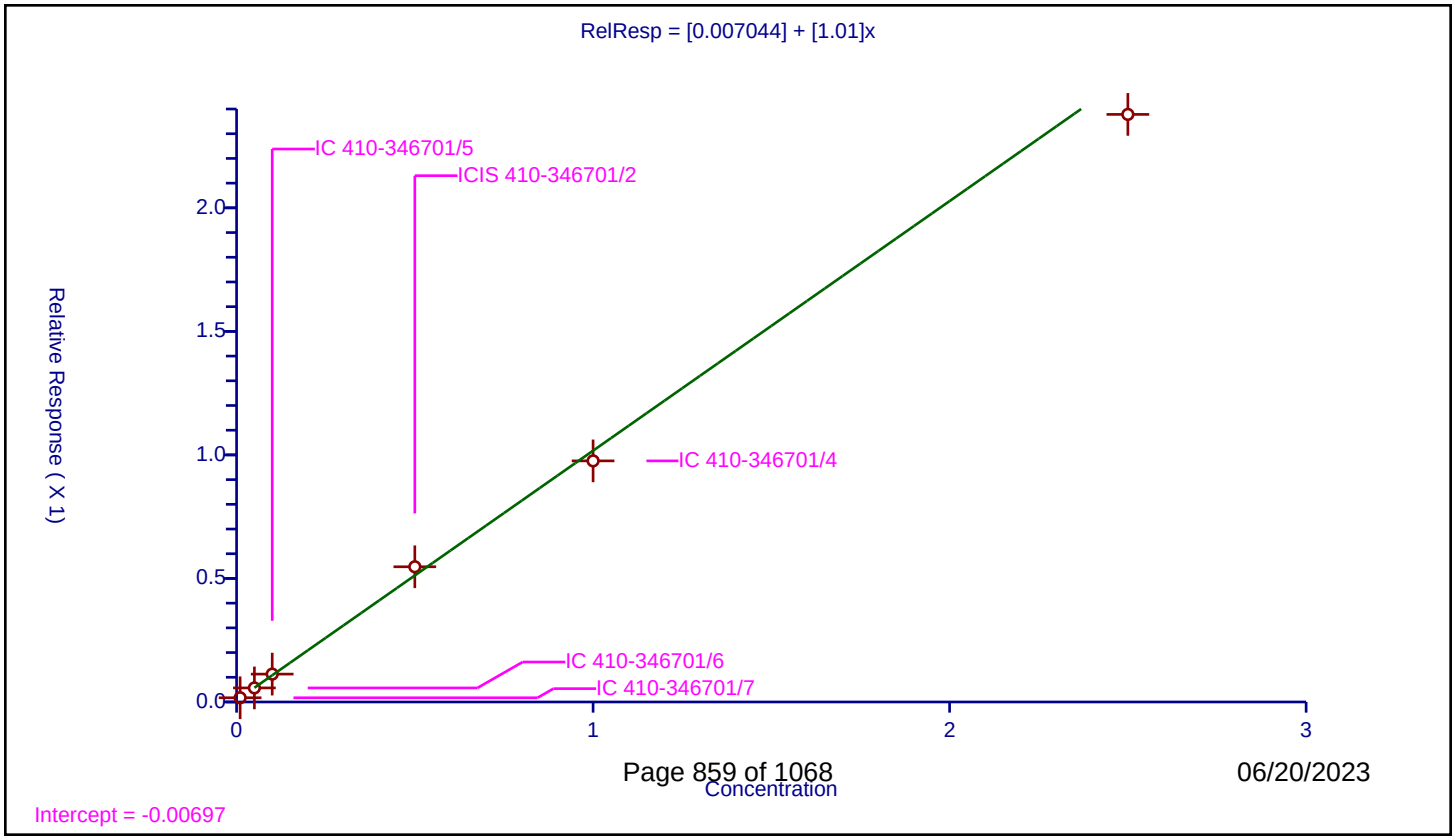
Curve Coefficients

Intercept:	0.007044
Slope:	1.01

Error Coefficients

Standard Error:	611000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.017114	0.25	128401.0	1.711435	Y
2	IC 410-346701/6	0.05	0.056943	0.25	129151.0	1.138861	Y
3	IC 410-346701/5	0.1	0.112847	0.25	131266.0	1.128472	Y
4	ICIS 410-346701/2	0.5	0.547261	0.25	111170.0	1.094522	Y
5	IC 410-346701/4	1.0	0.975903	0.25	121675.0	0.975903	Y
6	IC 410-346701/3	2.5	2.37819	0.25	115305.0	0.951276	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

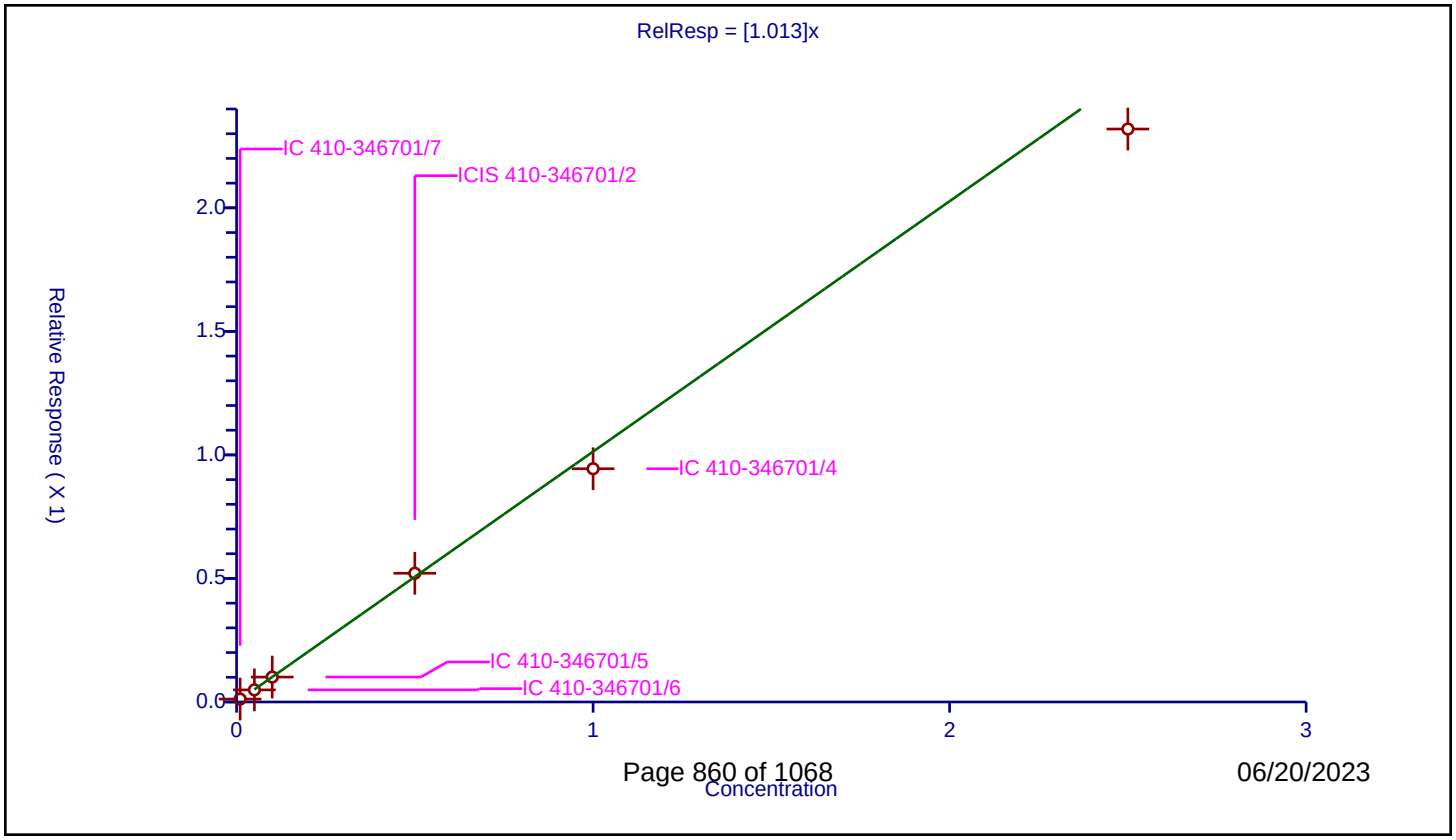
Curve Coefficients

Intercept:	0
Slope:	1.013

Error Coefficients

Standard Error:	531000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.011781	0.25	128401.0	1.178145	Y
2	IC 410-346701/6	0.05	0.048997	0.25	129151.0	0.979938	Y
3	IC 410-346701/5	0.1	0.100873	0.25	131266.0	1.008734	Y
4	ICIS 410-346701/2	0.5	0.520986	0.25	111170.0	1.041972	Y
5	IC 410-346701/4	1.0	0.944046	0.25	121675.0	0.944046	Y
6	IC 410-346701/3	2.5	2.318987	0.25	115305.0	0.927595	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

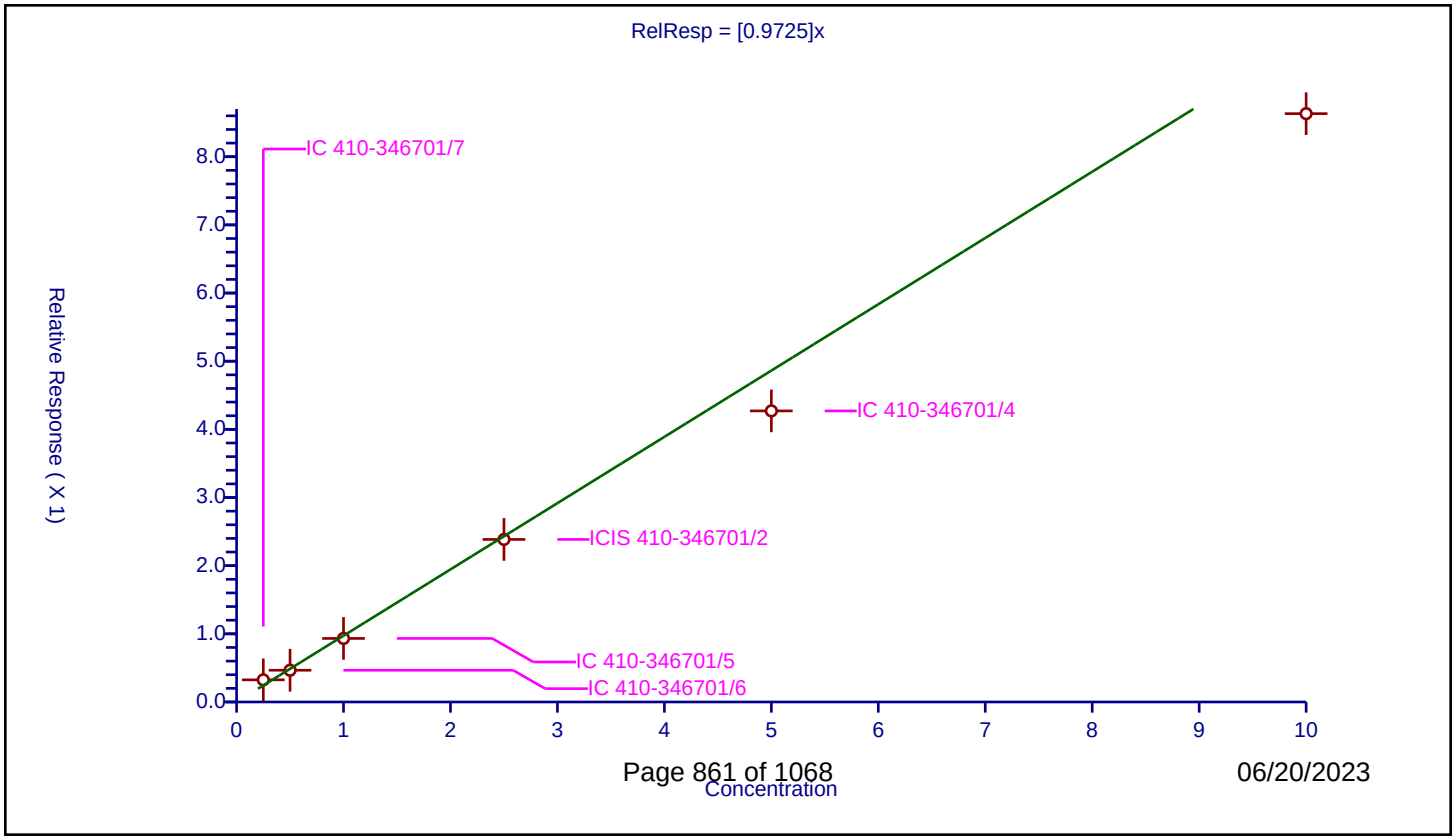
Curve Coefficients

Intercept:	0
Slope:	0.9725

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	17.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.941

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.25	0.324871	0.25	128401.0	1.299484	Y
2	IC 410-346701/6	0.5	0.46579	0.25	129151.0	0.93158	Y
3	IC 410-346701/5	1.0	0.932513	0.25	131266.0	0.932513	Y
4	ICIS 410-346701/2	2.5	2.384769	0.25	111170.0	0.953908	Y
5	IC 410-346701/4	5.0	4.270505	0.25	121675.0	0.854101	Y
6	IC 410-346701/3	10.0	8.632071	0.25	115305.0	0.863207	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

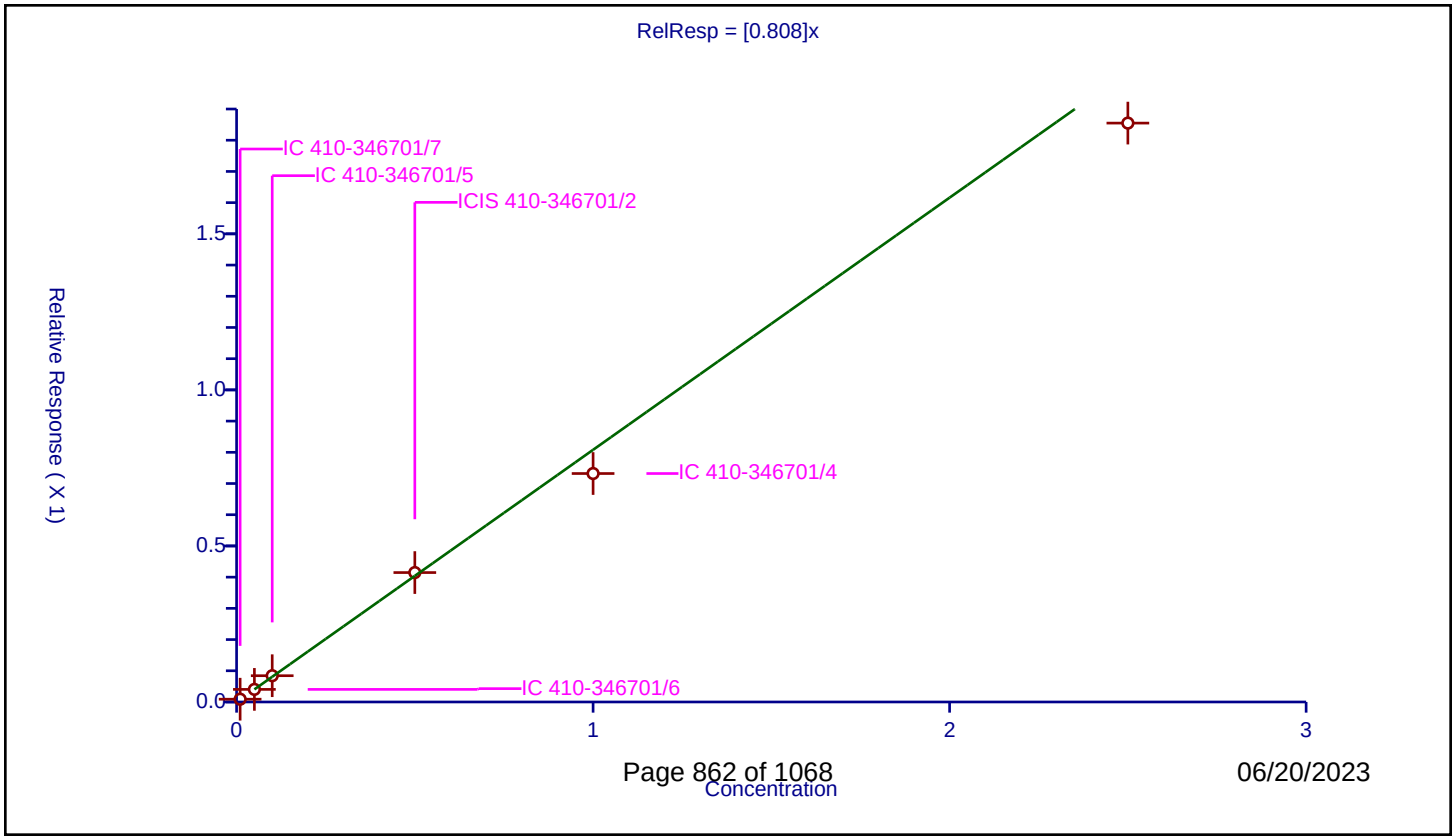
Curve Coefficients

Intercept:	0
Slope:	0.808

Error Coefficients

Standard Error:	423000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.008958	0.25	128401.0	0.895826	Y
2	IC 410-346701/6	0.05	0.04034	0.25	129151.0	0.806808	Y
3	IC 410-346701/5	0.1	0.084178	0.25	131266.0	0.841783	Y
4	ICIS 410-346701/2	0.5	0.414716	0.25	111170.0	0.829432	Y
5	IC 410-346701/4	1.0	0.732022	0.25	121675.0	0.732022	Y
6	IC 410-346701/3	2.5	1.854887	0.25	115305.0	0.741955	Y



06/20/2023

Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

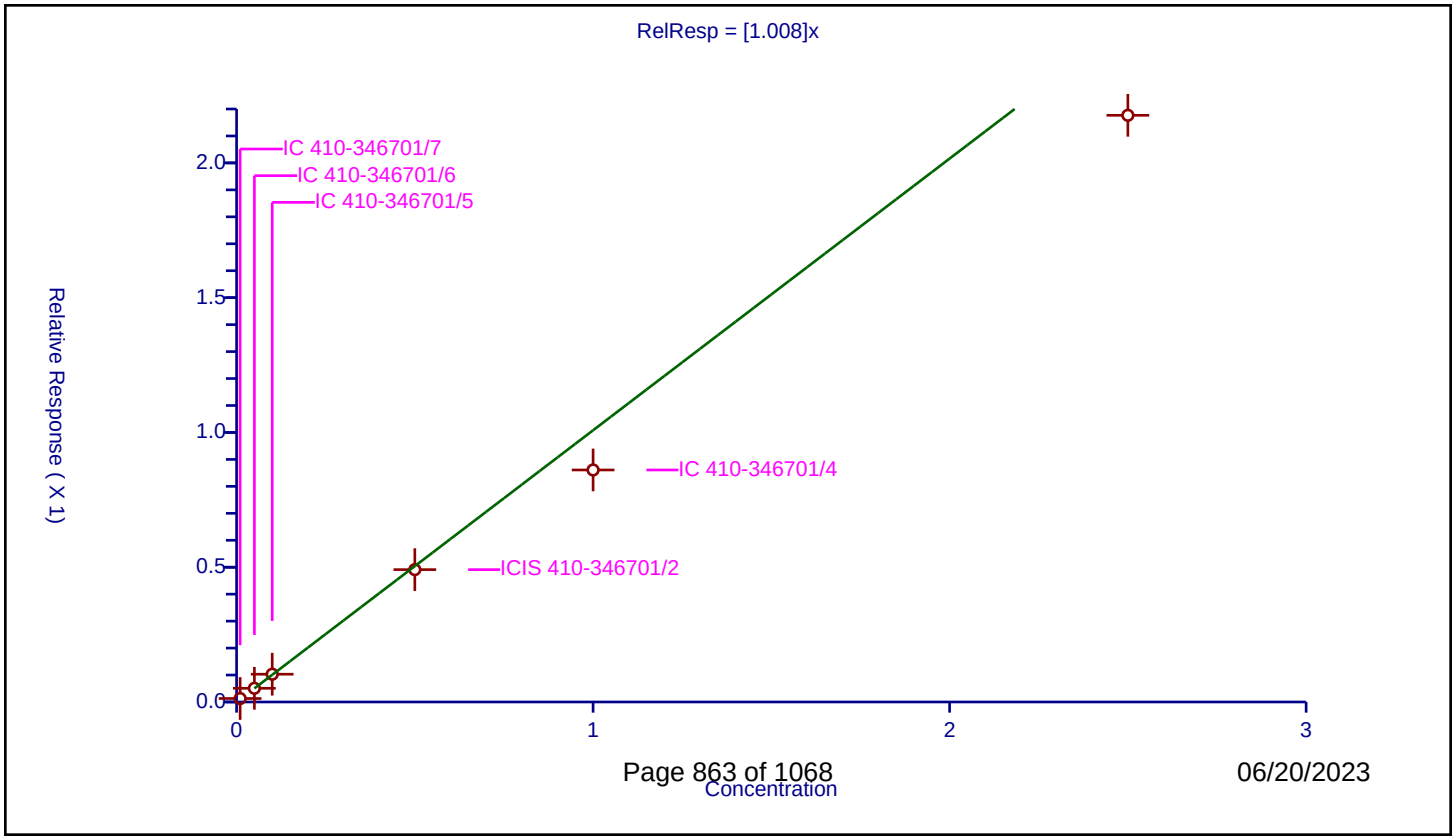
Curve Coefficients

Intercept:	0
Slope:	1.008

Error Coefficients

Standard Error:	497000
Relative Standard Error:	15.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.012882	0.25	128401.0	1.288152	Y
2	IC 410-346701/6	0.05	0.050797	0.25	129151.0	1.015943	Y
3	IC 410-346701/5	0.1	0.10306	0.25	131266.0	1.030598	Y
4	ICIS 410-346701/2	0.5	0.49103	0.25	111170.0	0.982059	Y
5	IC 410-346701/4	1.0	0.860783	0.25	121675.0	0.860783	Y
6	IC 410-346701/3	2.5	2.176671	0.25	115305.0	0.870668	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

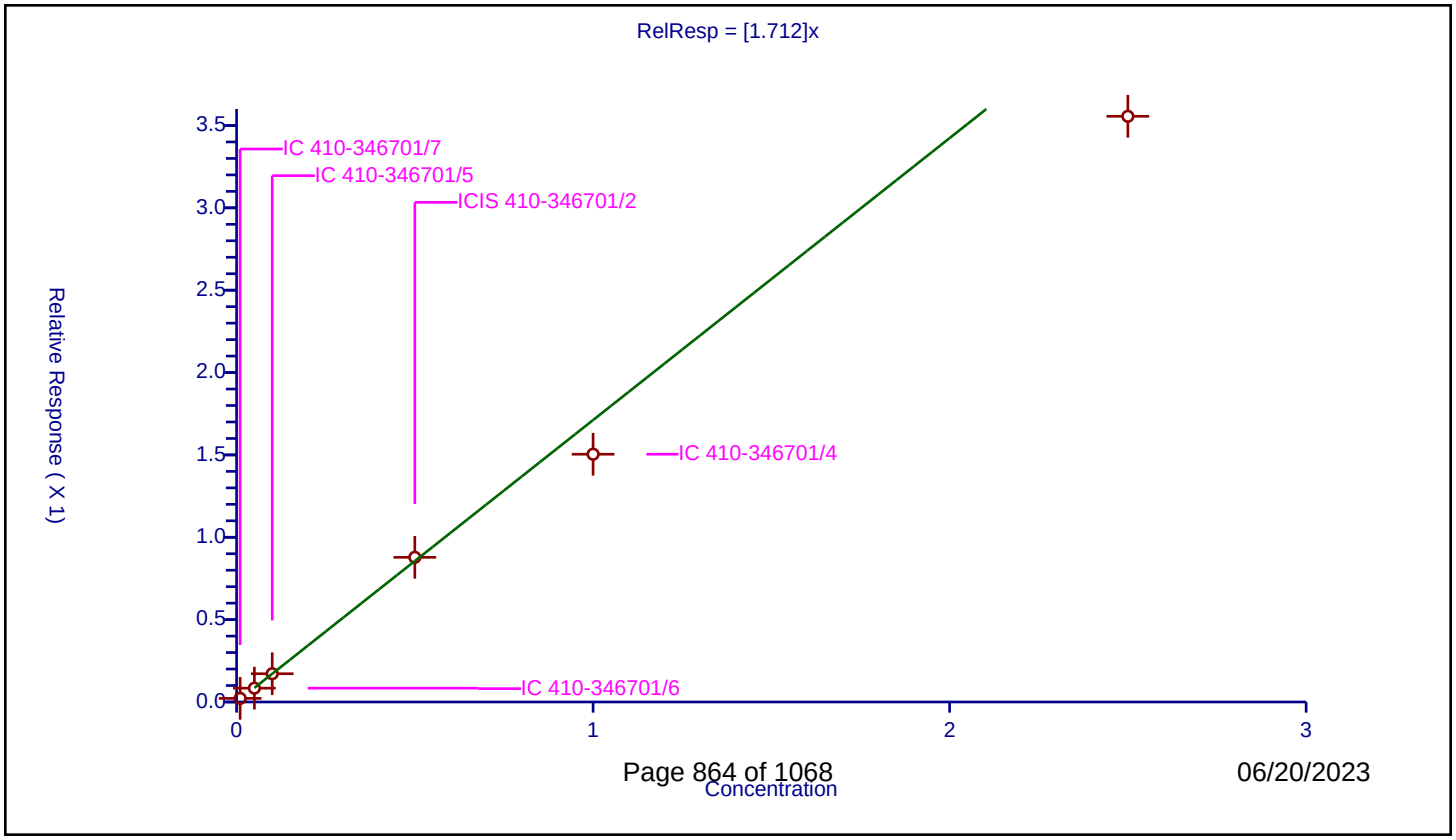
Curve Coefficients

Intercept:	0
Slope:	1.712

Error Coefficients

Standard Error:	537000
Relative Standard Error:	15.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.021946	0.25	74605.0	2.194558	Y
2	IC 410-346701/6	0.05	0.083871	0.25	78928.0	1.677415	Y
3	IC 410-346701/5	0.1	0.171491	0.25	82226.0	1.714908	Y
4	ICIS 410-346701/2	0.5	0.878199	0.25	65447.0	1.756398	Y
5	IC 410-346701/4	1.0	1.504304	0.25	74645.0	1.504304	Y
6	IC 410-346701/3	2.5	3.555864	0.25	76404.0	1.422346	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

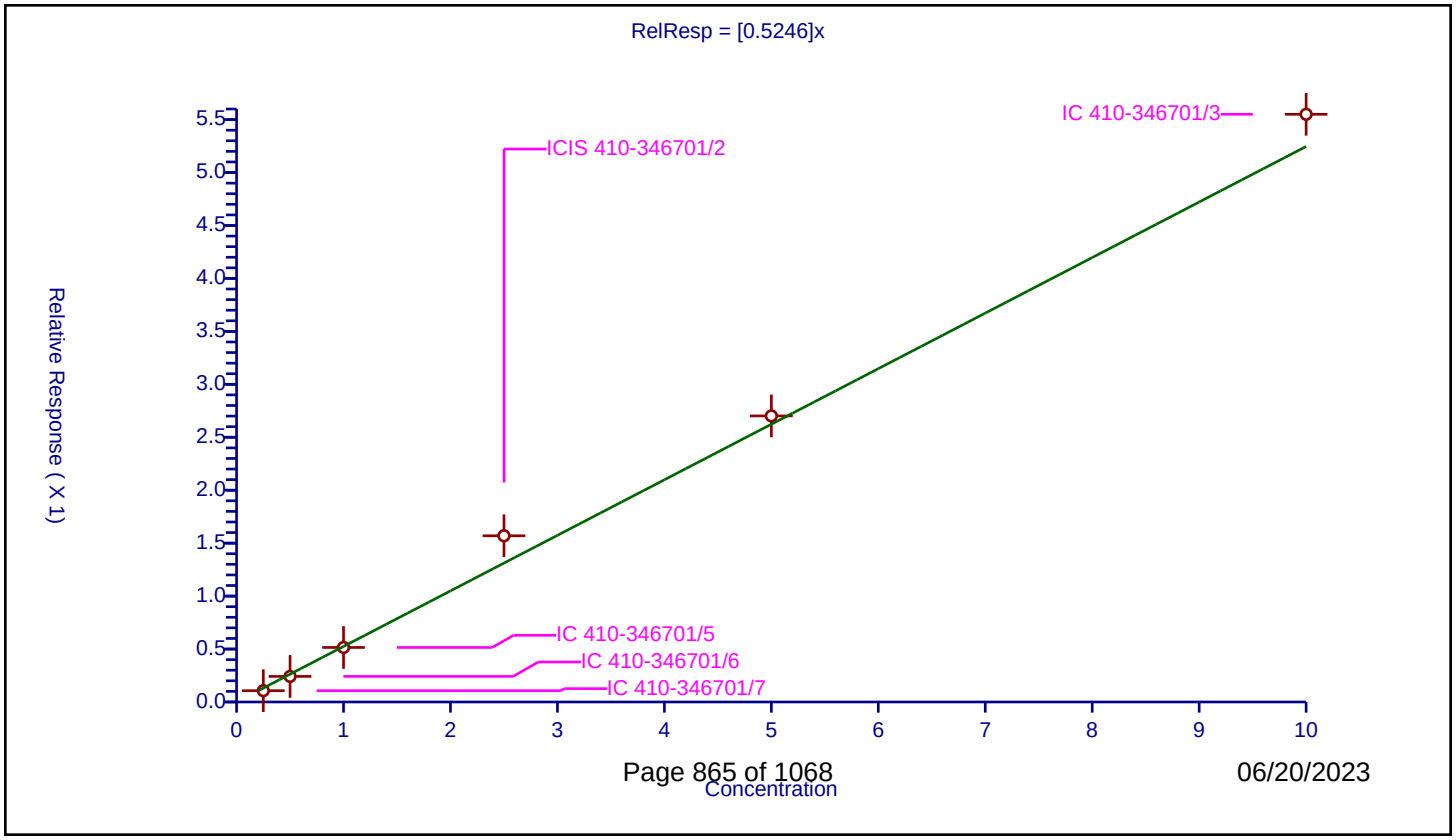
Curve Coefficients

Intercept:	0
Slope:	0.5246

Error Coefficients

Standard Error:	864000
Relative Standard Error:	13.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.25	0.106601	0.25	74605.0	0.426406	Y
2	IC 410-346701/6	0.5	0.241647	0.25	78928.0	0.483295	Y
3	IC 410-346701/5	1.0	0.514825	0.25	82226.0	0.514825	Y
4	ICIS 410-346701/2	2.5	1.569629	0.25	65447.0	0.627852	Y
5	IC 410-346701/4	5.0	2.701628	0.25	74645.0	0.540326	Y
6	IC 410-346701/3	10.0	5.550151	0.25	76404.0	0.555015	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

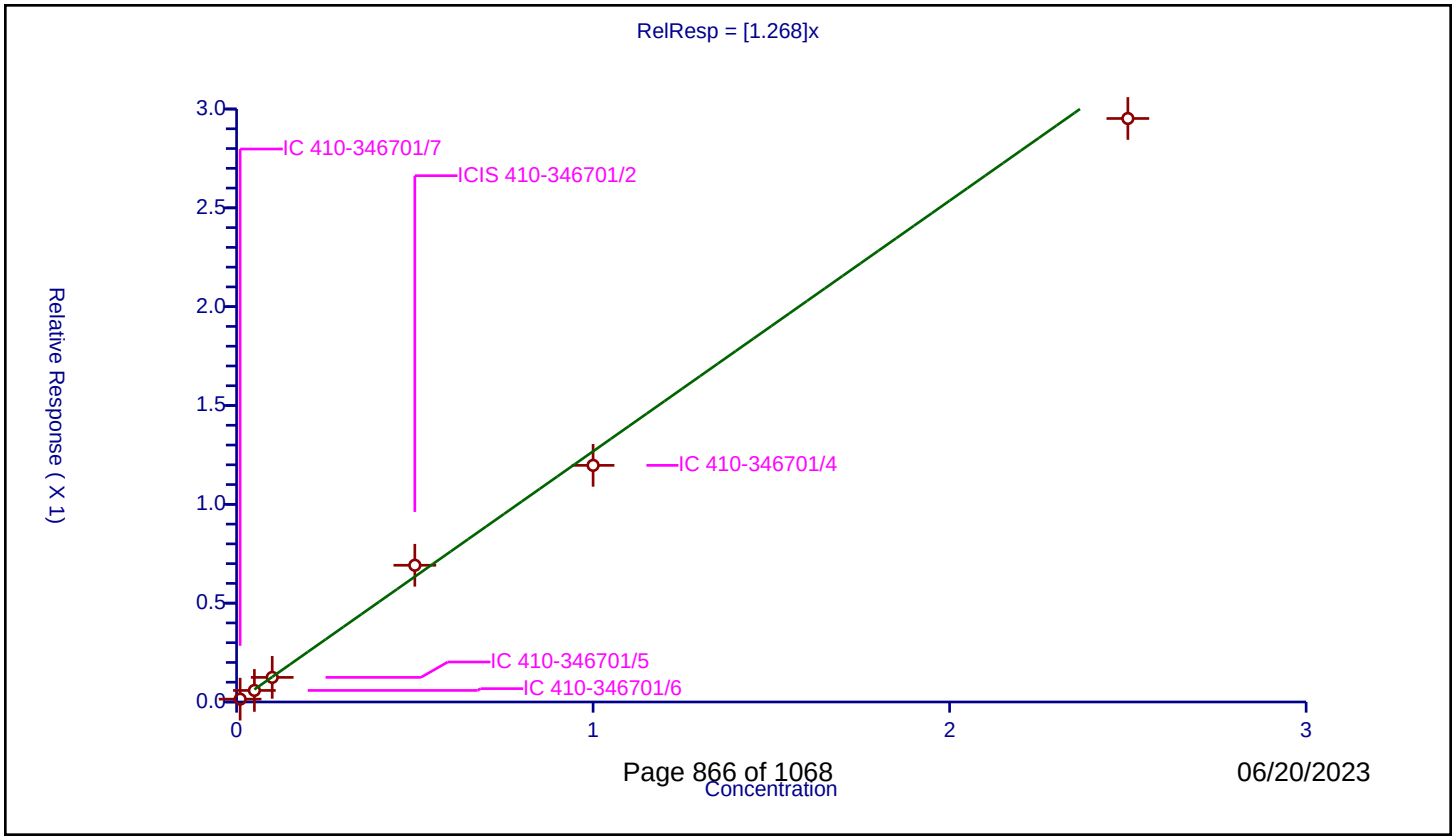
Curve Coefficients

Intercept:	0
Slope:	1.268

Error Coefficients

Standard Error:	442000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.014332	0.25	74605.0	1.433215	Y
2	IC 410-346701/6	0.05	0.05849	0.25	78928.0	1.1698	Y
3	IC 410-346701/5	0.1	0.124407	0.25	82226.0	1.244071	Y
4	ICIS 410-346701/2	0.5	0.69172	0.25	65447.0	1.38344	Y
5	IC 410-346701/4	1.0	1.197187	0.25	74645.0	1.197187	Y
6	IC 410-346701/3	2.5	2.952061	0.25	76404.0	1.180824	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

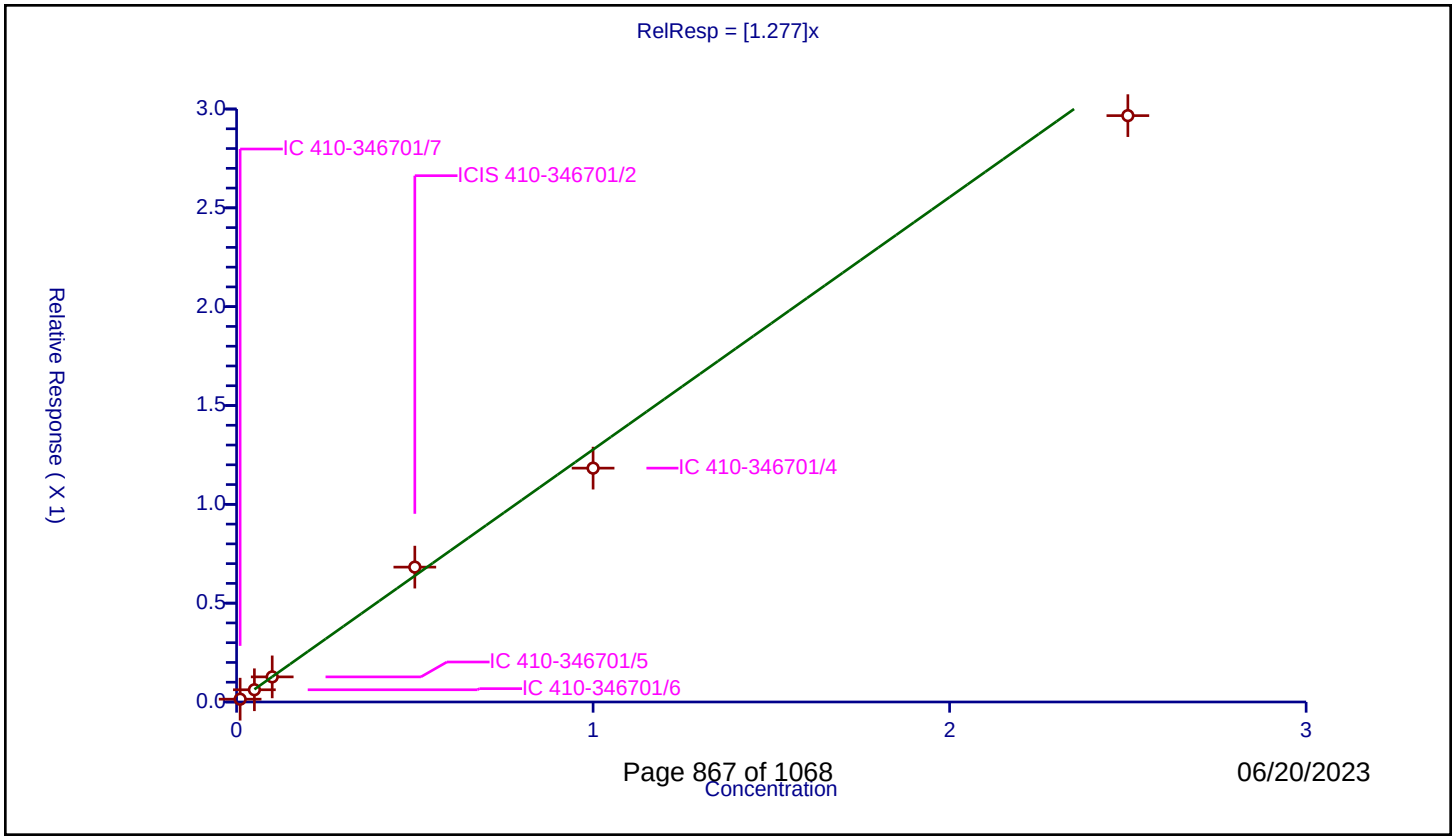
Curve Coefficients

Intercept:	0
Slope:	1.277

Error Coefficients

Standard Error:	443000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.014201	0.25	74605.0	1.420146	Y
2	IC 410-346701/6	0.05	0.061901	0.25	78928.0	1.238027	Y
3	IC 410-346701/5	0.1	0.126988	0.25	82226.0	1.269884	Y
4	ICIS 410-346701/2	0.5	0.682354	0.25	65447.0	1.364707	Y
5	IC 410-346701/4	1.0	1.183056	0.25	74645.0	1.183056	Y
6	IC 410-346701/3	2.5	2.96652	0.25	76404.0	1.186608	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

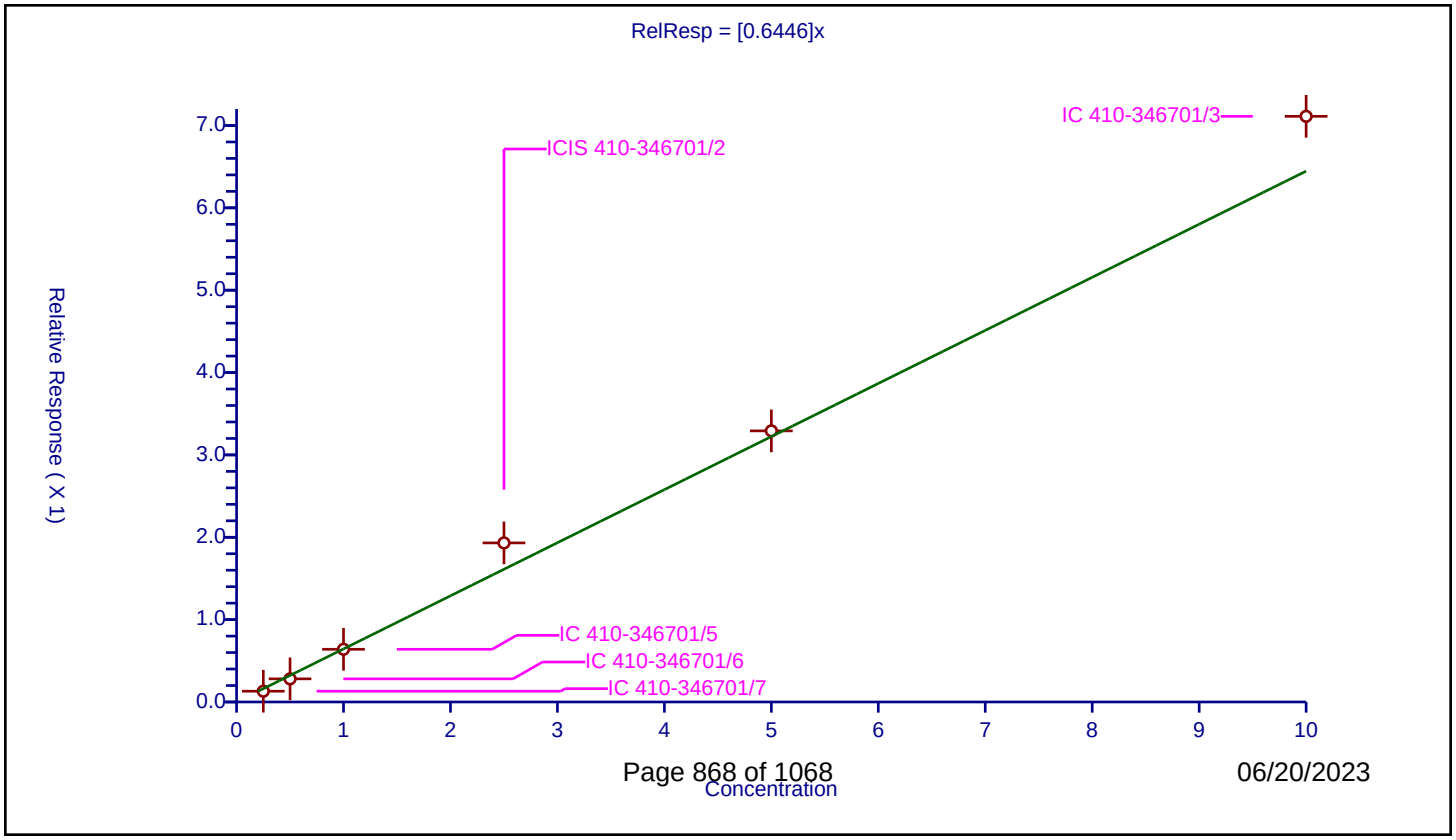
Curve Coefficients

Intercept:	0
Slope:	0.6446

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	14.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.25	0.130909	0.25	74605.0	0.523638	Y
2	IC 410-346701/6	0.5	0.28087	0.25	78928.0	0.56174	Y
3	IC 410-346701/5	1.0	0.639861	0.25	82226.0	0.639861	Y
4	ICIS 410-346701/2	2.5	1.931551	0.25	65447.0	0.772621	Y
5	IC 410-346701/4	5.0	3.291965	0.25	74645.0	0.658393	Y
6	IC 410-346701/3	10.0	7.111369	0.25	76404.0	0.711137	Y



Calibration / Di-n-octyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

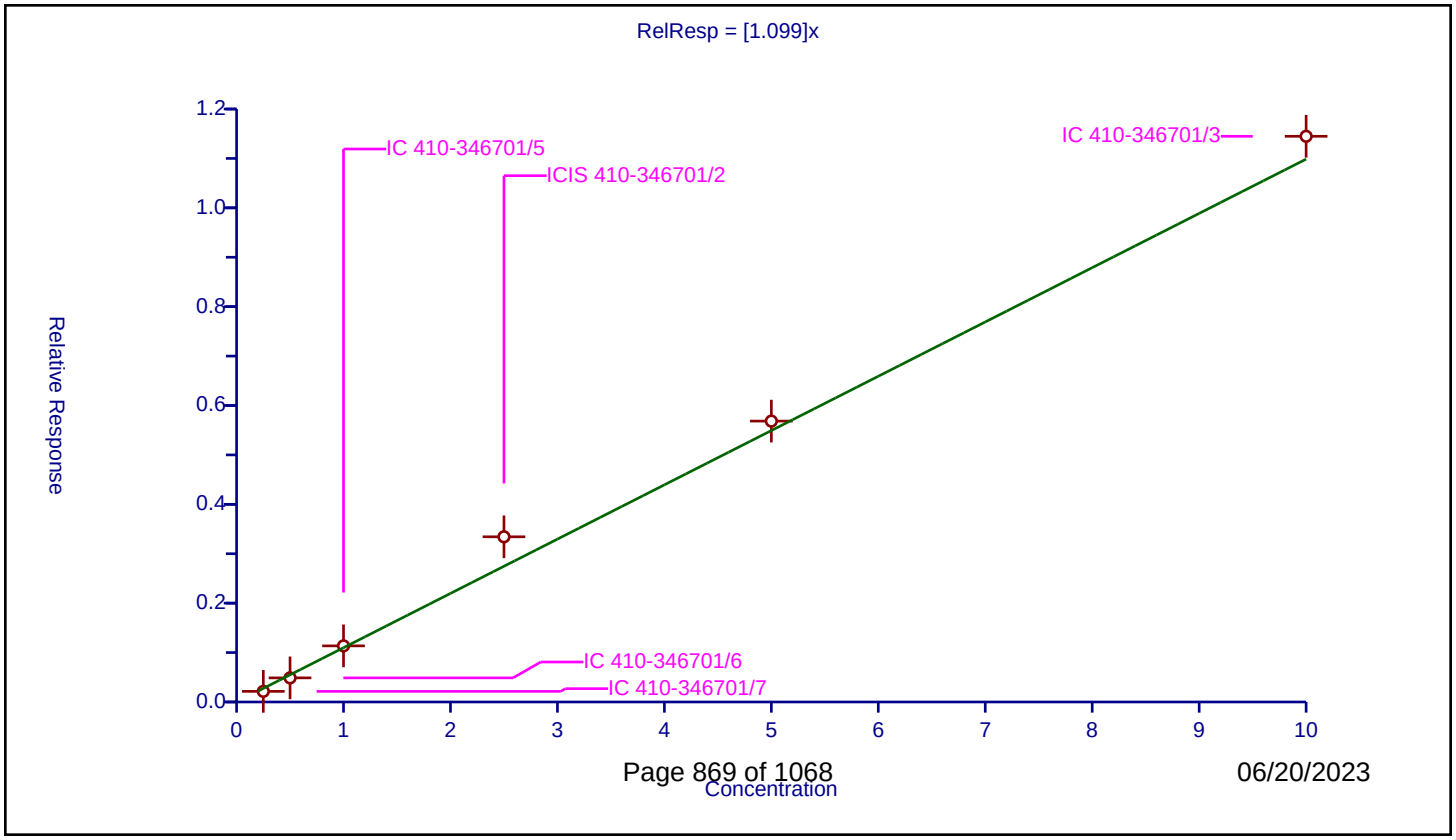
Curve Coefficients

Intercept:	0
Slope:	1.099

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	14.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.25	0.215227	0.25	62765.0	0.86091	Y
2	IC 410-346701/6	0.5	0.488341	0.25	66751.0	0.976682	Y
3	IC 410-346701/5	1.0	1.135443	0.25	69673.0	1.135443	Y
4	ICIS 410-346701/2	2.5	3.342637	0.25	61452.0	1.337055	Y
5	IC 410-346701/4	5.0	5.684169	0.25	69906.0	1.136834	Y
6	IC 410-346701/3	10.0	11.447692	0.25	78779.0	1.144769	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

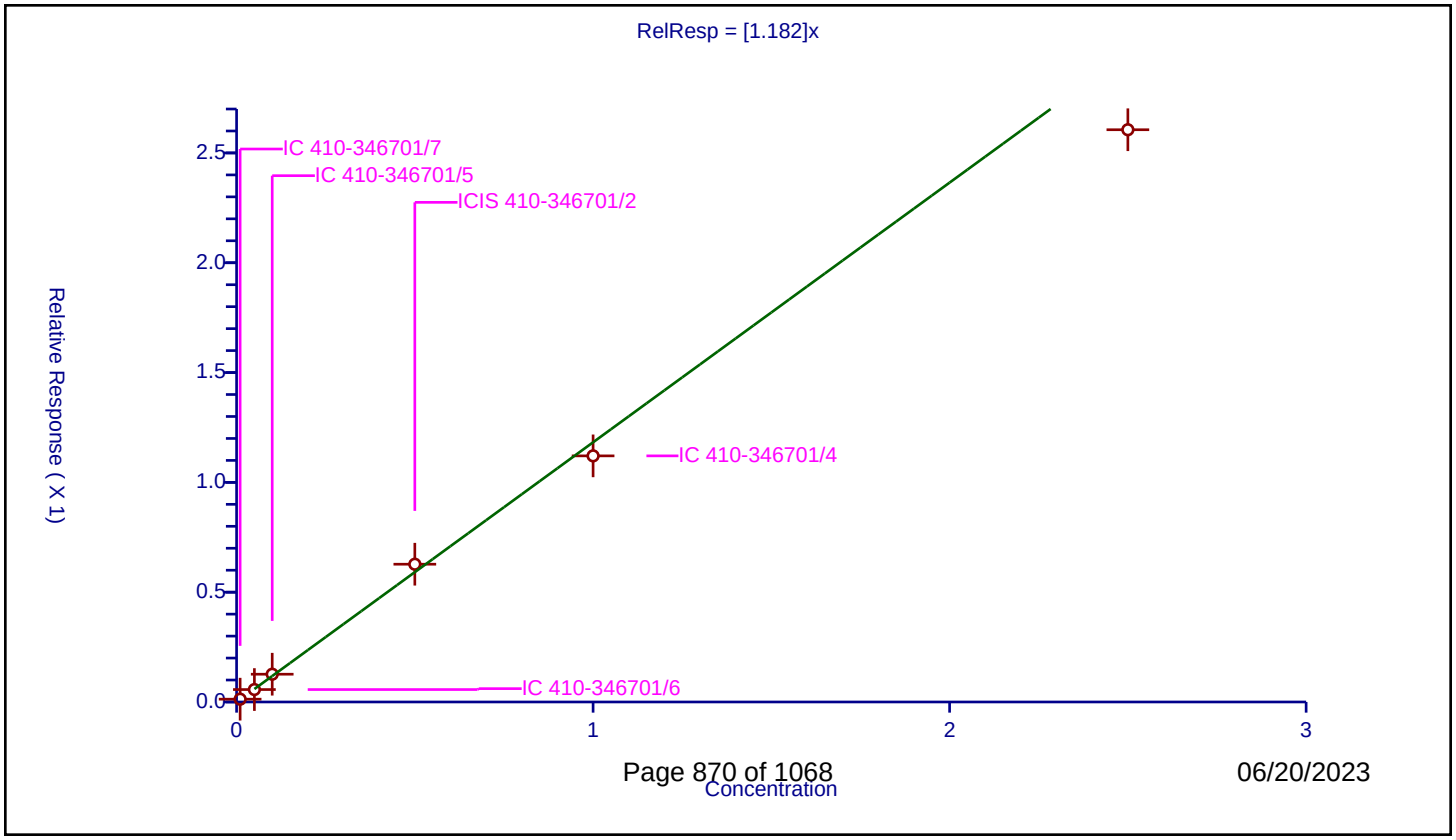
Curve Coefficients

Intercept:	0
Slope:	1.182

Error Coefficients

Standard Error:	399000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.01279	0.25	62765.0	1.278977	Y
2	IC 410-346701/6	0.05	0.056685	0.25	66751.0	1.133691	Y
3	IC 410-346701/5	0.1	0.126459	0.25	69673.0	1.264586	Y
4	ICIS 410-346701/2	0.5	0.627266	0.25	61452.0	1.254532	Y
5	IC 410-346701/4	1.0	1.120641	0.25	69906.0	1.120641	Y
6	IC 410-346701/3	2.5	2.605698	0.25	78779.0	1.042279	Y



Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

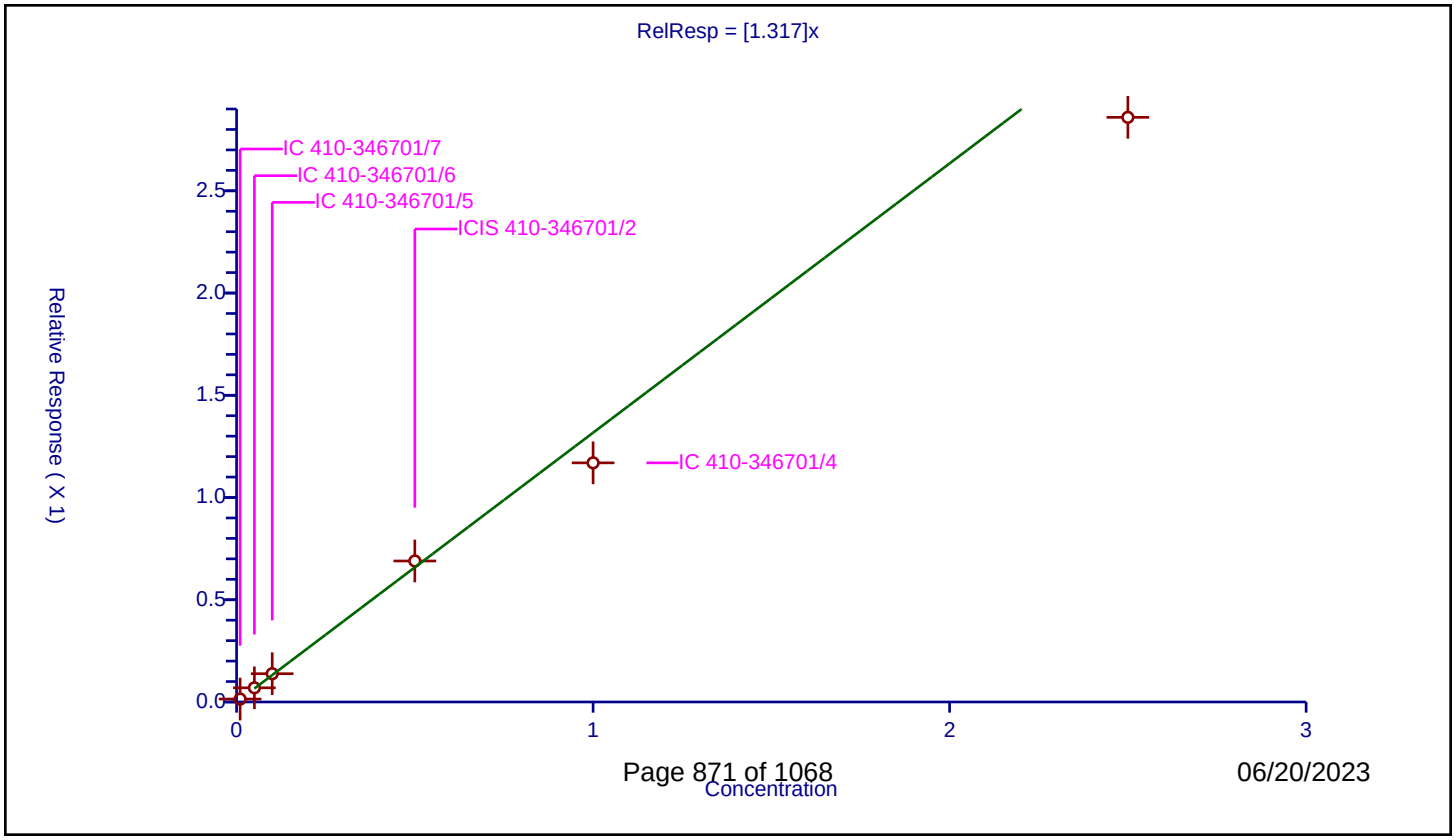
Curve Coefficients

Intercept:	0
Slope:	1.317

Error Coefficients

Standard Error:	436000
Relative Standard Error:	9.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.014391	0.25	62765.0	1.439098	Y
2	IC 410-346701/6	0.05	0.069321	0.25	66751.0	1.386421	Y
3	IC 410-346701/5	0.1	0.138357	0.25	69673.0	1.38357	Y
4	ICIS 410-346701/2	0.5	0.689575	0.25	61452.0	1.37915	Y
5	IC 410-346701/4	1.0	1.16947	0.25	69906.0	1.16947	Y
6	IC 410-346701/3	2.5	2.859274	0.25	78779.0	1.14371	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

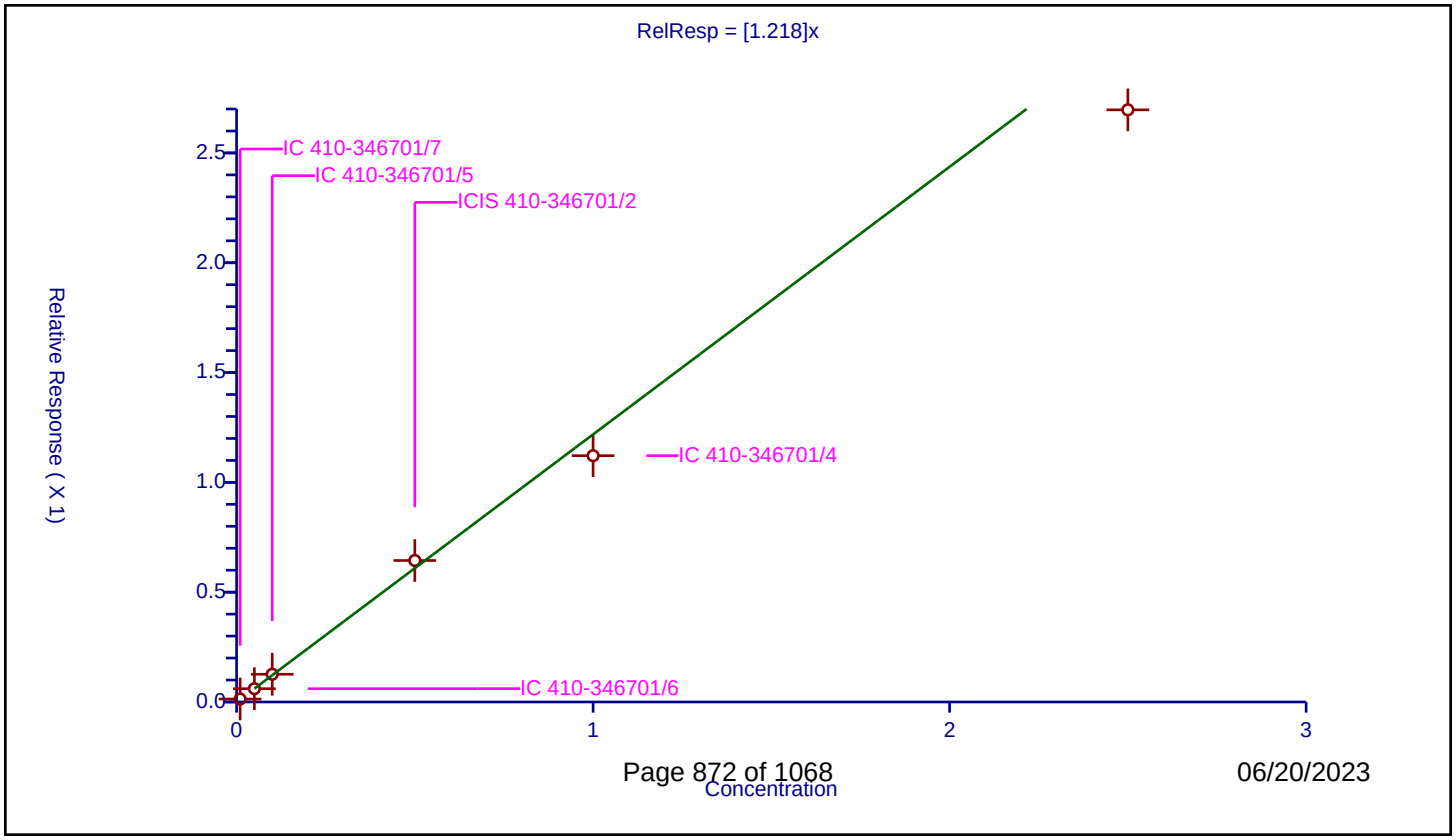
Curve Coefficients

Intercept:	0
Slope:	1.218

Error Coefficients

Standard Error:	412000
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	IC 410-346701/7	0.01	0.013499	0.25	62765.0	1.349877	Y
2	IC 410-346701/6	0.05	0.060542	0.25	66751.0	1.210843	Y
3	IC 410-346701/5	0.1	0.126161	0.25	69673.0	1.261608	Y
4	ICIS 410-346701/2	0.5	0.64423	0.25	61452.0	1.288461	Y
5	IC 410-346701/4	1.0	1.121499	0.25	69906.0	1.121499	Y
6	IC 410-346701/3	2.5	2.696232	0.25	78779.0	1.078493	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

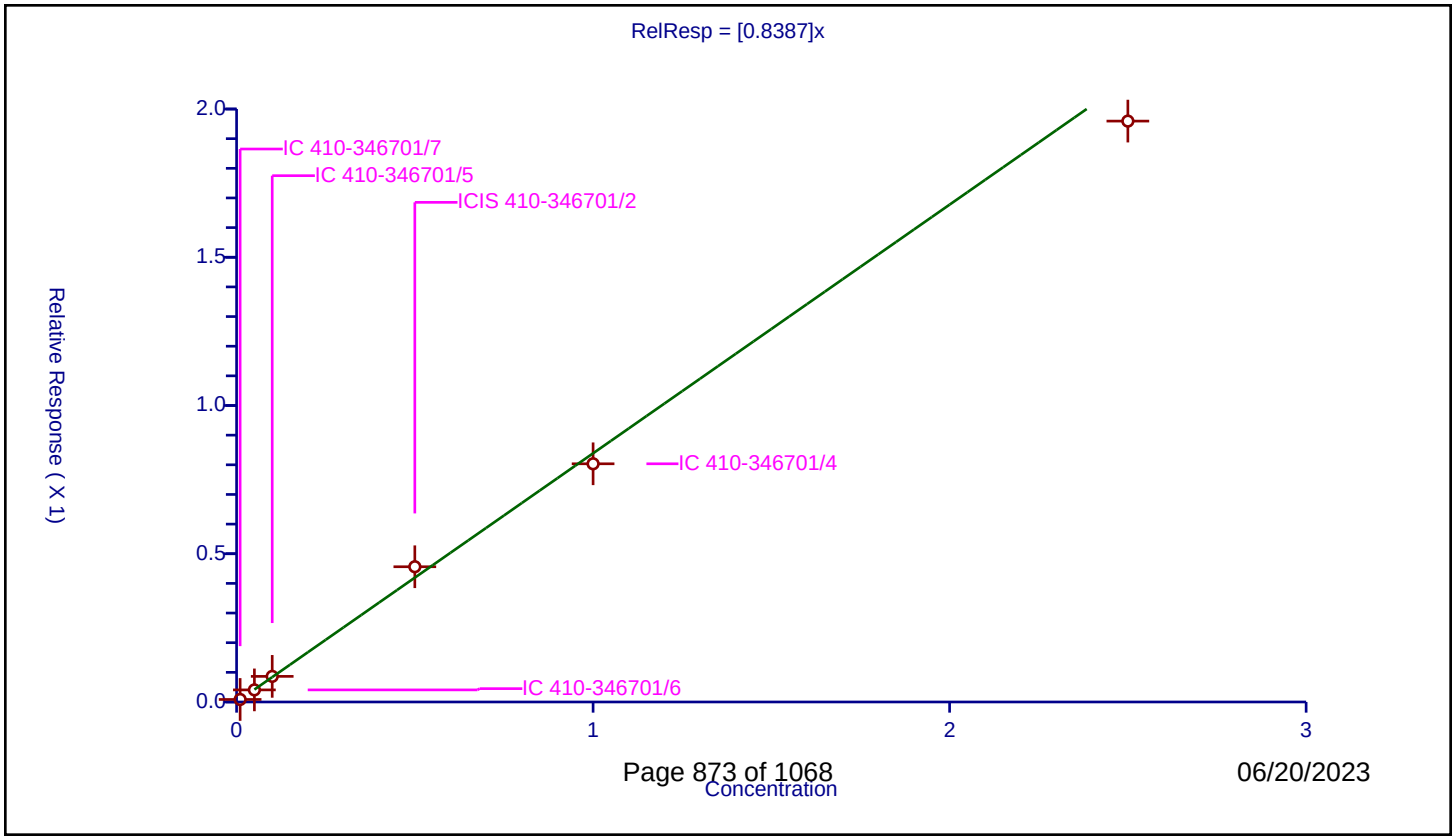
Curve Coefficients

Intercept:	0
Slope:	0.8387

Error Coefficients

Standard Error:	298000
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	IC 410-346701/7	0.01	0.008536	0.25	62765.0	0.853581	Y
2	IC 410-346701/6	0.05	0.040775	0.25	66751.0	0.815493	Y
3	IC 410-346701/5	0.1	0.086396	0.25	69673.0	0.863965	Y
4	ICIS 410-346701/2	0.5	0.456124	0.25	61452.0	0.912249	Y
5	IC 410-346701/4	1.0	0.803443	0.25	69906.0	0.803443	Y
6	IC 410-346701/3	2.5	1.959237	0.25	78779.0	0.783695	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

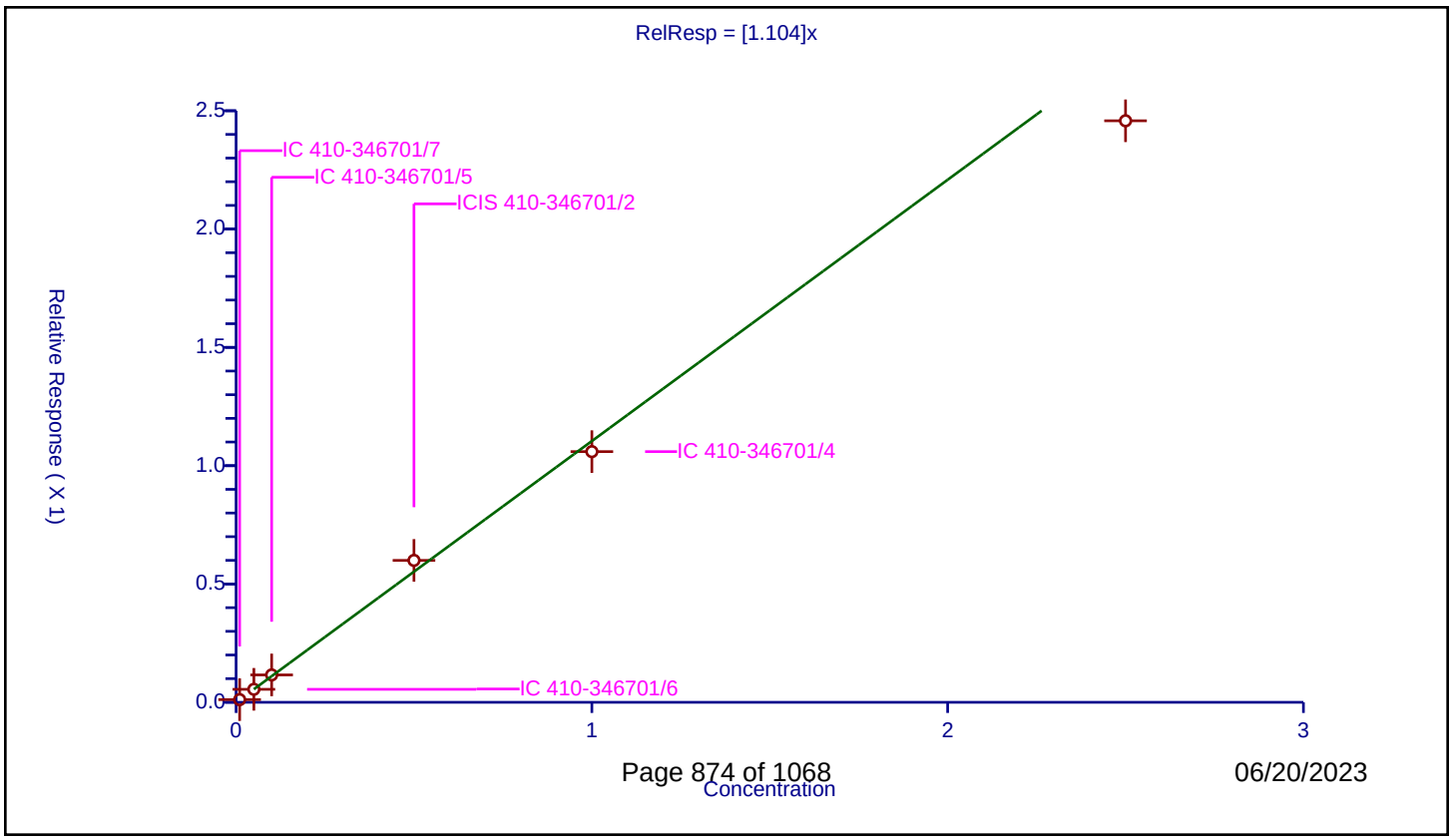
Curve Coefficients

Intercept:	0
Slope:	1.104

Error Coefficients

Standard Error:	377000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.01126	0.25	62765.0	1.126026	Y
2	IC 410-346701/6	0.05	0.054947	0.25	66751.0	1.098935	Y
3	IC 410-346701/5	0.1	0.115794	0.25	69673.0	1.157945	Y
4	ICIS 410-346701/2	0.5	0.599732	0.25	61452.0	1.199465	Y
5	IC 410-346701/4	1.0	1.059433	0.25	69906.0	1.059433	Y
6	IC 410-346701/3	2.5	2.457584	0.25	78779.0	0.983034	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

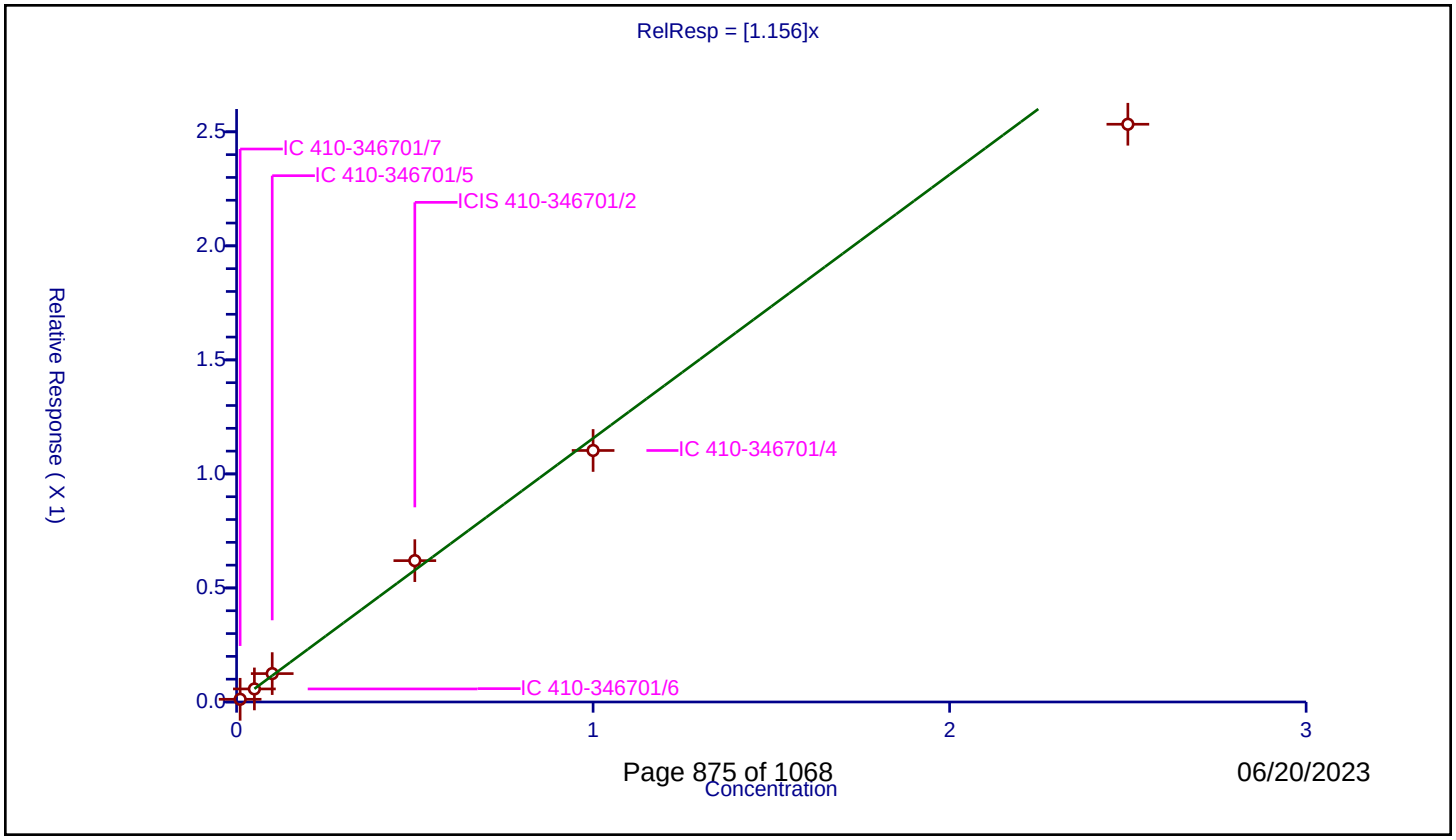
Curve Coefficients

Intercept:	0
Slope:	1.156

Error Coefficients

Standard Error:	389000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.01191	0.25	62765.0	1.19095	Y
2	IC 410-346701/6	0.05	0.057254	0.25	66751.0	1.145076	Y
3	IC 410-346701/5	0.1	0.124521	0.25	69673.0	1.24521	Y
4	ICIS 410-346701/2	0.5	0.619809	0.25	61452.0	1.239618	Y
5	IC 410-346701/4	1.0	1.102795	0.25	69906.0	1.102795	Y
6	IC 410-346701/3	2.5	2.533242	0.25	78779.0	1.013297	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

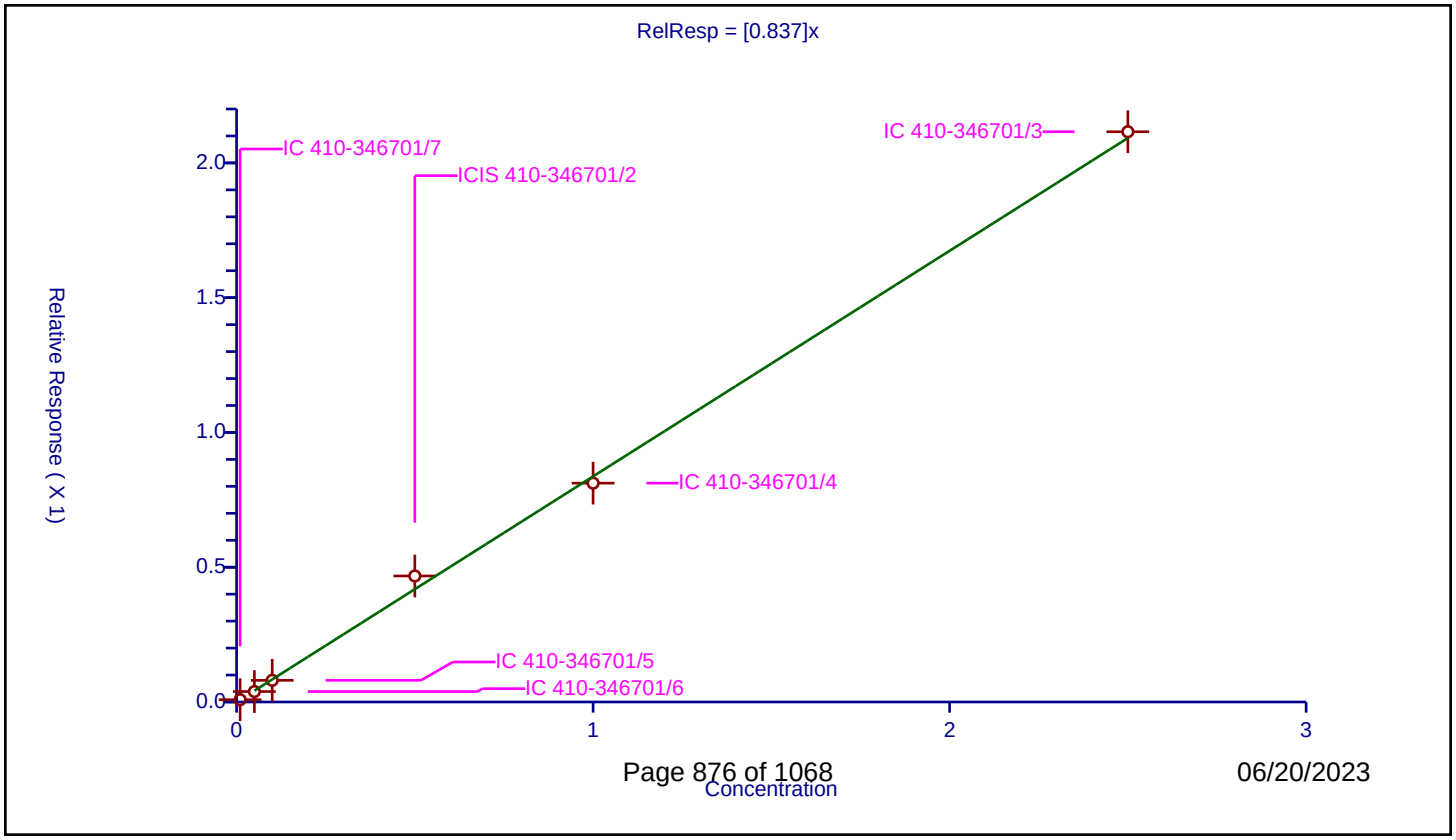
Curve Coefficients

Intercept:	0
Slope:	0.837

Error Coefficients

Standard Error:	319000
Relative Standard Error:	6.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.008488	0.25	62765.0	0.848801	Y
2	IC 410-346701/6	0.05	0.038775	0.25	66751.0	0.775494	Y
3	IC 410-346701/5	0.1	0.080411	0.25	69673.0	0.804114	Y
4	ICIS 410-346701/2	0.5	0.467523	0.25	61452.0	0.935047	Y
5	IC 410-346701/4	1.0	0.811962	0.25	69906.0	0.811962	Y
6	IC 410-346701/3	2.5	2.115754	0.25	78779.0	0.846302	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

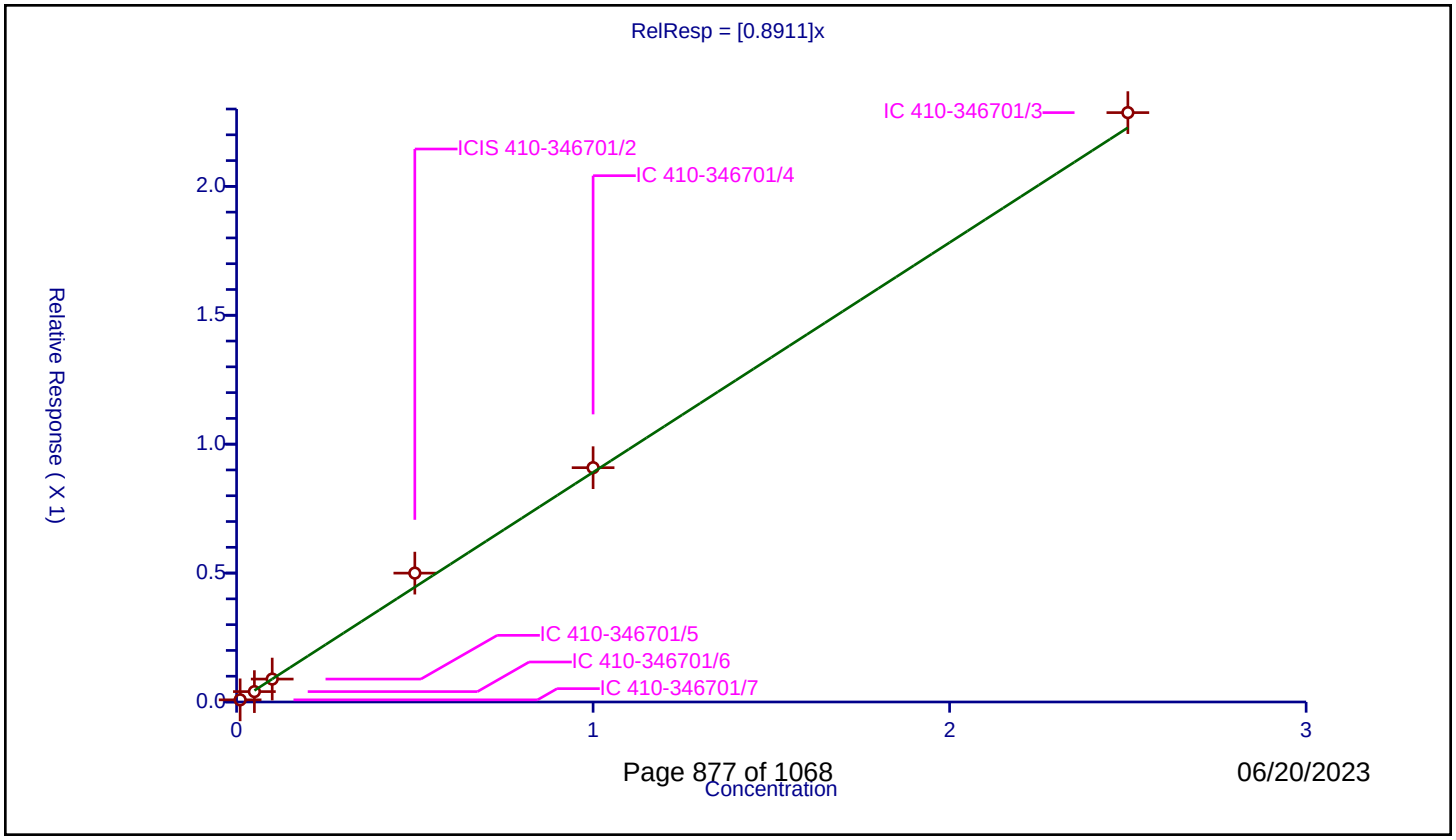
Curve Coefficients

Intercept:	0
Slope:	0.8911

Error Coefficients

Standard Error:	346000
Relative Standard Error:	7.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-346701/7	0.01	0.008285	0.25	62765.0	0.828487	Y
2	IC 410-346701/6	0.05	0.040273	0.25	66751.0	0.805456	Y
3	IC 410-346701/5	0.1	0.08894	0.25	69673.0	0.889405	Y
4	ICIS 410-346701/2	0.5	0.49989	0.25	61452.0	0.99978	Y
5	IC 410-346701/4	1.0	0.90886	0.25	69906.0	0.90886	Y
6	IC 410-346701/3	2.5	2.286034	0.25	78779.0	0.914414	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

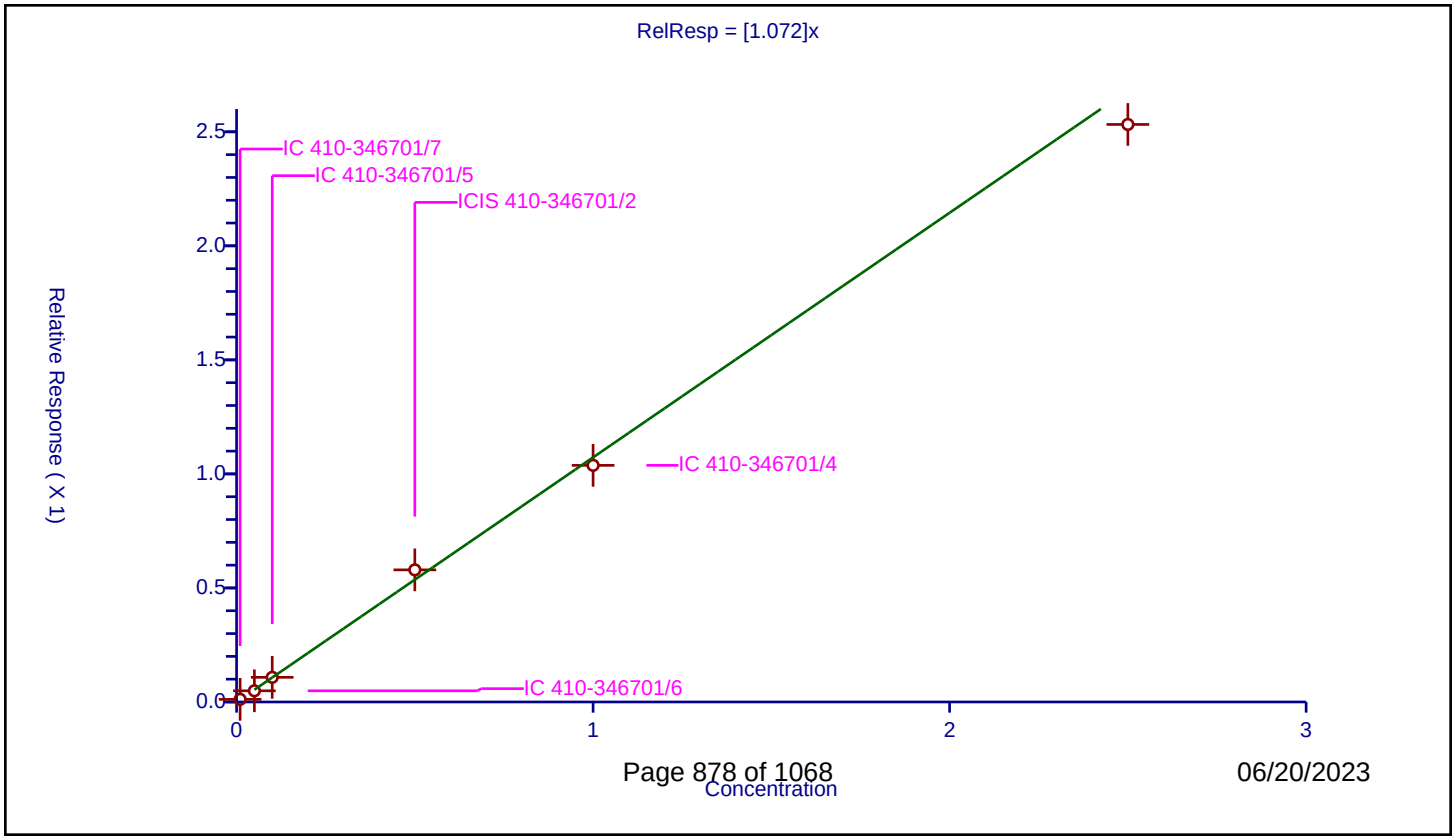
Curve Coefficients

Intercept:	0
Slope:	1.072

Error Coefficients

Standard Error:	385000
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	IC 410-346701/7	0.01	0.011635	0.25	62765.0	1.163467	Y
2	IC 410-346701/6	0.05	0.049085	0.25	66751.0	0.981708	Y
3	IC 410-346701/5	0.1	0.108066	0.25	69673.0	1.080655	Y
4	ICIS 410-346701/2	0.5	0.57931	0.25	61452.0	1.15862	Y
5	IC 410-346701/4	1.0	1.037565	0.25	69906.0	1.037565	Y
6	IC 410-346701/3	2.5	2.532315	0.25	78779.0	1.012926	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-130132-1

SDG No.:

Lab Sample ID (1): ICIS 410-346701/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0.2 ID: 0.25(mm) Date Analyzed (1): 02/21/2023 22:48

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.94	20.90

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0451a.D				
Injection Date:	21-Feb-2023 22:48:30	Instrument ID:	HP23263		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

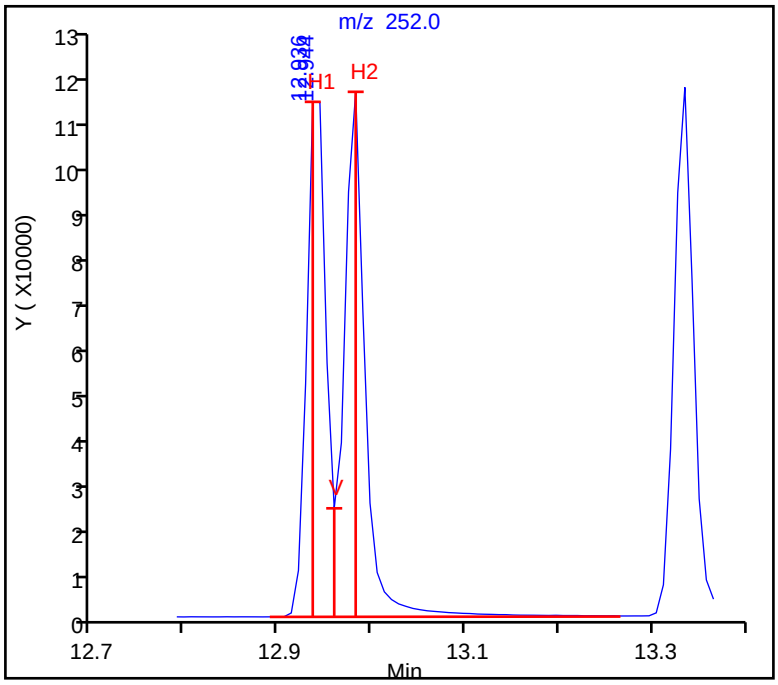
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 22450
H1(33 Benzo[b]fluoranthen) = 106534
H2(34 Benzo[k]fluoranthen) = 108597

Version D: %R = 20.9 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-130132-1

SDG No.:

Lab Sample ID (1): ICIS 410-368078/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0.2 ID: 0.25(mm) Date Analyzed (1): 04/25/2023 06:05

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.77	21.30

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0951.D				
Injection Date:	25-Apr-2023 06:05:40	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

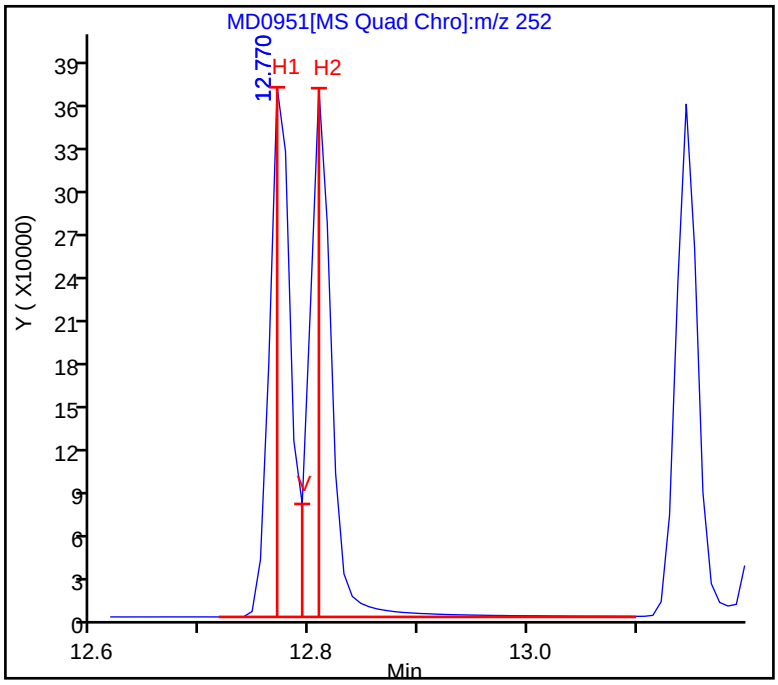
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 79406
H1(33 Benzo[b]fluoranthen) = 372286
H2(34 Benzo[k]fluoranthen) = 371645

Version D: %R = 21.3 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-130132-1

SDG No.:

Lab Sample ID (1): CCVIS 410-386832/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0.2 ID: 0.25(mm) Date Analyzed (1): 06/15/2023 05:48

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.72	20.20

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1071.D				
Injection Date:	15-Jun-2023 05:48:46	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

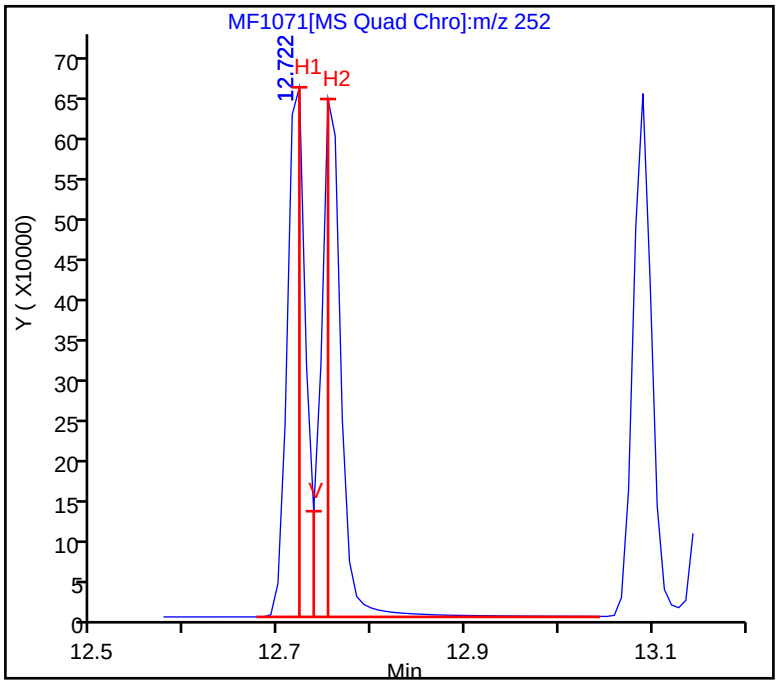
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 130799
H1(33 Benzo[b]fluoranthen) = 654732
H2(34 Benzo[k]fluoranthen) = 640192

Version D: %R = 20.2 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-130132-1

SDG No.:

Lab Sample ID (1): CCVIS 410-387377/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0.2 ID: 0.25(mm) Date Analyzed (1): 06/16/2023 04:50

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.72	20.90

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1151.D				
Injection Date:	16-Jun-2023 04:50:25	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

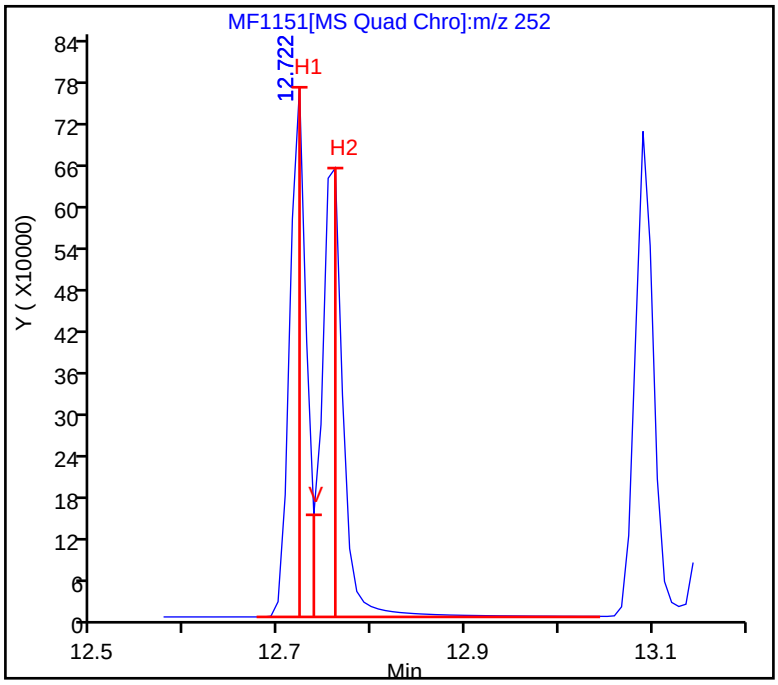
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 147274
H1(33 Benzo[b]fluoranthen) = 763799
H2(34 Benzo[k]fluoranthen) = 647281

Version D: %R = 20.9 <= 50.0
Passed



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-130132-1

SDG No.:

Lab Sample ID (1): CCVIS 410-388200/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0.2 ID: 0.25(mm) Date Analyzed (1): 06/19/2023 12:18

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	12.85	22.60

Resolution Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1051.D				
Injection Date:	19-Jun-2023 12:18:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

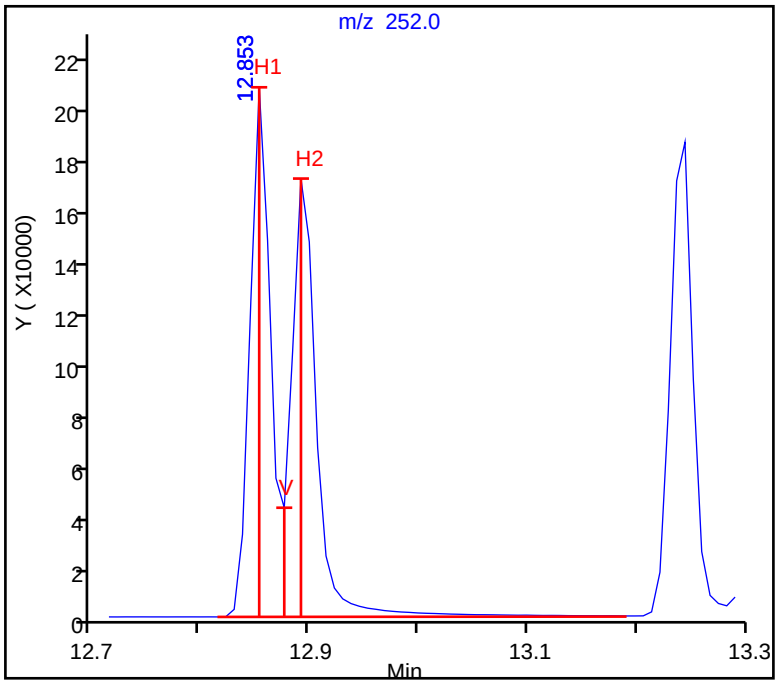
33 Benzo[b]fluoranthene - 34 Benzo[k]fluoranthene

SW-846 Method

Version D: %R = (V / ((H1 + H2)/2)) * 100

V (Valley Height) = 42393
H1(33 Benzo[b]fluoranthen) = 205713
H2(34 Benzo[k]fluoranthen) = 170244

Version D: %R = 22.6 <= 50.0
Passed



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: ICV 410-368078/9 Calibration Date: 04/25/2023 08:53

Instrument ID: HP21585 Calib Start Date: 04/25/2023 06:05

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 04/25/2023 08:11

Lab File ID: MD0958.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6132	0.6304		0.257	0.250	2.8	30.0
N-Nitrosodimethylamine	Ave	0.7683	0.7805		0.254	0.250	1.6	30.0
Bis(2-chloroethyl)ether	Ave	0.4027	0.3998		0.248	0.250	-0.7	30.0
Naphthalene	Ave	1.162	1.135		0.244	0.250	-2.3	30.0
2-Methylnaphthalene	Ave	0.7779	0.7112		0.229	0.250	-8.6	30.0
1-Methylnaphthalene	Ave	0.7261	0.6719		0.231	0.250	-7.5	30.0
Dimethyl phthalate	Ave	1.340	1.368		0.255	0.250	2.0	30.0
Acenaphthylene	Ave	1.869	1.759		0.235	0.250	-5.9	30.0
Acenaphthene	Ave	1.211	1.228		0.254	0.250	1.4	30.0
Dibenzofuran	Ave	2.110	1.979		0.234	0.250	-6.2	30.0
Diethyl phthalate	Ave	1.202	1.230		0.256	0.250	2.3	30.0
Fluorene	Ave	1.547	1.465		0.237	0.250	-5.3	30.0
N-Nitrosodiphenylamine	Ave	0.4512	0.5746		0.271	0.213	27.3	30.0
Hexachlorobenzene	Ave	0.3164	0.2748		0.217	0.250	-13.1	30.0
Phenanthrene	Ave	1.243	1.110		0.223	0.250	-10.7	30.0
Anthracene	Ave	1.079	1.022		0.237	0.250	-5.3	30.0
Di-n-butyl phthalate	Ave	0.8543	0.7661		0.224	0.250	-10.3	30.0
Fluoranthene	Ave	1.394	1.154		0.207	0.250	-17.2	30.0
Pyrene	Ave	1.606	1.371		0.213	0.250	-14.6	30.0
Butyl benzyl phthalate	Ave	0.3731	0.2858		0.192	0.250	-23.4	30.0
Benzo[a]anthracene	Ave	1.309	1.096		0.209	0.250	-16.3	30.0
Chrysene	Ave	1.592	1.367		0.215	0.250	-14.1	30.0
Bis(2-ethylhexyl) phthalate	Lin2		0.3481		0.263	0.250	5.1	30.0
Di-n-octyl phthalate	Ave	0.7355	0.5096		0.173	0.250	-30.7*	30.0
Benzo[b]fluoranthene	Ave	1.321	1.206		0.228	0.250	-8.7	30.0
Benzo[k]fluoranthene	Ave	1.409	1.438		0.255	0.250	2.1	30.0
Benzo[a]pyrene	Ave	1.195	1.051		0.220	0.250	-12.1	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.099	1.003		0.228	0.250	-8.7	30.0
Dibenz(a,h)anthracene	Ave	1.267	1.206		0.238	0.250	-4.8	30.0
Benzo[g,h,i]perylene	Ave	1.400	1.305		0.233	0.250	-6.8	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0958.D
Lims ID: ICV FULL
Client ID:
Sample Type: ICV
Inject. Date: 25-Apr-2023 08:53:55 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV FULL
Misc. Info.: 410-0082279-009, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 09:32:00 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 09:21:19

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.679	1.687	-0.008	84	33521	0.2500	0.2570	M
	2 N-Nitrosodimethylamine	74	1.973	1.999	-0.026	88	41502	0.2500	0.2540	
	3 Bis(2-chloroethyl)ether	93	4.243	4.243	0.000	87	72196	0.2500	0.2482	
*	4 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	99	53176	0.2500	0.2500	
*	5 Naphthalene-d8	136	5.718	5.718	0.000	91	180588	0.2500	0.2500	
	6 Naphthalene	128	5.743	5.743	0.000	92	204888	0.2500	0.2442	
	8 2-Methylnaphthalene	142	6.401	6.401	0.000	95	128428	0.2500	0.2286	
	10 1-Methylnaphthalene	142	6.490	6.490	0.000	98	121345	0.2500	0.2314	
	11 Dimethyl phthalate	163	7.140	7.140	0.000	75	139186	0.2500	0.2551	
	12 Acenaphthylene	152	7.248	7.248	0.000	98	179039	0.2500	0.2353	M
*	13 Acenaphthene-d10	164	7.386	7.386	0.000	93	101771	0.2500	0.2500	
	14 Acenaphthene	154	7.416	7.415	0.001	90	125019	0.2500	0.2536	
	15 Dibenzofuran	168	7.583	7.583	0.000	96	201366	0.2500	0.2345	
	16 Diethyl phthalate	149	7.810	7.810	0.000	99	125159	0.2500	0.2558	
	17 Fluorene	166	7.904	7.904	0.000	98	149103	0.2500	0.2368	
	18 N-Nitrosodiphenylamine	169	8.021	8.028	-0.007	99	100458	0.2125	0.2706	
	19 Hexachlorobenzene	284	8.427	8.426	0.001	89	56529	0.2500	0.2172	
*	20 Phenanthrene-d10	188	8.794	8.793	0.001	95	205679	0.2500	0.2500	
	21 Phenanthrene	178	8.817	8.817	0.000	100	228303	0.2500	0.2233	
	22 Anthracene	178	8.864	8.864	0.000	100	210135	0.2500	0.2367	
	23 Di-n-butyl phthalate	149	9.372	9.371	0.001	100	157574	0.2500	0.2242	
	25 Fluoranthene	202	9.942	9.942	0.000	99	237335	0.2500	0.2069	
	26 Pyrene	202	10.155	10.155	0.000	98	253033	0.2500	0.2135	
	27 Butyl benzyl phthalate	149	10.822	10.821	0.001	100	52749	0.2500	0.1915	
	28 Benzo[a]anthracene	228	11.397	11.397	0.000	100	202280	0.2500	0.2093	
*	29 Chrysene-d12	240	11.412	11.412	0.000	63	184574	0.2500	0.2500	
	30 Chrysene	228	11.443	11.443	0.000	100	252368	0.2500	0.2147	
	31 Bis(2-ethylhexyl) phthalate	149	11.489	11.489	0.000	100	64255	0.2500	0.2628	
	32 Di-n-octyl phthalate	149	12.333	12.332	0.001	100	91040	0.2500	0.1732	
	33 Benzo[b]fluoranthene	252	12.770	12.770	0.000	100	215529	0.2500	0.2283	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.808	12.808	0.000	100	256916	0.2500	0.2552	
37 Benzo[a]pyrene	252	13.215	13.214	0.001	100	187788	0.2500	0.2198	
* 38 Perylene-d12	264	13.291	13.291	0.000	100	178648	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.837	14.836	0.001	99	179229	0.2500	0.2282	M
41 Dibenz(a,h)anthracene	278	14.886	14.886	0.000	96	215367	0.2500	0.2379	
42 Benzo[g,h,i]perylene	276	15.253	15.253	0.000	96	233191	0.2500	0.2331	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00037 Amount Added: 1.00 Units: mL

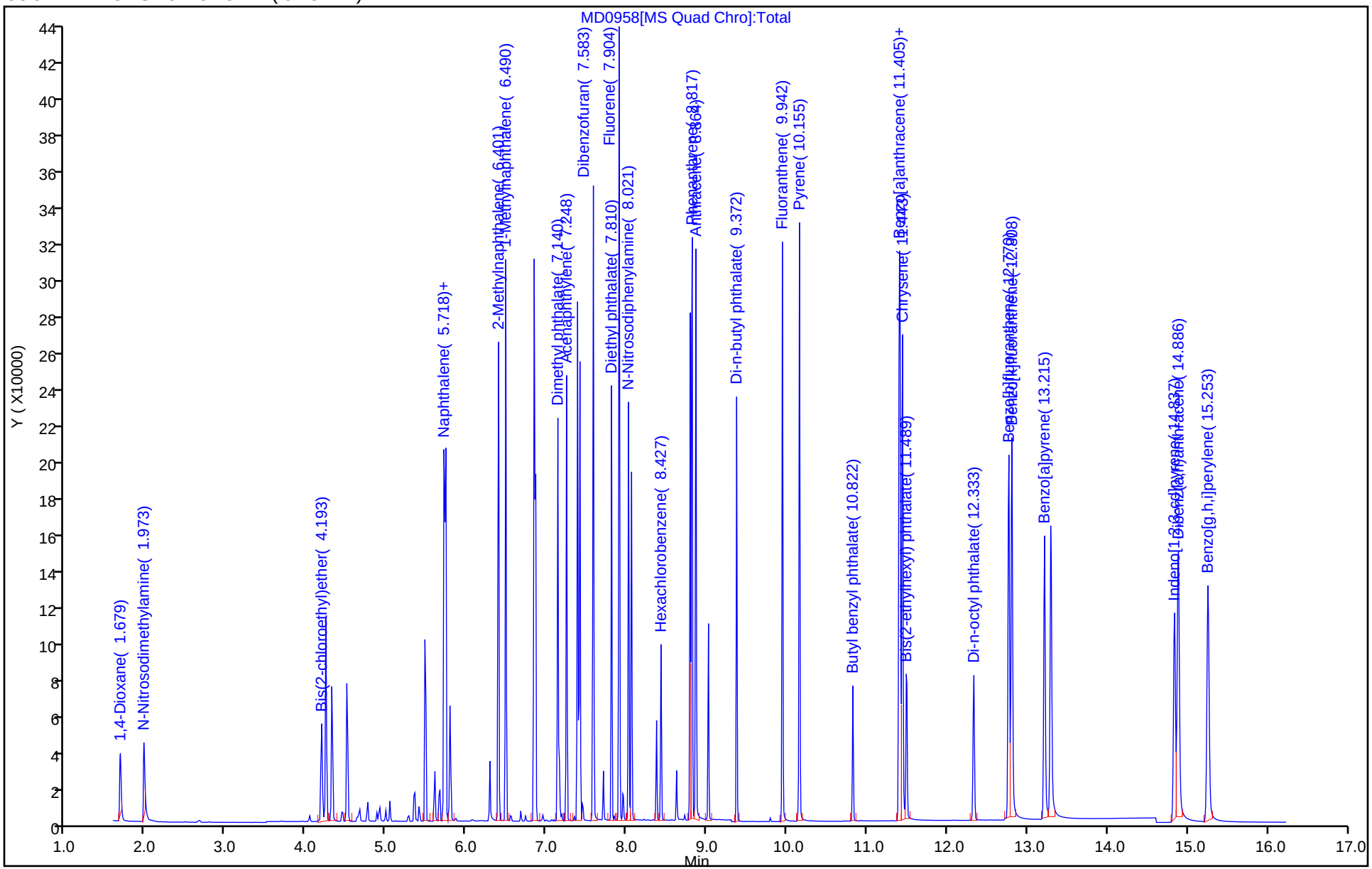
Report Date: 25-Apr-2023 09:32:02 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0958.D

Injection Date:	25-Apr-2023 08:53:55	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV FULL			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

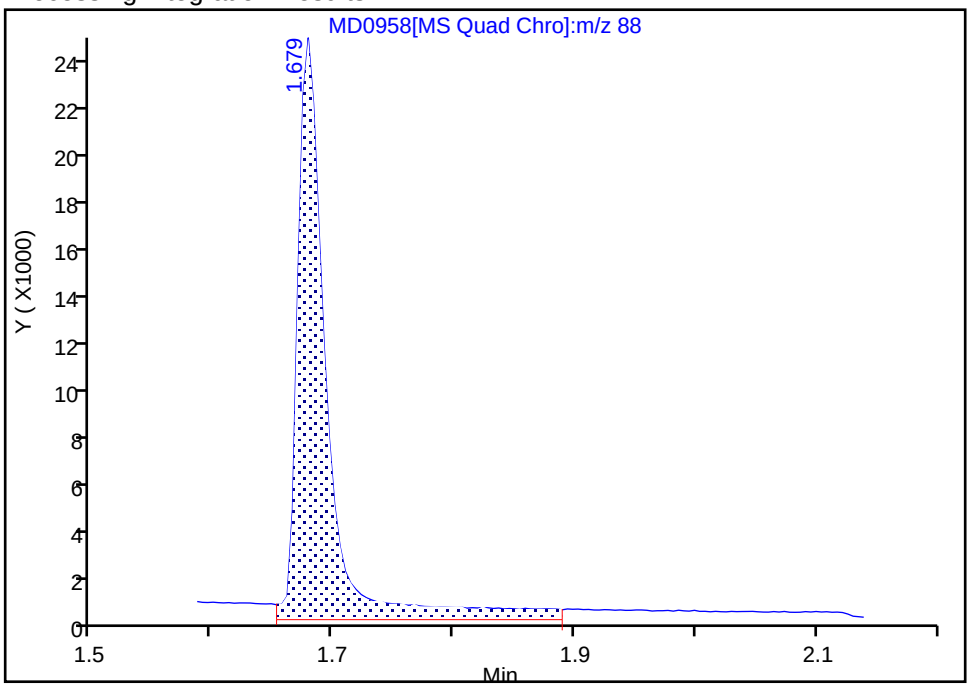
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0958.D				
Injection Date:	25-Apr-2023 08:53:55	Instrument ID:	HP21585		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

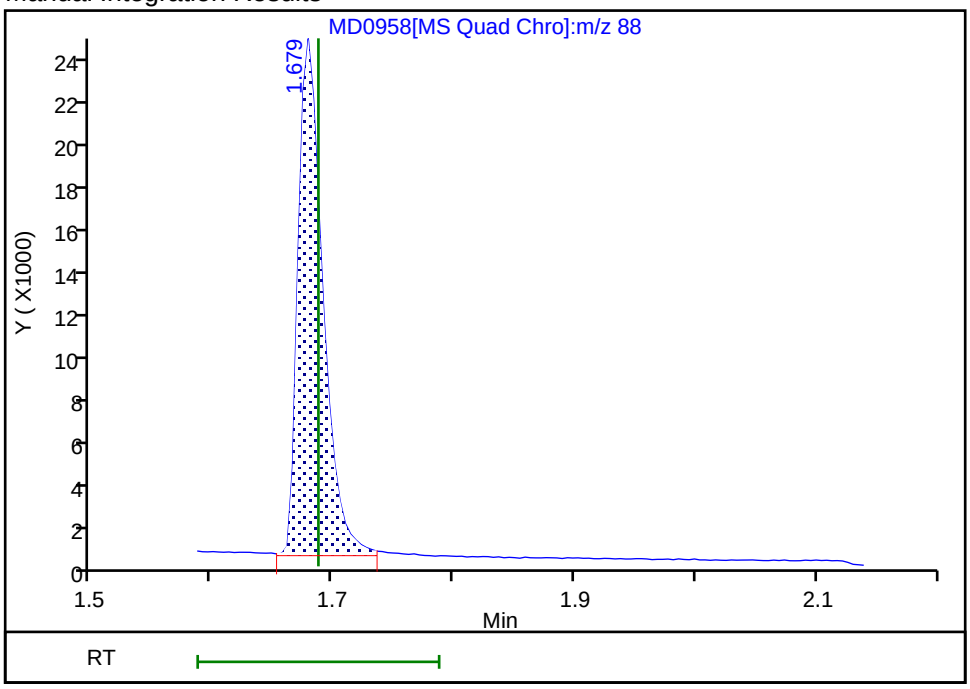
Processing Integration Results

RT: 1.68
Area: 41603
Amount: 0.318988
Amount Units: ug/ml



Manual Integration Results

RT: 1.68
Area: 33521
Amount: 0.257020
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:17:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

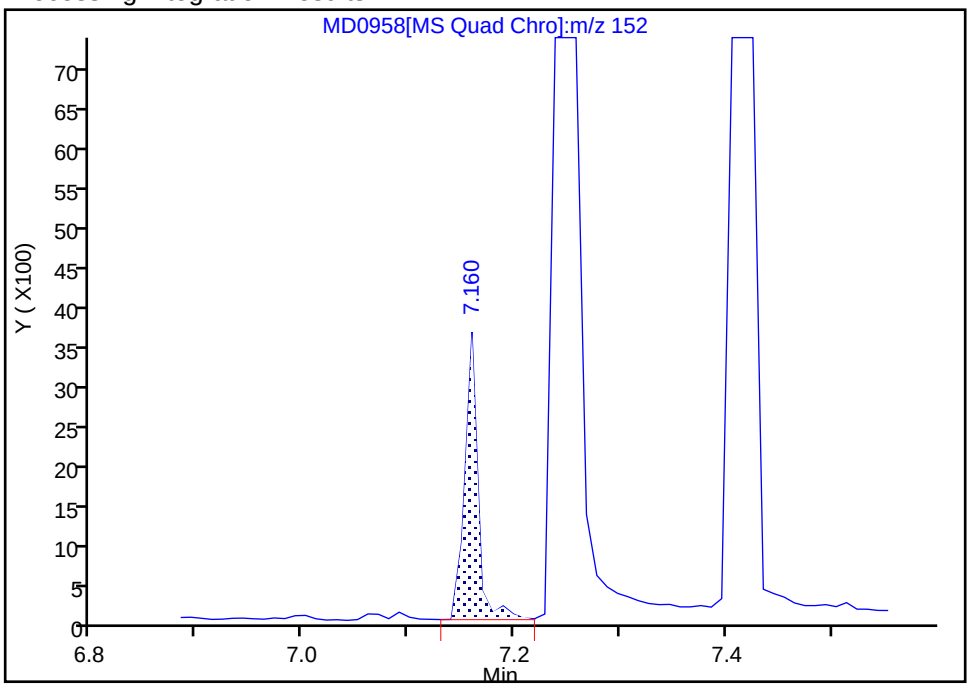
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0958.D				
Injection Date:	25-Apr-2023 08:53:55	Instrument ID:	HP21585		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

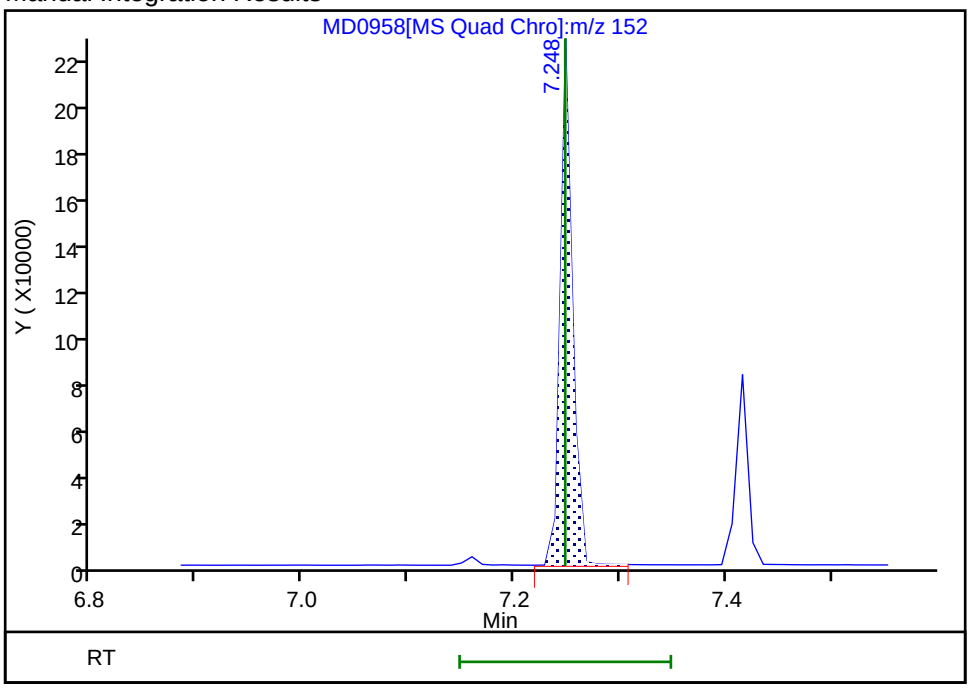
Processing Integration Results

RT: 7.16
Area: 3073
Amount: 0.004039
Amount Units: ug/ml



Manual Integration Results

RT: 7.25
Area: 179039
Amount: 0.235330
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:17:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

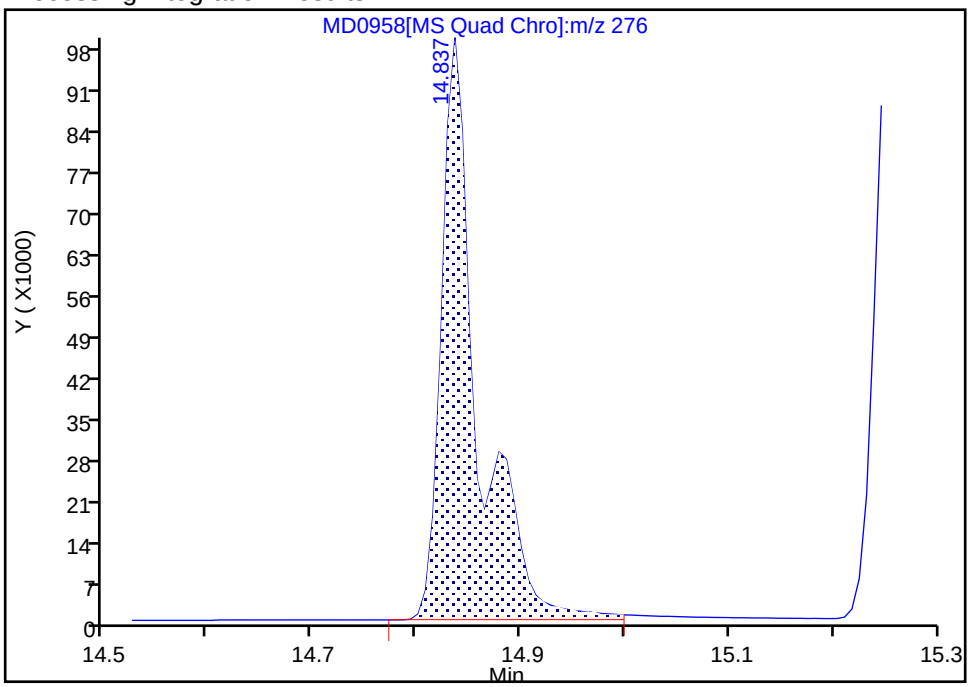
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0958.D				
Injection Date:	25-Apr-2023 08:53:55	Instrument ID:	HP21585		
Lims ID:	ICV FULL				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

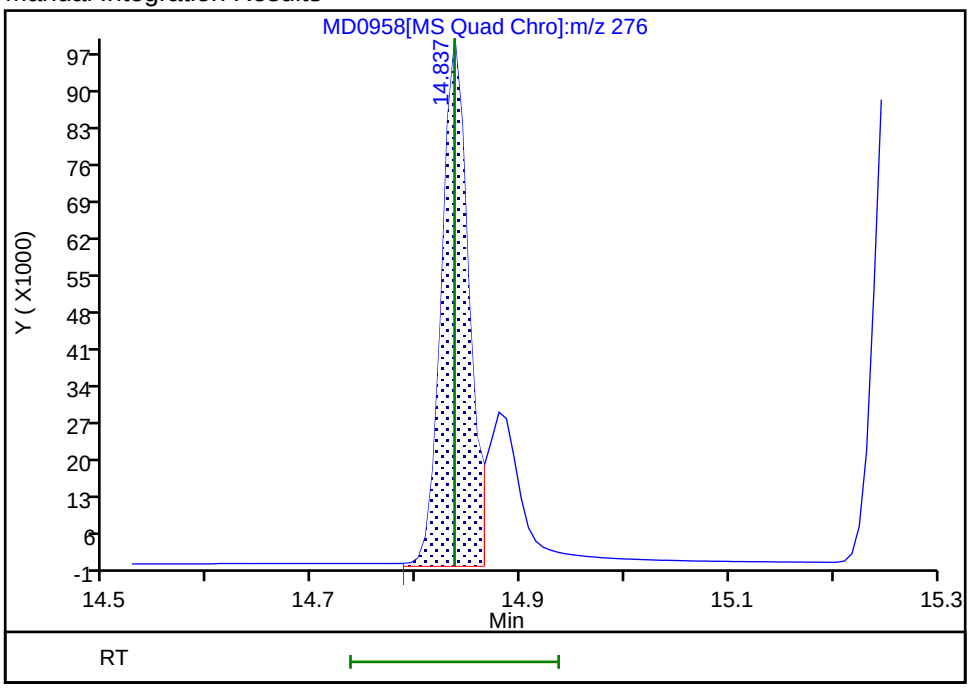
Processing Integration Results

RT: 14.84
Area: 243118
Amount: 0.309538
Amount Units: ug/ml



Manual Integration Results

RT: 14.84
Area: 179229
Amount: 0.228194
Amount Units: ug/ml



Reviewer: UJM0, 25-Apr-2023 09:17:58
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: ICV 410-369143/3 Calibration Date: 04/27/2023 04:35

Instrument ID: HP21585 Calib Start Date: 04/25/2023 06:05

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 04/25/2023 08:11

Lab File ID: MD1052.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-octyl phthalate	Ave	0.7355	0.5440		0.185	0.250	-26.0	30.0
1,4-Dioxane	Ave	0.6132				0.250		
1-Methylnaphthalene	Ave	0.7261				0.250		
2-Methylnaphthalene	Ave	0.7779				0.250		
Acenaphthene	Ave	1.211				0.250		
Acenaphthylene	Ave	1.869				0.250		
Anthracene	Ave	1.079				0.250		
Benzo[a]anthracene	Ave	1.309				0.250		
Benzo[a]pyrene	Ave	1.195				0.250		
Benzo[b]fluoranthene	Ave	1.321				0.250		
Benzo[g,h,i]perylene	Ave	1.400				0.250		
Benzo[k]fluoranthene	Ave	1.409				0.250		
Bis(2-chloroethyl)ether	Ave	0.4027				0.250		
Bis(2-ethylhexyl) phthalate	Lin2					0.250	-100.0*	30.0
Butyl benzyl phthalate	Ave	0.3731				0.250		
Chrysene	Ave	1.592				0.250		
Dibenz(a,h)anthracene	Ave	1.267				0.250		
Dibenzofuran	Ave	2.110				0.250		
Diethyl phthalate	Ave	1.202				0.250		
Dimethyl phthalate	Ave	1.340				0.250		
Di-n-butyl phthalate	Ave	0.8543				0.250		
Fluoranthene	Ave	1.394				0.250		
Fluorene	Ave	1.547				0.250		
Hexachlorobenzene	Ave	0.3164				0.250		
Indeno[1,2,3-cd]pyrene	Ave	1.099				0.250		
Naphthalene	Ave	1.162				0.250		
N-Nitrosodimethylamine	Ave	0.7683				0.250		
N-Nitrosodiphenylamine	Ave	0.4512				0.213		
Phenanthrene	Ave	1.243				0.250		
Pyrene	Ave	1.606				0.250		

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Apr-2023 04:35:18 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0082514-003, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 27-Apr-2023 10:06:27 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: UJM0 Date: 27-Apr-2023 10:06:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.506	4.518	-0.012	100	56347	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.718	5.718	0.000	91	191016	0.2500	0.2500	
* 13 Acenaphthene-d10	164	7.387	7.386	0.000	95	107749	0.2500	0.2500	
* 20 Phenanthrene-d10	188	8.794	8.794	0.000	94	214787	0.2500	0.2500	
* 29 Chrysene-d12	240	11.413	11.420	-0.007	72	191413	0.2500	0.2500	
32 Di-n-octyl phthalate	149	12.333	12.333	-0.007	100	101067	0.2500	0.1849	
* 38 Perylene-d12	264	13.299	13.299	0.000	100	185770	0.2500	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_ICV_00037 Amount Added: 1.00 Units: mL

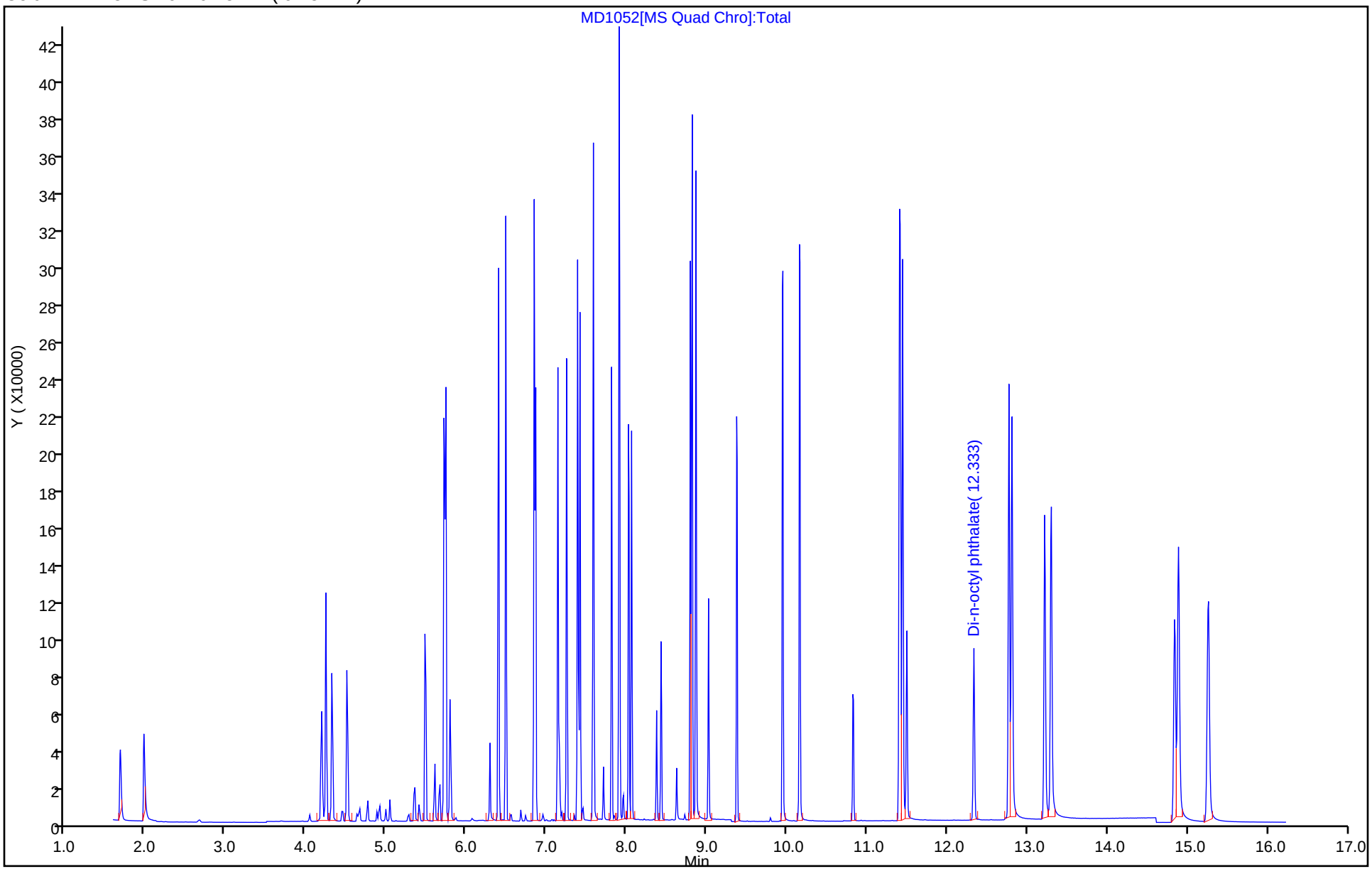
Report Date: 27-Apr-2023 10:06:50 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D

Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

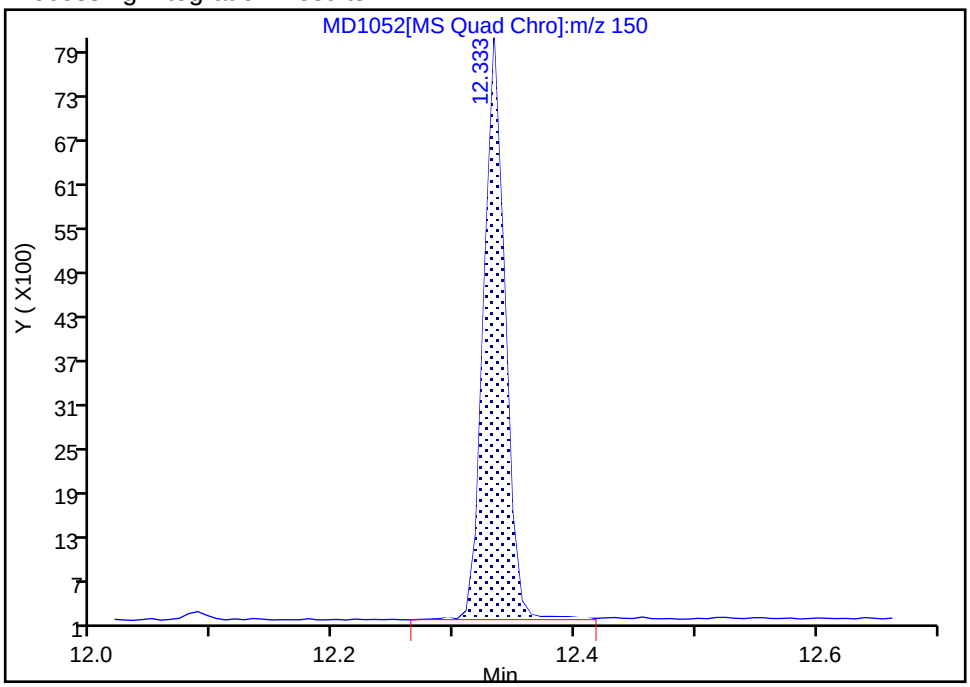
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D
Injection Date: 27-Apr-2023 04:35:18 Instrument ID: HP21585
Lims ID: ICV
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

32 Di-n-octyl phthalate, CAS: 117-84-0

Signal: 2

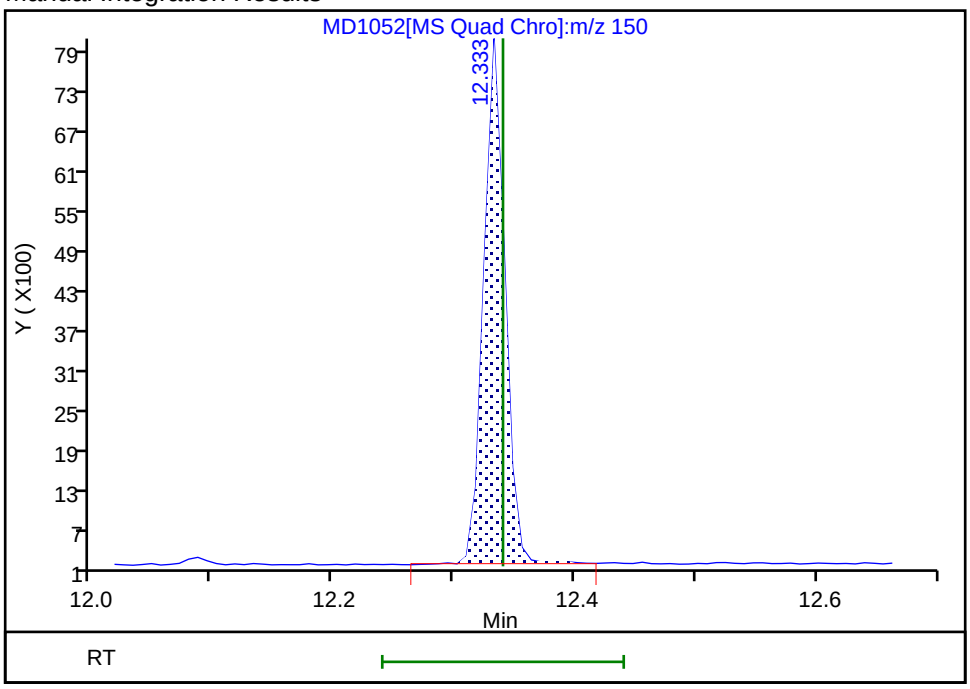
Processing Integration Results

RT: 12.33
Area: 9719
Amount: 0.184921
Amount Units: ug/ml



Manual Integration Results

RT: 12.33
Area: 9719
Amount: 0.184921
Amount Units: ug/ml



Reviewer: UJM0, 27-Apr-2023 10:06:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

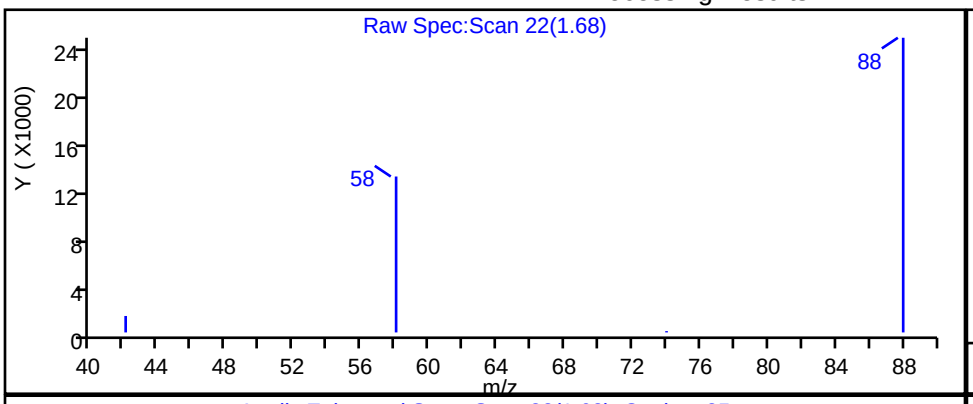
User Disabled Compound Report

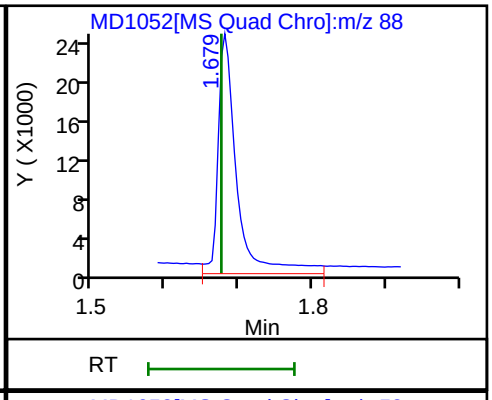
Eurofins Lancaster Laboratories Environment Testing, LLC

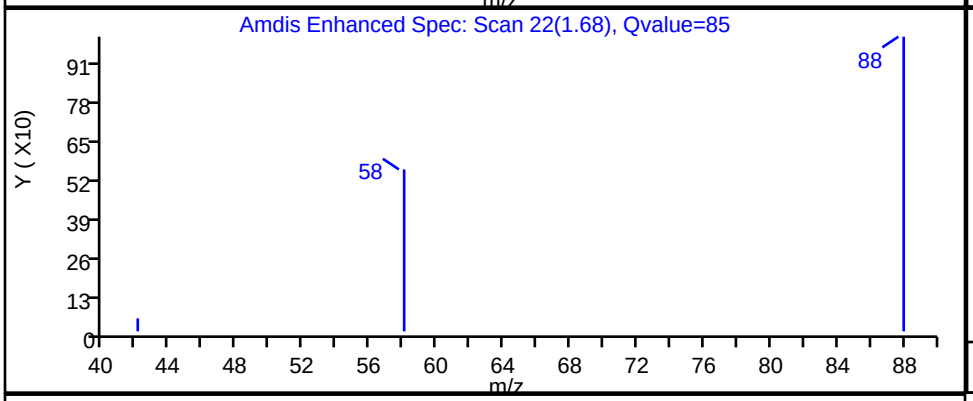
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D
Injection Date: 27-Apr-2023 04:35:18 Instrument ID: HP21585
Lims ID: ICV
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

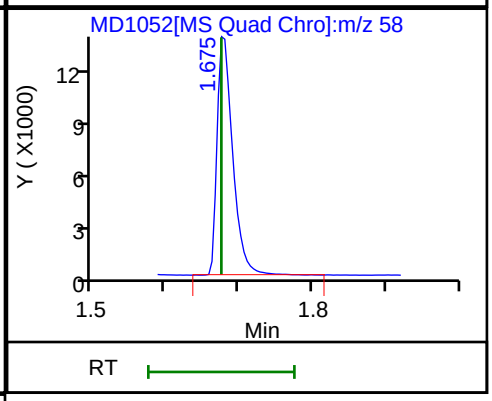
1 1,4-Dioxane, CAS: 123-91-1

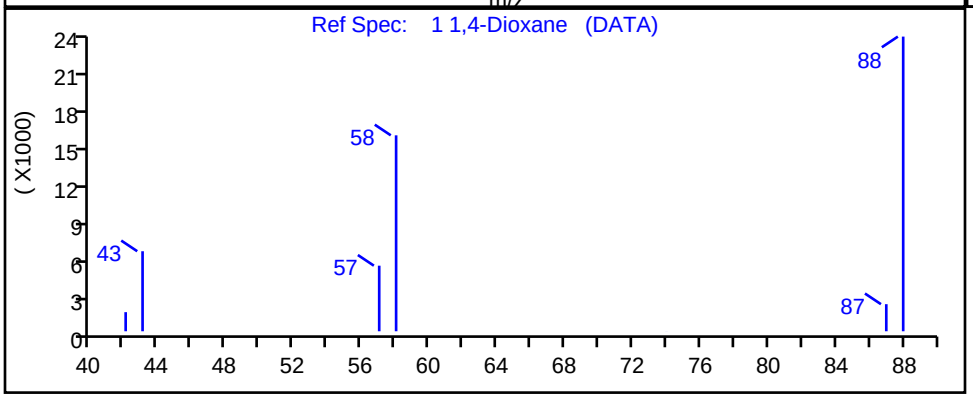
Processing Results











RT	Mass	Response	Amount
1.68	88.00	42247	0.305696
1.68	58.00	19721	

Reviewer: UJM0, 27-Apr-2023 10:05:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

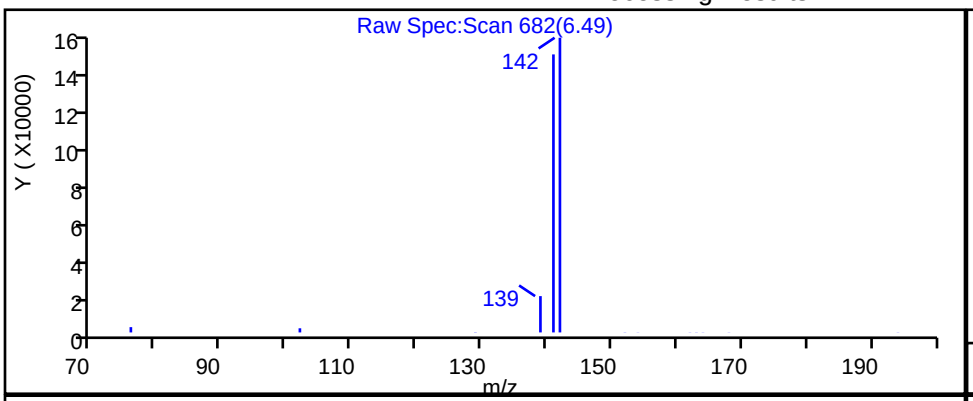
User Disabled Compound Report

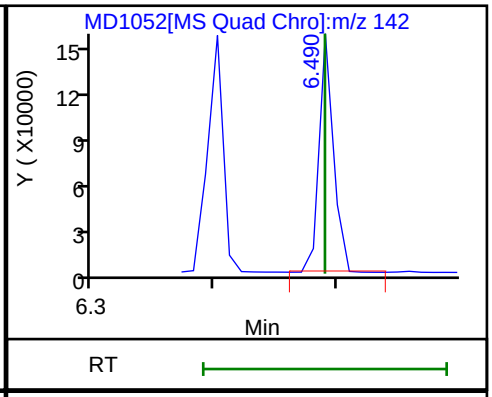
Eurofins Lancaster Laboratories Environment Testing, LLC

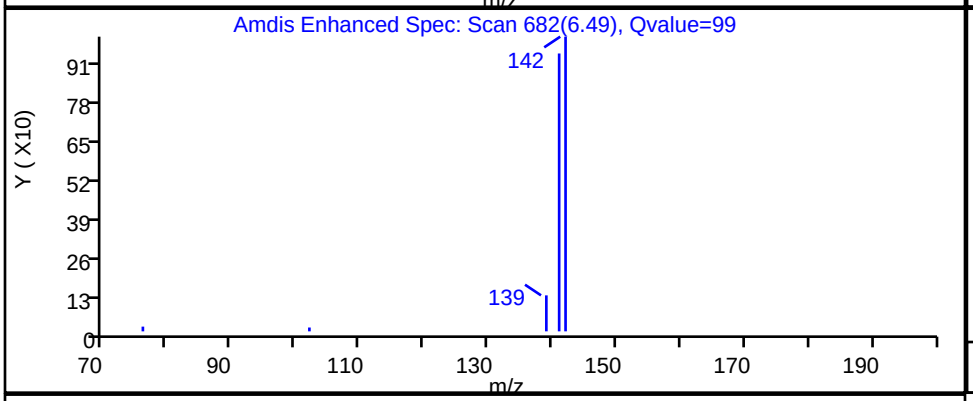
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

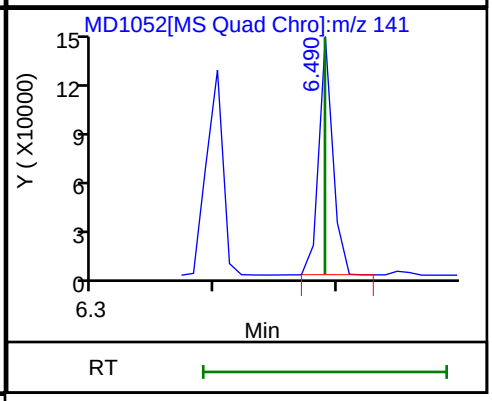
10 1-Methylnaphthalene, CAS: 90-12-0

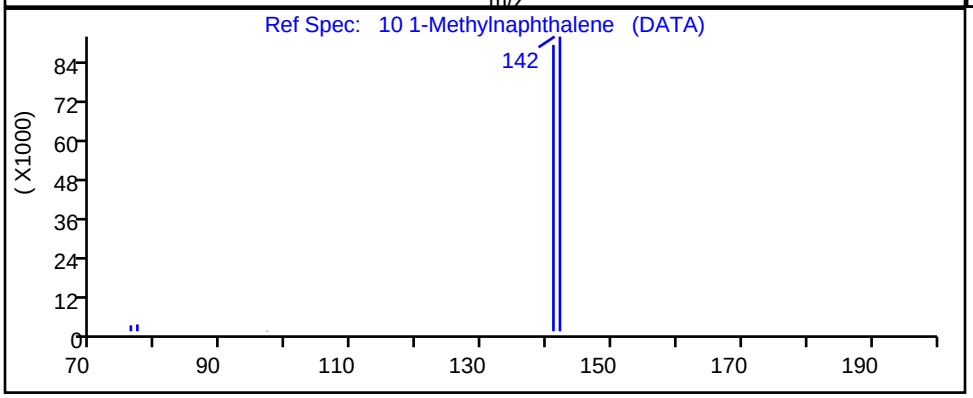
Processing Results











RT	Mass	Response	Amount
6.49	142.00	125787	0.226745
6.49	141.00	116053	

Reviewer: UJM0, 27-Apr-2023 10:05:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

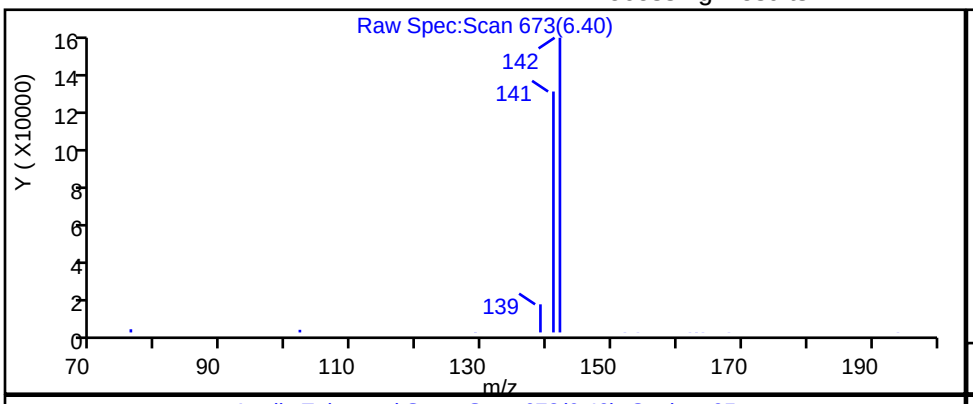
User Disabled Compound Report

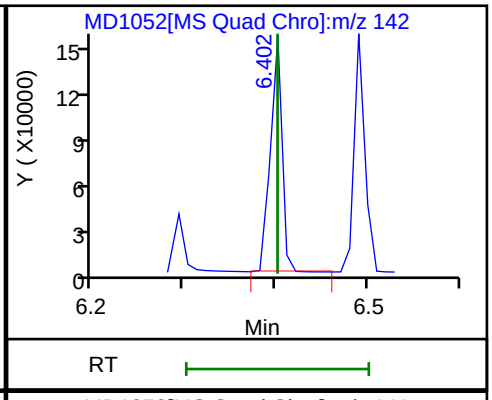
Eurofins Lancaster Laboratories Environment Testing, LLC

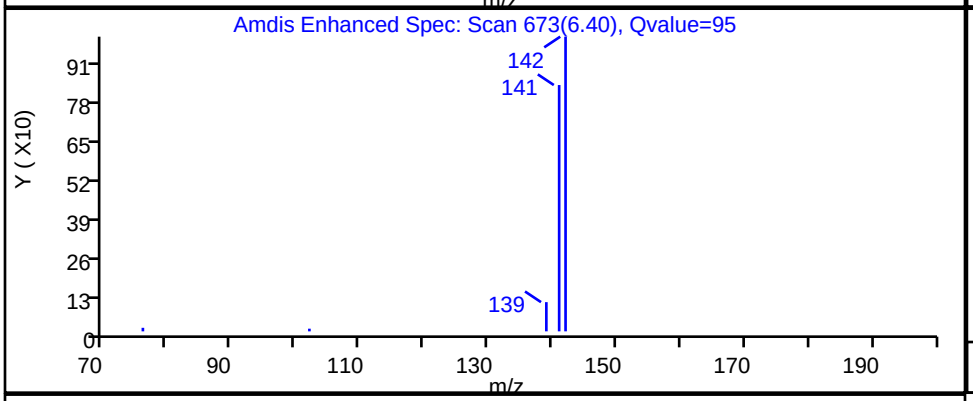
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D
Injection Date: 27-Apr-2023 04:35:18 Instrument ID: HP21585
Lims ID: ICV
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

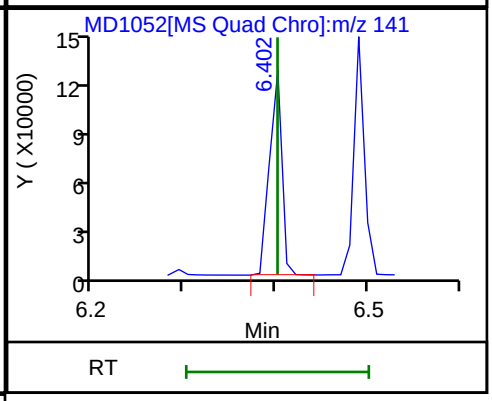
8 2-Methylnaphthalene, CAS: 91-57-6

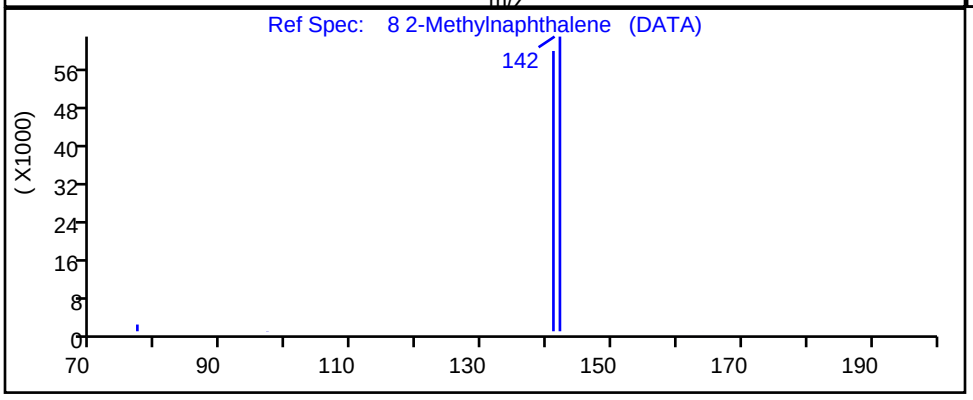
Processing Results











RT	Mass	Response	Amount
6.40	142.00	135207	0.227492
6.40	141.00	117842	

Reviewer: UJM0, 27-Apr-2023 10:05:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

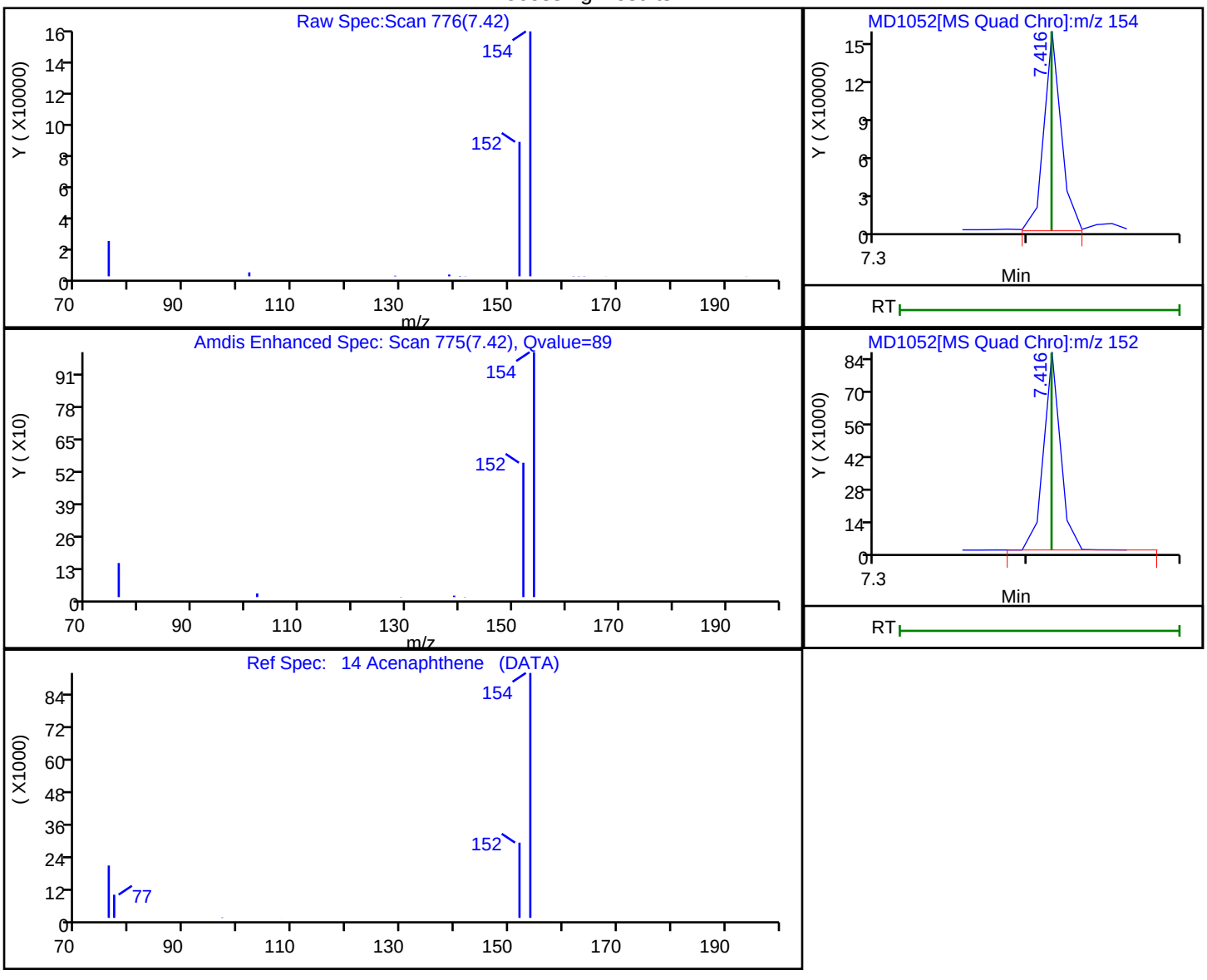
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
7.42	154.00	122003	0.233741
7.42	152.00	67349	

Reviewer: UJM0, 27-Apr-2023 10:05:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

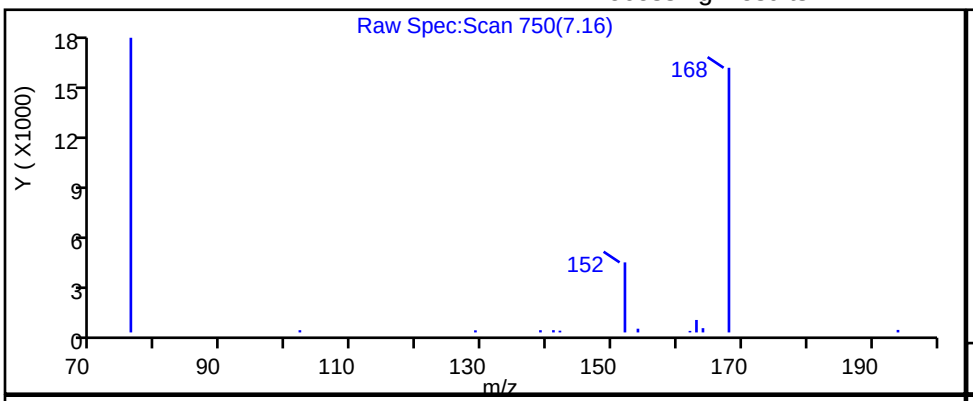
User Disabled Compound Report

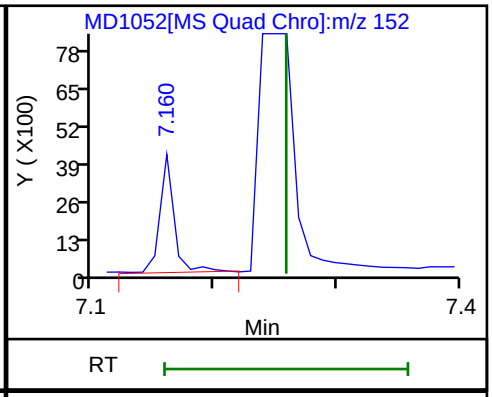
Eurofins Lancaster Laboratories Environment Testing, LLC

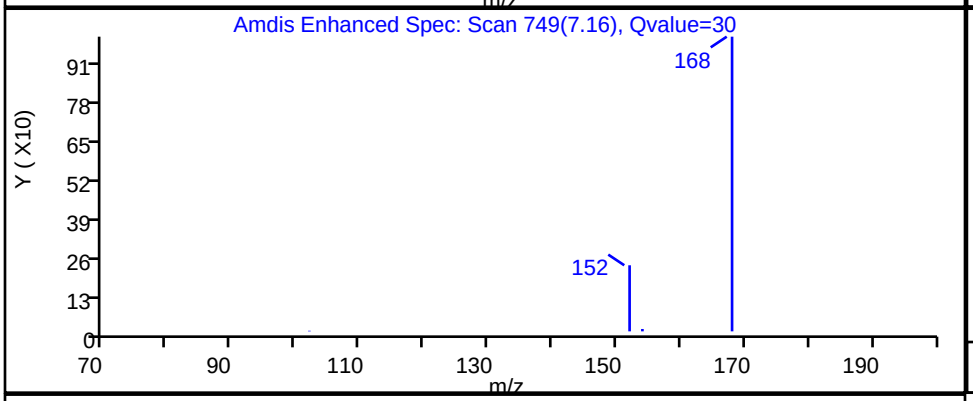
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

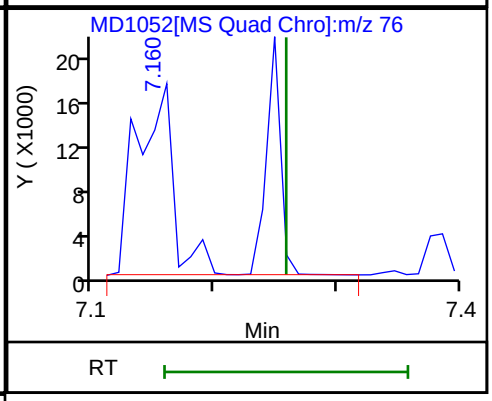
12 Acenaphthylene, CAS: 208-96-8

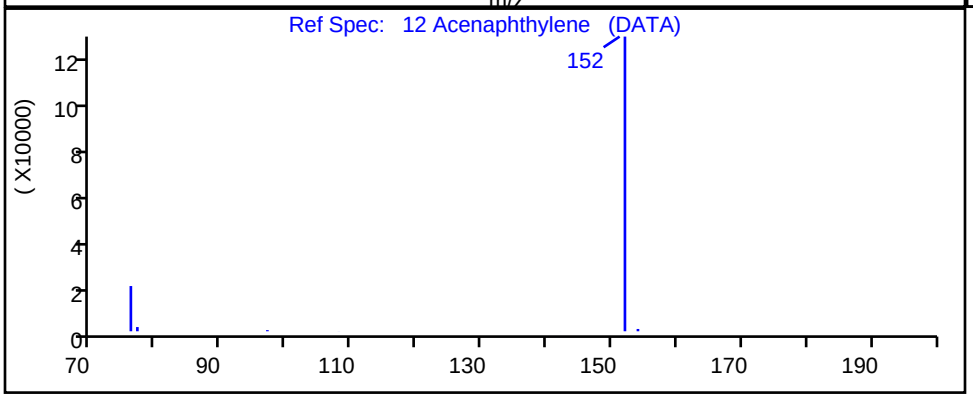
Processing Results











RT	Mass	Response	Amount
7.16	152.00	3312	0.004112
7.16	76.00	54510	

Reviewer: UJM0, 27-Apr-2023 10:05:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

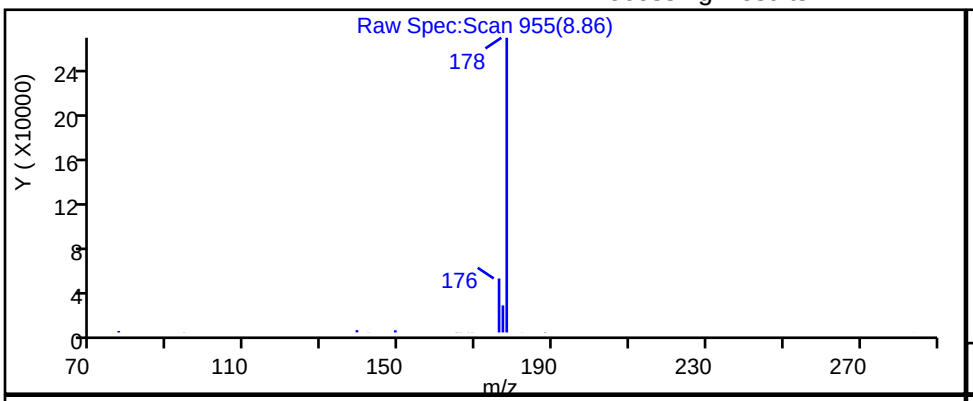
User Disabled Compound Report

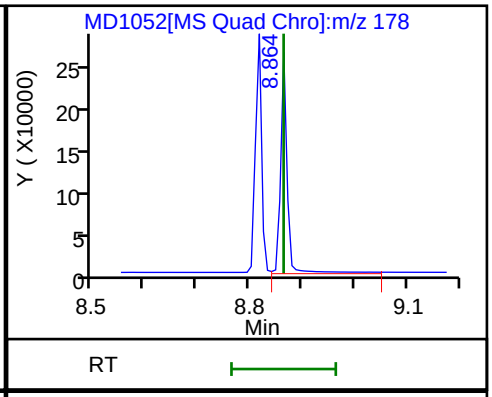
Eurofins Lancaster Laboratories Environment Testing, LLC

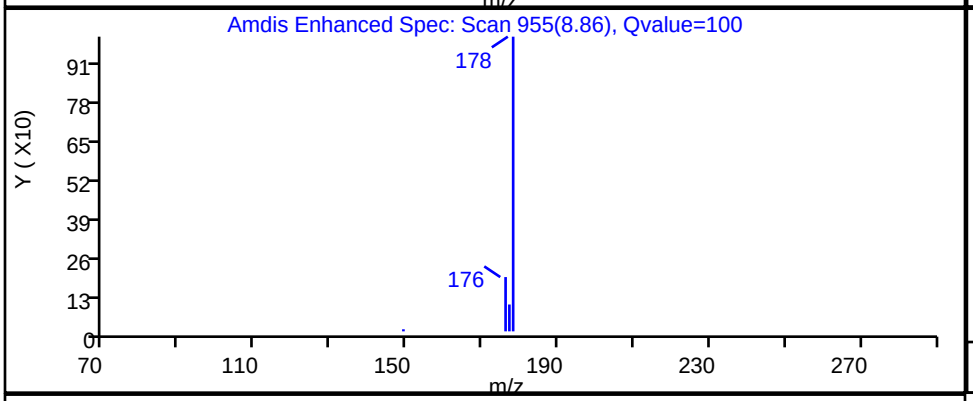
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

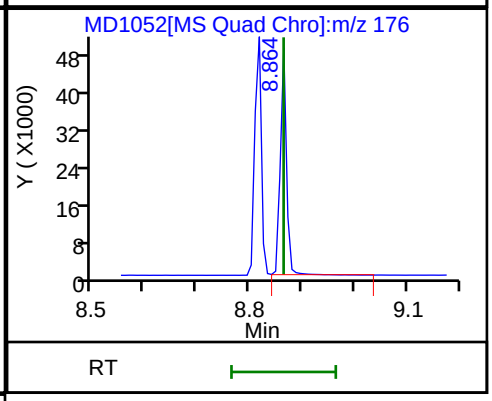
22 Anthracene, CAS: 120-12-7

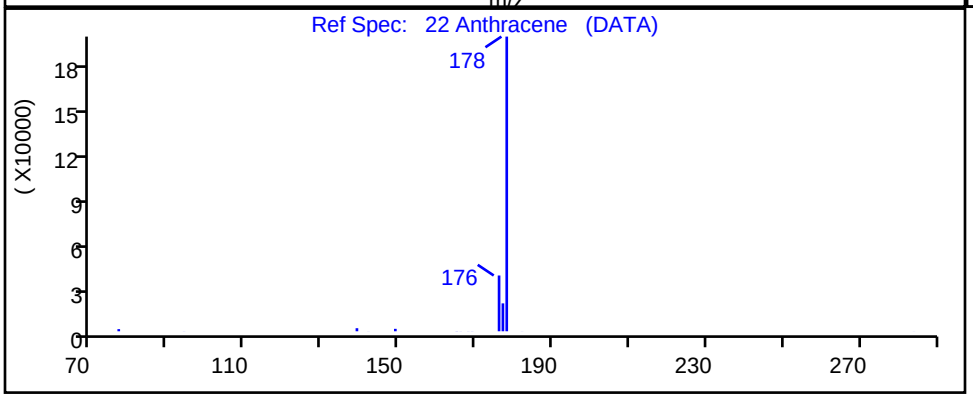
Processing Results











RT	Mass	Response	Amount
8.86	178.00	220540	0.237868
8.86	176.00	41055	

Reviewer: UJM0, 27-Apr-2023 10:05:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

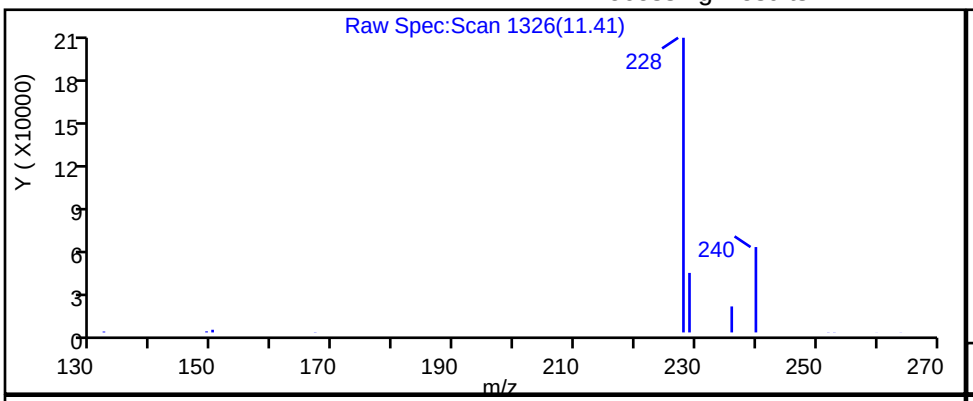
User Disabled Compound Report

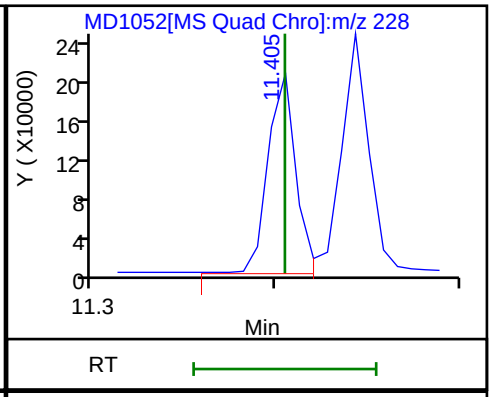
Eurofins Lancaster Laboratories Environment Testing, LLC

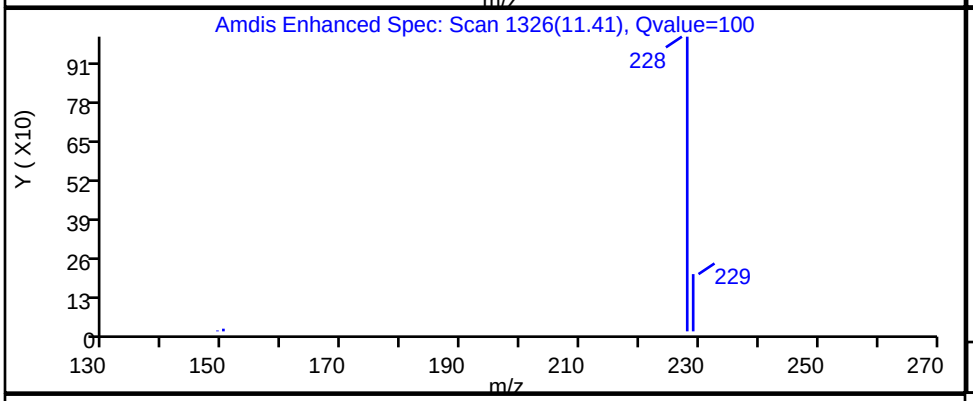
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

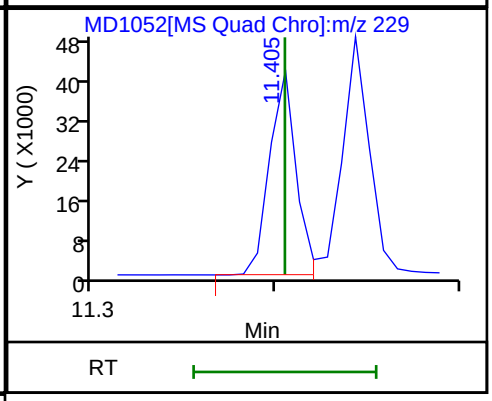
28 Benzo[a]anthracene, CAS: 56-55-3

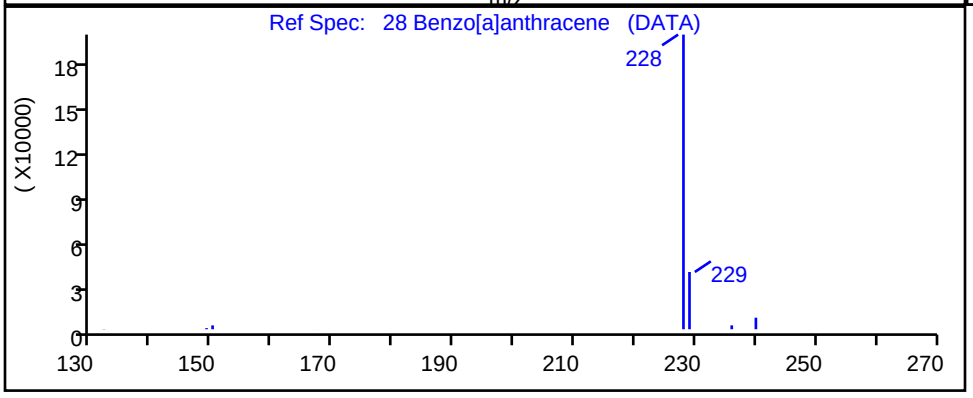
Processing Results











RT	Mass	Response	Amount
11.41	228.00	210802	0.210350
11.41	229.00	41217	

Reviewer: UJM0, 27-Apr-2023 10:06:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

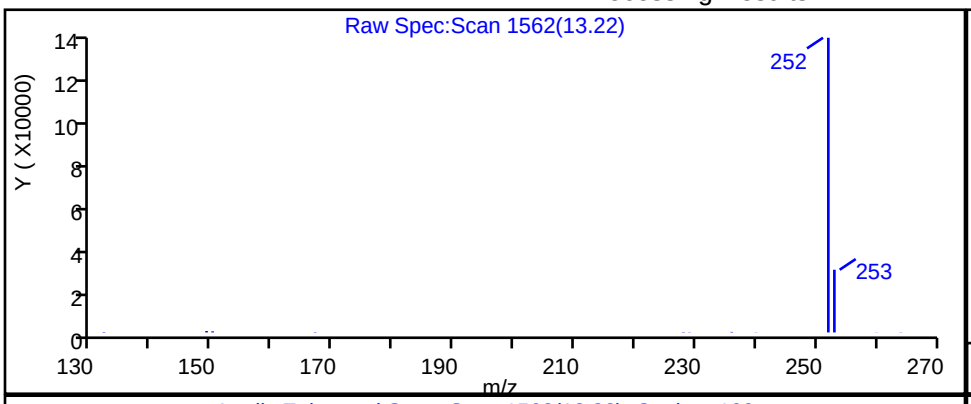
User Disabled Compound Report

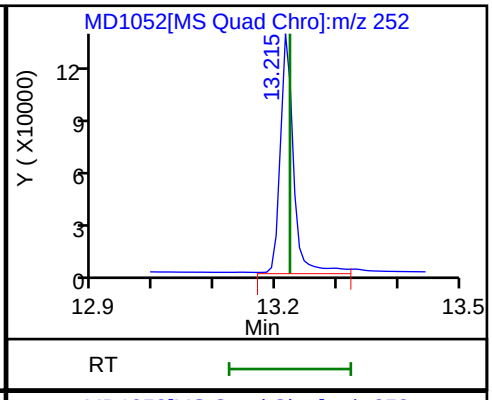
Eurofins Lancaster Laboratories Environment Testing, LLC

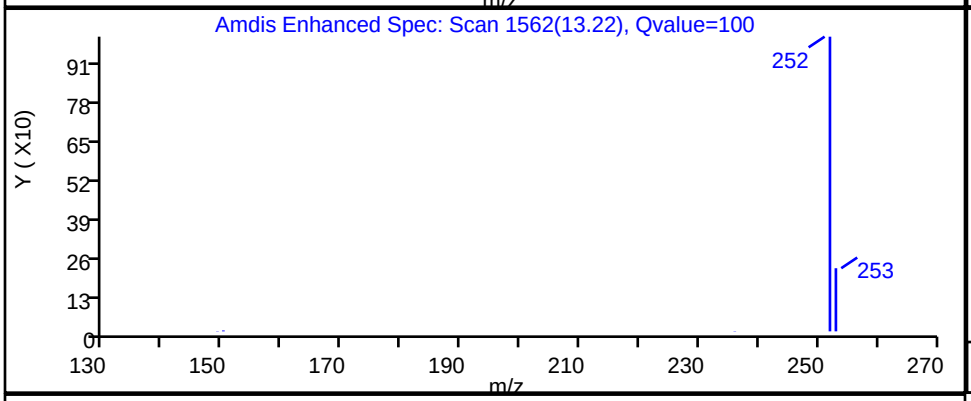
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

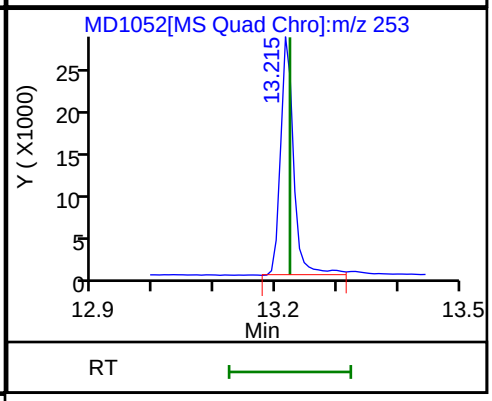
37 Benzo[a]pyrene, CAS: 50-32-8

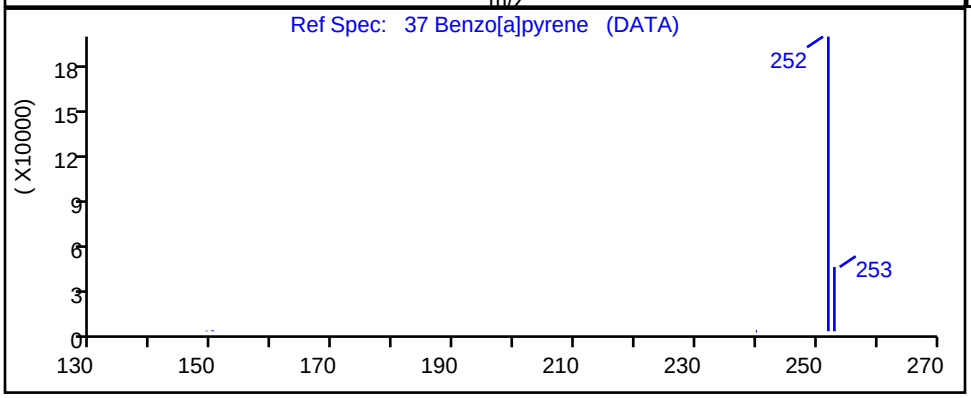
Processing Results











RT	Mass	Response	Amount
13.22	252.00	195847	0.220465
13.22	253.00	41998	

Reviewer: UJM0, 27-Apr-2023 10:06:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

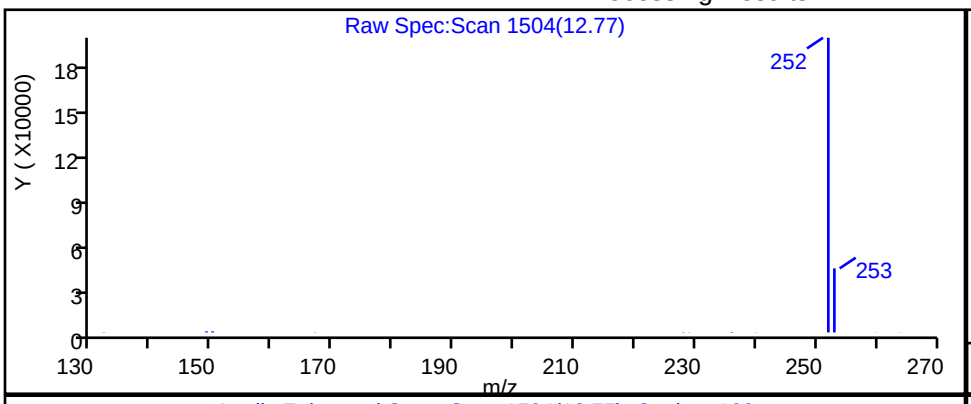
User Disabled Compound Report

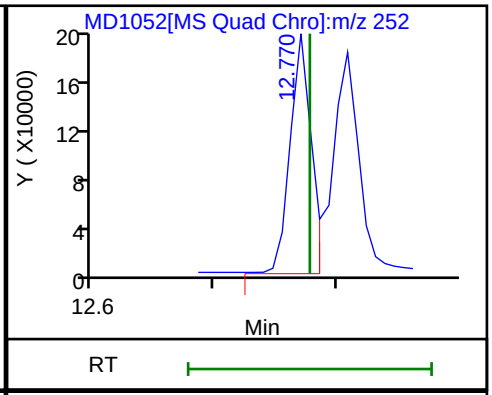
Eurofins Lancaster Laboratories Environment Testing, LLC

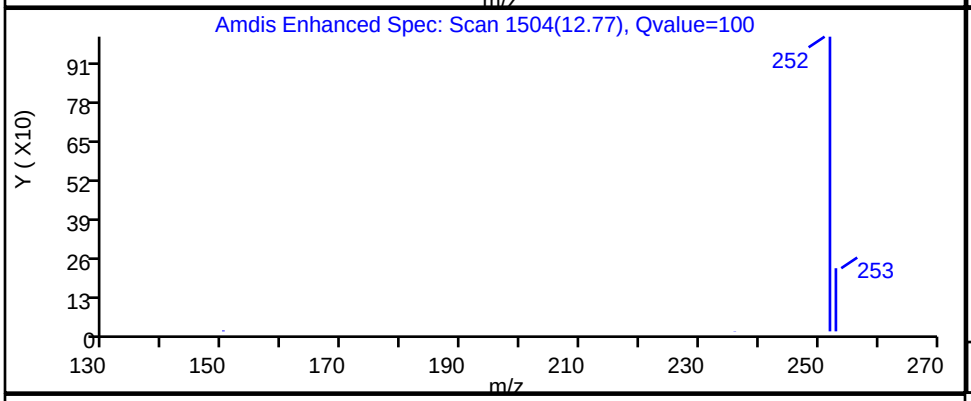
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

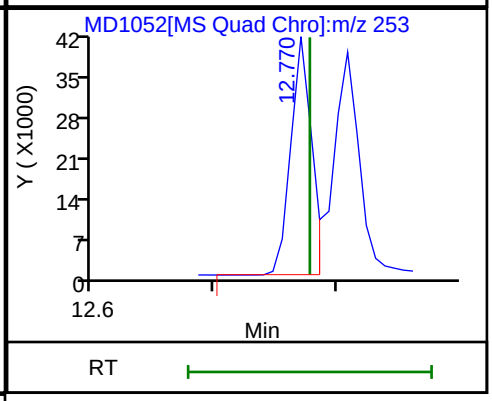
33 Benzo[b]fluoranthene, CAS: 205-99-2

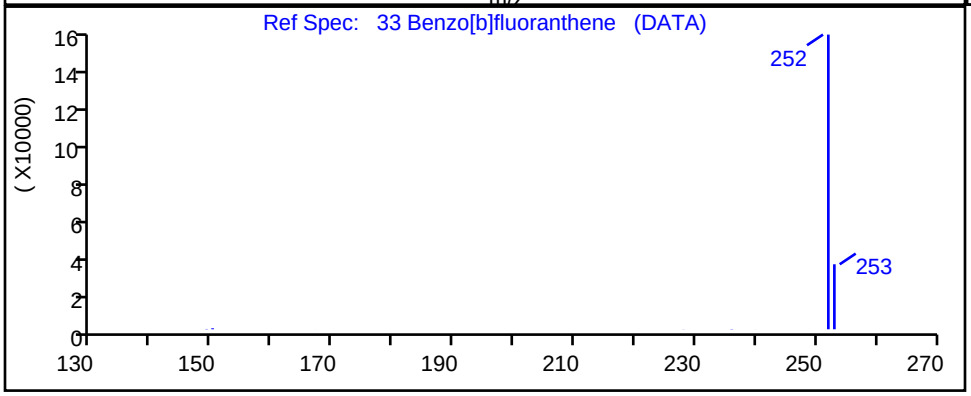
Processing Results











RT	Mass	Response	Amount
12.77	252.00	219813	0.223924
12.77	253.00	47655	

Reviewer: UJM0, 27-Apr-2023 10:06:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

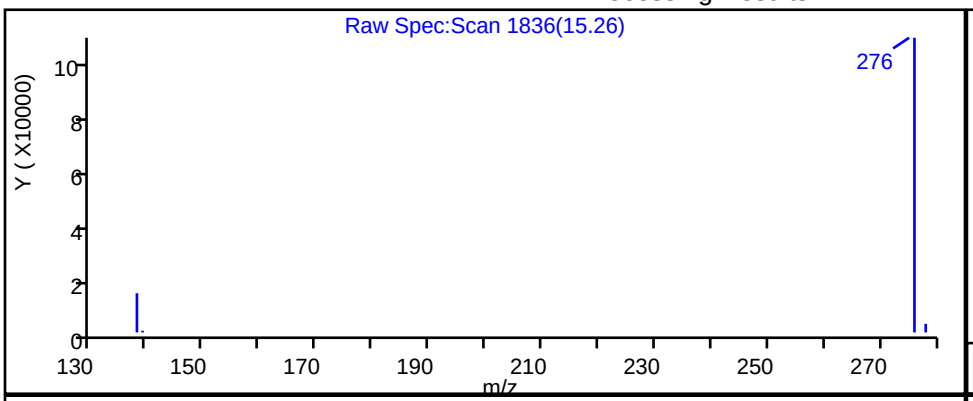
User Disabled Compound Report

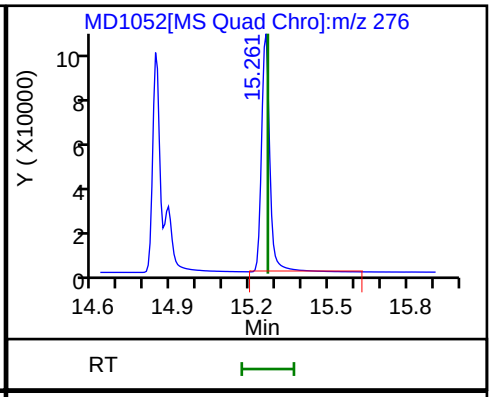
Eurofins Lancaster Laboratories Environment Testing, LLC

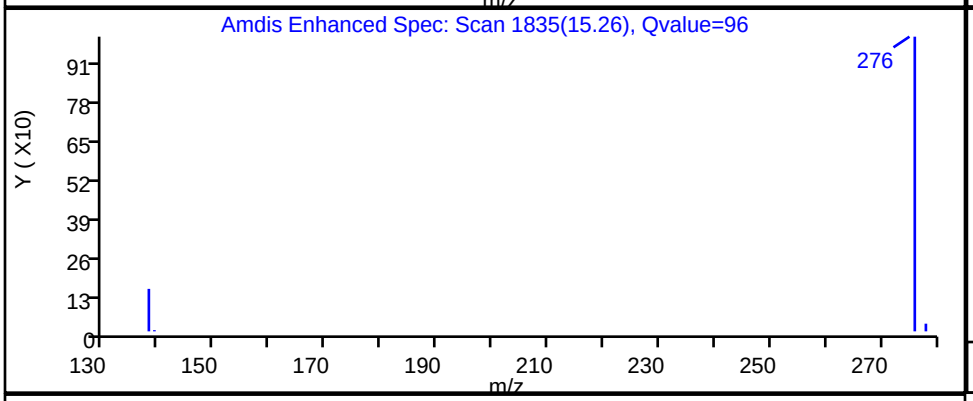
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

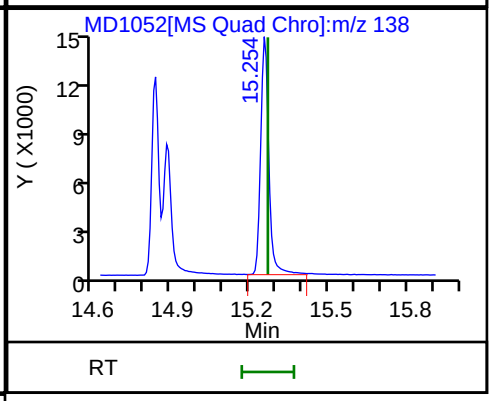
42 Benzo[g,h,i]perylene, CAS: 191-24-2

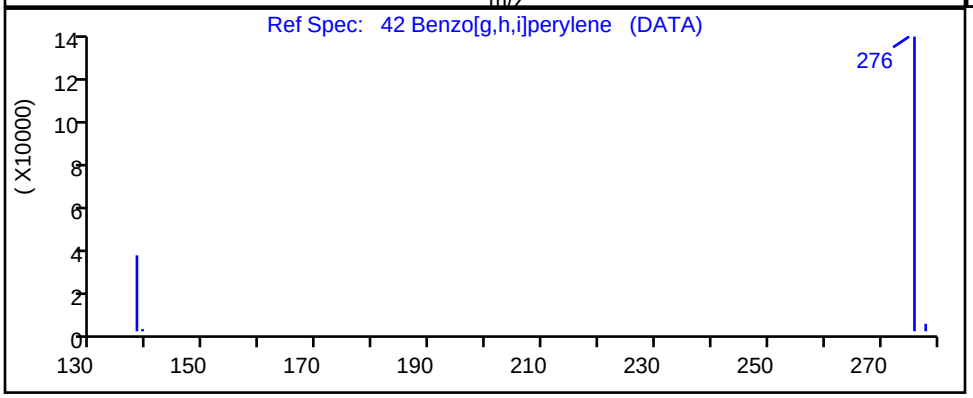
Processing Results











RT	Mass	Response	Amount
15.26	276.00	226144	0.217361
15.25	138.00	31391	

Reviewer: UJM0, 27-Apr-2023 10:06:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

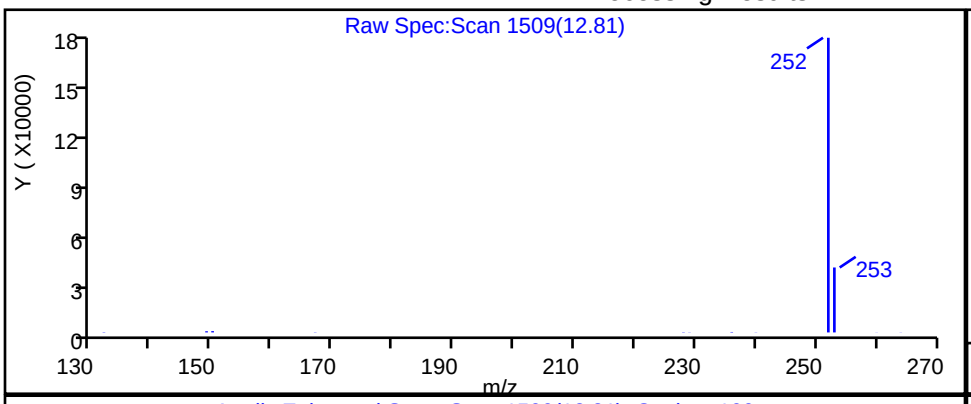
User Disabled Compound Report

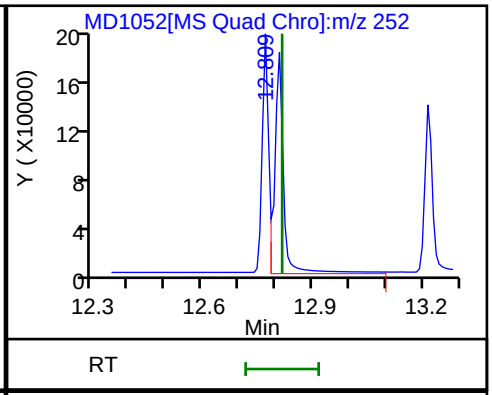
Eurofins Lancaster Laboratories Environment Testing, LLC

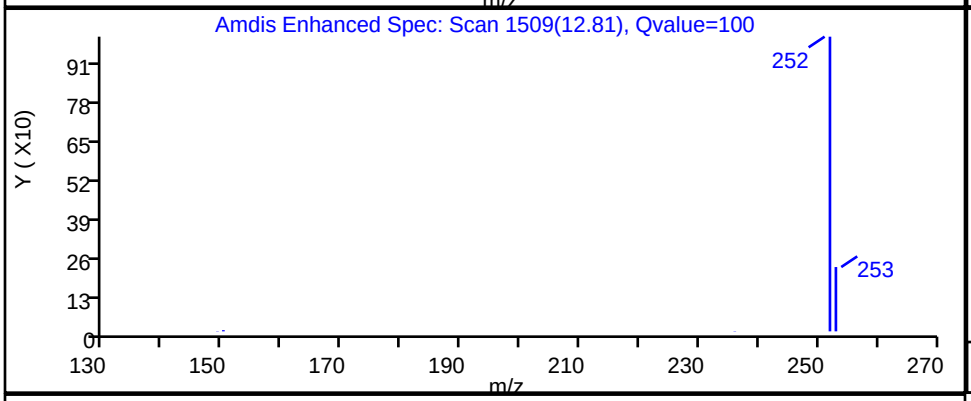
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

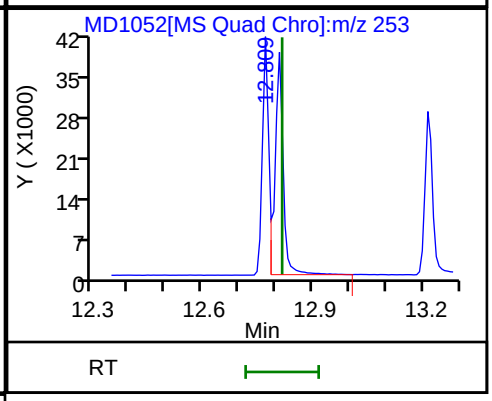
34 Benzo[k]fluoranthene, CAS: 207-08-9

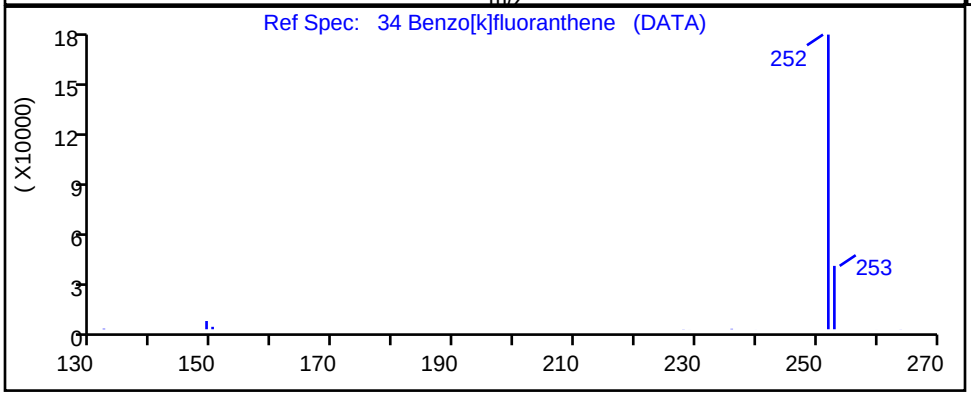
Processing Results











RT	Mass	Response	Amount
12.81	252.00	269089	0.257030
12.81	253.00	58476	

Reviewer: UJM0, 27-Apr-2023 10:06:13

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

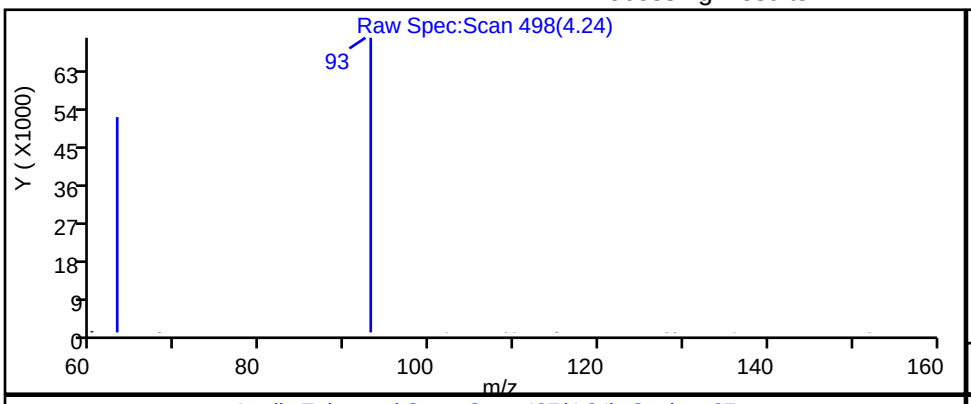
User Disabled Compound Report

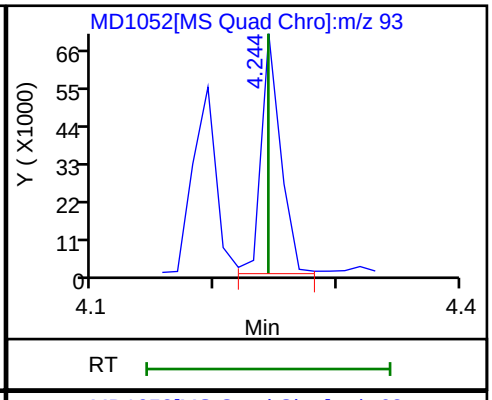
Eurofins Lancaster Laboratories Environment Testing, LLC

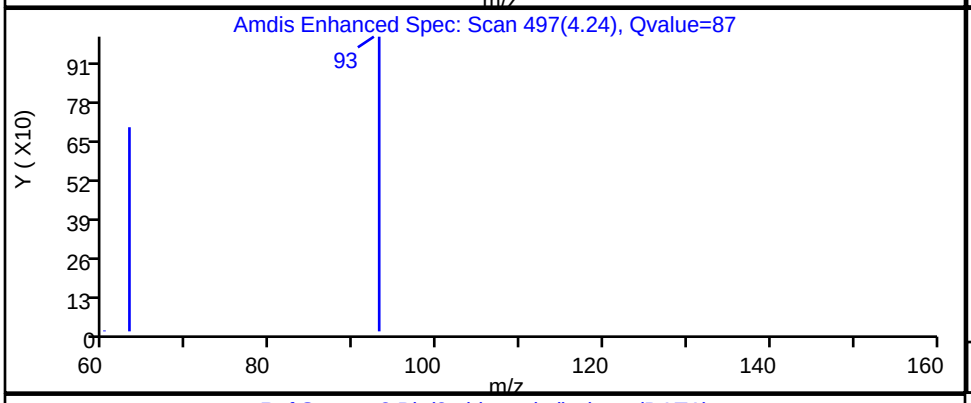
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

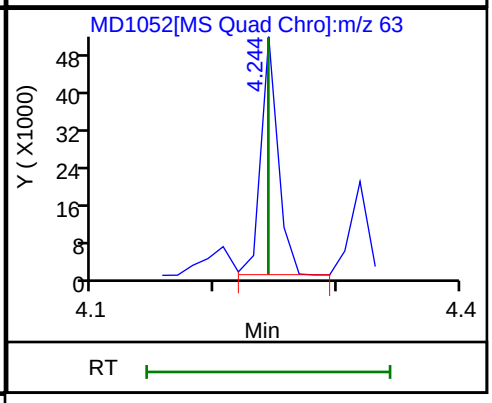
3 Bis(2-chloroethyl)ether, CAS: 111-44-4

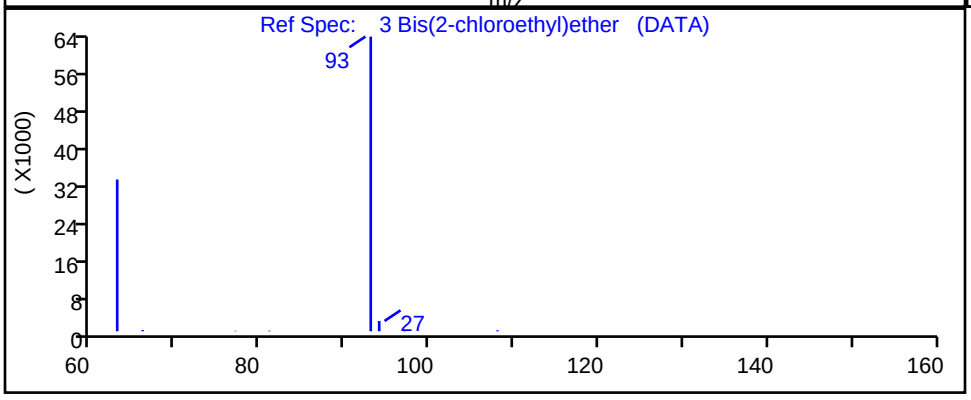
Processing Results











RT	Mass	Response	Amount
4.24	93.00	76152	0.247493
4.24	63.00	49595	

Reviewer: UJM0, 27-Apr-2023 10:05:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

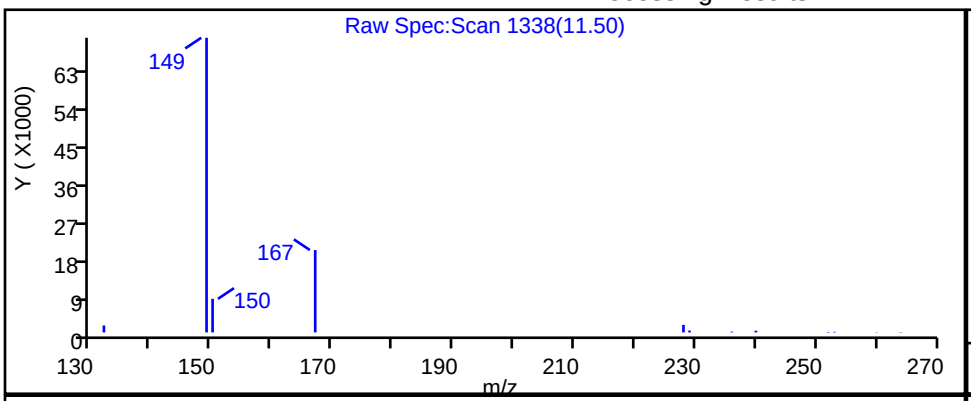
User Disabled Compound Report

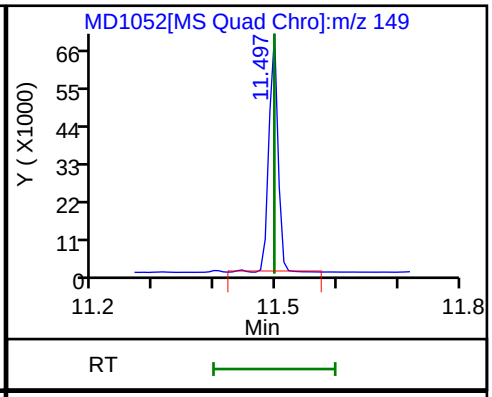
Eurofins Lancaster Laboratories Environment Testing, LLC

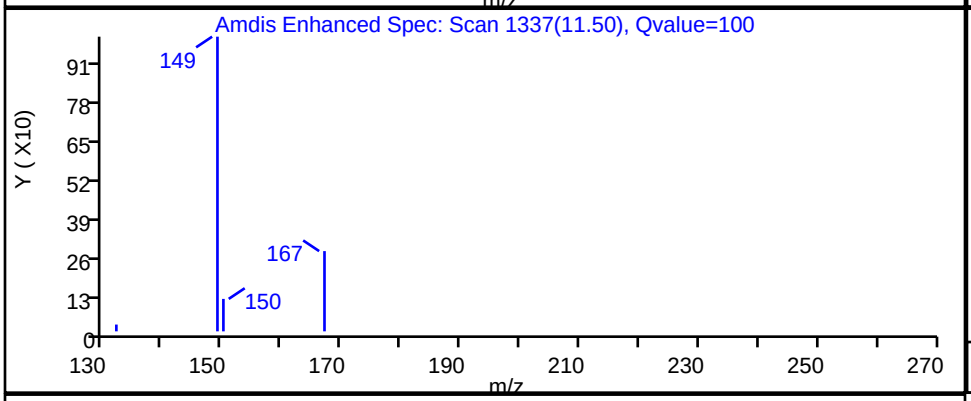
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

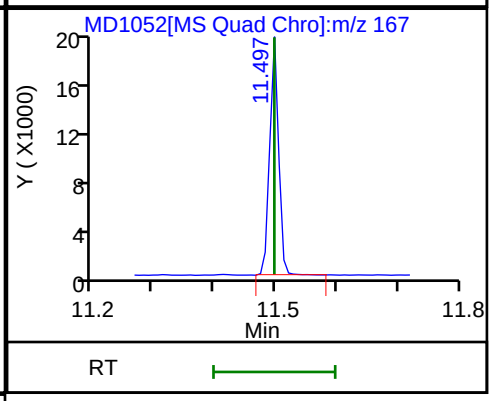
31 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7

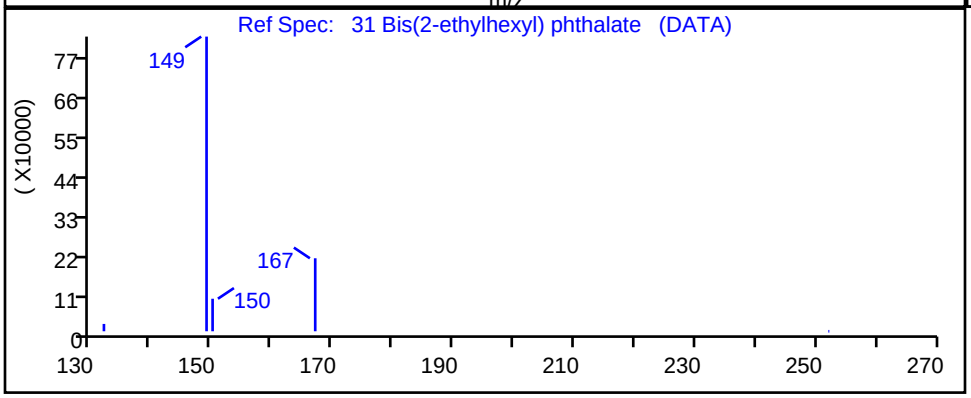
Processing Results











RT	Mass	Response	Amount
11.50	149.00	72504	0.275848
11.50	167.00	19803	

Reviewer: UJM0, 27-Apr-2023 10:06:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

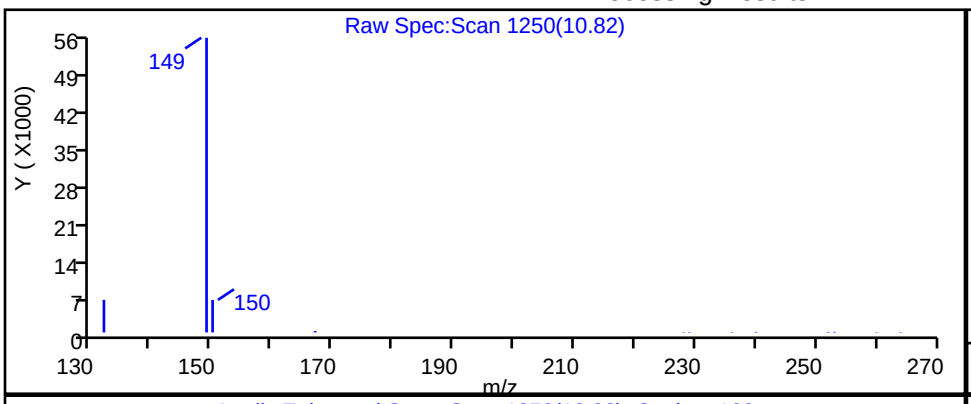
User Disabled Compound Report

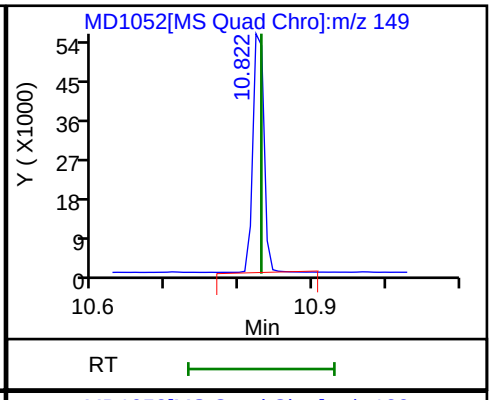
Eurofins Lancaster Laboratories Environment Testing, LLC

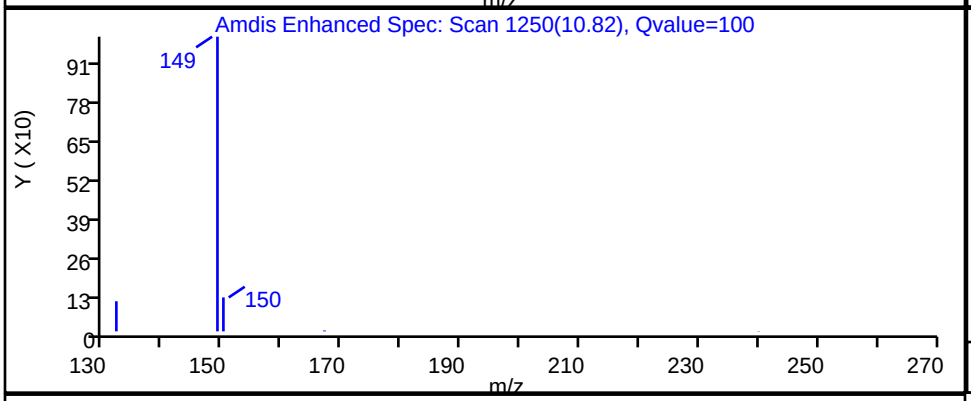
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

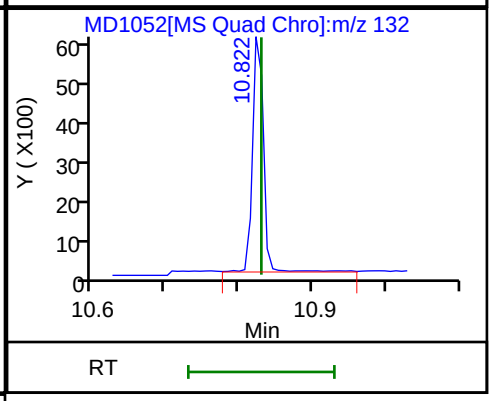
27 Butyl benzyl phthalate, CAS: 85-68-7

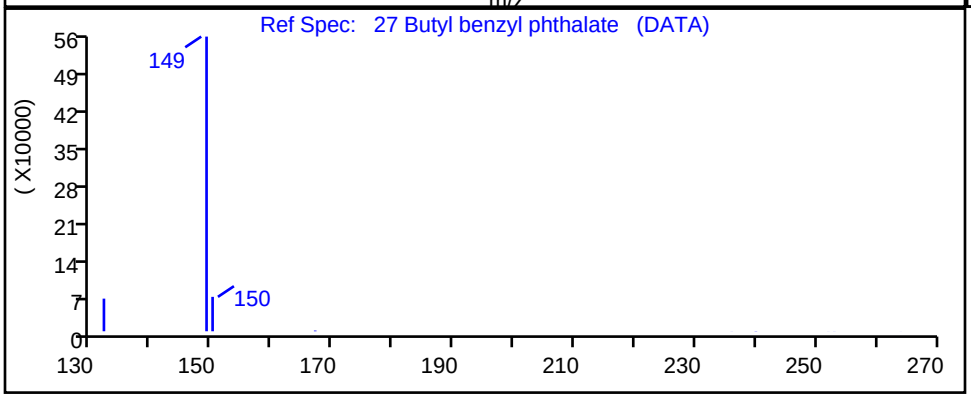
Processing Results











RT	Mass	Response	Amount
10.82	149.00	58458	0.204657
10.82	132.00	6162	

Reviewer: UJM0, 27-Apr-2023 10:05:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

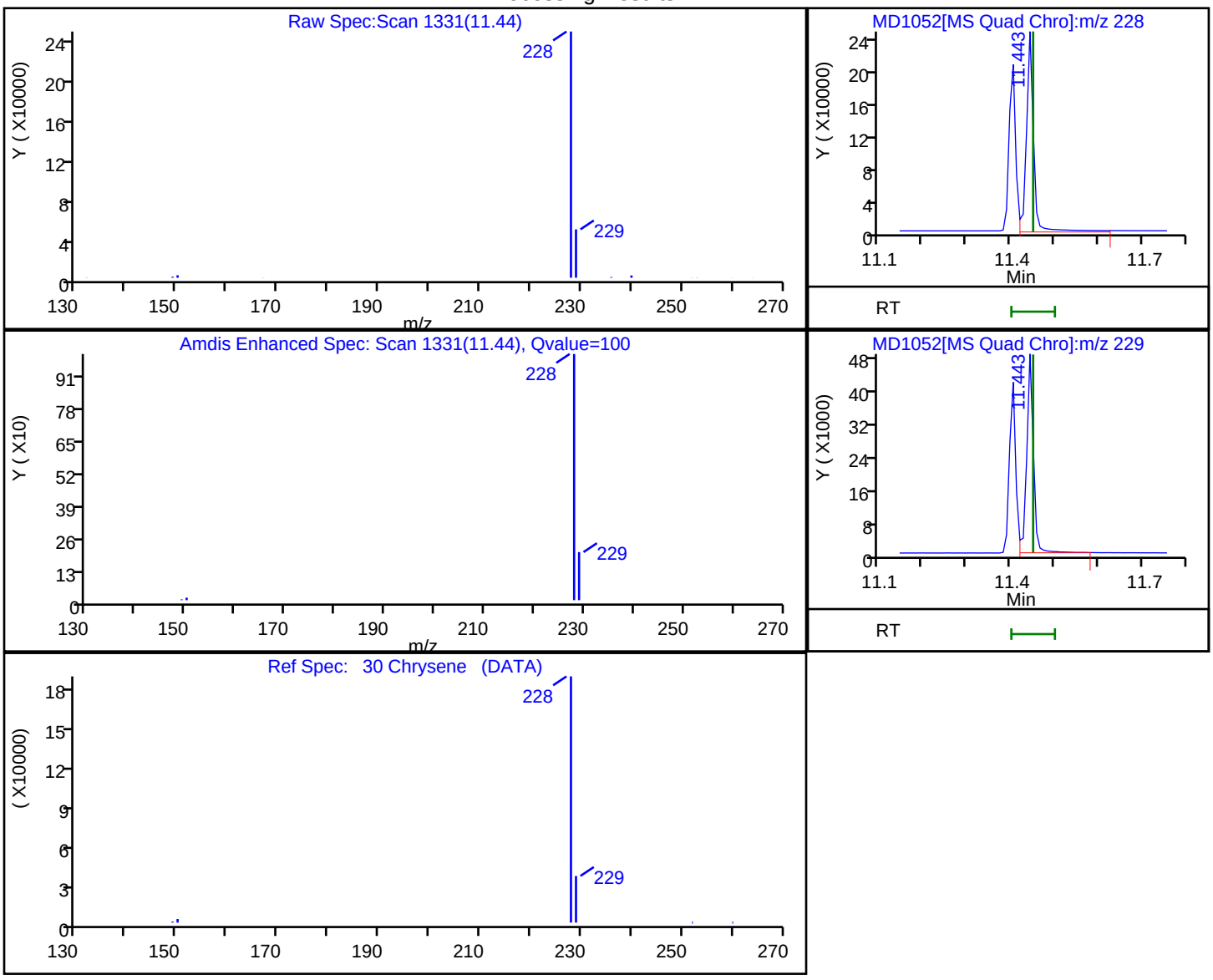
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Processing Results



RT	Mass	Response	Amount
11.44	228.00	262954	0.215709
11.44	229.00	52077	

Reviewer: UJM0, 27-Apr-2023 10:06:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

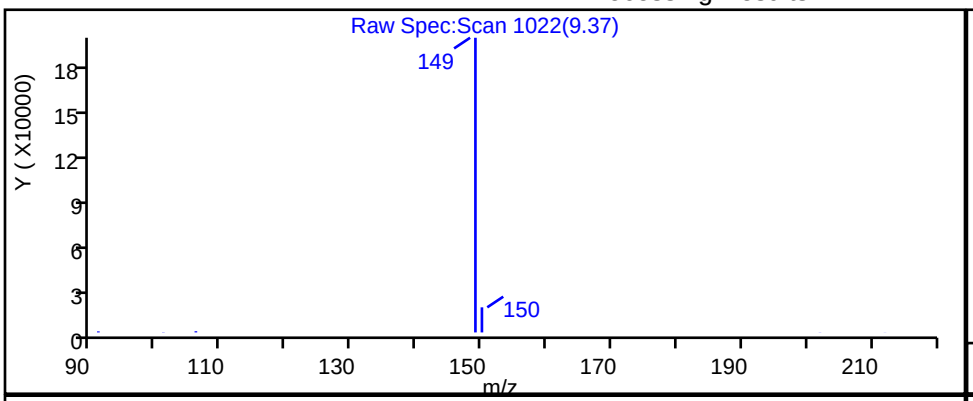
User Disabled Compound Report

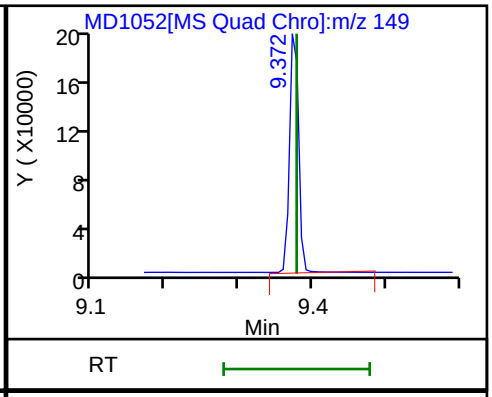
Eurofins Lancaster Laboratories Environment Testing, LLC

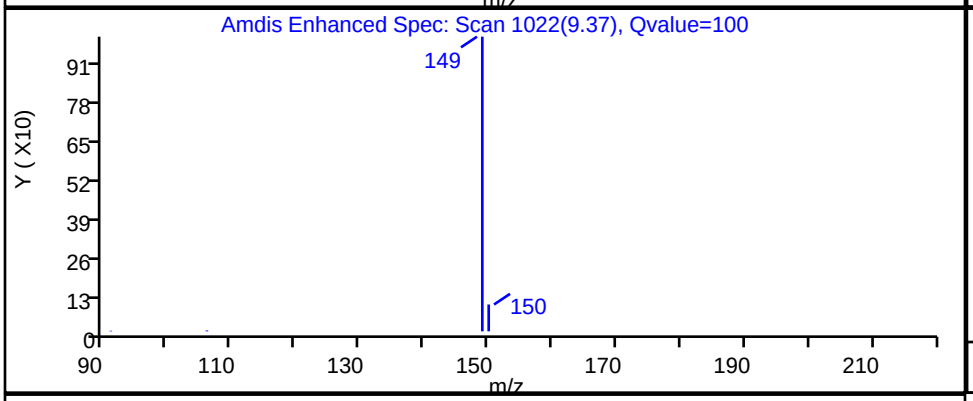
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

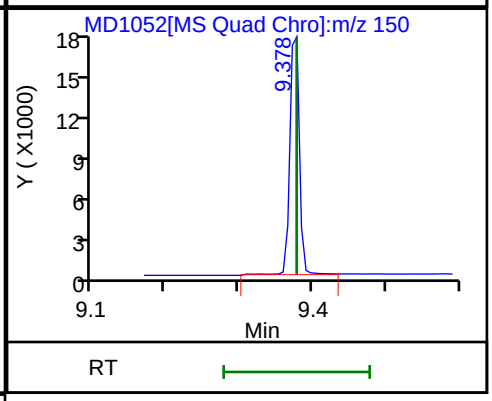
23 Di-n-butyl phthalate, CAS: 84-74-2

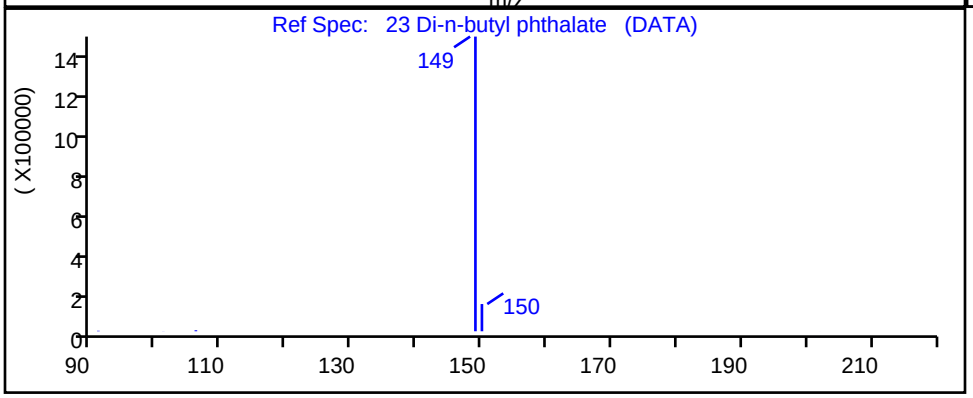
Processing Results











RT	Mass	Response	Amount
9.37	149.00	171754	0.234013
9.38	150.00	16043	

Reviewer: UJM0, 27-Apr-2023 10:05:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

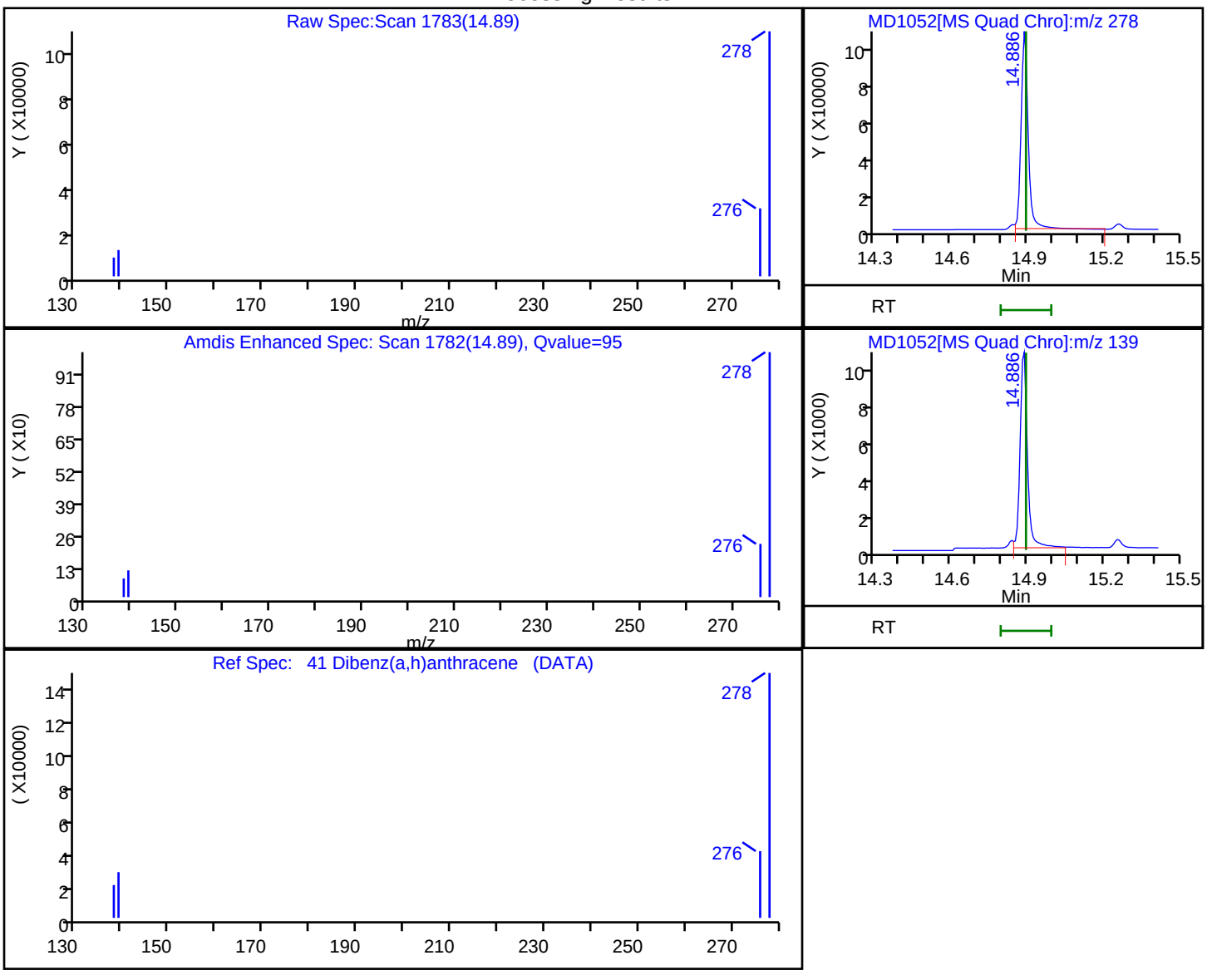
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
14.89	278.00	201238	0.213750
14.89	139.00	21785	

Reviewer: UJM0, 27-Apr-2023 10:06:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

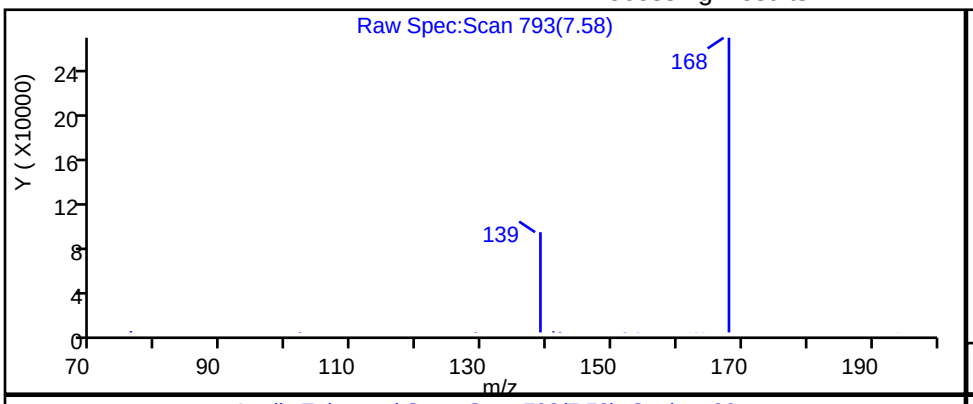
User Disabled Compound Report

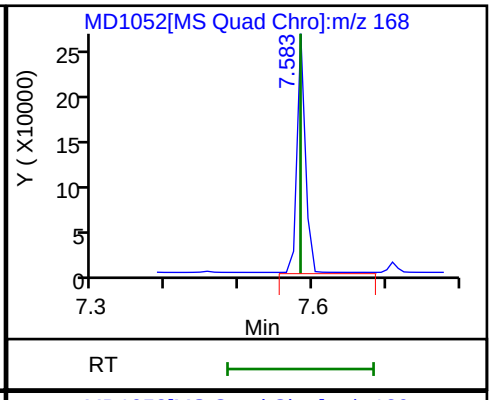
Eurofins Lancaster Laboratories Environment Testing, LLC

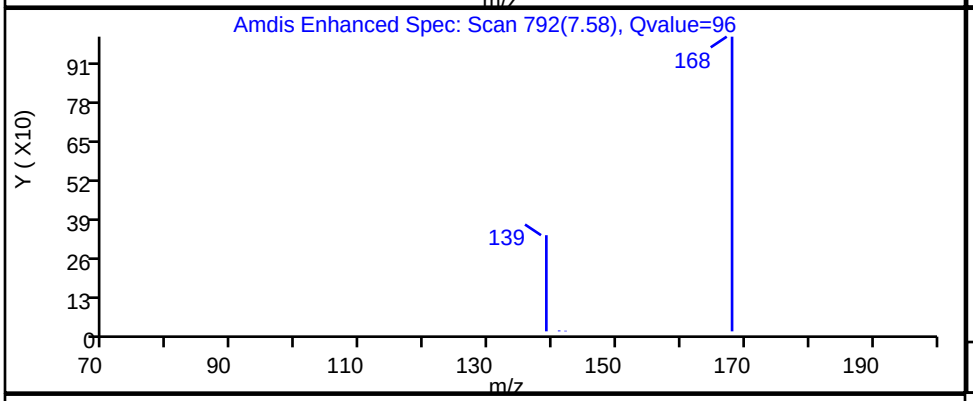
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

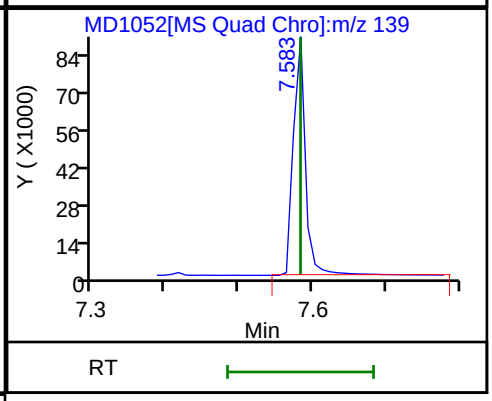
15 Dibenzofuran, CAS: 132-64-9

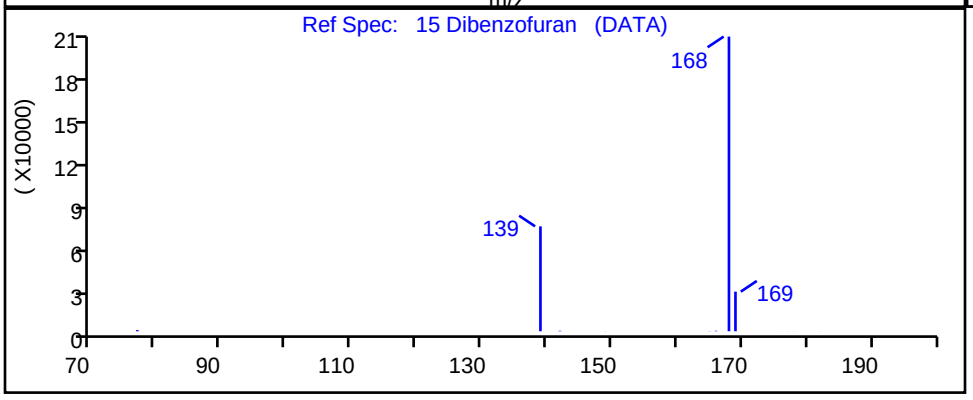
Processing Results











RT	Mass	Response	Amount
7.58	168.00	208577	0.229398
7.58	139.00	104639	

Reviewer: UJM0, 27-Apr-2023 10:05:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

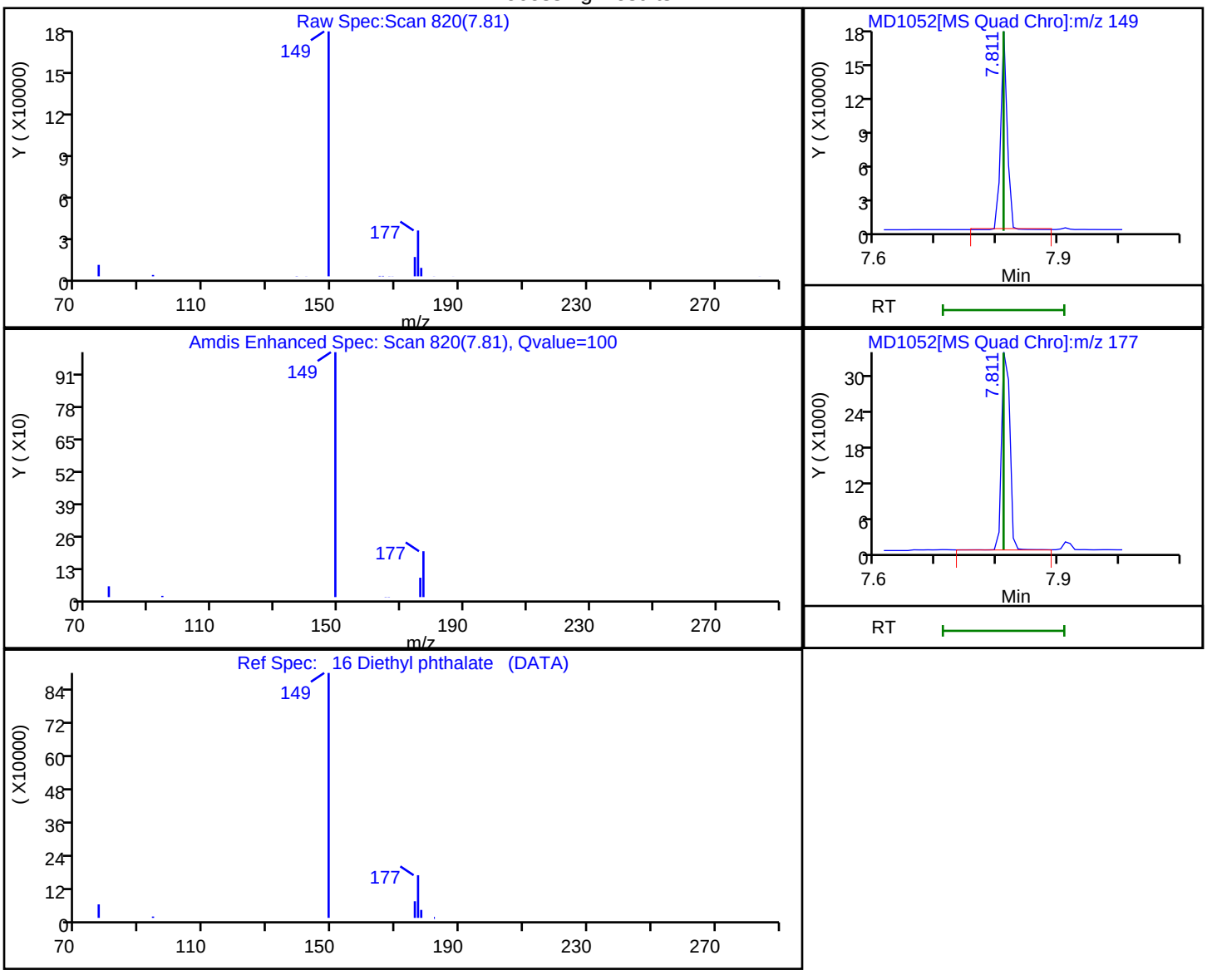
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

16 Diethyl phthalate, CAS: 84-66-2

Processing Results



RT	Mass	Response	Amount
7.81	149.00	132889	0.256483
7.81	177.00	32097	

Reviewer: UJM0, 27-Apr-2023 10:05:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

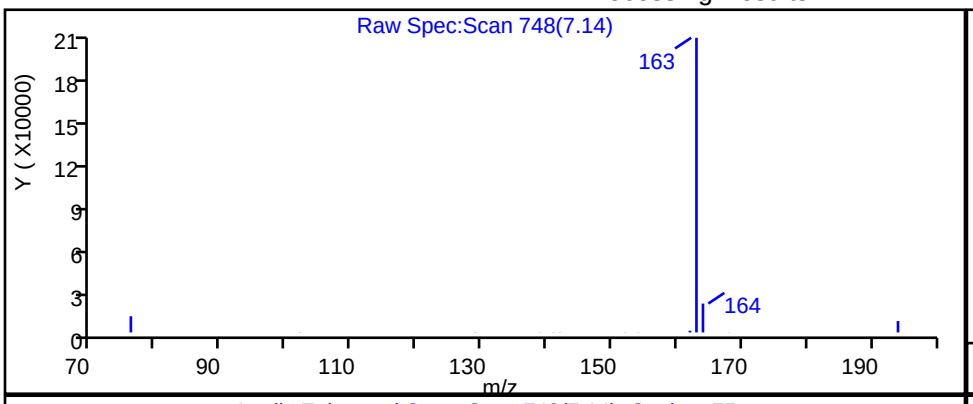
User Disabled Compound Report

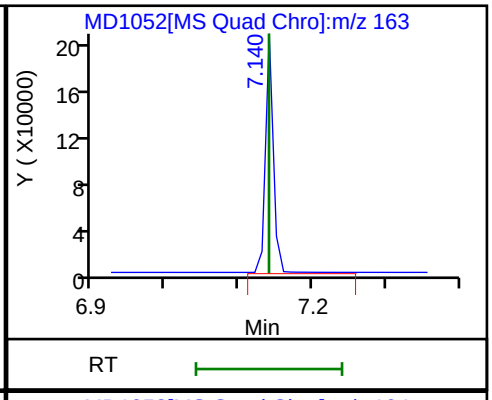
Eurofins Lancaster Laboratories Environment Testing, LLC

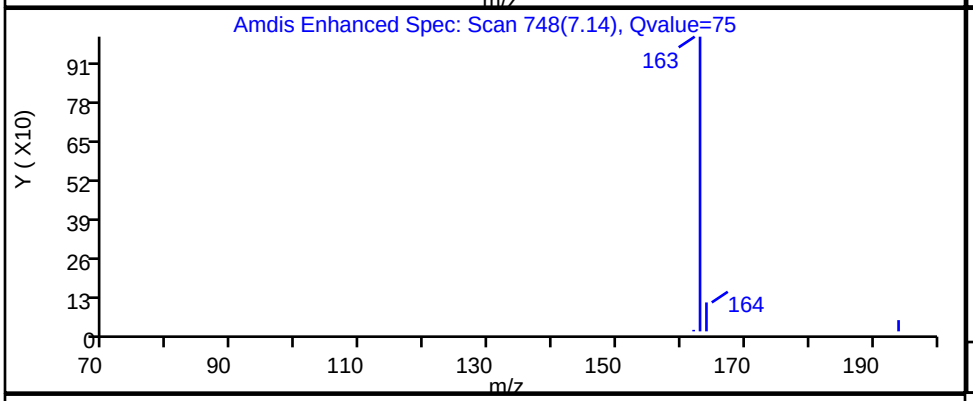
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

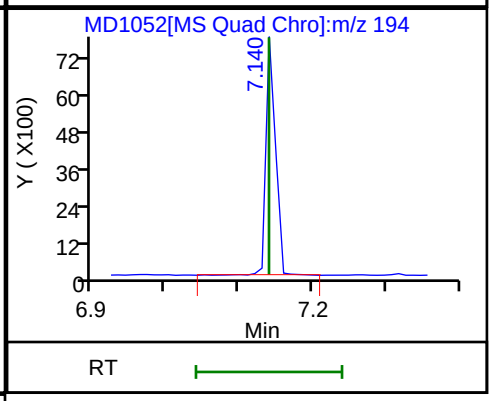
11 Dimethyl phthalate, CAS: 131-11-3

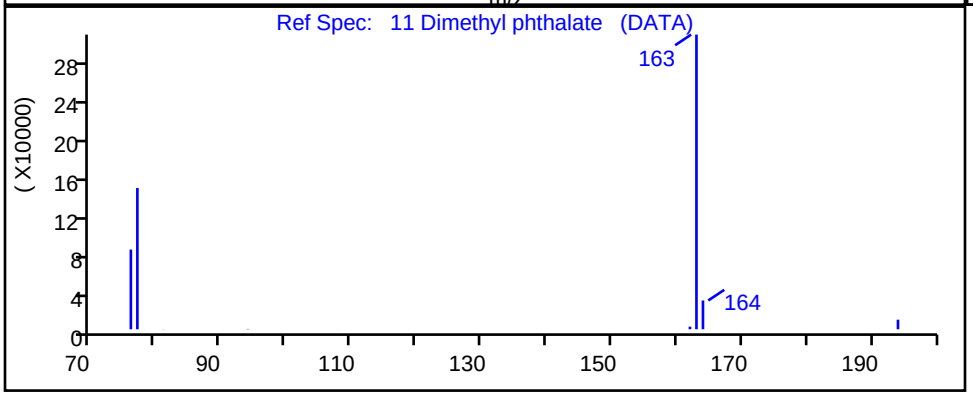
Processing Results











RT	Mass	Response	Amount
7.14	163.00	148968	0.257852
7.14	194.00	7093	

Reviewer: UJM0, 27-Apr-2023 10:05:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

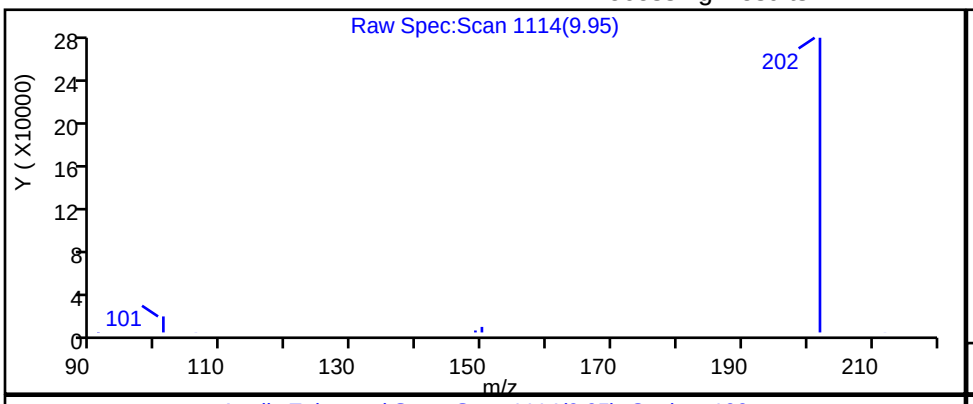
User Disabled Compound Report

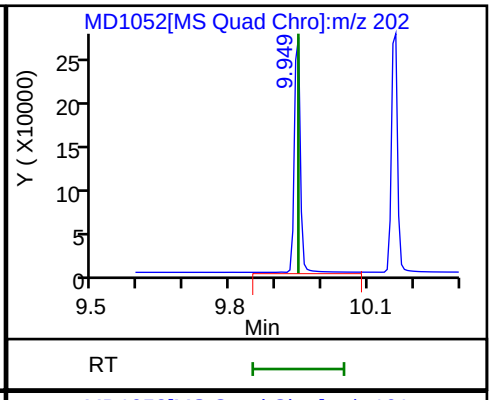
Eurofins Lancaster Laboratories Environment Testing, LLC

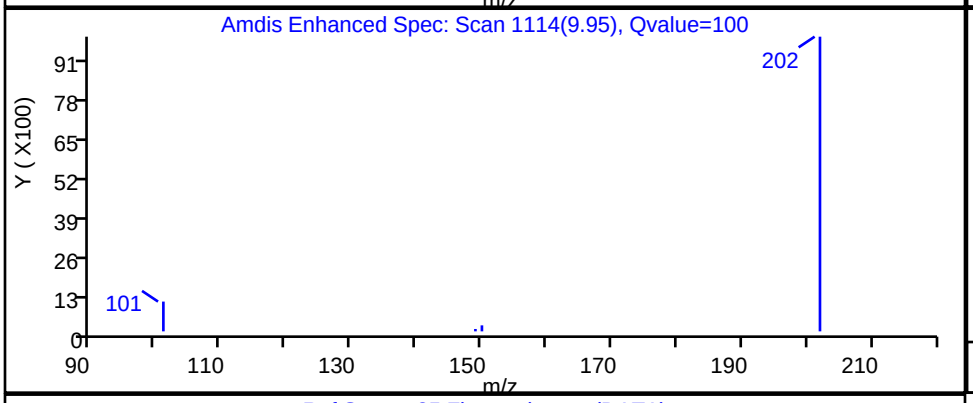
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

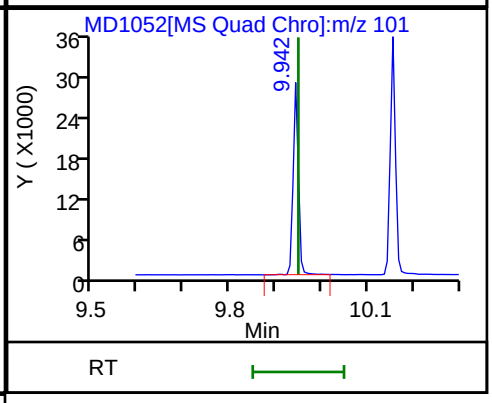
25 Fluoranthene, CAS: 206-44-0

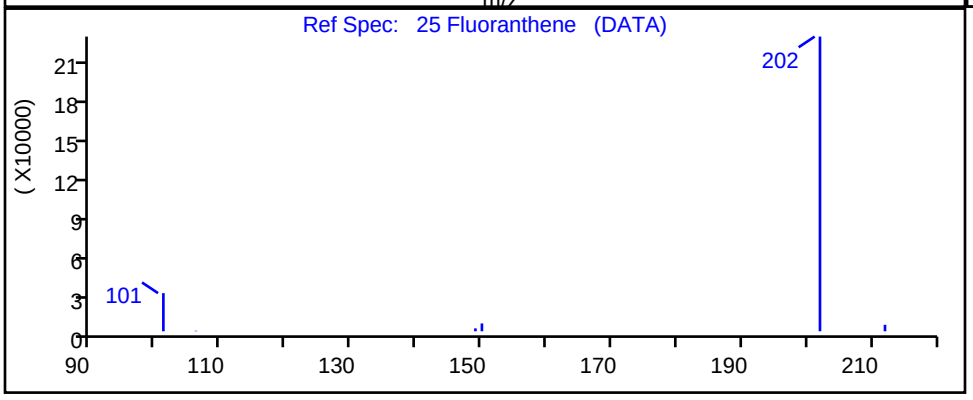
Processing Results











RT	Mass	Response	Amount
9.95	202.00	251261	0.209788
9.94	101.00	23802	

Reviewer: UJM0, 27-Apr-2023 10:05:52

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

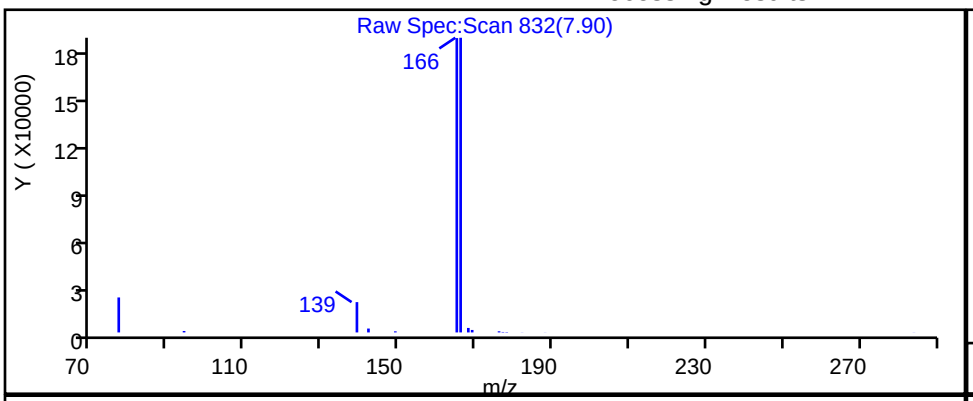
User Disabled Compound Report

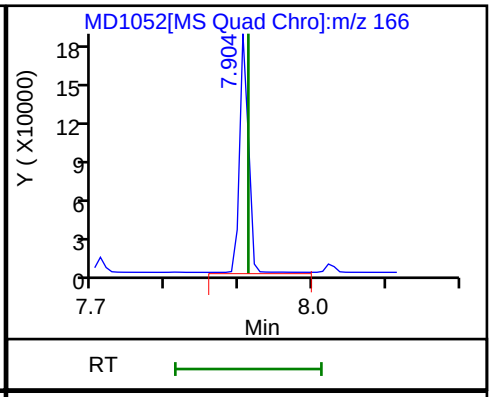
Eurofins Lancaster Laboratories Environment Testing, LLC

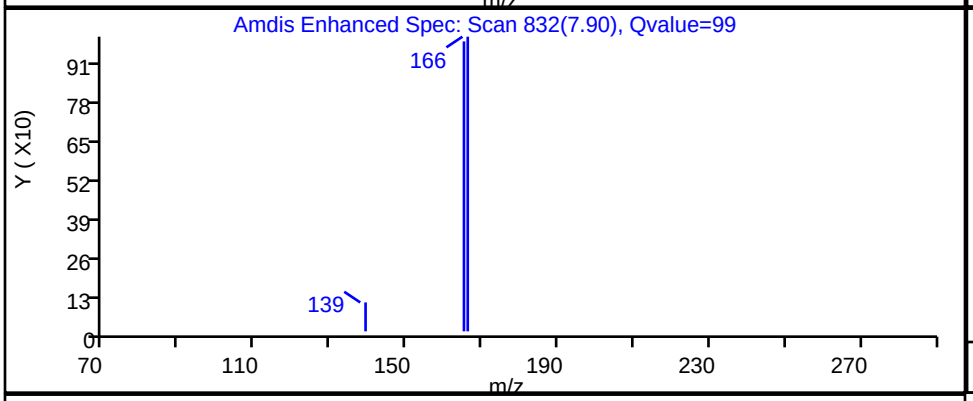
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

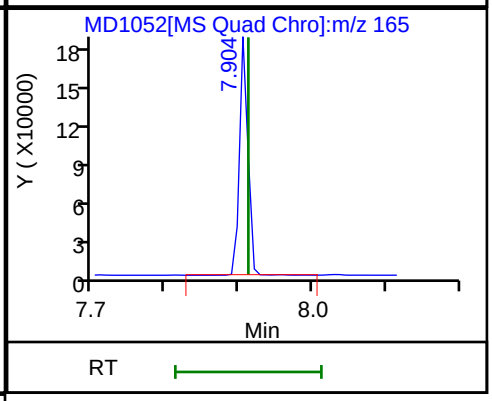
17 Fluorene, CAS: 86-73-7

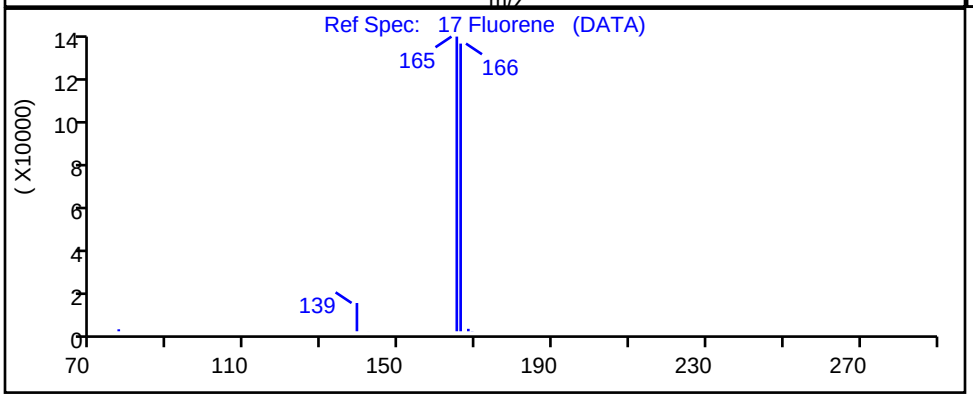
Processing Results











RT	Mass	Response	Amount
7.90	166.00	155127	0.232699
7.90	165.00	150658	

Reviewer: UJM0, 27-Apr-2023 10:05:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

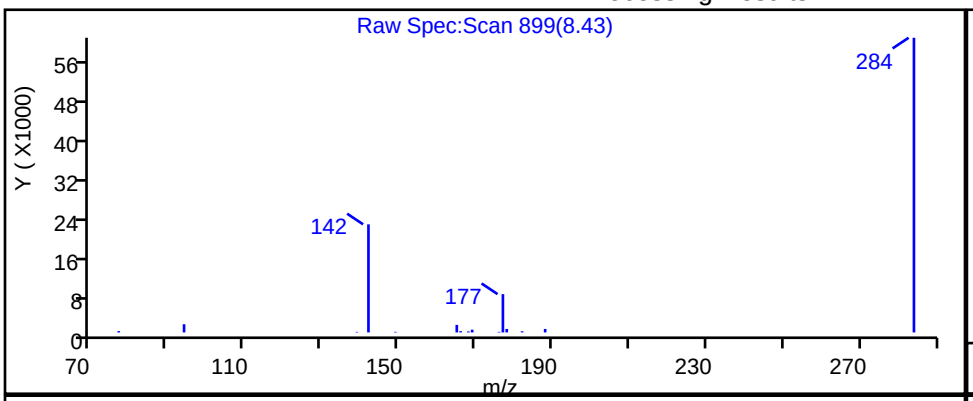
User Disabled Compound Report

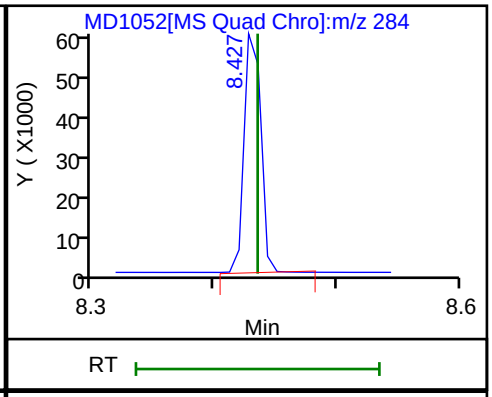
Eurofins Lancaster Laboratories Environment Testing, LLC

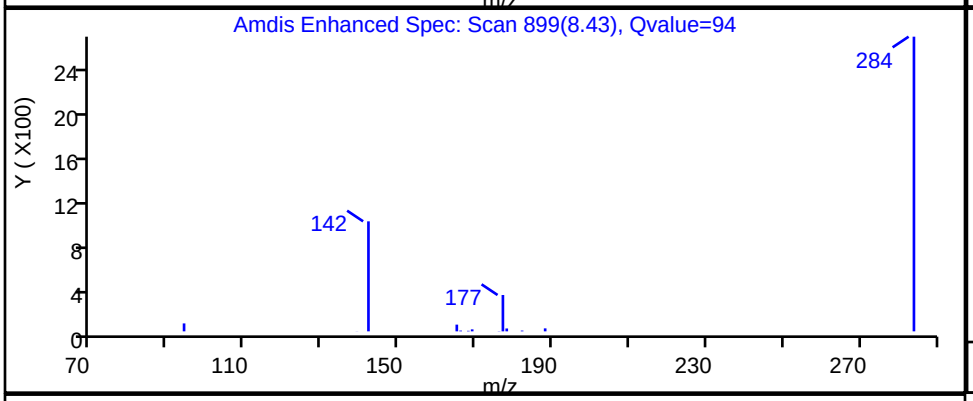
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

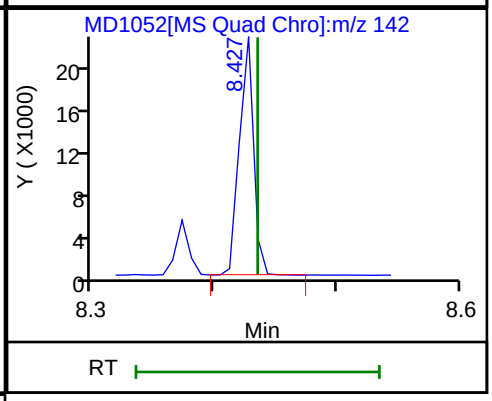
19 Hexachlorobenzene, CAS: 118-74-1

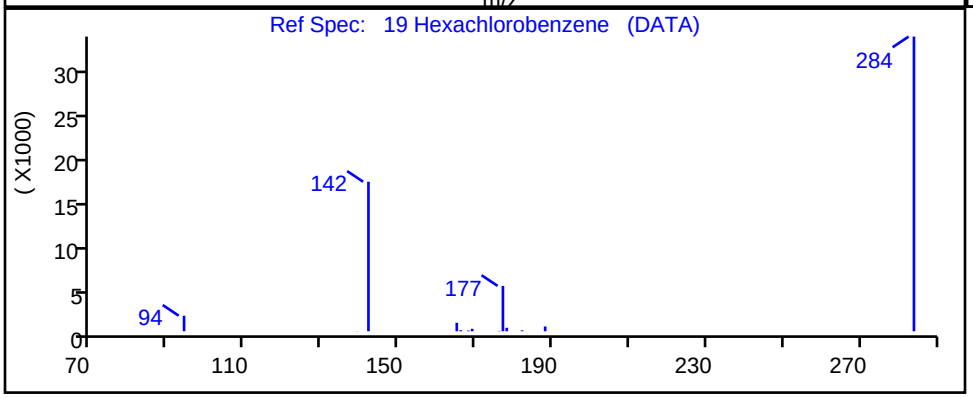
Processing Results











RT	Mass	Response	Amount
8.43	284.00	57512	0.211576
8.43	142.00	17863	

Reviewer: UJM0, 27-Apr-2023 10:05:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

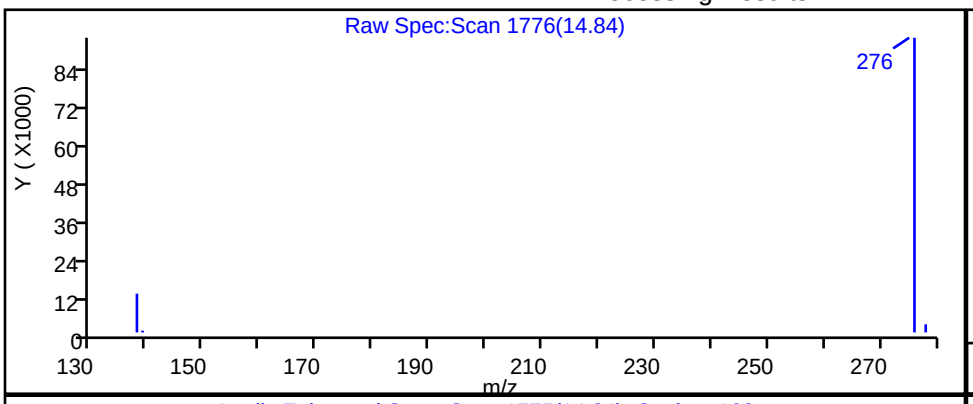
User Disabled Compound Report

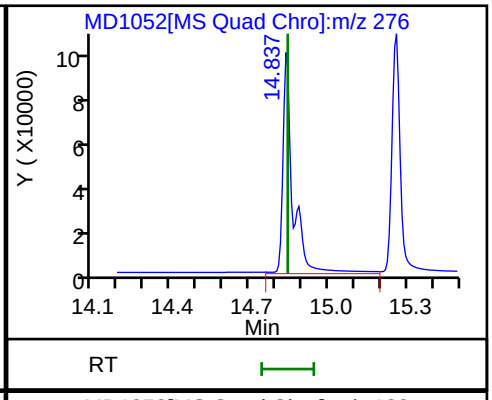
Eurofins Lancaster Laboratories Environment Testing, LLC

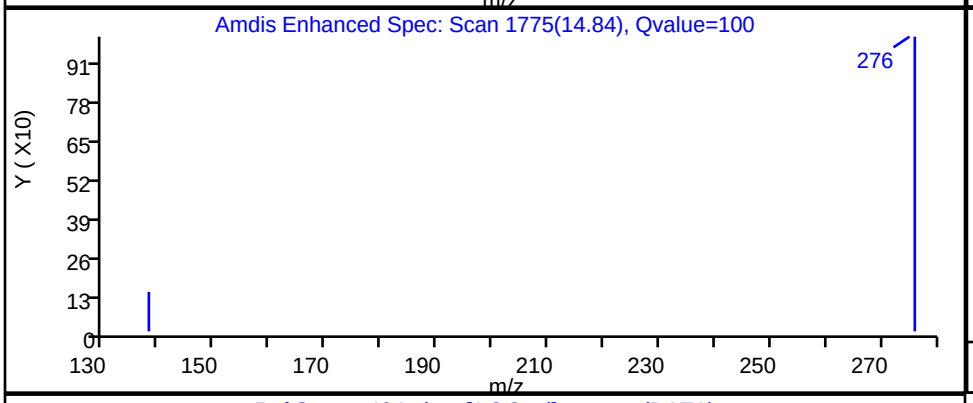
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

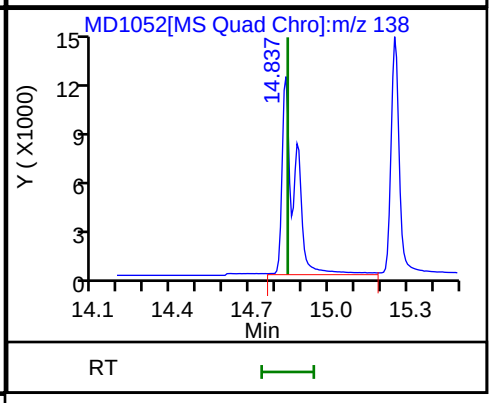
40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

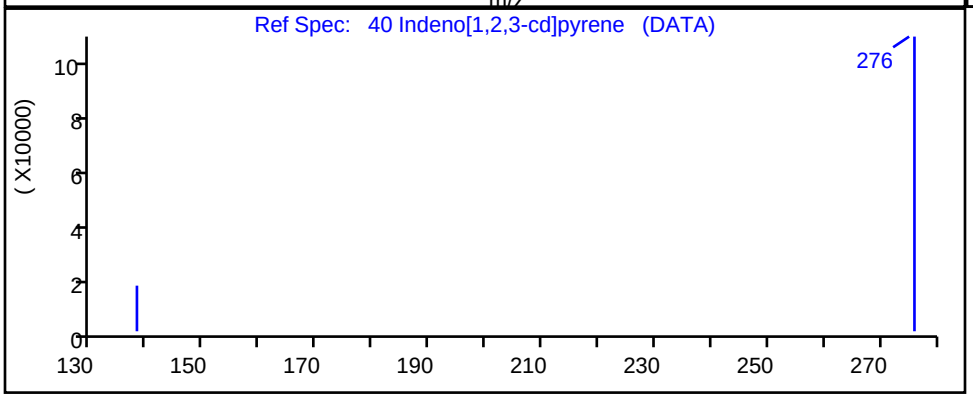
Processing Results











RT	Mass	Response	Amount
14.84	276.00	240816	0.294852
14.84	138.00	43102	

Reviewer: UJM0, 27-Apr-2023 10:06:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

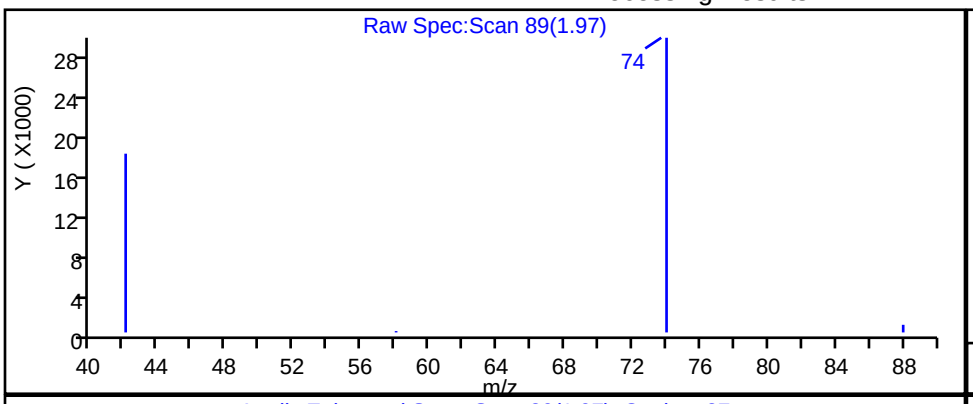
User Disabled Compound Report

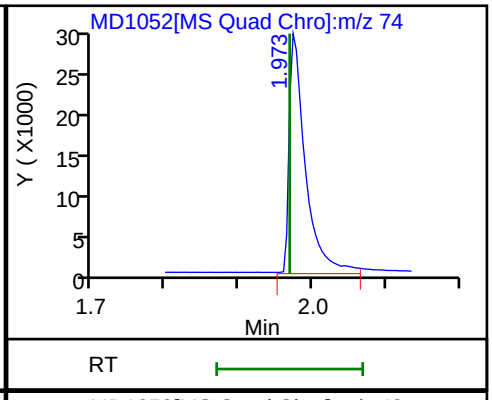
Eurofins Lancaster Laboratories Environment Testing, LLC

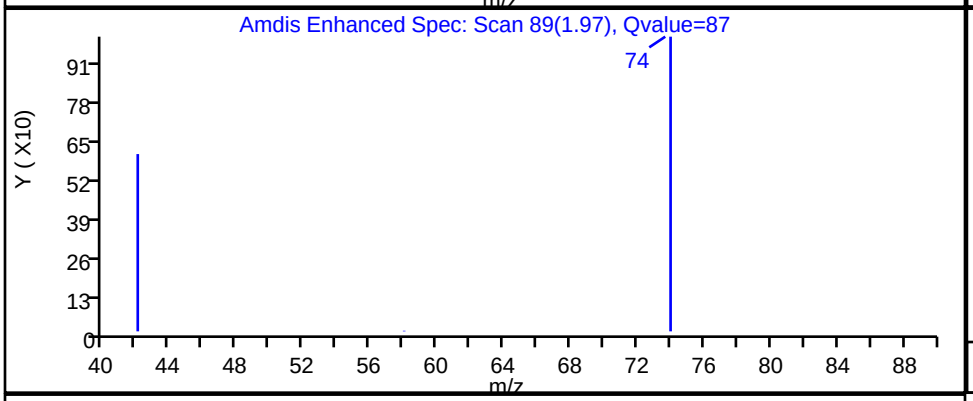
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

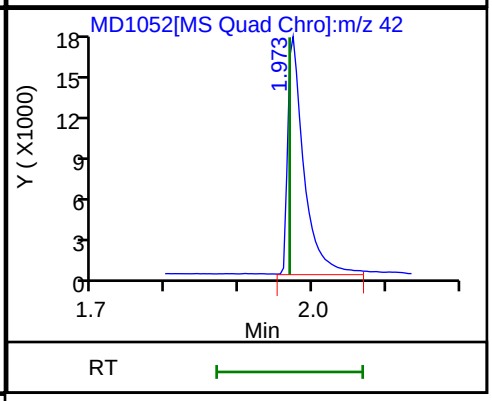
2 N-Nitrosodimethylamine, CAS: 62-75-9

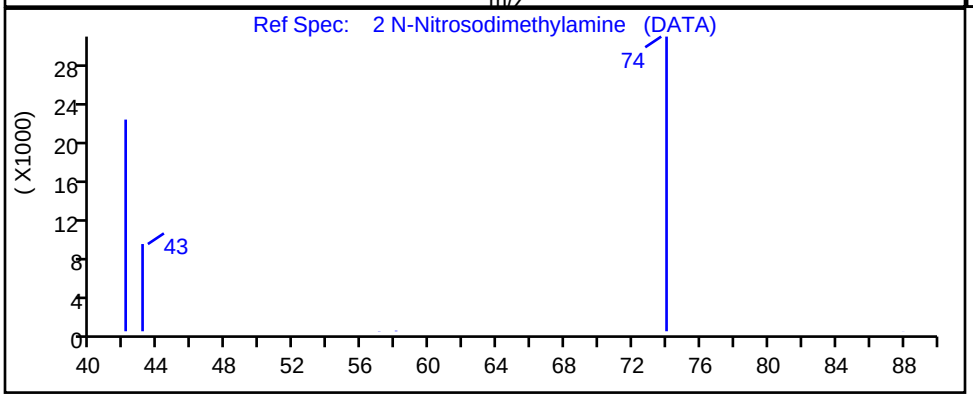
Processing Results











RT	Mass	Response	Amount
1.97	74.00	44252	0.255554
1.97	42.00	27330	

Reviewer: UJM0, 27-Apr-2023 10:05:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

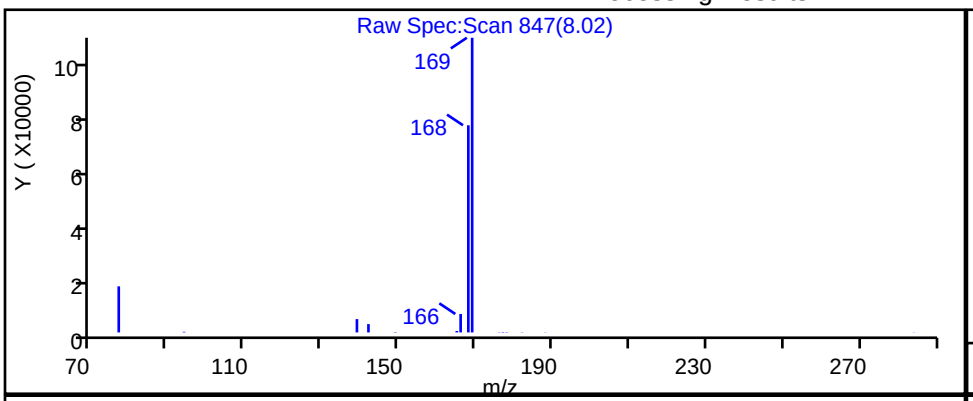
User Disabled Compound Report

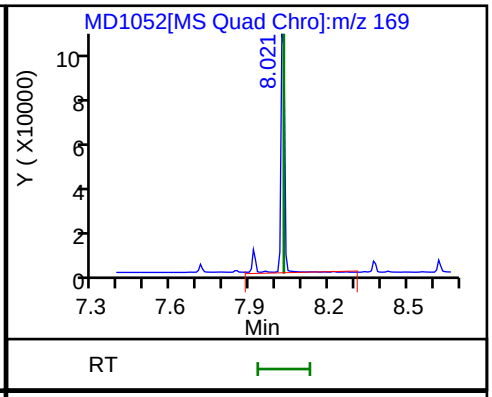
Eurofins Lancaster Laboratories Environment Testing, LLC

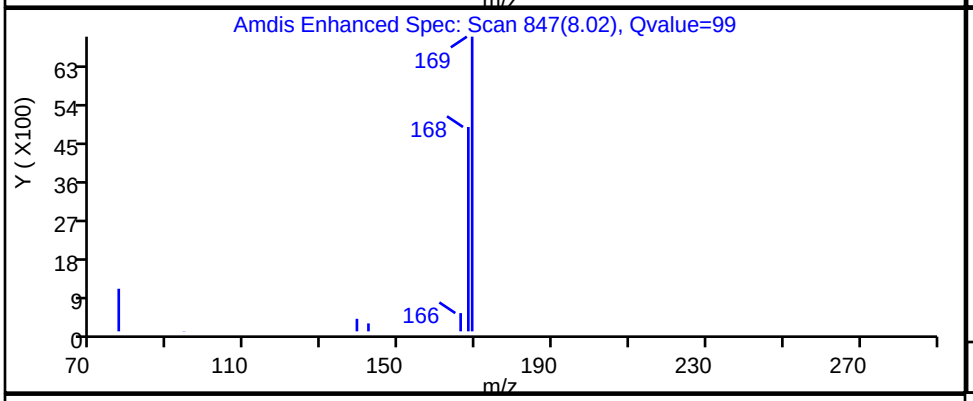
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

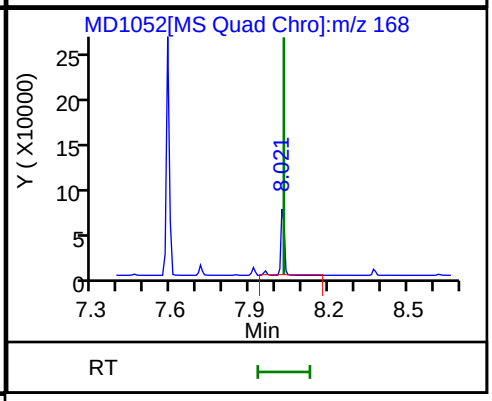
18 N-Nitrosodiphenylamine, CAS: 86-30-6

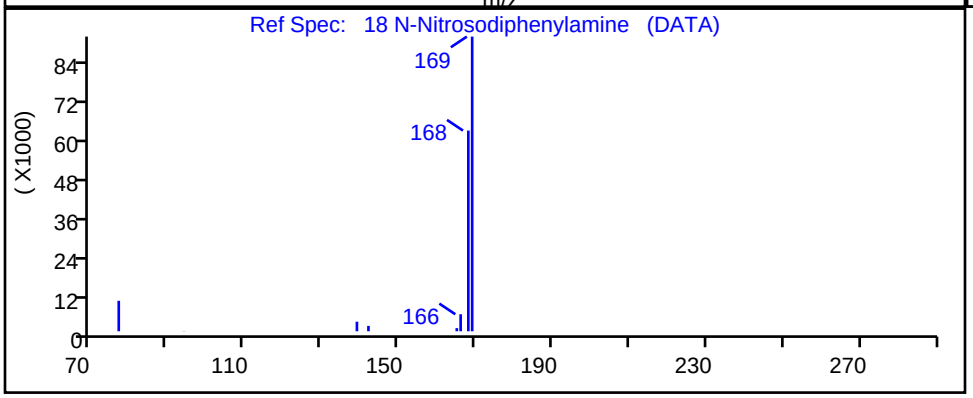
Processing Results











RT	Mass	Response	Amount
8.02	169.00	116796	0.301261
8.02	168.00	73792	

Reviewer: UJM0, 27-Apr-2023 10:05:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

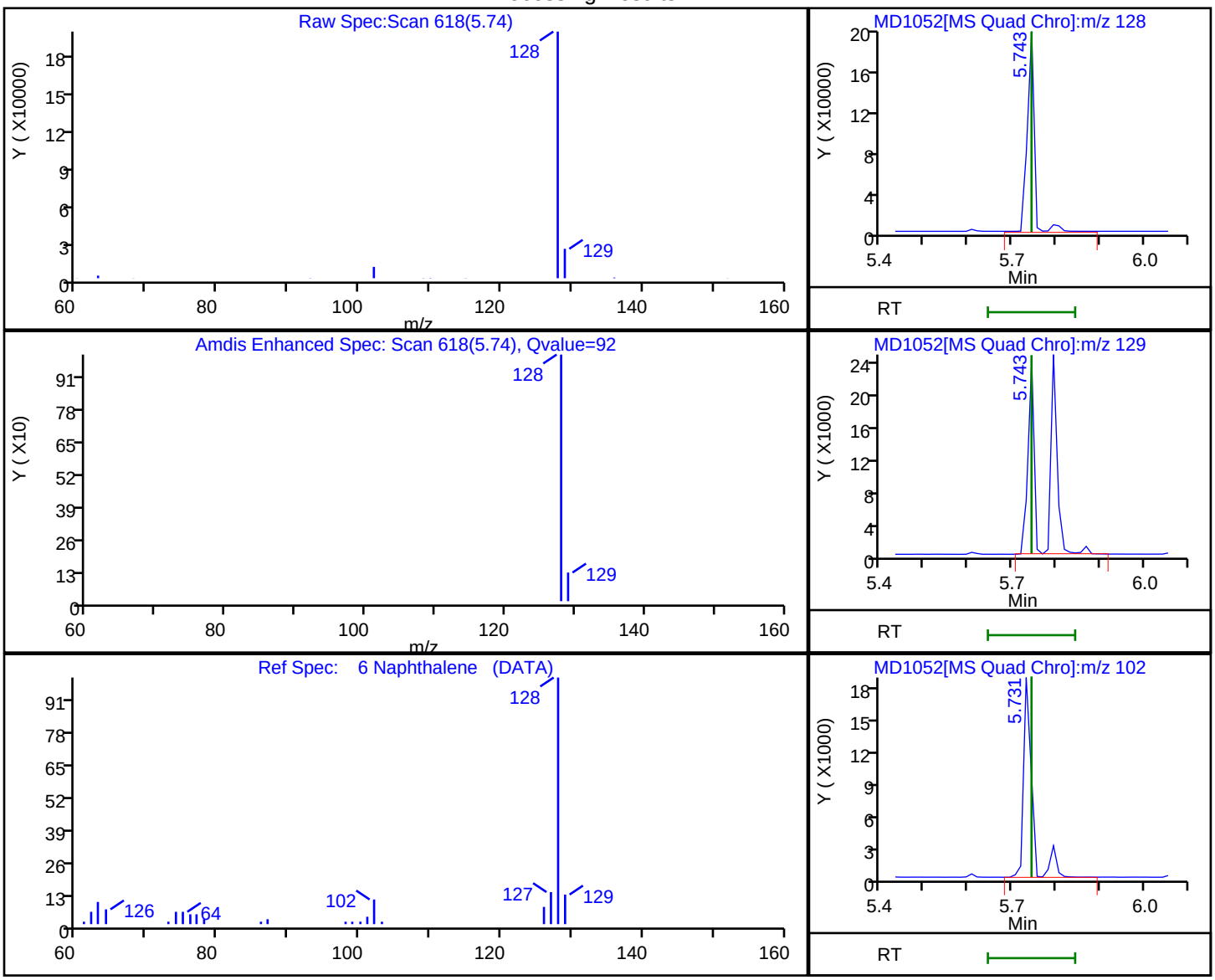
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
5.74	128.00	217098	0.244611
5.74	129.00	47338	
5.73	102.00	24320	

Reviewer: UJM0, 27-Apr-2023 10:05:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

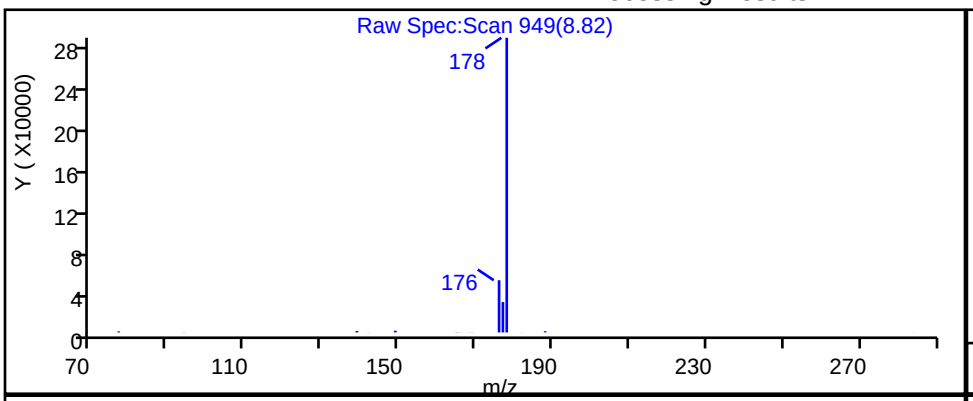
User Disabled Compound Report

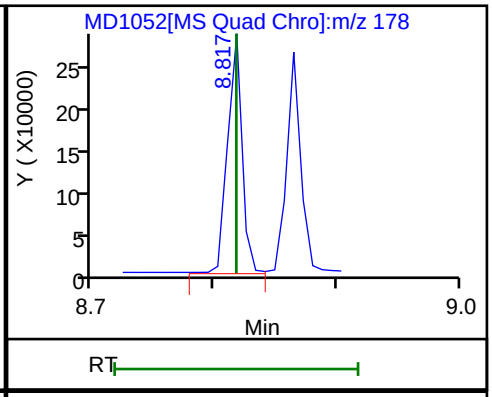
Eurofins Lancaster Laboratories Environment Testing, LLC

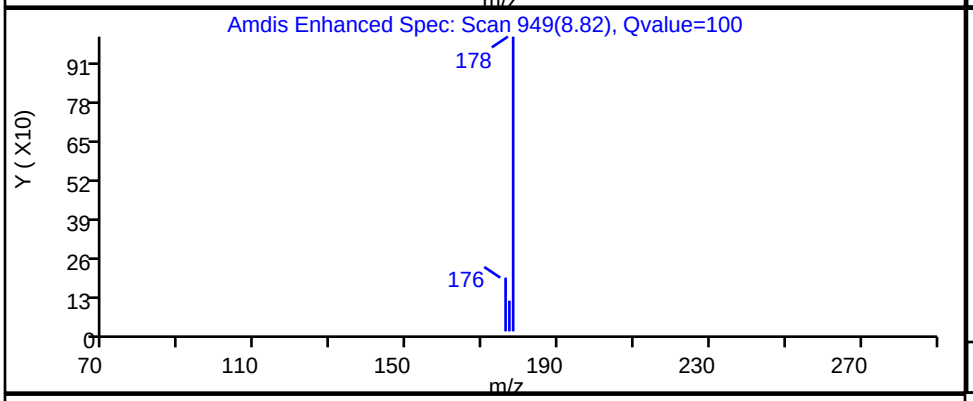
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D
Injection Date: 27-Apr-2023 04:35:18 Instrument ID: HP21585
Lims ID: ICV
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

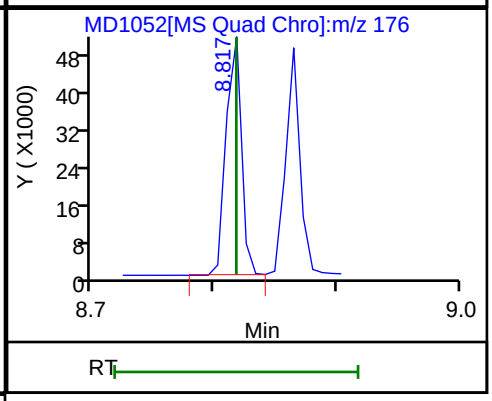
21 Phenanthrene, CAS: 85-01-8

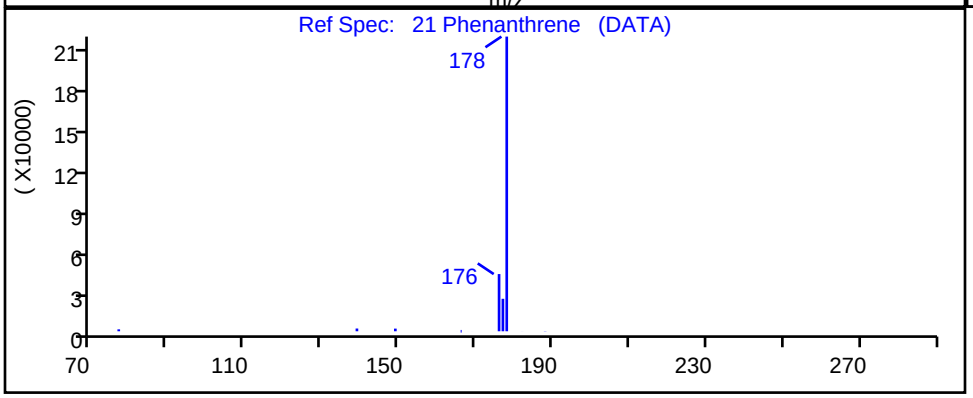
Processing Results











RT	Mass	Response	Amount
8.82	178.00	235751	0.220790
8.82	176.00	45007	

Reviewer: UJM0, 27-Apr-2023 10:05:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

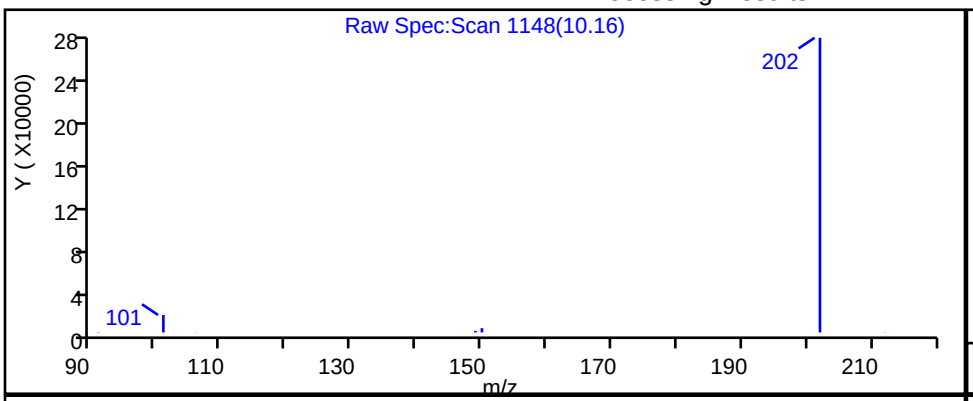
User Disabled Compound Report

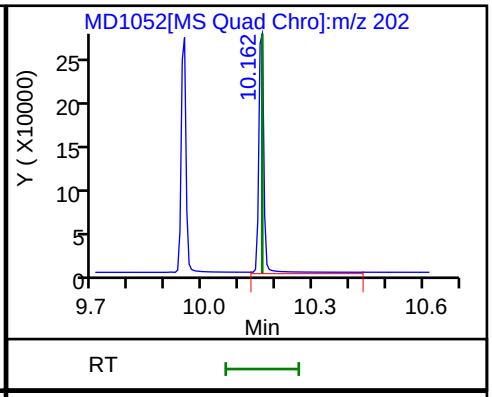
Eurofins Lancaster Laboratories Environment Testing, LLC

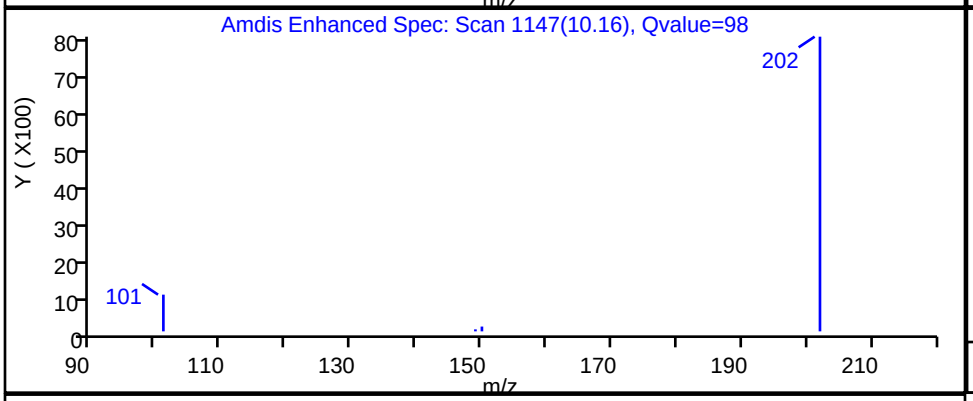
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1052.D				
Injection Date:	27-Apr-2023 04:35:18	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

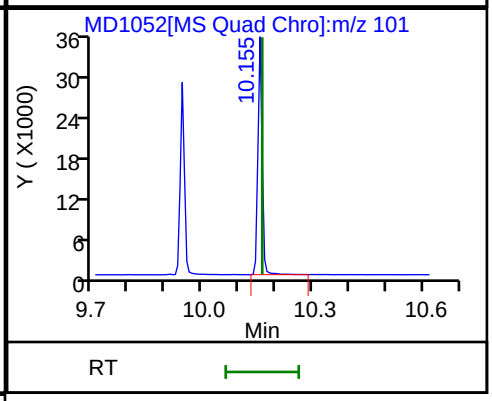
26 Pyrene, CAS: 129-00-0

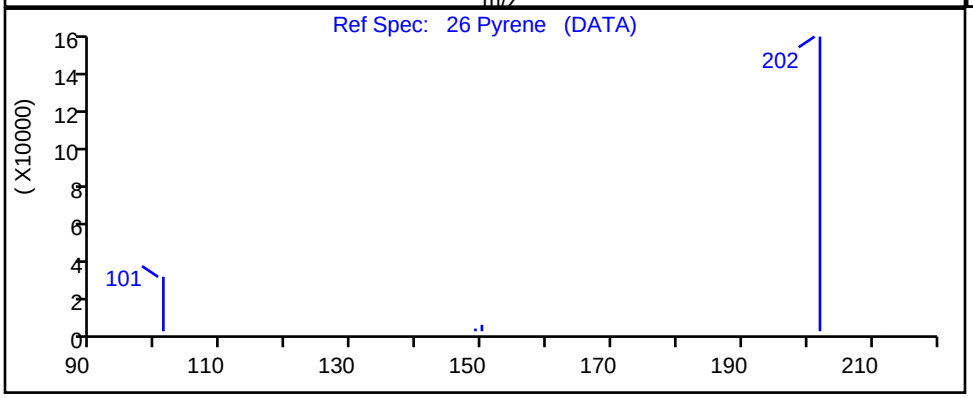
Processing Results











RT	Mass	Response	Amount
10.16	202.00	265139	0.215687
10.16	101.00	29515	

Reviewer: UJM0, 27-Apr-2023 10:05:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: CCVIS 410-386832/2 Calibration Date: 06/15/2023 05:48

Instrument ID: HP21585 Calib Start Date: 04/25/2023 06:05

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 04/25/2023 08:11

Lab File ID: MF1071.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6132	0.6698		0.546	0.500	9.2	20.4
N-Nitrosodimethylamine	Ave	0.7683	0.8243		0.536	0.500	7.3	20.4
Bis(2-chloroethyl)ether	Ave	0.4027	0.3775		0.469	0.500	-6.2	20.4
Naphthalene	Ave	1.162	1.177		0.507	0.500	1.3	20.4
Quinoline	Ave	0.6957	0.6691		0.481	0.500	-3.8	20.4
2-Methylnaphthalene	Ave	0.7779	0.7943		0.511	0.500	2.1	20.4
1-Methylnaphthalene	Ave	0.7261	0.7608		0.524	0.500	4.8	20.4
Dimethyl phthalate	Ave	1.340	1.372		2.56	2.50	2.3	20.4
Acenaphthylene	Ave	1.869	1.834		0.491	0.500	-1.8	20.4
Acenaphthene	Ave	1.211	1.147		0.474	0.500	-5.3	20.4
Dibenzofuran	Ave	2.110	2.005		0.475	0.500	-4.9	20.4
Diethyl phthalate	Ave	1.202	1.334		2.77	2.50	11.0	20.4
Fluorene	Ave	1.547	1.507		0.487	0.500	-2.6	20.4
N-Nitrosodiphenylamine	Ave	0.4512	0.4353		0.482	0.500	-3.5	20.4
Hexachlorobenzene	Ave	0.3164	0.2676		0.423	0.500	-15.4	20.4
Phenanthrene	Ave	1.243	1.155		0.465	0.500	-7.0	20.4
Anthracene	Ave	1.079	1.068		0.495	0.500	-1.0	20.4
Di-n-butyl phthalate	Ave	0.8543	1.032		3.02	2.50	20.9*	20.4
Fluoranthene	Ave	1.394	1.375		0.493	0.500	-1.3	20.4
Pyrene	Ave	1.606	1.427		0.445	0.500	-11.1	20.4
Butyl benzyl phthalate	Ave	0.3731	0.4678		3.14	2.50	25.4*	20.4
Benzo[a]anthracene	Ave	1.309	1.318		0.503	0.500	0.7	20.4
Chrysene	Ave	1.592	1.452		0.456	0.500	-8.8	20.4
Bis(2-ethylhexyl) phthalate	Lin2		0.6608		2.93	2.50	17.1	20.4
Di-n-octyl phthalate	Ave	0.7355	1.000		3.40	2.50	35.9*	20.4
Benzo[b]fluoranthene	Ave	1.321	1.264		0.478	0.500	-4.4	20.4
Benzo[k]fluoranthene	Ave	1.409	1.338		0.475	0.500	-5.0	20.4
Benzo[e]pyrene	Ave	1.342	1.245		0.464	0.500	-7.2	20.4
Benzo[a]pyrene	Ave	1.195	1.195		0.500	0.500	-0.0	20.4
Perylene	Ave	1.360	1.267		0.466	0.500	-6.8	20.4
Indeno[1,2,3-cd]pyrene	Ave	1.099	1.119		0.509	0.500	1.8	20.4
Dibenz(a,h)anthracene	Ave	1.267	1.206		0.476	0.500	-4.8	20.4
Benzo[g,h,i]perylene	Ave	1.400	1.318		0.471	0.500	-5.9	20.4
1-Methylnaphthalene-d10 (Surr)	Ave	0.6087	0.6229		0.512	0.500	2.3	20.4
Fluoranthene-d10 (Surr)	Ave	1.143	1.150		0.503	0.500	0.7	20.4
Benzo(a)pyrene-d12 (Surr)	Ave	0.9193	0.9419		0.512	0.500	2.5	20.4

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1071.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Jun-2023 05:48:46 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0086657-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 15-Jun-2023 06:11:27 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: UJM0 Date: 15-Jun-2023 06:11:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.612	1.612	0.000	86	93911	0.5000	0.5462	
2 N-Nitrosodimethylamine	74	1.914	1.914	0.000	91	115569	0.5000	0.5364	
3 Bis(2-chloroethyl)ether	93	4.204	4.204	0.000	87	183538	0.5000	0.4688	
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	64	70103	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	243070	0.2500	0.2500	
6 Naphthalene	128	5.704	5.704	0.000	93	572192	0.5000	0.5066	
7 Quinoline	129	6.029	6.029	0.000	89	325276	0.5000	0.4809	
8 2-Methylnaphthalene	142	6.370	6.370	0.000	95	386131	0.5000	0.5106	
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	96	302793	0.5000	0.5116	
10 1-Methylnaphthalene	142	6.459	6.459	0.000	98	369844	0.5000	0.5239	
11 Dimethyl phthalate	163	7.109	7.109	0.000	77	2161425	2.50	2.56	
12 Acenaphthylene	152	7.217	7.217	0.000	98	578062	0.5000	0.4908	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	91	157566	0.2500	0.2500	
14 Acenaphthene	154	7.384	7.384	0.000	90	361578	0.5000	0.4737	
15 Dibenzofuran	168	7.552	7.552	0.000	92	631909	0.5000	0.4753	
16 Diethyl phthalate	149	7.785	7.785	0.000	98	2102354	2.50	2.77	
17 Fluorene	166	7.871	7.871	0.000	100	474797	0.5000	0.4870	
18 N-Nitrosodiphenylamine	169	7.996	7.996	0.000	100	279113	0.5000	0.4823	
19 Hexachlorobenzene	284	8.402	8.402	0.000	93	171570	0.5000	0.4229	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	320601	0.2500	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	740901	0.5000	0.4649	
22 Anthracene	178	8.831	8.831	0.000	100	685108	0.5000	0.4951	
23 Di-n-butyl phthalate	149	9.345	9.345	0.000	100	3310000	2.50	3.02	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	737515	0.5000	0.5033	
25 Fluoranthene	202	9.915	9.915	0.000	100	881912	0.5000	0.4933	
26 Pyrene	202	10.128	10.128	0.000	98	931076	0.5000	0.4445	
27 Butyl benzyl phthalate	149	10.789	10.789	0.000	100	1525804	2.50	3.14	
28 Benzo[a]anthracene	228	11.365	11.365	0.000	100	859441	0.5000	0.5033	
* 29 Chrysene-d12	240	11.372	11.372	0.000	89	326140	0.2500	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	946847	0.5000	0.4559	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.457	11.457	0.000	99	2155035	2.50	2.93	
32 Di-n-octyl phthalate	149	12.285	12.285	0.000	100	3520656	2.50	3.40	
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	890008	0.5000	0.4782	
34 Benzo[k]fluoranthene	252	12.753	12.753	0.000	100	942434	0.5000	0.4748	
35 Benzo[e]pyrene	252	13.090	13.090	0.000	100	877058	0.5000	0.4641	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	100	663432	0.5000	0.5123	
37 Benzo[a]pyrene	252	13.159	13.159	0.000	100	841752	0.5000	0.4998	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	352187	0.2500	0.2500	
39 Perylene	252	13.274	13.274	0.000	100	892662	0.5000	0.4660	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.771	0.000	100	787874	0.5000	0.5088	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	95	849811	0.5000	0.4761	
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	928056	0.5000	0.4705	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00028 Amount Added: 1.00 Units: mL

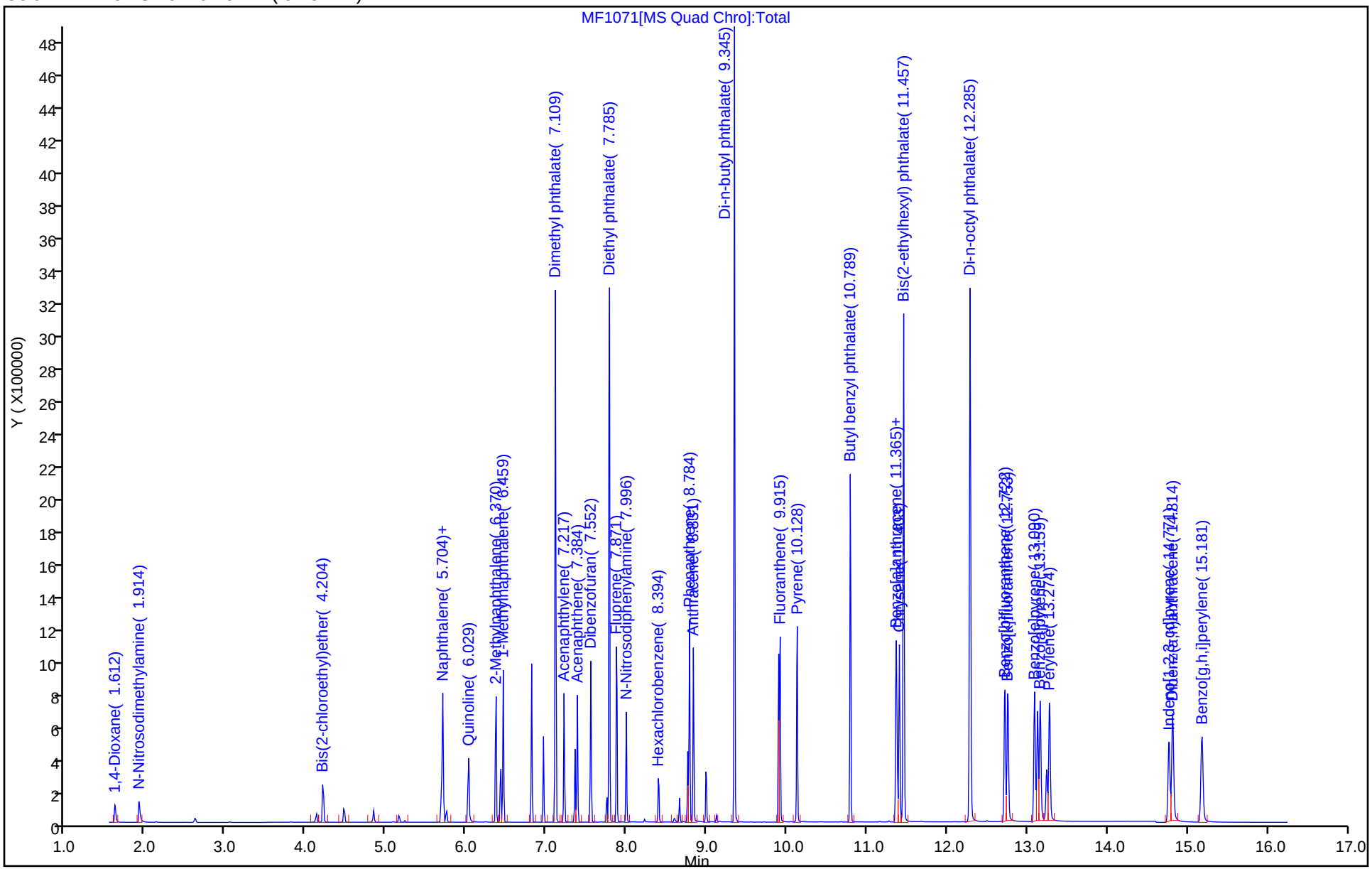
Report Date: 15-Jun-2023 06:11:27 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1071.D

Injection Date:	15-Jun-2023 05:48:46	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

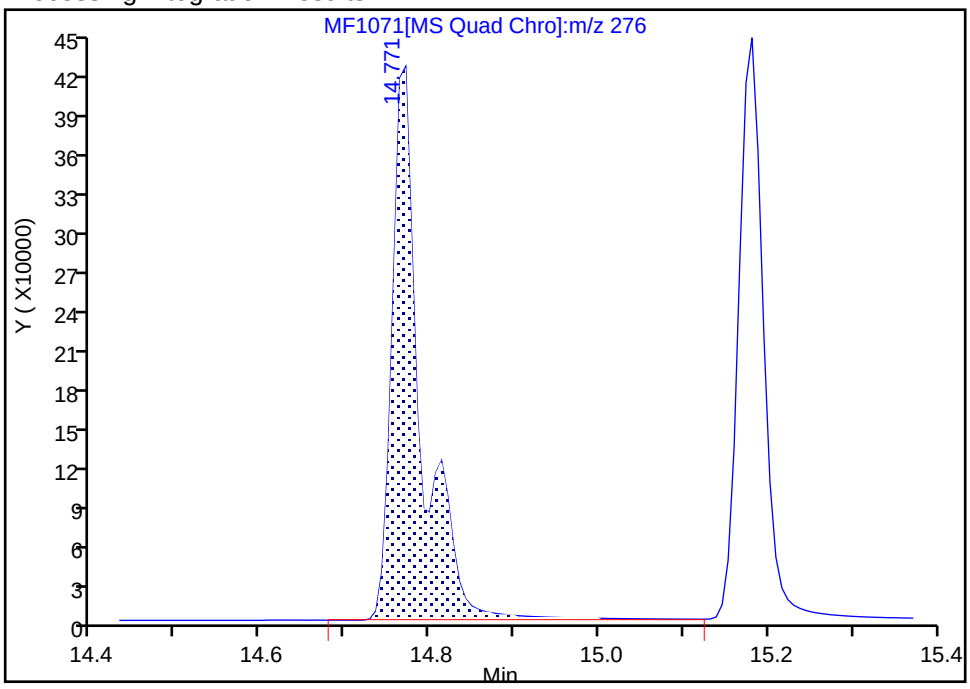
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1071.D				
Injection Date:	15-Jun-2023 05:48:46	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

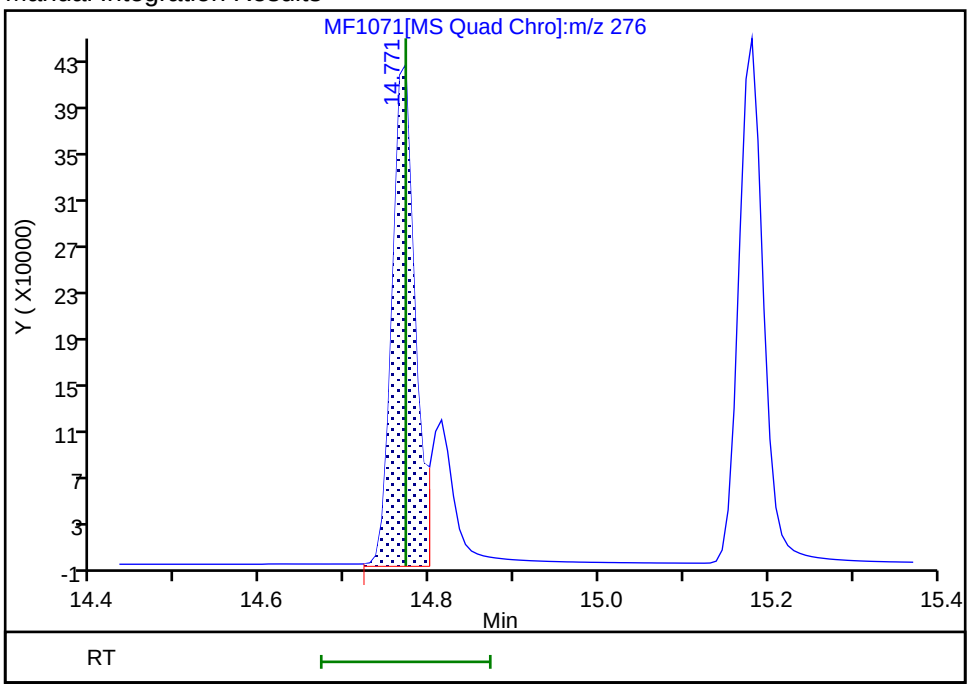
Processing Integration Results

RT: 14.77
Area: 1030400
Amount: 0.665468
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 787874
Amount: 0.508836
Amount Units: ug/ml



Reviewer: UJM0, 15-Jun-2023 06:10:42 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: CCVIS 410-387377/2 Calibration Date: 06/16/2023 04:50

Instrument ID: HP21585 Calib Start Date: 04/25/2023 06:05

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 04/25/2023 08:11

Lab File ID: MF1151.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6132	0.6139		0.501	0.500	0.1	20.4
N-Nitrosodimethylamine	Ave	0.7683	0.8133		0.529	0.500	5.9	20.4
Bis(2-chloroethyl)ether	Ave	0.4027	0.3819		0.474	0.500	-5.2	20.4
Naphthalene	Ave	1.162	1.161		0.500	0.500	-0.0	20.4
Quinoline	Ave	0.6957	0.6345		0.456	0.500	-8.8	20.4
2-Methylnaphthalene	Ave	0.7779	0.7797		0.501	0.500	0.2	20.4
1-Methylnaphthalene	Ave	0.7261	0.7380		0.508	0.500	1.6	20.4
Dimethyl phthalate	Ave	1.340	1.368		2.55	2.50	2.1	20.4
Acenaphthylene	Ave	1.869	1.853		0.496	0.500	-0.8	20.4
Acenaphthene	Ave	1.211	1.178		0.486	0.500	-2.7	20.4
Dibenzofuran	Ave	2.110	2.020		0.479	0.500	-4.3	20.4
Diethyl phthalate	Ave	1.202	1.328		2.76	2.50	10.5	20.4
Fluorene	Ave	1.547	1.508		0.487	0.500	-2.5	20.4
N-Nitrosodiphenylamine	Ave	0.4512	0.4450		0.493	0.500	-1.4	20.4
Hexachlorobenzene	Ave	0.3164	0.2742		0.433	0.500	-13.3	20.4
Phenanthrene	Ave	1.243	1.164		0.468	0.500	-6.3	20.4
Anthracene	Ave	1.079	1.070		0.496	0.500	-0.8	20.4
Di-n-butyl phthalate	Ave	0.8543	1.021		2.99	2.50	19.5	20.4
Fluoranthene	Ave	1.394	1.370		0.492	0.500	-1.7	20.4
Pyrene	Ave	1.606	1.405		0.438	0.500	-12.5	20.4
Butyl benzyl phthalate	Ave	0.3731	0.4516		3.03	2.50	21.0*	20.4
Benzo[a]anthracene	Ave	1.309	1.292		0.494	0.500	-1.3	20.4
Chrysene	Ave	1.592	1.415		0.444	0.500	-11.1	20.4
Bis(2-ethylhexyl) phthalate	Lin2		0.6354		2.82	2.50	12.7	20.4
Di-n-octyl phthalate	Ave	0.7355	0.9241		3.14	2.50	25.6*	20.4
Benzo[b]fluoranthene	Ave	1.321	1.213		0.459	0.500	-8.2	20.4
Benzo[k]fluoranthene	Ave	1.409	1.339		0.475	0.500	-5.0	20.4
Benzo[e]pyrene	Ave	1.342	1.242		0.463	0.500	-7.4	20.4
Benzo[a]pyrene	Ave	1.195	1.202		0.503	0.500	0.5	20.4
Perylene	Ave	1.360	1.268		0.466	0.500	-6.7	20.4
Indeno[1,2,3-cd]pyrene	Ave	1.099	1.038		0.472	0.500	-5.6	20.4
Dibenz(a,h)anthracene	Ave	1.267	1.153		0.455	0.500	-9.0	20.4
Benzo[g,h,i]perylene	Ave	1.400	1.259		0.450	0.500	-10.1	20.4
1-Methylnaphthalene-d10 (Surr)	Ave	0.6087	0.6091		0.500	0.500	0.0	20.4
Fluoranthene-d10 (Surr)	Ave	1.143	1.161		0.508	0.500	1.6	20.4
Benzo(a)pyrene-d12 (Surr)	Ave	0.9193	0.9297		0.506	0.500	1.1	20.4

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1151.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Jun-2023 04:50:25 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0086777-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 05:18:14 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 05:18:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.616	1.616	0.000	85	95869	0.5000	0.5006	M
2 N-Nitrosodimethylamine	74	1.914	1.914	0.000	89	127004	0.5000	0.5293	
3 Bis(2-chloroethyl)ether	93	4.204	4.204	0.000	87	209450	0.5000	0.4741	
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	65	78084	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	274252	0.2500	0.2500	
6 Naphthalene	128	5.704	5.704	0.000	93	637053	0.5000	0.4999	
7 Quinoline	129	6.029	6.029	0.000	89	348019	0.5000	0.4560	
8 2-Methylnaphthalene	142	6.370	6.370	0.000	94	427693	0.5000	0.5012	
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	96	334074	0.5000	0.5003	
10 1-Methylnaphthalene	142	6.459	6.459	0.000	98	404776	0.5000	0.5082	
11 Dimethyl phthalate	163	7.109	7.109	0.000	78	2258813	2.50	2.55	
12 Acenaphthylene	152	7.217	7.217	0.000	98	611873	0.5000	0.4958	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	93	165069	0.2500	0.2500	
14 Acenaphthene	154	7.384	7.384	0.000	85	388962	0.5000	0.4864	
15 Dibenzofuran	168	7.552	7.552	0.000	93	666724	0.5000	0.4786	
16 Diethyl phthalate	149	7.785	7.785	0.000	98	2192003	2.50	2.76	
17 Fluorene	166	7.871	7.871	0.000	100	497861	0.5000	0.4875	
18 N-Nitrosodiphenylamine	169	7.996	7.996	0.000	100	292288	0.5000	0.4930	
19 Hexachlorobenzene	284	8.402	8.402	0.000	92	180093	0.5000	0.4333	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	328438	0.2500	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	764558	0.5000	0.4683	
22 Anthracene	178	8.831	8.831	0.000	100	702970	0.5000	0.4958	
23 Di-n-butyl phthalate	149	9.345	9.345	0.000	100	3352987	2.50	2.99	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	762308	0.5000	0.5078	
25 Fluoranthene	202	9.915	9.915	0.000	100	900173	0.5000	0.4915	
26 Pyrene	202	10.128	10.128	0.000	98	950205	0.5000	0.4376	
27 Butyl benzyl phthalate	149	10.789	10.789	0.000	100	1526848	2.50	3.03	
28 Benzo[a]anthracene	228	11.365	11.365	0.000	100	873745	0.5000	0.4936	
* 29 Chrysene-d12	240	11.372	11.372	0.000	94	338123	0.2500	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	957056	0.5000	0.4444	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.457	11.457	0.000	99	2148574	2.50	2.82	
32 Di-n-octyl phthalate	149	12.285	12.285	0.000	100	3520072	2.50	3.14	
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	923738	0.5000	0.4589	
34 Benzo[k]fluoranthene	252	12.761	12.761	0.000	100	1020040	0.5000	0.4752	
35 Benzo[e]pyrene	252	13.090	13.090	0.000	100	946311	0.5000	0.4630	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	100	708213	0.5000	0.5056	
37 Benzo[a]pyrene	252	13.159	13.159	0.000	100	915577	0.5000	0.5027	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	380902	0.2500	0.2500	
39 Perylene	252	13.282	13.282	0.000	100	965948	0.5000	0.4663	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.771	0.000	99	790830	0.5000	0.4722	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	96	878531	0.5000	0.4551	
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	959149	0.5000	0.4496	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00028 Amount Added: 1.00 Units: mL

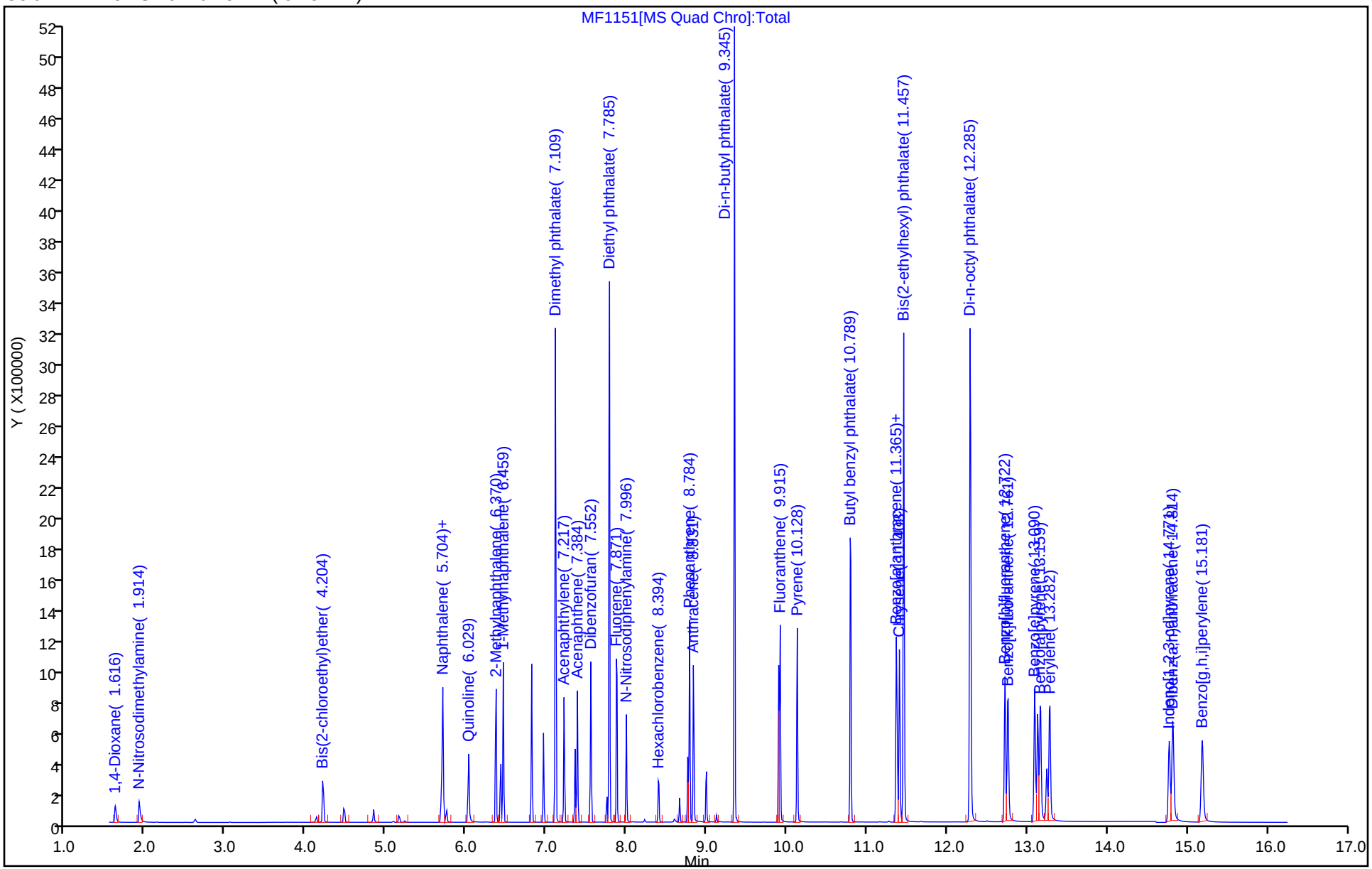
Report Date: 16-Jun-2023 05:18:15 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1151.D

Injection Date:	16-Jun-2023 04:50:25	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

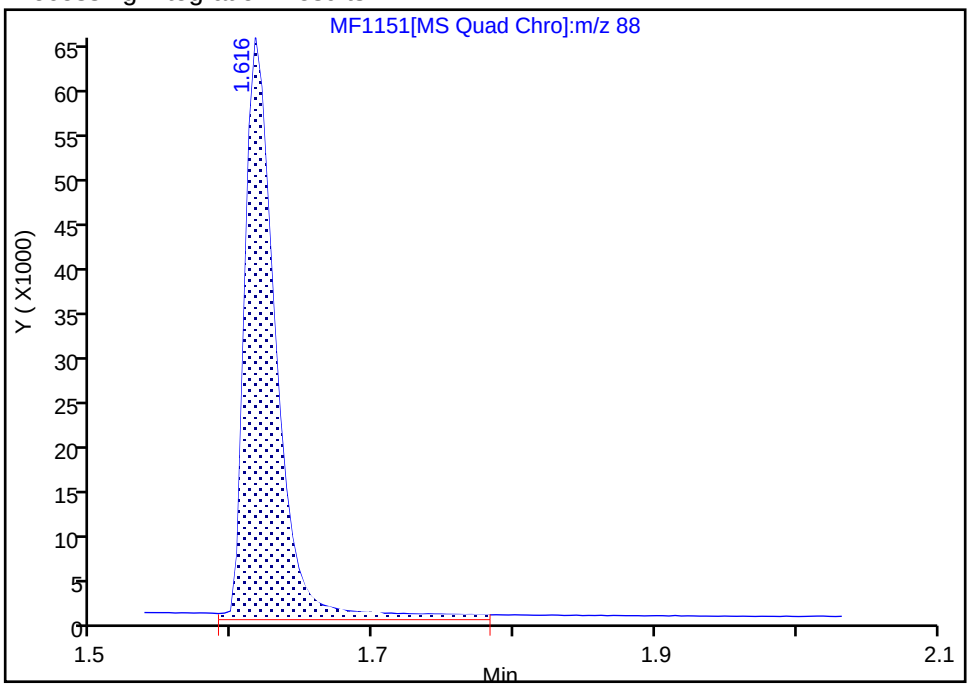
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1151.D				
Injection Date:	16-Jun-2023 04:50:25	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

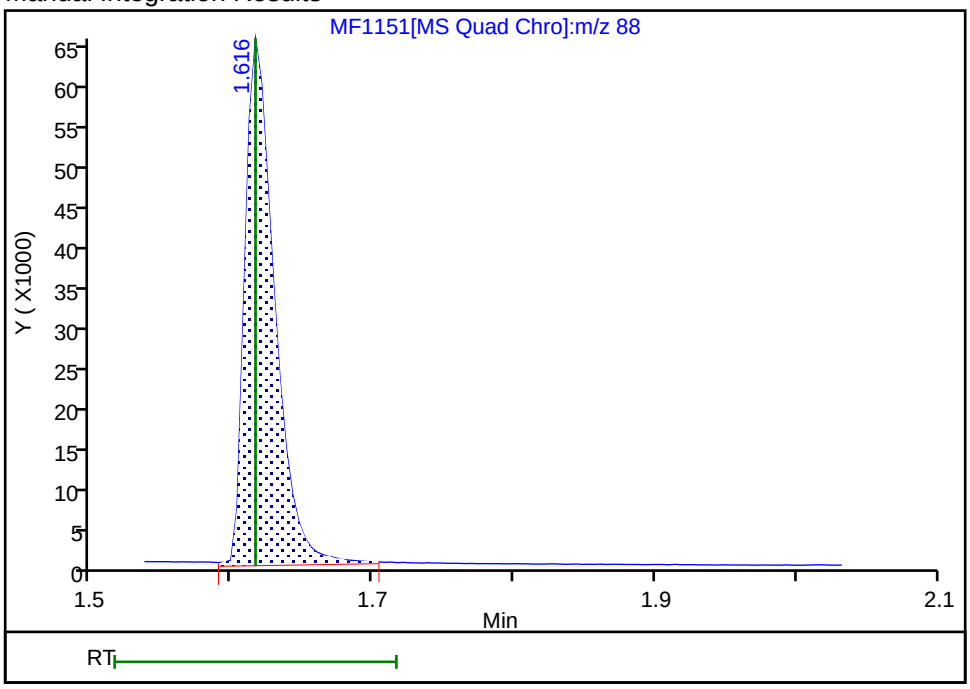
Processing Integration Results

RT: 1.62
Area: 102717
Amount: 0.536346
Amount Units: ug/ml



Manual Integration Results

RT: 1.62
Area: 95869
Amount: 0.500589
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 05:17:08 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

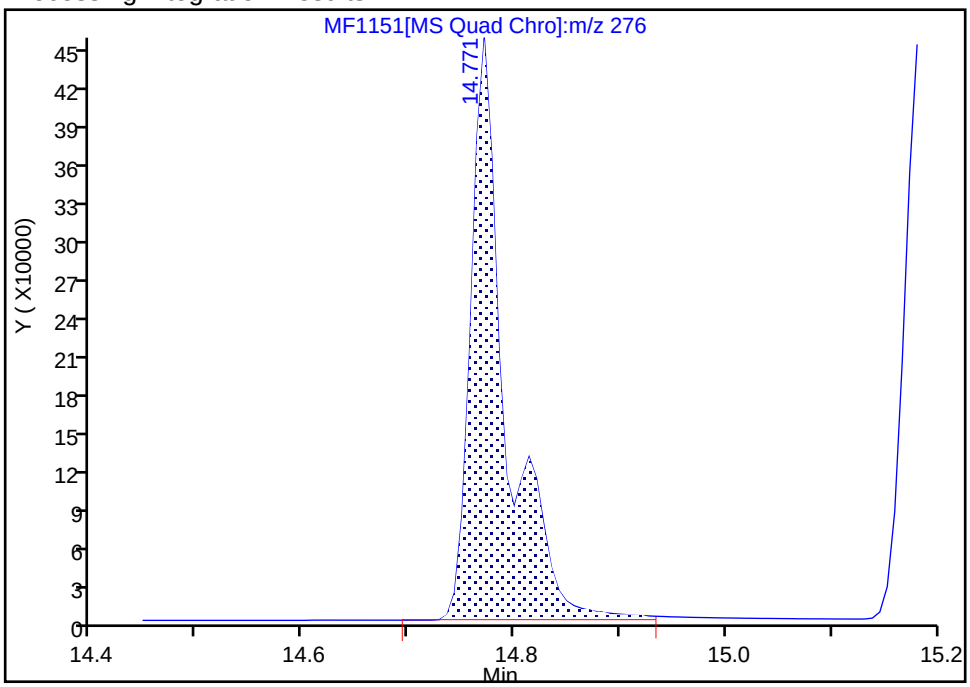
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1151.D				
Injection Date:	16-Jun-2023 04:50:25	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

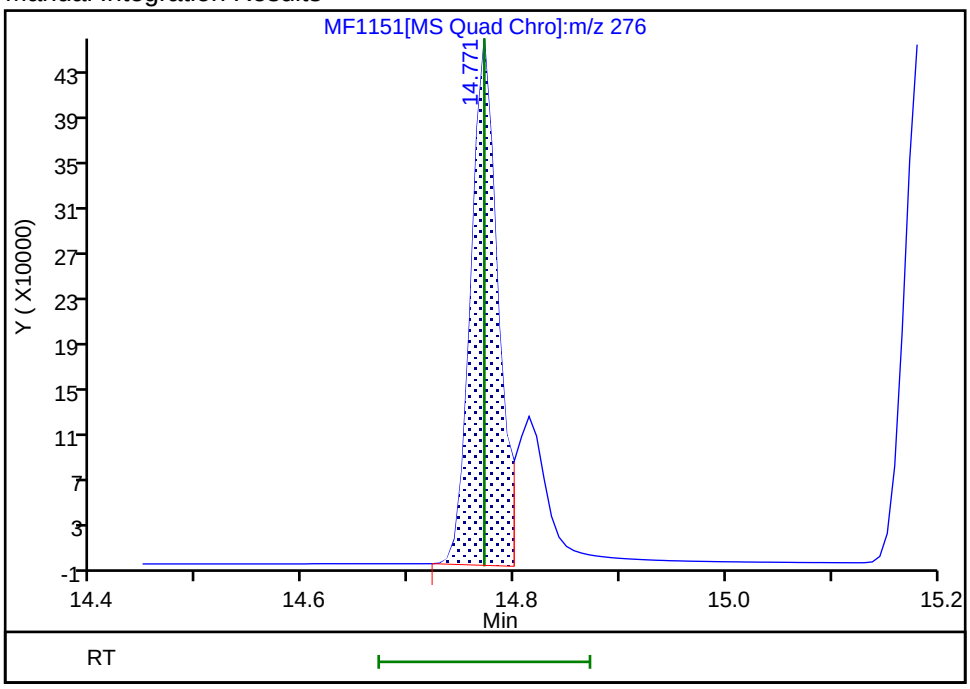
Processing Integration Results

RT: 14.77
Area: 1046833
Amount: 0.625113
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 790830
Amount: 0.472242
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 05:17:33 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: ICV 410-346701/9 Calibration Date: 02/22/2023 01:46

Instrument ID: HP23263 Calib Start Date: 02/21/2023 22:48

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/22/2023 01:02

Lab File ID: NB0458.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5546	0.6608		0.298	0.250	19.2	30.0
N-Nitrosodimethylamine	Ave	0.6364	1.047		0.411	0.250	64.4*	30.0
Bis(2-chloroethyl)ether	Ave	0.3682	0.4881		0.331	0.250	32.6*	30.0
Naphthalene	Lin2		1.102		0.294	0.250	17.7	30.0
2-Methylnaphthalene	Ave	0.6554	0.6787		0.259	0.250	3.6	30.0
1-Methylnaphthalene	Ave	0.5589	0.6017		0.269	0.250	7.7	30.0
Dimethyl phthalate	Ave	1.079	1.326		0.307	0.250	22.9	30.0
Acenaphthylene	Ave	1.877	2.068		0.275	0.250	10.2	30.0
Acenaphthene	Ave	1.109	1.244		0.280	0.250	12.1	30.0
Dibenzofuran	Ave	1.734	1.802		0.260	0.250	3.9	30.0
Diethyl phthalate	Ave	1.035	1.244		0.301	0.250	20.2	30.0
Fluorene	Ave	1.251	1.334		0.267	0.250	6.6	30.0
N-Nitrosodiphenylamine	Ave	0.4328	0.6339		0.311	0.213	46.5*	30.0
Hexachlorobenzene	Ave	0.2671	0.2821		0.264	0.250	5.6	30.0
Phenanthrene	Lin2		1.140		0.275	0.250	10.1	30.0
Anthracene	Ave	1.013	1.086		0.268	0.250	7.2	30.0
Di-n-butyl phthalate	Ave	0.9725	1.003		0.258	0.250	3.1	30.0
Fluoranthene	Ave	1.008	1.050		0.260	0.250	4.2	30.0
Pyrene	Ave	1.712	1.692		0.247	0.250	-1.2	30.0
Butyl benzyl phthalate	Ave	0.5246	0.4583		0.218	0.250	-12.6	30.0
Benzo[a]anthracene	Ave	1.268	1.249		0.246	0.250	-1.5	30.0
Chrysene	Ave	1.277	1.263		0.247	0.250	-1.1	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6446	0.5168		0.200	0.250	-19.8	30.0
Di-n-octyl phthalate	Ave	1.099	0.9122		0.208	0.250	-17.0	30.0
Benzo[b]fluoranthene	Ave	1.182	1.297		0.274	0.250	9.7	30.0
Benzo[k]fluoranthene	Ave	1.317	1.512		0.287	0.250	14.8	30.0
Benzo[a]pyrene	Ave	1.104	1.199		0.272	0.250	8.6	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.8370	0.8001		0.239	0.250	-4.4	30.0
Dibenz(a,h)anthracene	Ave	0.8911	0.9414		0.264	0.250	5.6	30.0
Benzo[g,h,i]perylene	Ave	1.072	1.071		0.250	0.250	-0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC

Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0458.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-Feb-2023 01:46:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0077517-009
Operator ID: kel10217 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:35:46 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: UJM0 Date: 22-Feb-2023 03:35:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.727	1.744	-0.017	89	32847	0.2500	0.2979	
2 N-Nitrosodimethylamine	74	2.038	2.082	-0.044	84	52024	0.2500	0.4111	
3 Bis(2-chloroethyl)ether	93	4.307	4.307	0.000	87	81968	0.2500	0.3314	
* 4 1,4-Dichlorobenzene-d4	152	4.569	4.569	0.000	100	49706	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.769	5.769	0.000	100	167942	0.2500	0.2500	
6 Naphthalene	128	5.781	5.781	0.000	100	185122	0.2500	0.2944	M
8 2-Methylnaphthalene	142	6.439	6.439	0.000	98	113982	0.2500	0.2589	
10 1-Methylnaphthalene	142	6.529	6.529	0.000	97	101053	0.2500	0.2692	
11 Dimethyl phthalate	163	7.170	7.170	0.000	100	98564	0.2500	0.3071	
12 Acenaphthylene	152	7.290	7.290	0.000	100	153671	0.2500	0.2754	
* 13 Acenaphthene-d10	164	7.431	7.431	0.000	99	74322	0.2500	0.2500	
14 Acenaphthene	154	7.461	7.461	0.000	92	92424	0.2500	0.2803	
15 Dibenzofuran	168	7.625	7.625	0.000	96	133901	0.2500	0.2598	M
16 Diethyl phthalate	149	7.841	7.841	0.000	100	92491	0.2500	0.3006	
17 Fluorene	166	7.949	7.949	0.000	99	99126	0.2500	0.2665	
18 N-Nitrosodiphenylamine	169	8.057	8.065	-0.008	97	63229	0.2125	0.3113	
19 Hexachlorobenzene	284	8.467	8.467	0.000	92	33107	0.2500	0.2641	
* 20 Phenanthrene-d10	188	8.837	8.837	0.000	100	117345	0.2500	0.2500	
21 Phenanthrene	178	8.860	8.860	0.000	100	133755	0.2500	0.2751	
22 Anthracene	178	8.907	8.907	0.000	100	127477	0.2500	0.2680	
23 Di-n-butyl phthalate	149	9.408	9.408	0.000	100	117675	0.2500	0.2578	
25 Fluoranthene	202	9.991	9.991	0.000	96	123239	0.2500	0.2605	
26 Pyrene	202	10.204	10.210	-0.006	100	122276	0.2500	0.2471	
27 Butyl benzyl phthalate	149	10.889	10.889	0.000	100	33128	0.2500	0.2184	
28 Benzo[a]anthracene	228	11.502	11.502	0.000	100	90292	0.2500	0.2463	
* 29 Chrysene-d12	240	11.518	11.518	0.000	87	72278	0.2500	0.2500	
30 Chrysene	228	11.548	11.548	0.000	100	91259	0.2500	0.2472	
31 Bis(2-ethylhexyl) phthalate	149	11.579	11.579	0.000	99	37351	0.2500	0.2004	
32 Di-n-octyl phthalate	149	12.461	12.469	-0.008	100	53156	0.2500	0.2076	
33 Benzo[b]fluoranthene	252	12.936	12.936	0.000	100	75581	0.2500	0.2742	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	12.975	12.975	0.000	100	88083	0.2500	0.2870	
37 Benzo[a]pyrene	252	13.404	13.404	0.000	100	69898	0.2500	0.2716	
* 38 Perylene-d12	264	13.489	13.489	0.000	98	58273	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	15.143	15.143	0.000	98	46625	0.2500	0.2390	
41 Dibenz(a,h)anthracene	278	15.199	15.206	-0.007	98	54858	0.2500	0.2641	
42 Benzo[g,h,i]perylene	276	15.609	15.616	-0.007	100	62383	0.2500	0.2495	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00037 Amount Added: 1.00 Units: mL

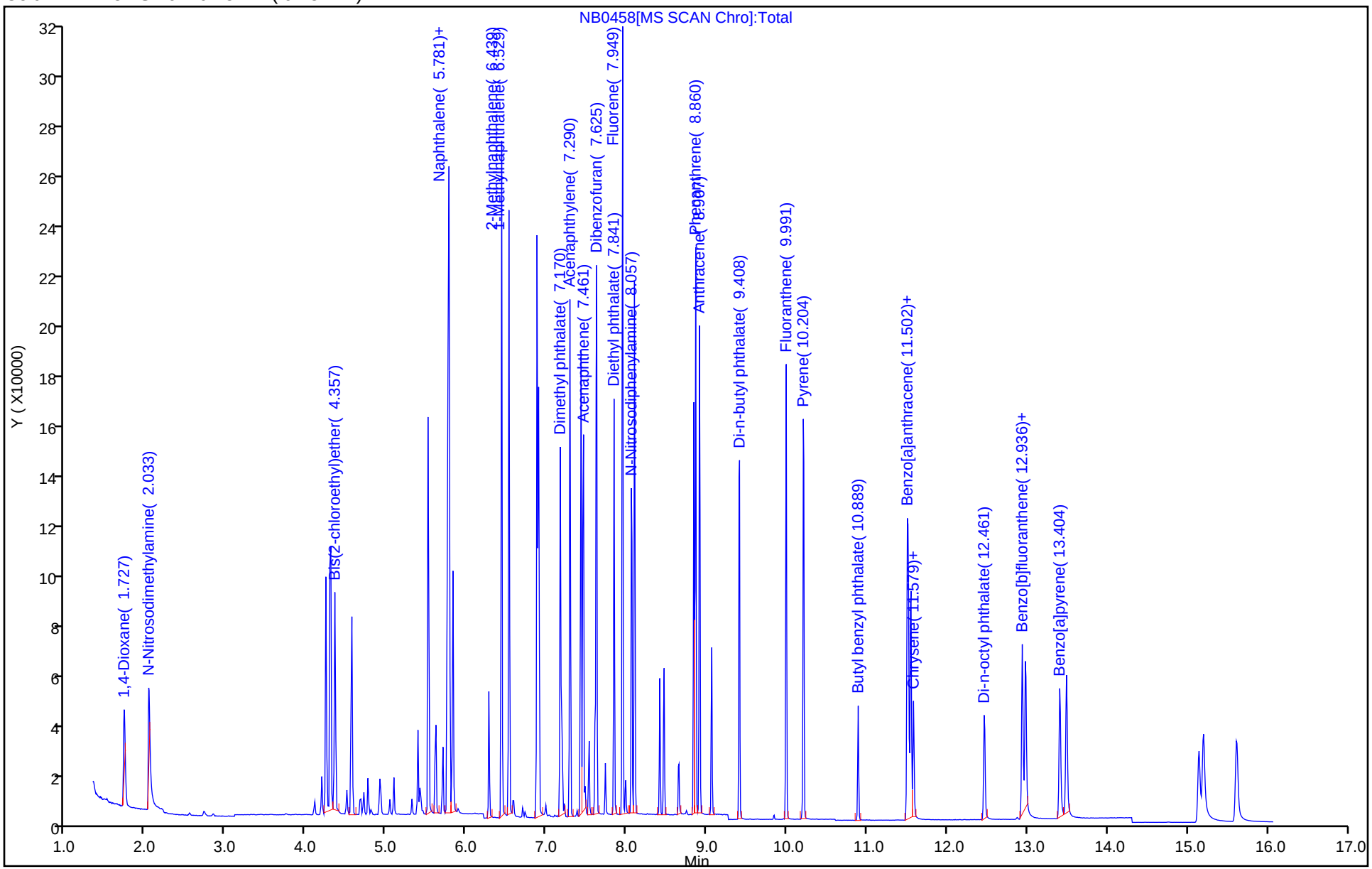
Report Date: 22-Feb-2023 03:35:48 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0458.D

Injection Date:	22-Feb-2023 01:46:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

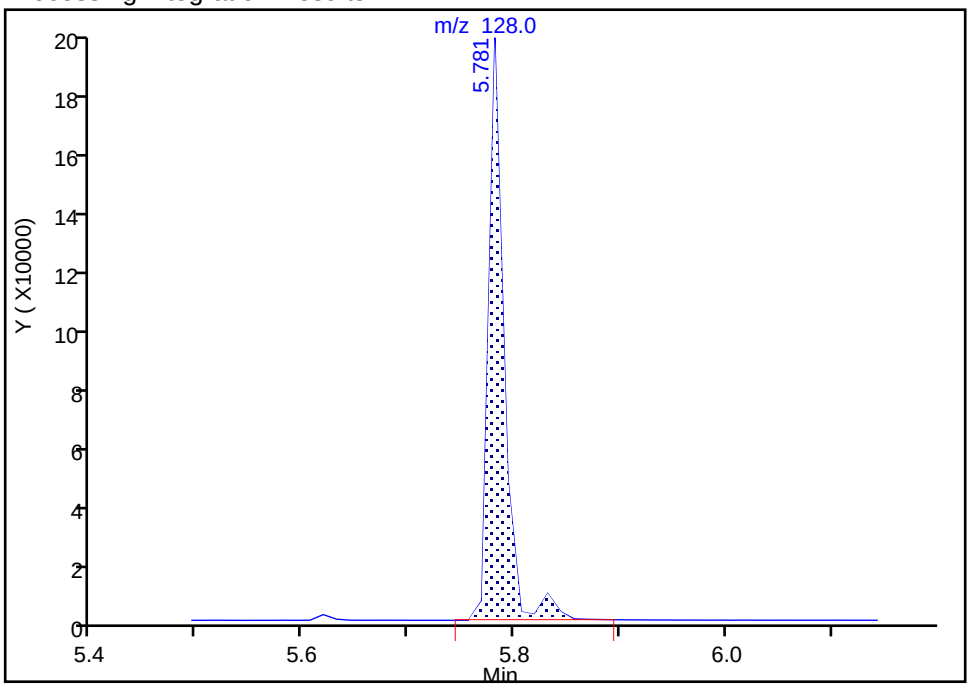
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0458.D				
Injection Date:	22-Feb-2023 01:46:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

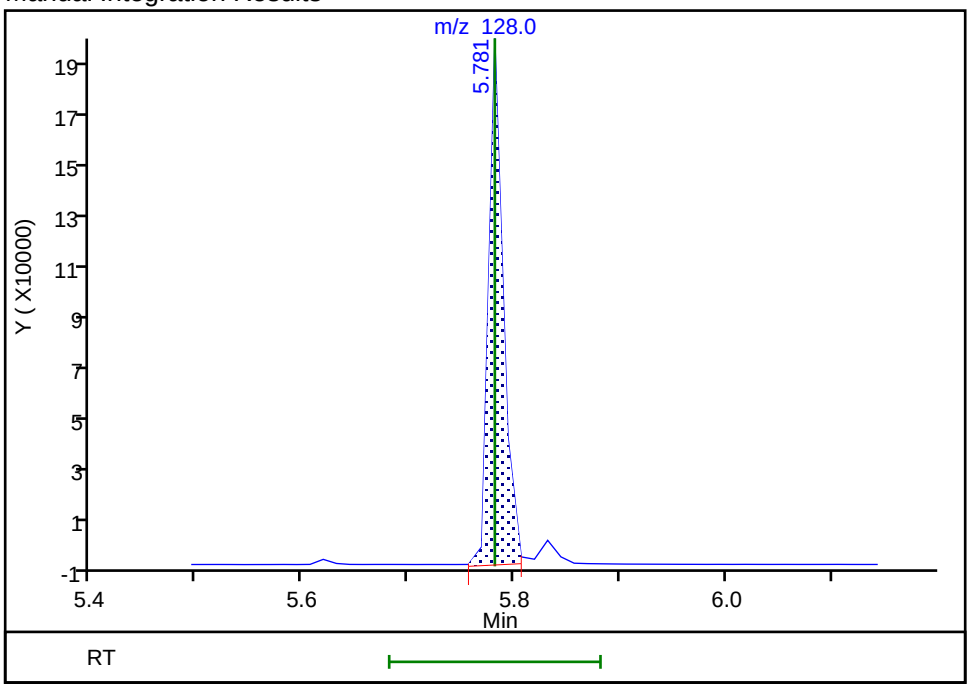
Processing Integration Results

RT: 5.78
Area: 196193
Amount: 0.312742
Amount Units: ug/ml



Manual Integration Results

RT: 5.78
Area: 185122
Amount: 0.294364
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:27:05
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

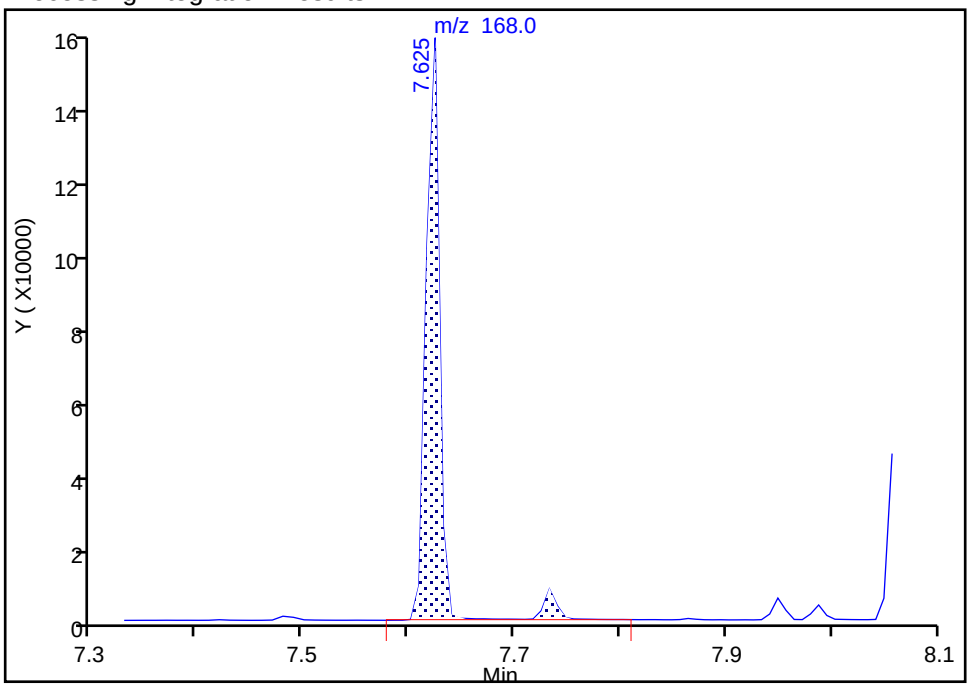
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0458.D				
Injection Date:	22-Feb-2023 01:46:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

15 Dibenzofuran, CAS: 132-64-9

Signal: 1

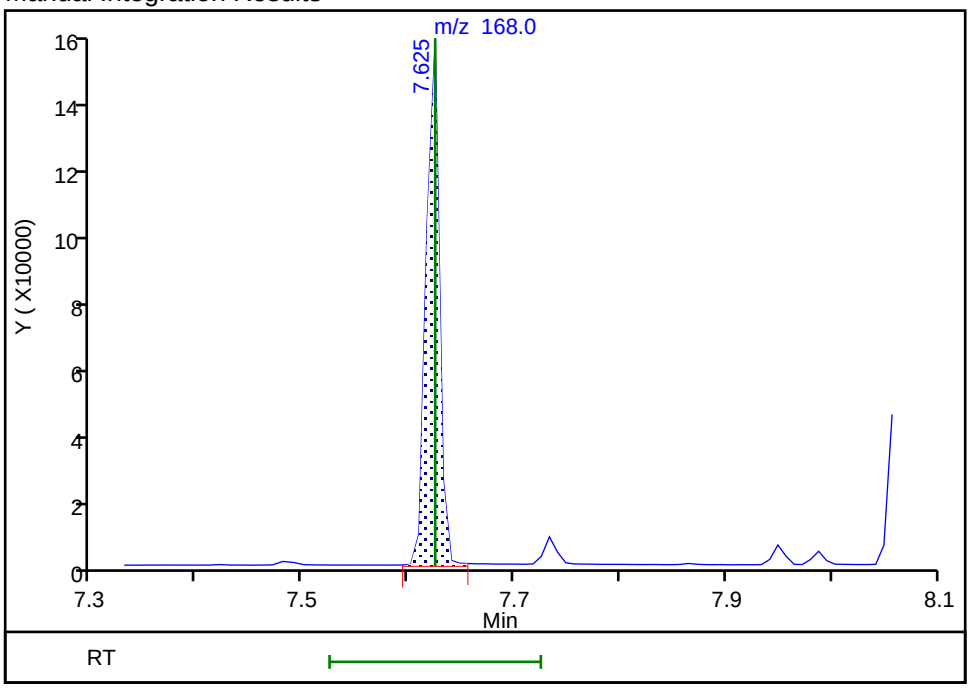
Processing Integration Results

RT: 7.62
Area: 141822
Amount: 0.275191
Amount Units: ug/ml



Manual Integration Results

RT: 7.62
Area: 133901
Amount: 0.259821
Amount Units: ug/ml



Reviewer: UJM0, 22-Feb-2023 03:27:16
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Lab Sample ID: CCVIS 410-388200/2 Calibration Date: 06/19/2023 12:18

Instrument ID: HP23263 Calib Start Date: 02/21/2023 22:48

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 02/22/2023 01:02

Lab File ID: NF1051.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5546	0.4485		0.809	1.00	-19.1	20.4
N-Nitrosodimethylamine	Ave	0.6364	0.5671		0.891	1.00	-10.9	20.4
Bis(2-chloroethyl)ether	Ave	0.3682	0.3331		0.905	1.00	-9.5	20.4
Naphthalene	Lin2		0.9246		1.02	1.00	1.8	20.4
Quinoline	Ave	0.5925	0.5877		0.992	1.00	-0.8	20.4
2-Methylnaphthalene	Ave	0.6554	0.5932		0.905	1.00	-9.5	20.4
1-Methylnaphthalene	Ave	0.5589	0.5254		0.940	1.00	-6.0	20.4
Dimethyl phthalate	Ave	1.079	1.088		5.04	5.00	0.8	20.4
Acenaphthylene	Ave	1.877	1.921		1.02	1.00	2.4	20.4
Acenaphthene	Ave	1.109	1.107		0.998	1.00	-0.2	20.4
Dibenzofuran	Ave	1.734	1.837		1.06	1.00	6.0	20.4
Diethyl phthalate	Ave	1.035	1.080		5.22	5.00	4.3	20.4
Fluorene	Ave	1.251	1.315		1.05	1.00	5.2	20.4
N-Nitrosodiphenylamine	Ave	0.4328	0.4109		0.949	1.00	-5.1	20.4
Hexachlorobenzene	Ave	0.2671	0.2932		1.10	1.00	9.8	20.4
Phenanthrene	Lin2		1.072		1.05	1.00	5.5	20.4
Anthracene	Ave	1.013	0.9709		0.958	1.00	-4.2	20.4
Di-n-butyl phthalate	Ave	0.9725	0.9027		4.64	5.00	-7.2	20.4
Fluoranthene	Ave	1.008	1.000		0.992	1.00	-0.8	20.4
Pyrene	Ave	1.712	1.658		0.969	1.00	-3.1	20.4
Butyl benzyl phthalate	Ave	0.5246	0.6078		5.79	5.00	15.9	20.4
Benzo[a]anthracene	Ave	1.268	1.371		1.08	1.00	8.1	20.4
Chrysene	Ave	1.277	1.375		1.08	1.00	7.6	20.4
Bis(2-ethylhexyl) phthalate	Ave	0.6446	0.7613		5.91	5.00	18.1	20.4
Di-n-octyl phthalate	Ave	1.099	1.177		5.36	5.00	7.2	20.4
Benzo[b]fluoranthene	Ave	1.182	1.223		1.03	1.00	3.5	20.4
Benzo[k]fluoranthene	Ave	1.317	1.229		0.933	1.00	-6.7	20.4
Benzo[e]pyrene	Ave	1.218	1.218		1.00	1.00	0.0	20.4
Benzo[a]pyrene	Ave	1.104	1.131		1.02	1.00	2.5	20.4
Perylene	Ave	1.156	1.166		1.01	1.00	0.8	20.4
Indeno[1,2,3-cd]pyrene	Ave	0.8370	1.052		1.26	1.00	25.8*	20.4
Dibenz(a,h)anthracene	Ave	0.8911	1.121		1.26	1.00	25.8*	20.4
Benzo[g,h,i]perylene	Ave	1.072	1.255		1.17	1.00	17.1	20.4
1-Methylnaphthalene-d10 (Surr)	Ave	0.4351	0.4332		0.996	1.00	-0.4	20.4
Fluoranthene-d10 (Surr)	Ave	0.8080	0.8712		1.08	1.00	7.8	20.4
Benzo(a)pyrene-d12 (Surr)	Ave	0.8387	0.8767		1.05	1.00	4.5	20.4

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1051.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 19-Jun-2023 12:18:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0086950-002
Operator ID: kel10217 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Jun-2023 04:52:26 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1674

First Level Reviewer: UJM0 Date: 20-Jun-2023 04:52:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.670	1.670	0.000	100	53517	1.00	0.8087	
2 N-Nitrosodimethylamine	74	1.990	1.990	0.000	93	67671	1.00	0.8911	
3 Bis(2-chloroethyl)ether	93	4.282	4.282	0.000	89	140216	1.00	0.9048	
* 4 1,4-Dichlorobenzene-d4	152	4.544	4.544	0.000	98	29831	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.744	5.744	0.000	100	105226	0.2500	0.2500	
6 Naphthalene	128	5.769	5.769	0.000	99	389160	1.00	1.02	
7 Quinoline	129	6.081	6.081	0.000	95	247351	1.00	0.99	
8 2-Methylnaphthalene	142	6.417	6.417	0.000	97	249679	1.00	0.9051	
$ 9 1-Methylnaphthalene-d10	152	6.477	6.477	0.000	100	182352	1.00	1.00	
10 1-Methylnaphthalene	142	6.517	6.517	0.000	97	221152	1.00	0.9401	
11 Dimethyl phthalate	163	7.158	7.158	0.000	99	932918	5.00	5.04	
12 Acenaphthylene	152	7.278	7.278	0.000	97	329564	1.00	1.02	
* 13 Acenaphthene-d10	164	7.408	7.408	0.000	91	42881	0.2500	0.2500	
14 Acenaphthene	154	7.438	7.438	0.000	95	189894	1.00	1.00	
15 Dibenzofuran	168	7.602	7.602	0.000	100	315168	1.00	1.06	
16 Diethyl phthalate	149	7.825	7.825	0.000	99	926008	5.00	5.22	
17 Fluorene	166	7.926	7.926	0.000	98	225621	1.00	1.05	
18 N-Nitrosodiphenylamine	169	8.049	8.049	0.000	95	121599	1.00	0.9493	
19 Hexachlorobenzene	284	8.443	8.443	0.000	94	86769	1.00	1.10	
* 20 Phenanthrene-d10	188	8.822	8.822	0.000	99	73991	0.2500	0.2500	
21 Phenanthrene	178	8.837	8.837	0.000	100	317367	1.00	1.05	
22 Anthracene	178	8.891	8.891	0.000	100	287366	1.00	0.9581	
23 Di-n-butyl phthalate	149	9.384	9.384	0.000	100	1335869	5.00	4.64	
$ 24 Fluoranthene-d10 (Surr)	212	9.948	9.948	0.000	98	257847	1.00	1.08	
25 Fluoranthene	202	9.967	9.967	0.000	98	296023	1.00	0.99	
26 Pyrene	202	10.180	10.180	0.000	97	320103	1.00	0.9689	
27 Butyl benzyl phthalate	149	10.844	10.844	0.000	100	586551	5.00	5.79	
28 Benzo[a]anthracene	228	11.450	11.450	0.000	99	264564	1.00	1.08	
* 29 Chrysene-d12	240	11.458	11.458	0.000	45	48253	0.2500	0.2500	
30 Chrysene	228	11.488	11.488	0.000	100	265327	1.00	1.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	11.519	11.519	0.000	100	734739	5.00	5.91	
32 Di-n-octyl phthalate	149	12.378	12.378	0.000	100	1294654	5.00	5.36	
33 Benzo[b]fluoranthene	252	12.853	12.853	0.000	100	269100	1.00	1.03	
34 Benzo[k]fluoranthene	252	12.892	12.892	0.000	100	270324	1.00	0.9332	
35 Benzo[e]pyrene	252	13.245	13.245	0.000	100	268012	1.00	1.00	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.283	13.283	0.000	97	192834	1.00	1.05	
37 Benzo[a]pyrene	252	13.314	13.314	0.000	100	248862	1.00	1.02	
* 38 Perylene-d12	264	13.398	13.398	0.000	97	54989	0.2500	0.2500	M
39 Perylene	252	13.436	13.436	0.000	100	256419	1.00	1.01	
40 Indeno[1,2,3-cd]pyrene	276	14.995	14.995	0.000	97	231497	1.00	1.26	
41 Dibenz(a,h)anthracene	278	15.045	15.045	0.000	97	246550	1.00	1.26	
42 Benzo[g,h,i]perylene	276	15.447	15.447	0.000	98	276151	1.00	1.17	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00021 Amount Added: 1.00 Units: mL

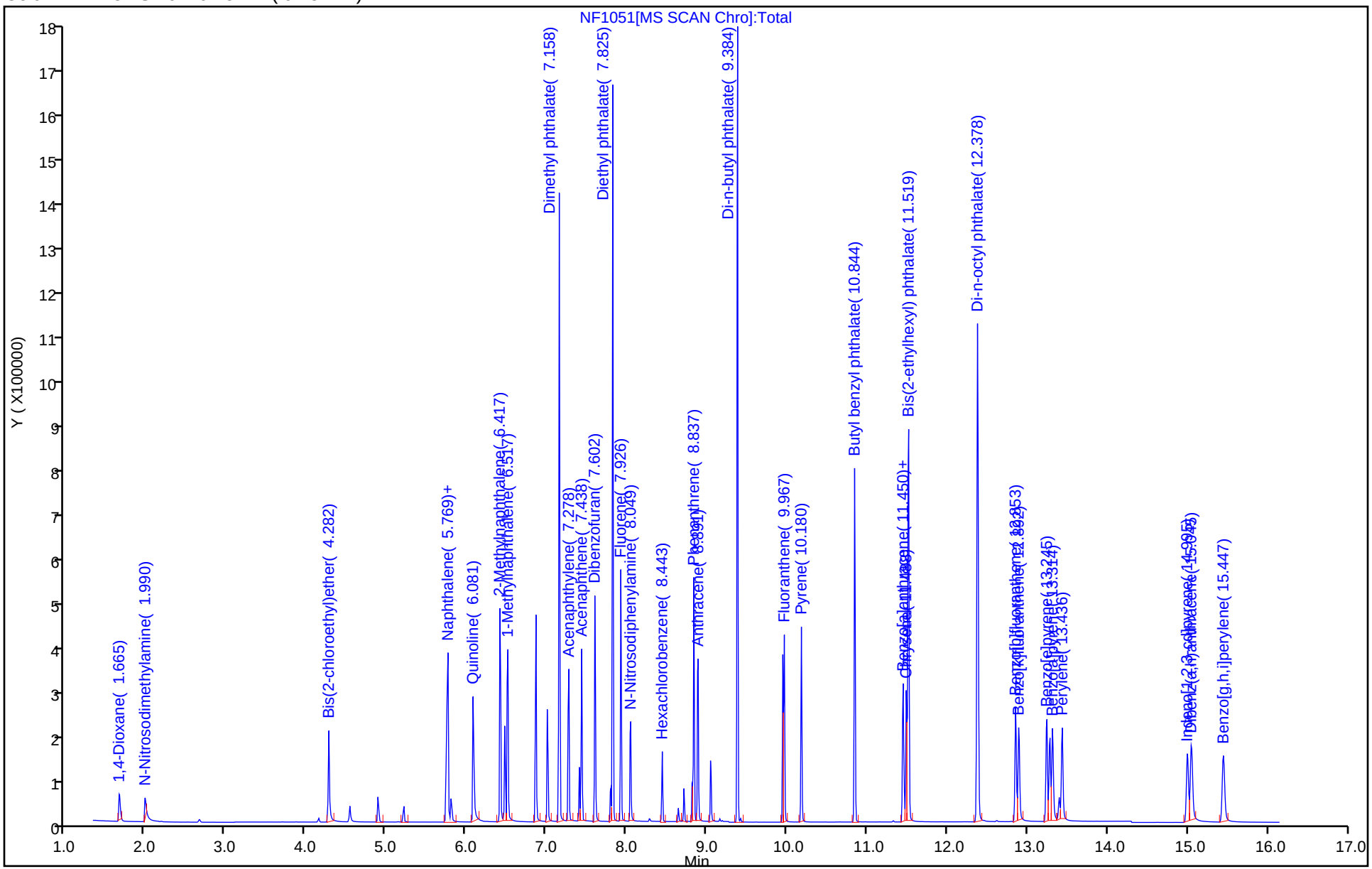
Report Date: 20-Jun-2023 04:52:27 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1051.D

Injection Date:	19-Jun-2023 12:18:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

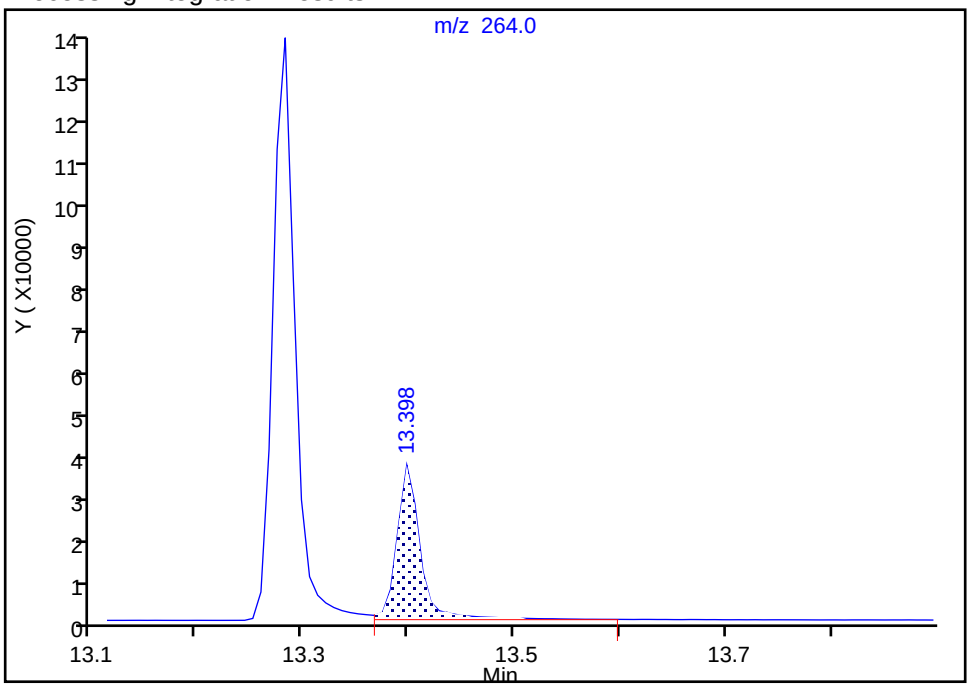
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1051.D				
Injection Date:	19-Jun-2023 12:18:30	Instrument ID:	HP23263		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

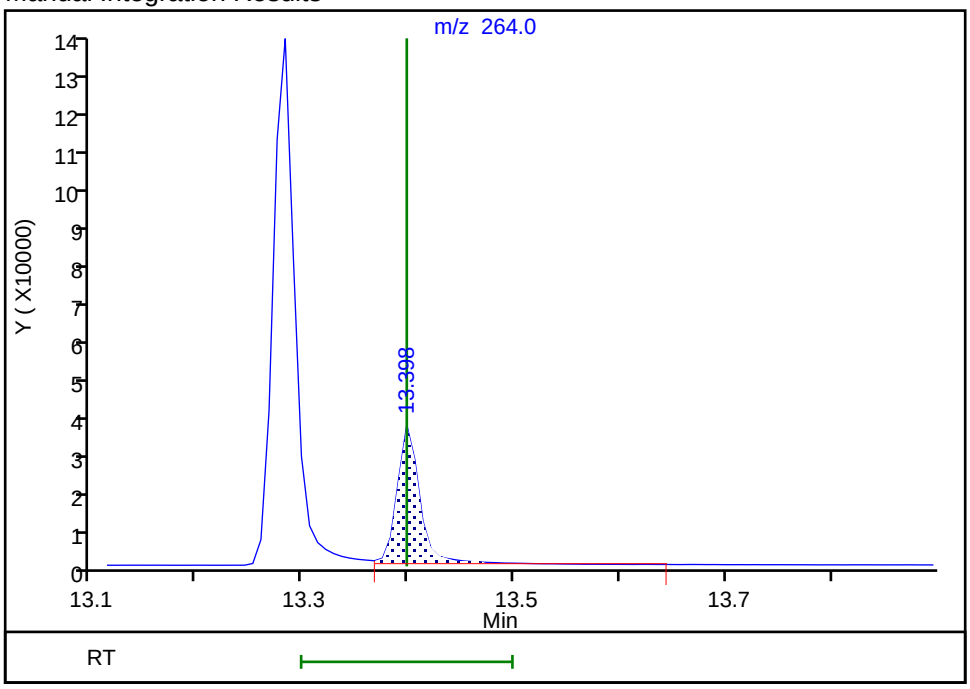
Processing Integration Results

RT: 13.40
Area: 54254
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 13.40
Area: 54989
Amount: 0.250000
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:39:42 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 25-Apr-2023 05:46:32 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0082279-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 25-Apr-2023 10:42:22 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1646

First Level Reviewer: UJM0 Date: 25-Apr-2023 10:42:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.980	4.980	0.000	0	1217241	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.210	6.210	0.000	0	4119010	NR	NR	
47 4,4'-DDE	246	6.364	6.364	0.000	0	3408		NR	
48 4,4'-DDD	235	6.650	6.650	0.000	0	20662		NR	
49 4,4'-DDT	235	6.902	6.902	0.000	0	2132166	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

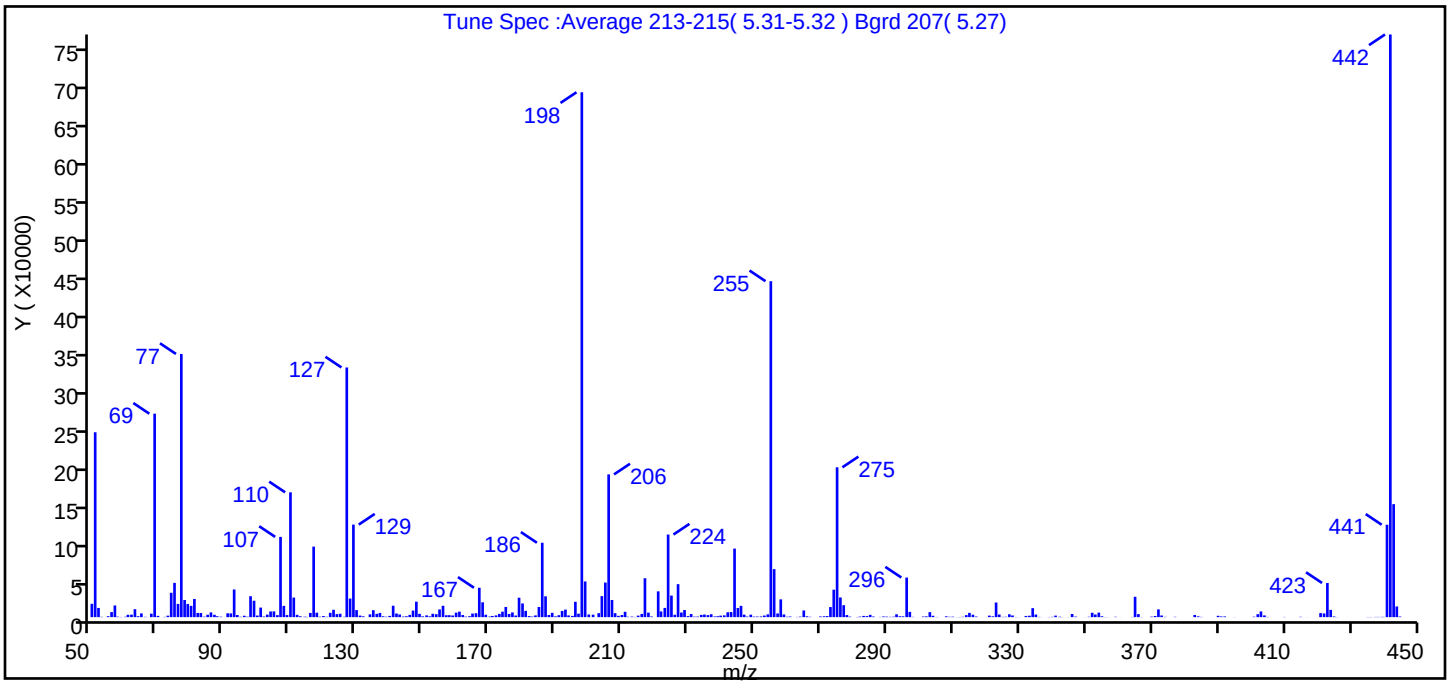
MSS_RVDFTPP_00013 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D
Injection Date: 25-Apr-2023 05:46:32 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (90.1)
51	10-80% of the base peak	35.2
68	<2% of mass 69	0.7 (1.7)
69	Present	38.8
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	47.6
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.8
275	10-60% of the base peak	28.6
365	>1% of mass 198	3.9
441	present but <24% of mass 442	17.6 (15.9)
442	base peak, or >50% of 198	111.0
443	15-24% of mass 442	21.5 (19.4)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 25-Apr-2023 05:46:32
Spectrum: Tune Spec :Average 213-215(5.31-5.32) Bgrd 207(5.27)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 335

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	17504	136.00	4312	222.00	7492	313.00	451
51.00	242624	137.00	5535	223.00	12131	314.00	2649
52.00	12071	138.00	1093	224.00	108416	315.00	5603
53.00	409	139.00	533	225.00	28312	316.00	3233
55.00	1238	140.00	1627	226.00	3122	317.00	767
56.00	6633	141.00	14955	227.00	43288	320.00	78
57.00	15313	142.00	4780	228.00	6052	321.00	2015
58.00	619	143.00	3529	229.00	9354	322.00	1058
59.00	249	144.00	785	230.00	1345	323.00	19200
60.00	515	145.00	1145	231.00	4080	324.00	3443
61.00	3106	146.00	2957	232.00	627	325.00	363
62.00	3296	147.00	8595	233.00	754	326.00	468
63.00	10459	148.00	20312	234.00	2945	327.00	3760
64.00	1223	149.00	4354	235.00	3390	328.00	2161
65.00	4917	150.00	1024	236.00	2654	329.00	215
66.00	406	151.00	2302	237.00	3810	330.00	82
67.00	75	152.00	1055	238.00	858	332.00	1599
68.00	4554	153.00	4410	239.00	1183	333.00	1866
69.00	267008	154.00	3885	240.00	1989	334.00	11798
70.00	1676	155.00	10125	241.00	2373	335.00	3416
72.00	328	156.00	14908	242.00	6359	336.00	335
73.00	1934	157.00	2515	243.00	6664	337.00	58
74.00	31976	158.00	2567	244.00	89952	339.00	242
75.00	44960	159.00	2170	245.00	12038	340.00	405
76.00	17344	160.00	5931	246.00	14812	341.00	2022
77.00	345408	161.00	7226	247.00	3266	342.00	548
78.00	22520	162.00	2769	248.00	758	343.00	172
79.00	17312	163.00	676	249.00	3237	345.00	87
80.00	14818	164.00	1259	250.00	674	346.00	4152
81.00	23896	165.00	4716	251.00	763	347.00	715
82.00	5536	166.00	5120	252.00	909	350.00	55
83.00	5360	167.00	38560	253.00	2114	351.00	484
84.00	599	168.00	19472	254.00	3645	352.00	5738

Report Date: 25-Apr-2023 10:42:23 Chrom Revision: 2.3 20-Apr-2023 08:27:48
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 25-Apr-2023 05:46:32
Spectrum: Tune Spec :Average 213-215(5.31-5.32) Bgrd 207(5.27)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 335

m/z	Y	m/z	Y	m/z	Y	m/z	Y
85.00	3161	169.00	3165	255.00	440896	353.00	3465
86.00	6234	170.00	769	256.00	63016	354.00	5945
87.00	3083	171.00	1559	257.00	4825	355.00	1143
88.00	1173	172.00	2283	258.00	23336	356.00	208
89.00	587	173.00	4239	259.00	3522	357.00	111
90.00	53	174.00	7174	260.00	558	359.00	468
91.00	5022	175.00	13328	261.00	779	360.00	58
92.00	4906	176.00	4179	263.00	282	364.00	230
93.00	36296	177.00	6181	264.00	641	365.00	26720
94.00	2831	178.00	2107	265.00	8781	366.00	3970
95.00	473	179.00	25496	266.00	1092	367.00	216
96.00	1831	180.00	17992	267.00	438	370.00	660
97.00	590	181.00	8240	269.00	61	371.00	1517
98.00	27472	182.00	1407	270.00	901	372.00	10177
99.00	21552	183.00	739	271.00	1086	373.00	2185
100.00	2144	184.00	2264	272.00	1400	374.00	383
101.00	12527	185.00	13366	273.00	13233	377.00	427
102.00	840	186.00	97648	274.00	36016	383.00	2869
103.00	3298	187.00	27328	275.00	196672	384.00	1045
104.00	7483	188.00	2780	276.00	25840	385.00	333
105.00	7596	189.00	5657	277.00	15703	390.00	1761
106.00	2640	190.00	1029	278.00	2725	391.00	918
107.00	105304	191.00	2527	279.00	693	392.00	949
108.00	14788	192.00	8149	281.00	185	395.00	133
109.00	2728	193.00	9915	282.00	710	401.00	572
110.00	163840	194.00	2274	283.00	1640	402.00	3890
111.00	25688	195.00	1633	284.00	1372	403.00	7467
112.00	3041	196.00	20152	285.00	3039	404.00	2272
113.00	1181	197.00	4512	286.00	784	405.00	311
114.00	514	198.00	688832	288.00	280	410.00	270
115.00	393	199.00	46848	289.00	862	415.00	435
116.00	5499	200.00	3498	290.00	680	416.00	54
117.00	92568	201.00	3245	291.00	406	417.00	66
118.00	5855	203.00	5218	292.00	586	421.00	5299

Report Date: 25-Apr-2023 10:42:23 Chrom Revision: 2.3 20-Apr-2023 08:27:48
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 25-Apr-2023 05:46:32
Spectrum: Tune Spec :Average 213-215(5.31-5.32) Bgrd 207(5.27)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 335

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	565	204.00	27584	293.00	3755	422.00	4872
120.00	1440	205.00	45384	294.00	1172	423.00	44840
121.00	496	206.00	187328	295.00	1034	424.00	9539
122.00	5692	207.00	22528	296.00	51976	425.00	902
123.00	9663	208.00	5225	297.00	6929	426.00	176
124.00	3985	209.00	1752	298.00	371	435.00	226
125.00	4418	210.00	2770	299.00	53	436.00	222
126.00	467	211.00	7038	301.00	772	437.00	277
127.00	327680	212.00	541	302.00	1041	438.00	328
128.00	24416	213.00	706	303.00	6597	439.00	297
129.00	121464	214.00	258	304.00	1806	440.00	349
130.00	9266	215.00	1991	305.00	264	441.00	121264
131.00	2053	216.00	4244	308.00	1076	442.00	764672
132.00	1097	217.00	51056	309.00	456	443.00	148288
133.00	24	218.00	5903	310.00	616	444.00	14004
134.00	3650	219.00	827	311.00	86	445.00	813
135.00	9136	221.00	33864	312.00	227		

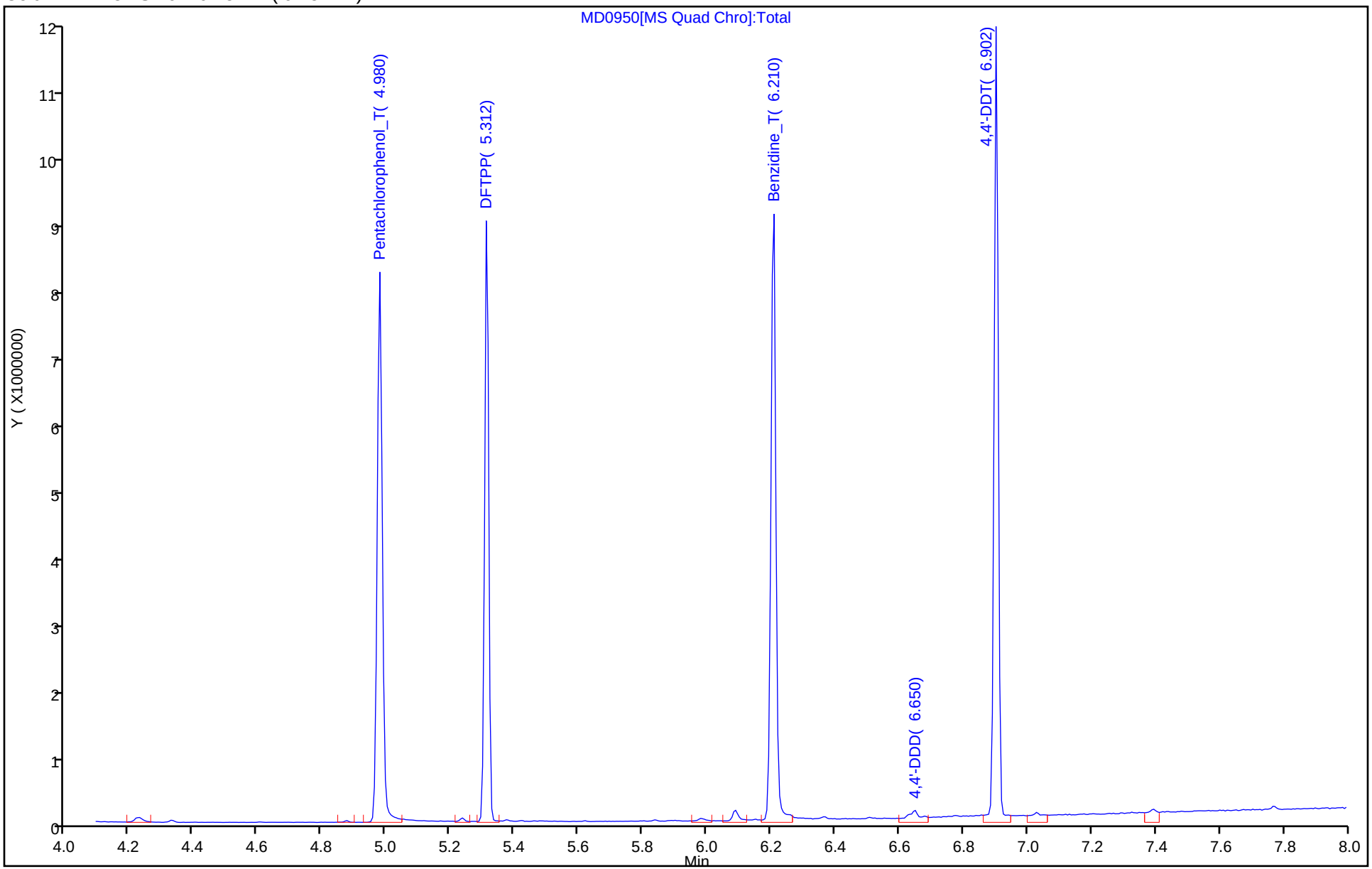
Report Date: 25-Apr-2023 10:42:23 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D

Injection Date:	25-Apr-2023 05:46:32	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D
Injection Date: 25-Apr-2023 05:46:32 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

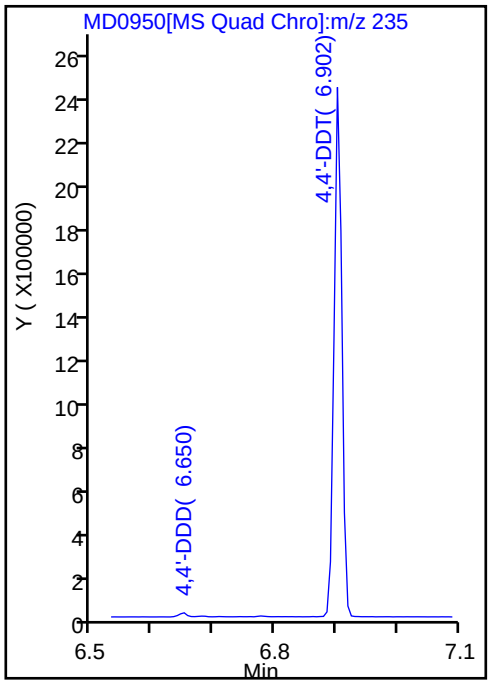
49 4,4'-DDT, Detector: MS Quad

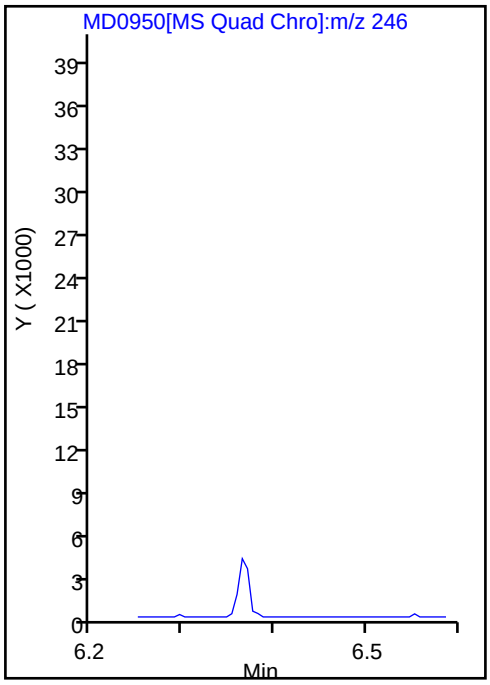
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2132166
47 4,4'-DDE, Area = 3408
48 4,4'-DDD, Area = 20662

%Breakdown: 1.12%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

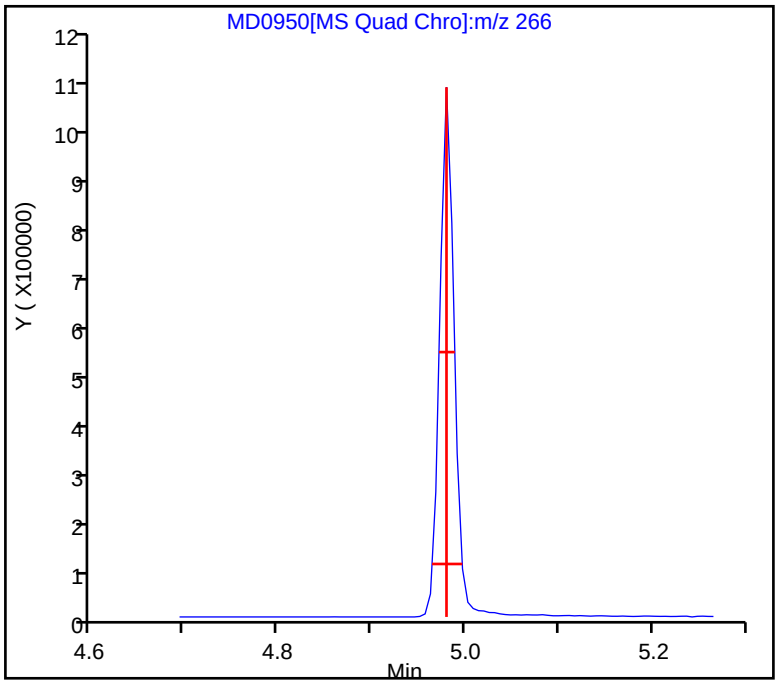
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D
Injection Date: 25-Apr-2023 05:46:32 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.13, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

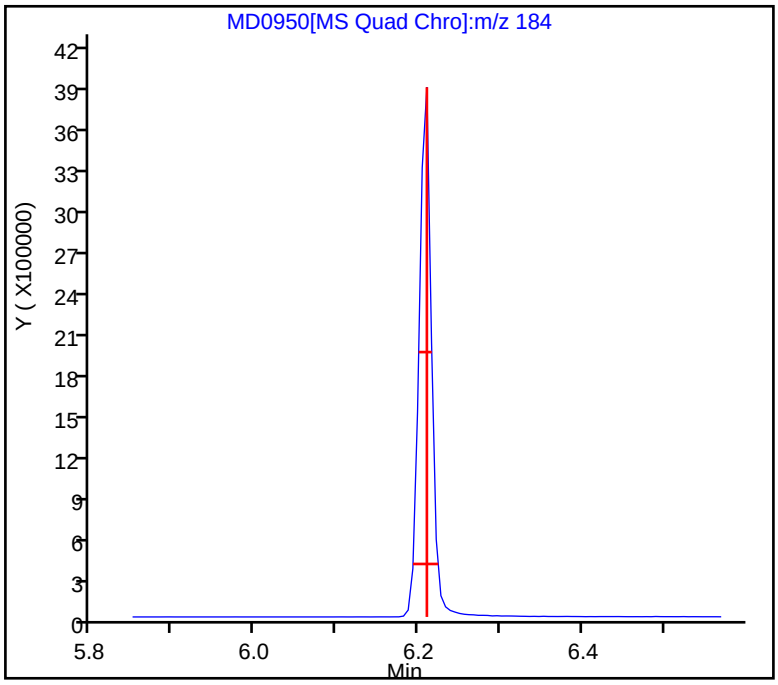
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0950.D
Injection Date: 25-Apr-2023 05:46:32 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.82, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D
Lims ID: DFTPP DL
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Apr-2023 03:16:36 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0082514-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 27-Apr-2023 04:59:32 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: UJM0 Date: 27-Apr-2023 04:59:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.980	4.980	0.000	0	1235385	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.210	6.210	0.000	0	3692445	NR	NR	
48 4,4'-DDD	235	6.651	6.651	0.000	0	66104		NR	
49 4,4'-DDT	235	6.908	6.908	0.000	0	2006360	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

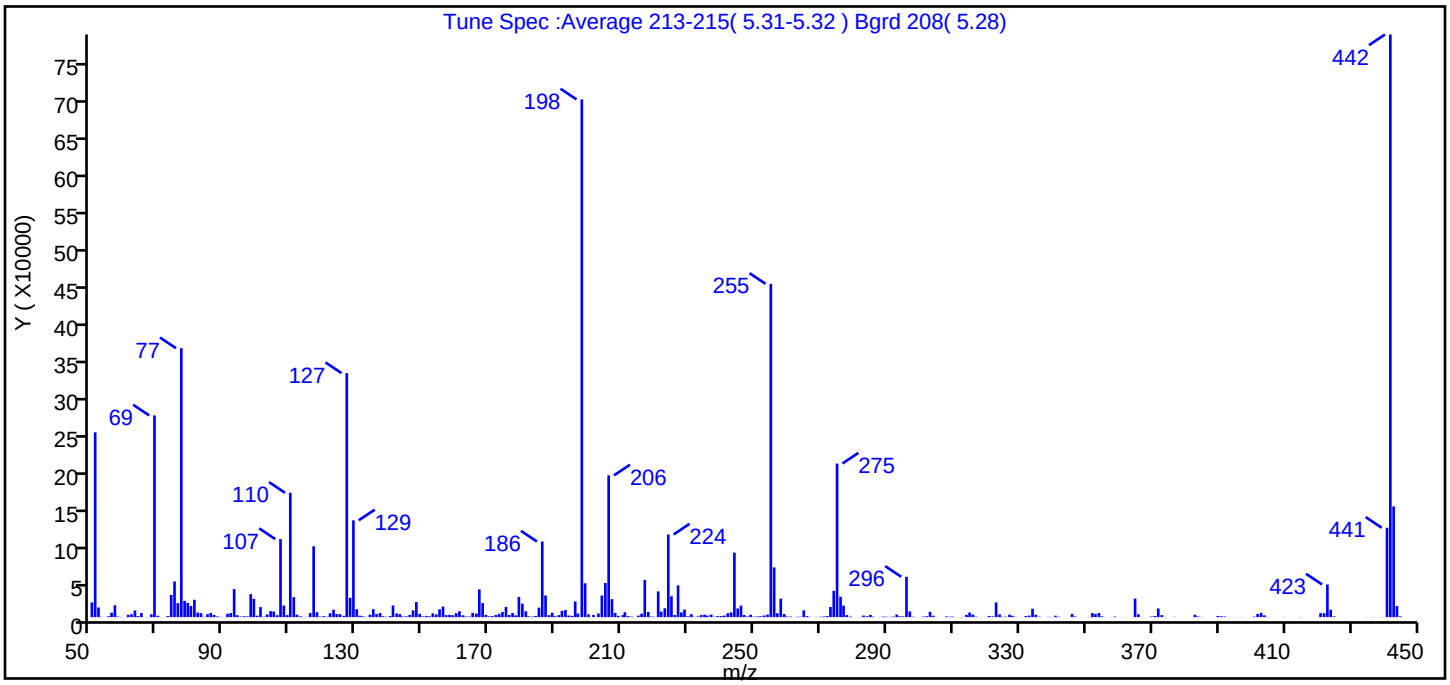
MSS_RVDFTPP_00013 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D
Injection Date: 27-Apr-2023 03:16:36 Instrument ID: HP21585
Lims ID: DFTPP DL
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (88.9)
51	10-80% of the base peak	35.7
68	<2% of mass 69	0.5 (1.4)
69	Present	39.0
70	<2% of mass 69	0.3 (0.7)
127	10-80% of the base peak	47.1
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.5
275	10-60% of the base peak	29.7
365	>1% of mass 198	3.6
441	present but <24% of mass 442	17.3 (15.3)
442	base peak, or >50% of 198	112.5
443	15-24% of mass 442	21.4 (19.0)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 27-Apr-2023 03:16:36
Spectrum: Tune Spec :Average 213-215(5.31-5.32) Bgrd 208(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	19856	137.00	5477	224.00	111528	315.00	6133
51.00	249216	138.00	1153	225.00	28128	316.00	3542
52.00	13091	139.00	544	226.00	2979	317.00	628
53.00	471	140.00	1515	227.00	42784	318.00	132
55.00	1225	141.00	15745	228.00	6396	319.00	76
56.00	6005	142.00	4901	229.00	10207	320.00	280
57.00	16042	143.00	4045	230.00	1210	321.00	1716
58.00	703	144.00	977	231.00	3948	322.00	1010
59.00	329	145.00	1071	232.00	422	323.00	19888
60.00	99	146.00	2912	233.00	956	324.00	3733
61.00	3145	147.00	9153	234.00	2847	325.00	425
62.00	4004	148.00	20400	235.00	3408	326.00	619
63.00	8997	149.00	4413	236.00	2207	327.00	3378
64.00	1453	150.00	890	237.00	3434	328.00	1820
65.00	5468	151.00	1678	238.00	571	329.00	426
66.00	128	152.00	1256	239.00	1383	330.00	98
67.00	246	153.00	5131	240.00	1602	332.00	1489
68.00	3752	154.00	3687	241.00	2145	333.00	2105
69.00	272064	155.00	10554	242.00	5218	334.00	11323
70.00	1918	156.00	14323	243.00	6367	335.00	3315
71.00	174	157.00	2632	244.00	87032	336.00	615
72.00	63	158.00	3026	245.00	11729	339.00	376
73.00	1461	159.00	2654	246.00	15566	340.00	332
74.00	29992	160.00	5329	247.00	2945	341.00	1938
75.00	48192	161.00	7911	248.00	933	342.00	536
76.00	18880	162.00	2456	249.00	3314	346.00	4385
77.00	362688	163.00	914	250.00	678	347.00	749
78.00	21928	164.00	773	251.00	979	350.00	56
79.00	19256	165.00	5746	252.00	1185	351.00	330
80.00	15109	166.00	4798	253.00	2225	352.00	5462
81.00	23480	167.00	37480	254.00	3454	353.00	4250
82.00	6155	168.00	18928	255.00	449536	354.00	5509
83.00	5382	169.00	3130	256.00	67104	355.00	1121

Report Date: 27-Apr-2023 04:59:32 Chrom Revision: 2.3 20-Apr-2023 08:27:48
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 27-Apr-2023 03:16:36
Spectrum: Tune Spec :Average 213-215(5.31-5.32) Bgrd 208(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	464	170.00	1035	257.00	5280	356.00	214
85.00	3991	171.00	1467	258.00	24944	358.00	210
86.00	5664	172.00	2952	259.00	4212	359.00	786
87.00	3092	173.00	4508	260.00	759	361.00	228
88.00	981	174.00	6915	261.00	743	363.00	85
89.00	401	175.00	13791	262.00	159	364.00	79
90.00	69	176.00	2952	263.00	446	365.00	25096
91.00	4519	177.00	5552	264.00	542	366.00	3986
92.00	5452	178.00	2392	265.00	9152	367.00	200
93.00	37848	179.00	27192	266.00	1434	369.00	57
94.00	2581	180.00	18280	267.00	324	370.00	830
95.00	793	181.00	7928	269.00	304	371.00	1553
96.00	1219	182.00	1104	270.00	537	372.00	11626
97.00	945	183.00	794	271.00	964	373.00	2762
98.00	30960	184.00	1721	272.00	1585	374.00	192
99.00	24672	185.00	12843	273.00	13667	377.00	346
100.00	1972	186.00	102000	274.00	35512	383.00	3280
101.00	13507	187.00	29248	275.00	207168	384.00	959
102.00	665	188.00	2662	276.00	27472	385.00	279
103.00	3679	189.00	5972	277.00	15561	390.00	1625
104.00	8102	190.00	1242	278.00	2730	391.00	1171
105.00	7601	191.00	2741	279.00	830	392.00	803
106.00	2603	192.00	8543	280.00	210	393.00	141
107.00	105320	193.00	9534	282.00	322	395.00	131
108.00	15615	194.00	2162	283.00	2157	397.00	148
109.00	2793	195.00	1671	284.00	1205	400.00	68
110.00	167744	196.00	21208	285.00	3198	401.00	754
111.00	26928	197.00	4738	286.00	634	402.00	4313
112.00	3309	198.00	698240	288.00	263	403.00	5937
113.00	1146	199.00	45632	289.00	758	404.00	2523
114.00	317	200.00	3809	290.00	583	405.00	362
115.00	349	201.00	2961	291.00	330	406.00	72
116.00	5500	203.00	4980	292.00	755	410.00	239
117.00	95600	204.00	29136	293.00	3503	415.00	266

Report Date: 27-Apr-2023 04:59:32 Chrom Revision: 2.3 20-Apr-2023 08:27:48
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 27-Apr-2023 03:16:36
Spectrum: Tune Spec :Average 213-215(5.31-5.32) Bgrd 208(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 344

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	6591	205.00	46104	294.00	1166	420.00	73
119.00	754	206.00	191232	295.00	954	421.00	5445
120.00	1293	207.00	24248	296.00	54440	422.00	5354
121.00	603	208.00	5741	297.00	7702	423.00	44080
122.00	5162	209.00	1807	298.00	589	424.00	10023
123.00	9954	210.00	2824	299.00	171	425.00	1056
124.00	4174	211.00	6584	301.00	766	426.00	65
125.00	3959	212.00	1479	302.00	1223	434.00	60
126.00	1813	213.00	770	303.00	7223	435.00	160
127.00	329152	214.00	64	304.00	1926	437.00	149
128.00	26088	215.00	2083	305.00	299	437.00	157
129.00	130568	216.00	4734	307.00	52	438.00	82
130.00	10681	217.00	50328	308.00	1059	439.00	198
131.00	1974	218.00	7004	309.00	591	440.00	108
132.00	1155	219.00	723	310.00	727	441.00	120568
133.00	337	220.00	459	311.00	178	442.00	785792
134.00	3344	221.00	34768	312.00	210	443.00	149312
135.00	10720	222.00	7587	313.00	315	444.00	15165
136.00	4178	223.00	11946	314.00	3080	445.00	1043

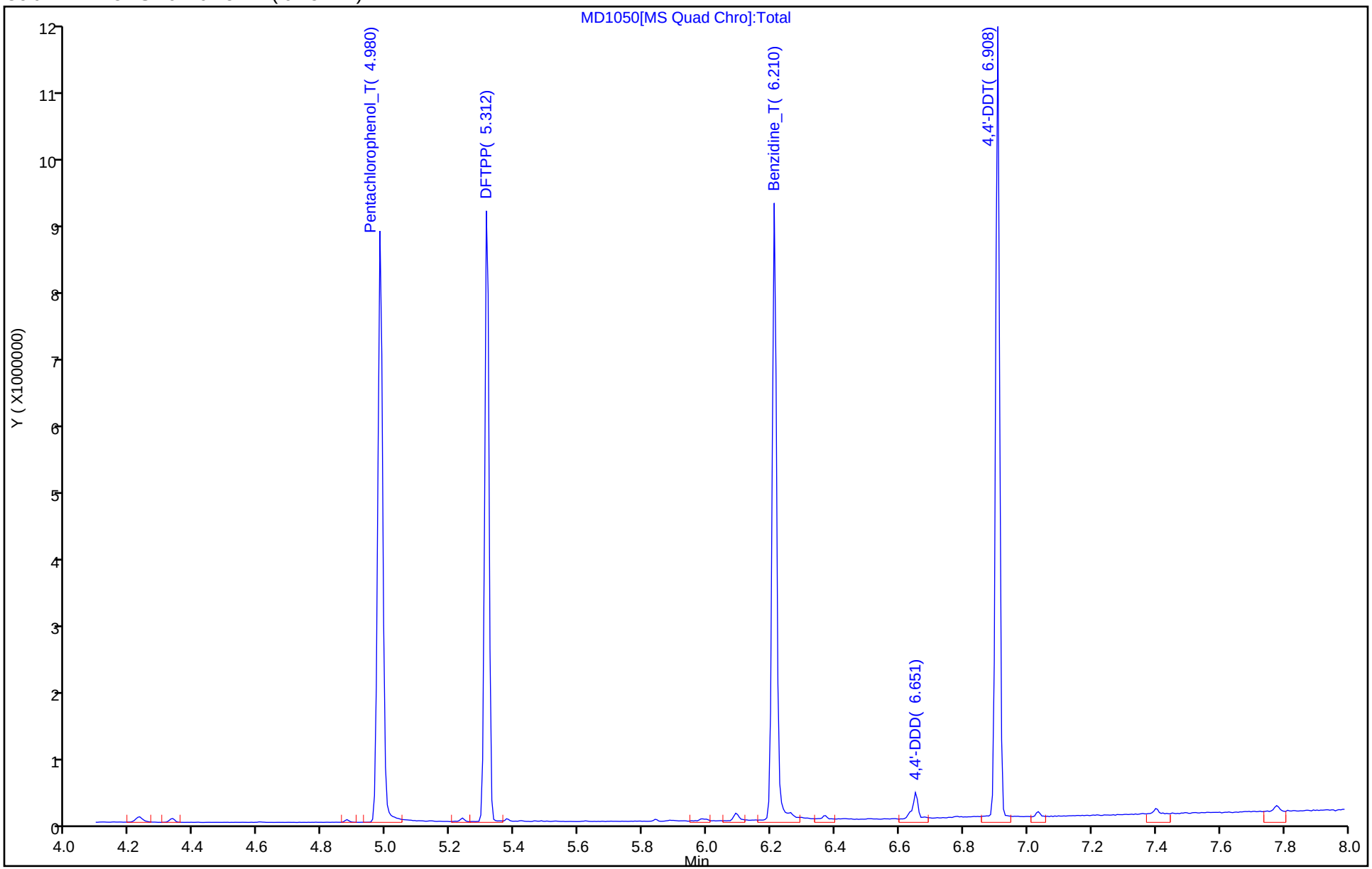
Report Date: 27-Apr-2023 04:59:32 Chrom Revision: 2.3 20-Apr-2023 08:27:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D

Injection Date:	27-Apr-2023 03:16:36	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP DL			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D
Injection Date: 27-Apr-2023 03:16:36 Instrument ID: HP21585
Lims ID: DFTPP DL
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

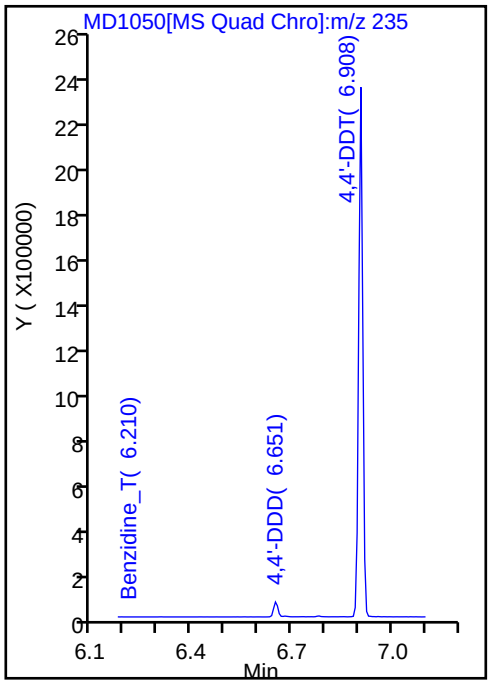
49 4,4'-DDT, Detector: MS Quad

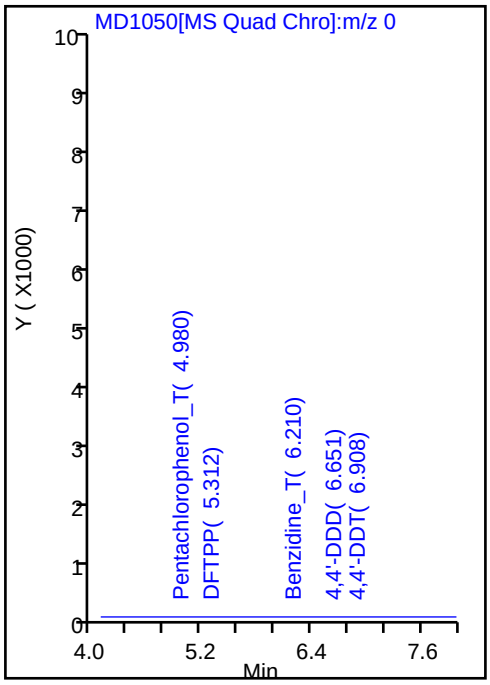
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2006360
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 66104

%Breakdown: 3.19%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

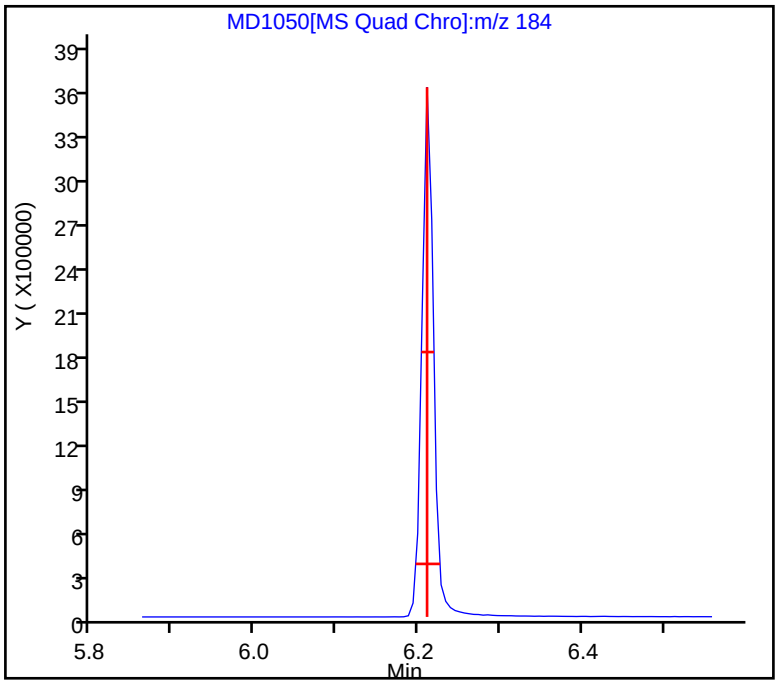
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D
Injection Date: 27-Apr-2023 03:16:36 Instrument ID: HP21585
Lims ID: DFTPP DL
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.14, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

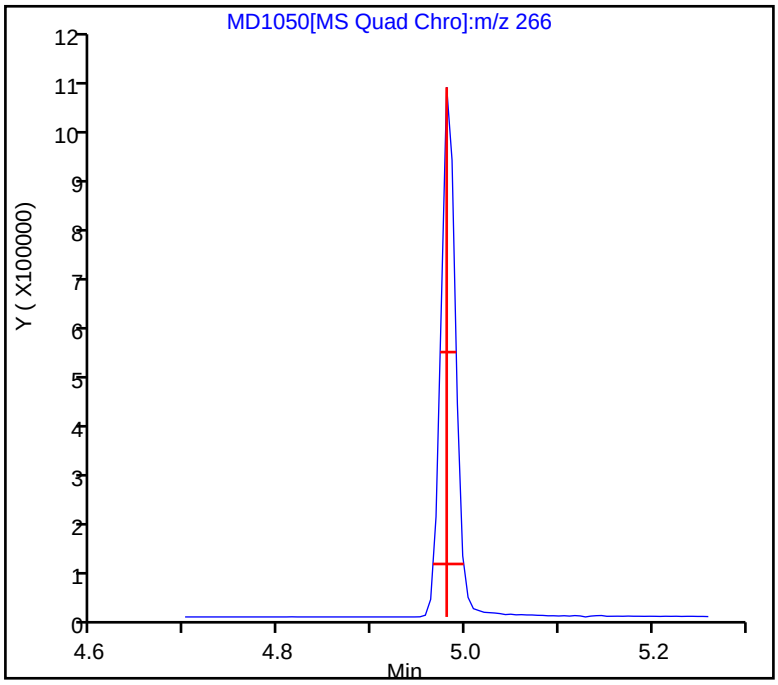
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230427-82514.b\MD1050.D
Injection Date: 27-Apr-2023 03:16:36 Instrument ID: HP21585
Lims ID: DFTPP DL
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.20, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 15-Jun-2023 05:32:42 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0086657-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 15-Jun-2023 06:11:17 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1621

First Level Reviewer: UJM0 Date: 15-Jun-2023 06:09:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.923	4.923	0.000	0	826303	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.153	6.153	0.000	0	3213238	NR	NR	
47 4,4'-DDE	246	6.307	6.307	0.000	0	2512		NR	
48 4,4'-DDD	235	6.588	6.588	0.000	0	13080		NR	
49 4,4'-DDT	235	6.839	6.839	0.000	0	1474610	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

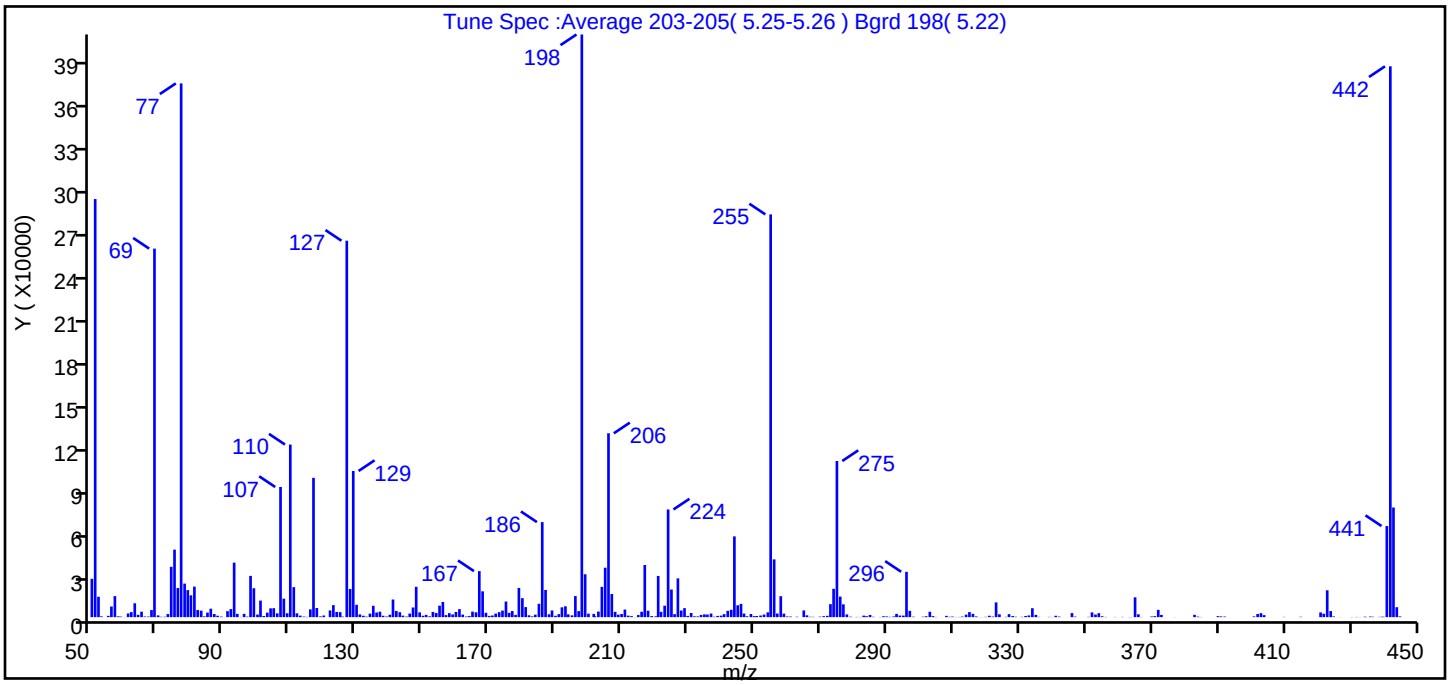
MSS_RVDFTPP_00013 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D
Injection Date: 15-Jun-2023 05:32:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (105.8)
51	10-80% of the base peak	71.8
68	<2% of mass 69	1.2 (1.9)
69	Present	63.2
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	64.6
197	<2% of mass 198	1.0
199	5-9% of mass 198	7.4
275	10-60% of the base peak	26.8
365	>1% of mass 198	3.4
441	present but <24% of mass 442	15.6 (16.5)
442	base peak, or >50% of 198	94.5
443	15-24% of mass 442	18.8 (19.9)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 15-Jun-2023 05:32:42
Spectrum: Tune Spec :Average 203-205(5.25-5.26) Bgrd 198(5.22)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	26728	136.00	3244	220.00	560	312.00	144
51.00	291520	137.00	3804	221.00	28728	313.00	384
52.00	14199	138.00	981	222.00	3715	314.00	1736
53.00	536	139.00	427	223.00	7969	315.00	3531
55.00	913	140.00	1664	224.00	75080	316.00	2313
56.00	7404	141.00	12297	225.00	19256	317.00	488
57.00	14655	142.00	4321	226.00	2074	318.00	60
58.00	564	143.00	3437	227.00	27048	319.00	50
59.00	361	144.00	1064	228.00	4614	320.00	203
60.00	56	145.00	401	229.00	6265	321.00	967
61.00	2556	146.00	2492	230.00	863	322.00	416
62.00	3519	147.00	6734	231.00	2901	323.00	10290
63.00	9670	148.00	21160	232.00	569	324.00	1975
64.00	1618	149.00	3317	233.00	524	326.00	210
65.00	3827	150.00	981	234.00	1525	327.00	2078
66.00	438	151.00	1575	235.00	1932	328.00	751
67.00	400	152.00	565	236.00	1808	329.00	296
68.00	4945	153.00	3631	237.00	2513	331.00	223
69.00	256960	154.00	2888	238.00	310	332.00	822
70.00	1207	155.00	8003	239.00	877	333.00	1182
71.00	260	156.00	10558	240.00	1049	334.00	6236
72.00	293	157.00	1418	241.00	2079	335.00	1586
73.00	2154	158.00	2794	242.00	4399	336.00	209
74.00	35080	159.00	1901	243.00	5117	339.00	183
75.00	47064	160.00	3608	244.00	56304	340.00	64
76.00	20312	161.00	5592	245.00	8283	341.00	948
77.00	372160	162.00	1771	246.00	9238	342.00	382
78.00	23376	163.00	441	247.00	2492	346.00	2819
79.00	18856	164.00	736	248.00	623	347.00	365
80.00	15211	165.00	3868	249.00	2200	351.00	216
81.00	21280	166.00	3369	250.00	710	352.00	3309
82.00	5013	167.00	32080	251.00	798	353.00	1833
83.00	4526	168.00	18008	252.00	1126	354.00	2776

Report Date: 15-Jun-2023 06:11:17 Chrom Revision: 2.3 05-Jun-2023 19:02:10
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 15-Jun-2023 05:32:42
Spectrum: Tune Spec :Average 203-205(5.25-5.26) Bgrd 198(5.22)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	525	169.00	3051	253.00	1808	355.00	621
85.00	3193	170.00	867	254.00	3359	356.00	141
86.00	5891	171.00	1135	255.00	280832	359.00	142
87.00	2170	172.00	2464	256.00	40280	361.00	172
88.00	1000	173.00	3465	257.00	2516	363.00	73
89.00	404	174.00	4589	258.00	14601	364.00	125
90.00	55	175.00	10891	259.00	2438	365.00	13833
91.00	4169	176.00	3007	260.00	471	366.00	1979
92.00	5618	177.00	4279	261.00	417	367.00	114
93.00	38000	178.00	1561	263.00	276	370.00	444
94.00	2265	179.00	20352	265.00	4701	371.00	697
95.00	127	180.00	13239	266.00	1262	372.00	5085
96.00	2295	181.00	7021	267.00	253	373.00	1561
97.00	352	182.00	1296	268.00	213	374.00	50
98.00	28776	183.00	527	270.00	345	377.00	65
99.00	20144	184.00	1713	271.00	682	383.00	1606
100.00	1796	185.00	9309	272.00	934	384.00	381
101.00	11534	186.00	66272	273.00	9089	385.00	131
102.00	809	187.00	18952	274.00	19752	390.00	687
103.00	3146	188.00	1952	275.00	108872	391.00	519
104.00	6141	189.00	4669	276.00	14319	392.00	410
105.00	6250	190.00	955	277.00	8926	401.00	514
106.00	2647	191.00	2107	278.00	1900	402.00	2203
107.00	90760	192.00	6844	279.00	336	403.00	2771
108.00	12884	193.00	7574	280.00	50	404.00	1404
109.00	2717	194.00	1946	281.00	166	410.00	179
110.00	120344	195.00	1234	282.00	147	415.00	263
111.00	20928	196.00	14689	283.00	1053	421.00	3309
112.00	2652	197.00	4208	284.00	669	422.00	2386
113.00	1056	198.00	406272	285.00	1531	423.00	18744
114.00	387	199.00	29904	286.00	266	424.00	4236
115.00	204	200.00	2411	288.00	139	425.00	475
116.00	5418	202.00	2246	289.00	625	426.00	56
117.00	97144	202.00	627	290.00	484	430.00	100

Report Date: 15-Jun-2023 06:11:17 Chrom Revision: 2.3 05-Jun-2023 19:02:10
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 15-Jun-2023 05:32:42
Spectrum: Tune Spec :Average 203-205(5.25-5.26) Bgrd 198(5.22)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	6378	203.00	3917	291.00	218	432.00	156
119.00	521	204.00	21120	292.00	475	433.00	85
120.00	1147	205.00	34472	293.00	2271	434.00	342
122.00	4671	206.00	128192	294.00	1127	435.00	57
123.00	8381	207.00	16126	295.00	1079	436.00	422
124.00	3613	208.00	3718	296.00	31624	437.00	271
125.00	3489	209.00	1719	297.00	4393	439.00	192
126.00	368	210.00	2199	298.00	326	440.00	305
127.00	262464	211.00	5287	301.00	309	440.00	193
128.00	19648	212.00	1061	302.00	629	441.00	63528
129.00	101920	213.00	695	303.00	3752	442.00	384064
130.00	8606	214.00	78	304.00	733	443.00	76424
131.00	1898	215.00	1451	305.00	132	444.00	6942
132.00	983	216.00	3770	308.00	891	445.00	516
133.00	363	217.00	36352	309.00	240		
134.00	2446	218.00	4466	310.00	379		
135.00	7923	219.00	762	311.00	127		

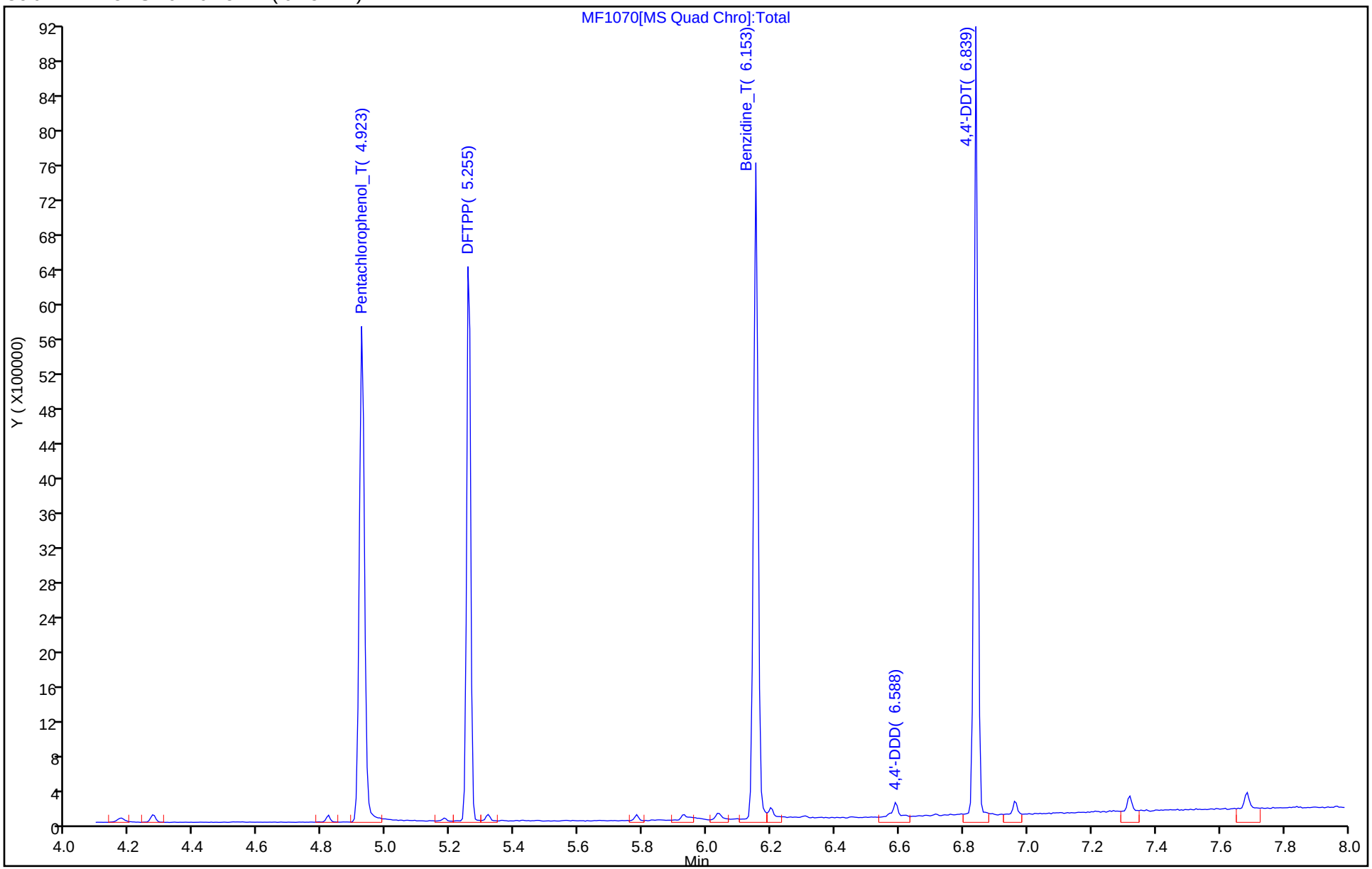
Report Date: 15-Jun-2023 06:11:17 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D

Injection Date:	15-Jun-2023 05:32:42	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)

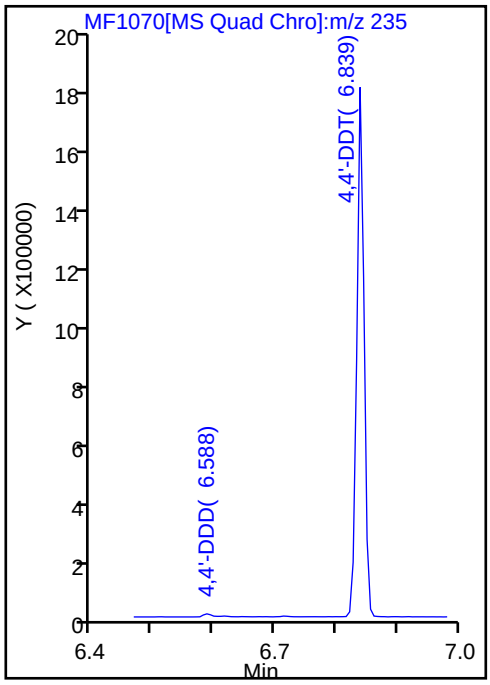


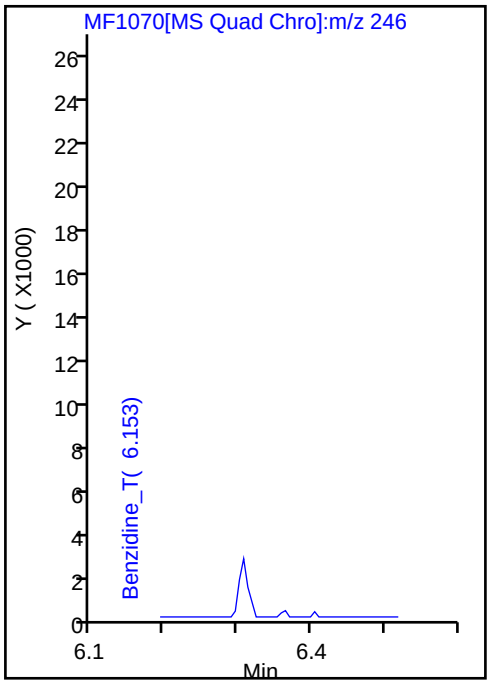
Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D
Injection Date: 15-Jun-2023 05:32:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

49 4,4'-DDT, Detector: MS Quad





SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 1474610
47 4,4'-DDE, Area = 2512
48 4,4'-DDD, Area = 13080

%Breakdown: 1.05%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

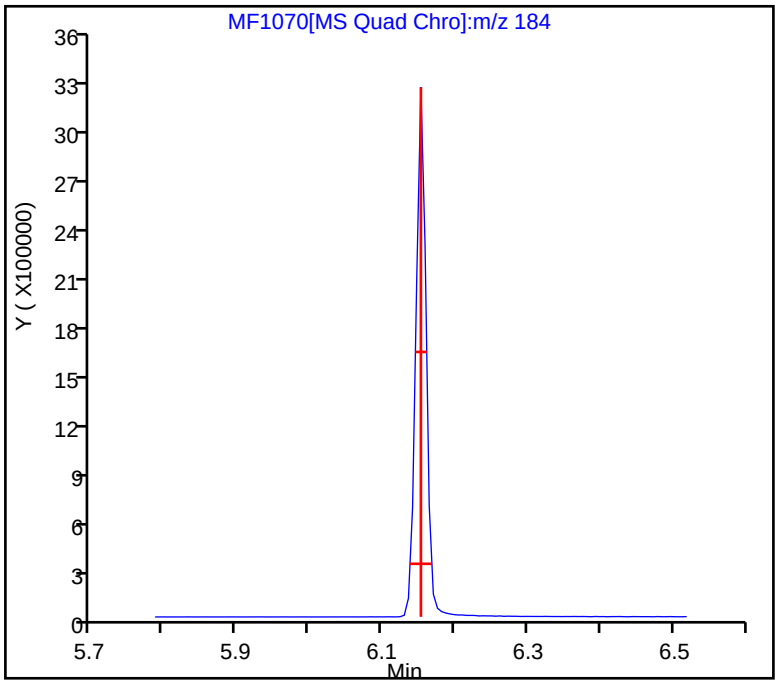
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D
Injection Date: 15-Jun-2023 05:32:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.015 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.00, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

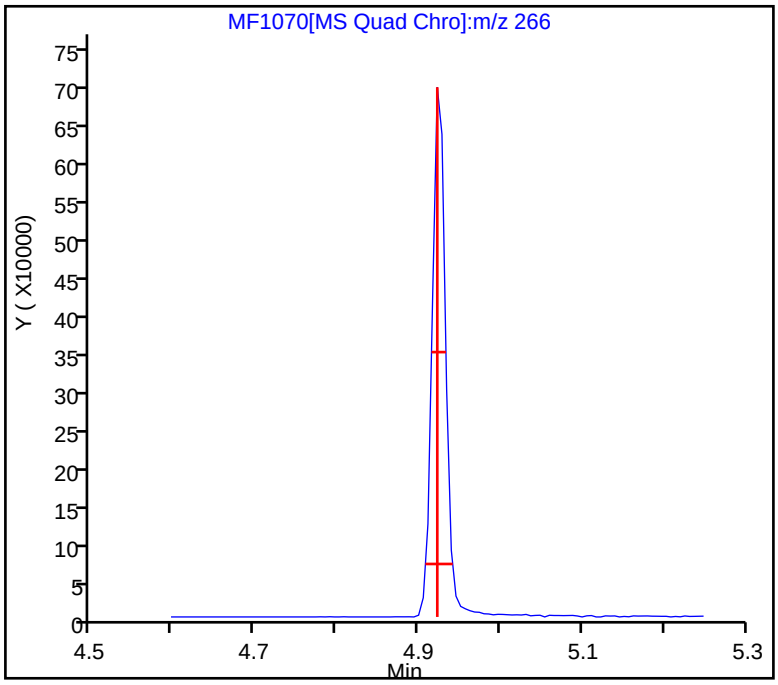
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1070.D
Injection Date: 15-Jun-2023 05:32:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.27, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 16-Jun-2023 04:29:42 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0086777-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 05:18:05 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 16-Jun-2023 04:45:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.928	4.928	0.000	0	1000780	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.158	6.158	0.000	0	3775650	NR	NR	
48 4,4'-DDD	235	6.599	6.599	0.000	0	105696		NR	
49 4,4'-DDT	235	6.851	6.851	0.000	0	1742930	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

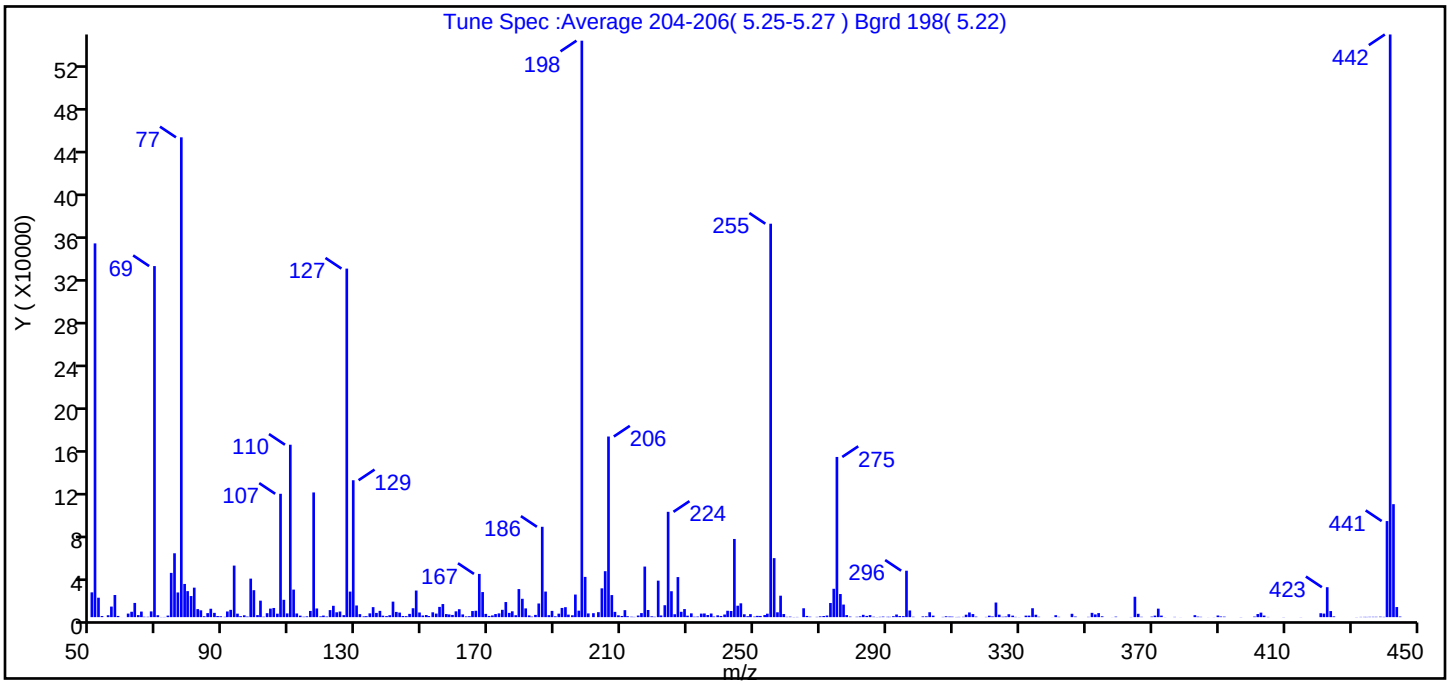
MSS_RVDFTPP_00013 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D
Injection Date: 16-Jun-2023 04:29:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (98.9)
51	10-80% of the base peak	64.8
68	<2% of mass 69	1.0 (1.6)
69	Present	60.9
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	60.5
197	<2% of mass 198	1.1
199	5-9% of mass 198	7.0
275	10-60% of the base peak	27.8
365	>1% of mass 198	3.5
441	present but <24% of mass 442	16.7 (16.5)
442	base peak, or >50% of 198	101.1
443	15-24% of mass 442	19.6 (19.4)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 16-Jun-2023 04:29:42
Spectrum: Tune Spec :Average 204-206(5.25-5.27) Bgrd 198(5.22)
Base Peak: 441.90
Minimum % Base Peak: 0
Number of Points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	23216	135.00	9366	220.00	356	310.00	463
51.00	350016	136.00	3962	221.00	34168	311.00	181
52.00	18208	137.00	5882	222.00	1568	312.00	252
53.00	1035	138.00	1367	223.00	11172	313.00	330
55.00	1771	139.00	970	224.00	98632	314.00	2271
56.00	9896	140.00	1795	225.00	24272	315.00	4391
57.00	20728	141.00	14529	226.00	2728	316.00	2900
58.00	1131	142.00	4889	227.00	37520	317.00	503
59.00	29	143.00	4259	228.00	5007	320.00	220
60.00	15	144.00	1096	229.00	7561	321.00	1362
61.00	3326	145.00	917	230.00	1381	322.00	654
62.00	5044	146.00	3056	231.00	3558	323.00	13682
63.00	13310	147.00	8347	232.00	404	324.00	2308
64.00	1906	148.00	24912	233.00	576	325.00	363
65.00	5215	149.00	4345	234.00	3320	326.00	561
66.00	362	150.00	1541	235.00	3435	327.00	2739
67.00	354	151.00	1974	236.00	1965	328.00	1400
68.00	5384	152.00	1043	237.00	3405	329.00	262
69.00	328768	153.00	4538	238.00	570	330.00	88
70.00	1779	154.00	3326	239.00	1692	332.00	1416
71.00	161	155.00	9593	240.00	1112	333.00	1419
72.00	173	156.00	12262	241.00	2439	334.00	8353
73.00	1441	157.00	2890	242.00	5973	335.00	2242
74.00	41440	158.00	2519	243.00	5758	336.00	377
75.00	59808	159.00	2053	244.00	73216	340.00	56
76.00	23112	160.00	5447	245.00	10697	341.00	1802
77.00	449344	161.00	7413	246.00	12953	342.00	314
78.00	31088	162.00	2559	247.00	2694	346.00	3150
79.00	24360	163.00	681	248.00	857	347.00	566
80.00	19760	164.00	885	249.00	2804	351.00	275
81.00	27616	165.00	5713	250.00	502	352.00	4031
82.00	7546	166.00	5985	251.00	1207	353.00	2547
83.00	6382	167.00	40488	252.00	1131	354.00	3787

Report Date: 16-Jun-2023 05:18:05 Chrom Revision: 2.3 05-Jun-2023 19:02:10
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 16-Jun-2023 04:29:42
Spectrum: Tune Spec :Average 204-206(5.25-5.27) Bgrd 198(5.22)
Base Peak: 441.90
Minimum % Base Peak: 0
Number of Points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	809	168.00	23488	253.00	1957	355.00	791
85.00	3769	169.00	3045	254.00	3235	358.00	50
86.00	7861	170.00	1132	255.00	368448	359.00	481
87.00	4013	171.00	1589	256.00	55264	364.00	162
88.00	1028	172.00	2916	257.00	4541	365.00	19088
89.00	817	173.00	3518	258.00	20088	366.00	3137
90.00	303	174.00	6863	259.00	2898	367.00	317
91.00	5326	175.00	14149	260.00	315	370.00	505
92.00	6833	176.00	3978	261.00	464	371.00	1423
93.00	48280	177.00	5472	262.00	143	372.00	7949
94.00	3270	178.00	1796	263.00	203	373.00	1430
95.00	925	179.00	26288	264.00	25	374.00	77
96.00	1729	180.00	17192	265.00	8313	377.00	248
97.00	532	181.00	8183	266.00	1135	379.00	60
98.00	36072	182.00	1630	267.00	410	383.00	1852
99.00	25232	183.00	498	269.00	252	384.00	515
100.00	1909	184.00	2091	270.00	720	385.00	290
101.00	15437	185.00	12794	271.00	1058	387.00	60
102.00	417	186.00	84616	272.00	1530	389.00	73
103.00	3698	187.00	23952	273.00	13240	390.00	1538
104.00	8000	188.00	1842	274.00	26552	391.00	614
105.00	8585	189.00	5854	275.00	150016	392.00	474
106.00	3238	190.00	767	276.00	21648	397.00	134
107.00	115520	191.00	3267	277.00	11777	401.00	523
108.00	16246	192.00	8624	278.00	1912	402.00	2898
109.00	3501	193.00	9329	279.00	518	403.00	4217
110.00	161472	194.00	2346	281.00	330	404.00	1477
111.00	25800	195.00	1737	282.00	690	405.00	216
112.00	3438	196.00	21160	283.00	2173	410.00	126
113.00	1399	197.00	6062	284.00	1152	415.00	101
114.00	394	198.00	539840	285.00	1914	421.00	3668
115.00	731	199.00	37688	286.00	393	422.00	3322
116.00	5807	200.00	3484	287.00	137	423.00	28032
117.00	116776	201.00	3704	288.00	299	424.00	5684

Report Date: 16-Jun-2023 05:18:05 Chrom Revision: 2.3 05-Jun-2023 19:02:10
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 16-Jun-2023 04:29:42
Spectrum: Tune Spec :Average 204-206(5.25-5.27) Bgrd 198(5.22)
Base Peak: 441.90
Minimum % Base Peak: 0
Number of Points: 334

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	8116	203.00	4660	289.00	514	425.00	692
119.00	696	204.00	26984	290.00	341	432.00	120
120.00	1475	205.00	43032	291.00	278	433.00	232
121.00	566	206.00	169152	292.00	893	434.00	259
122.00	6585	207.00	20664	293.00	2465	435.00	223
123.00	10628	208.00	4942	294.00	1007	436.00	319
124.00	4560	209.00	1721	295.00	940	437.00	329
125.00	5254	210.00	1100	296.00	43480	438.00	329
126.00	1853	211.00	6554	297.00	6231	439.00	448
127.00	326400	212.00	893	298.00	373	440.00	263
128.00	23928	213.00	404	301.00	687	441.00	89976
129.00	128208	214.00	247	302.00	776	442.00	545664
130.00	10932	215.00	1510	303.00	4589	443.00	105800
131.00	2818	216.00	3805	304.00	1413	444.00	9452
132.00	687	217.00	47368	307.00	242	445.00	548
133.00	884	218.00	6689	308.00	815		
134.00	3549	219.00	760	309.00	563		

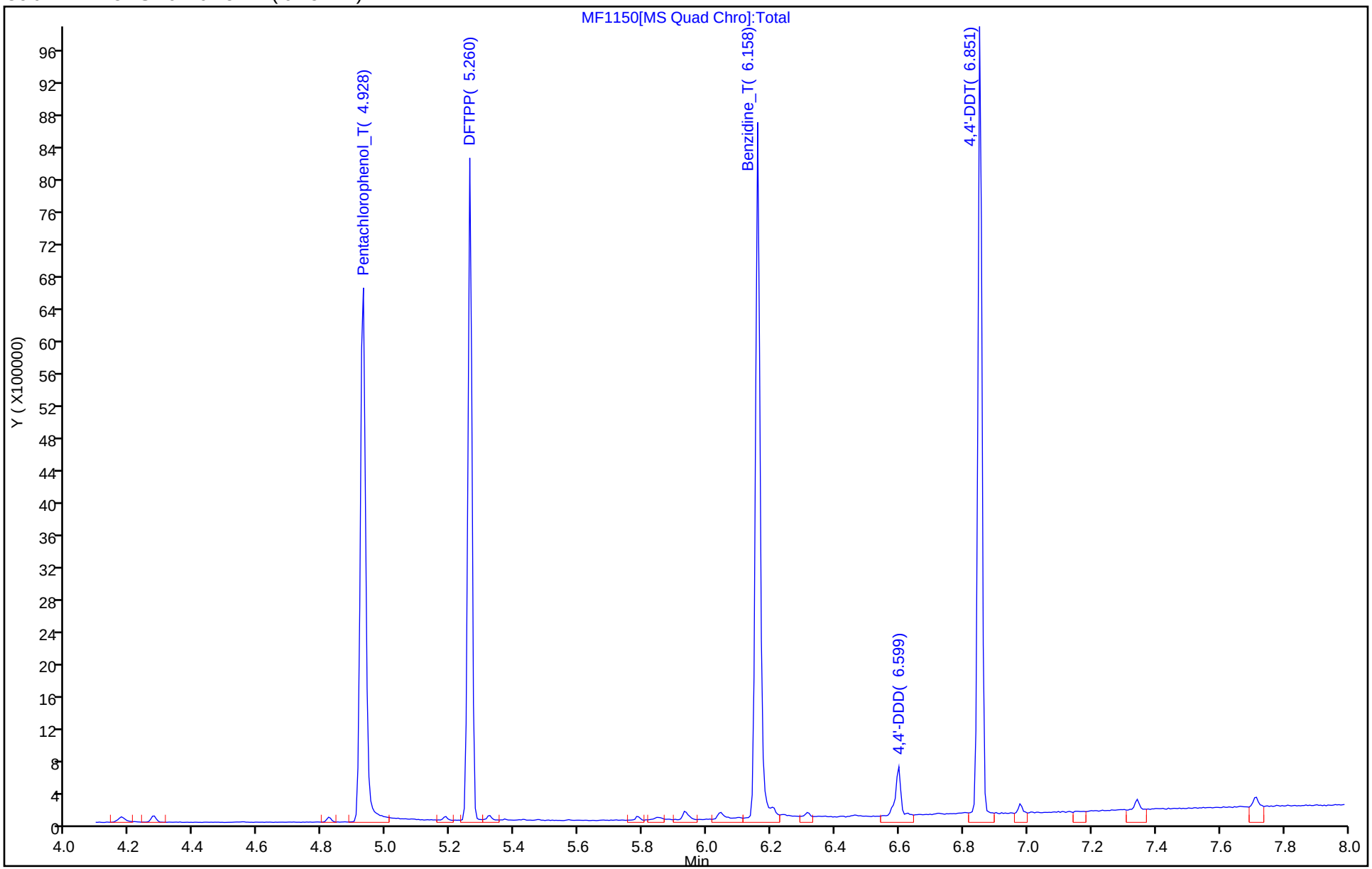
Report Date: 16-Jun-2023 05:18:05 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D

Injection Date:	16-Jun-2023 04:29:42	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D
Injection Date: 16-Jun-2023 04:29:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

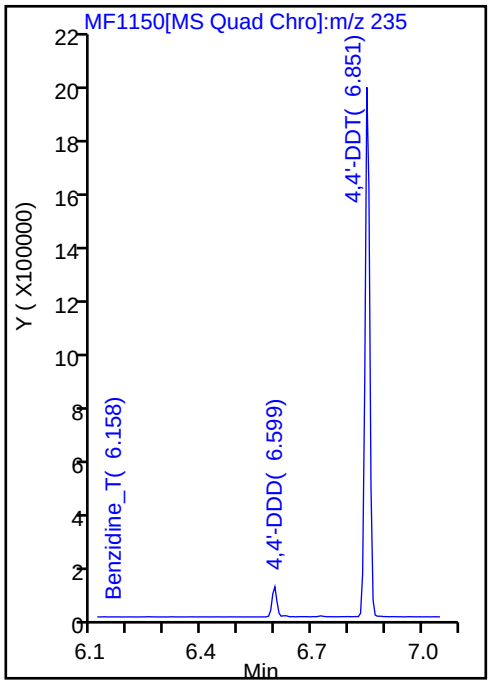
49 4,4'-DDT, Detector: MS Quad

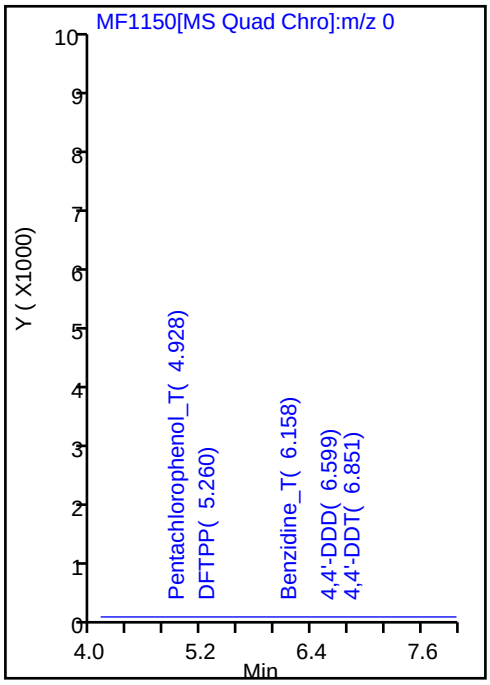
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 1742930
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 105696

%Breakdown: 5.72%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

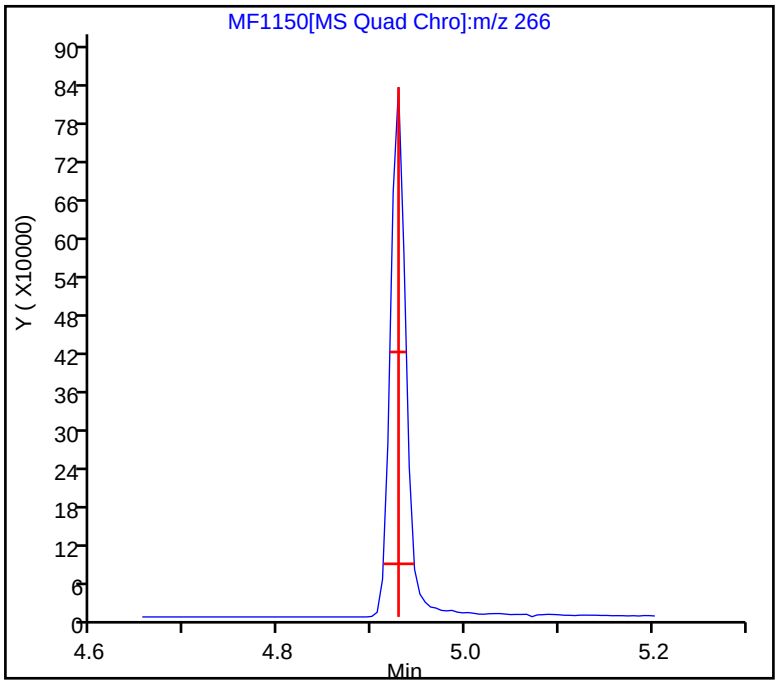
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D
Injection Date: 16-Jun-2023 04:29:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.00, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

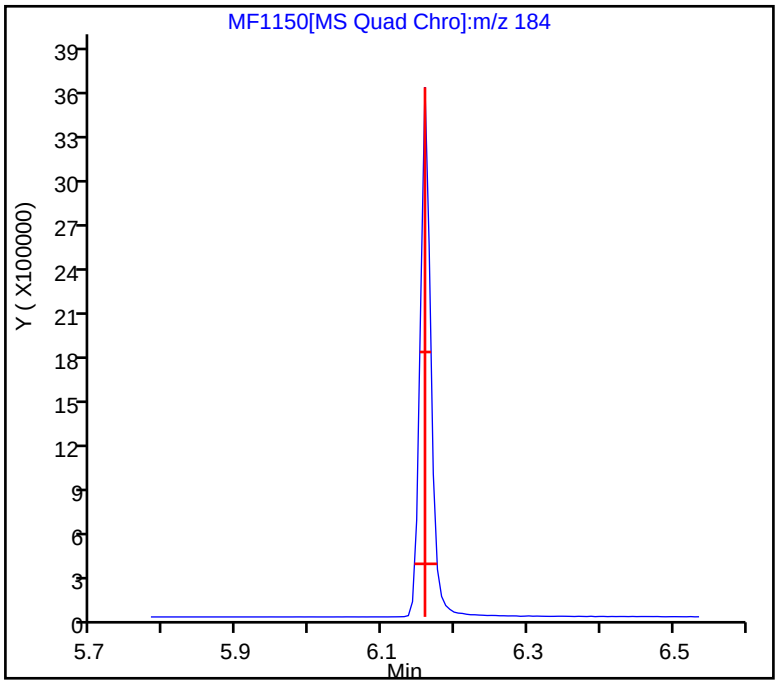
Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1150.D
Injection Date: 16-Jun-2023 04:29:42 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.13, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 21-Feb-2023 22:31:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0077517-001
Operator ID: kel10217 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 22-Feb-2023 03:35:46 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: UJM0 Date: 22-Feb-2023 03:35:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.565	4.565	0.000	97	1611466	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.847	5.847	0.000	99	6019549	NR	NR	
47 4,4'-DDE	246	6.003	6.003	0.000	76	6953		NR	
48 4,4'-DDD	235	6.286	6.286	0.000	93	23457		NR	
49 4,4'-DDT	235	6.540	6.540	0.000	97	2814012	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

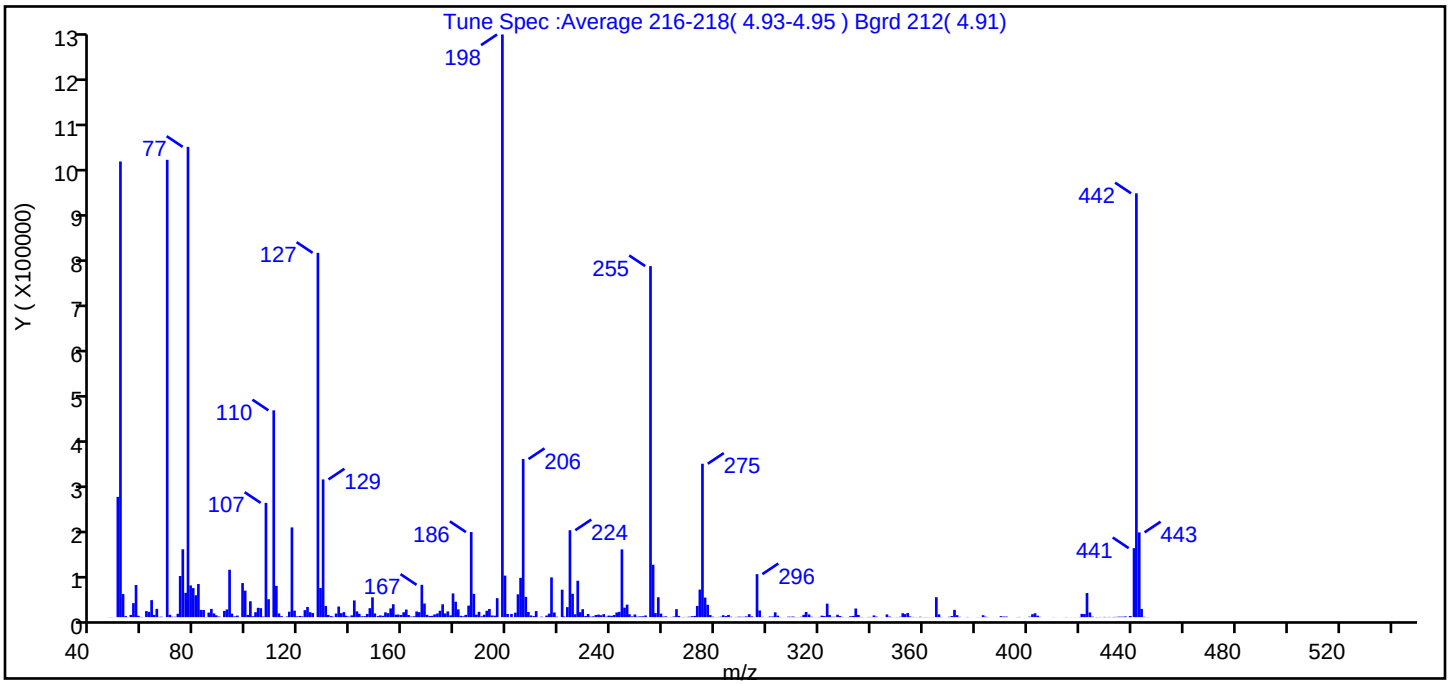
MSS_RVDFTPP_00012 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D
Injection Date: 21-Feb-2023 22:31:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (137.5)
51	10-80% of the base peak	78.2
68	<2% of mass 69	0.0 (0.0)
69	Present	78.5
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	62.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.1
275	10-60% of the base peak	26.3
365	>1% of mass 198	3.4
441	present but <24% of mass 442	11.8 (16.3)
442	base peak, or >50% of 198	72.7
443	15-24% of mass 442	14.5 (20.0)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 21-Feb-2023 22:31:30
Spectrum: Tune Spec :Average 216-218(4.93-4.95) Bgrd 212(4.91)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
47.00	283	145.00	2130	241.00	4451	335.00	4763
48.00	145	146.00	6813	242.00	9867	336.00	459
50.00	255744	147.00	19088	243.00	11251	337.00	208
51.00	969024	148.00	42088	244.00	144064	338.00	134
52.00	49072	149.00	7847	245.00	20152	339.00	473
53.00	2190	150.00	2215	246.00	26536	340.00	405
54.00	240	151.00	3728	247.00	6049	341.00	3695
55.00	4651	152.00	2856	248.00	1587	342.00	1099
56.00	29856	153.00	10239	249.00	5695	344.00	182
57.00	68416	154.00	8382	250.00	1156	346.00	5802
58.00	2934	155.00	18592	251.00	1649	347.00	1242
59.00	435	156.00	27512	252.00	1891	348.00	337
60.00	173	157.00	5184	253.00	3524	349.00	59
61.00	12866	158.00	5604	255.00	746496	350.00	340
62.00	11240	159.00	4693	256.00	111424	351.00	810
63.00	36160	160.00	10366	257.00	8524	352.00	8290
64.00	4762	161.00	16156	258.00	42232	353.00	6396
65.00	17624	162.00	4452	259.00	7572	354.00	8661
66.00	572	163.00	1340	260.00	1179	355.00	1523
67.00	871	164.00	1848	261.00	1761	356.00	499
69.00	972480	165.00	12008	262.00	222	357.00	197
70.00	4949	166.00	10583	263.00	451	358.00	170
71.00	991	167.00	68744	264.00	1389	359.00	822
72.00	802	168.00	28968	265.00	17048	360.00	275
73.00	7200	169.00	5023	266.00	2608	361.00	330
74.00	87528	170.00	2448	267.00	172	362.00	232
75.00	144320	171.00	2900	268.00	399	363.00	160
76.00	51608	172.00	5763	269.00	495	364.00	201
77.00	1000064	173.00	7800	270.00	949	365.00	42392
78.00	67432	174.00	13653	271.00	2023	366.00	5936
79.00	61728	175.00	27320	272.00	2592	367.00	475
80.00	46568	176.00	7816	273.00	23880	369.00	84
81.00	70440	177.00	12232	274.00	58672	370.00	847

Report Date: 22-Feb-2023 03:35:46 Chrom Revision: 2.3 15-Feb-2023 20:44:50
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 21-Feb-2023 22:31:30
Spectrum: Tune Spec :Average 216-218(4.93-4.95) Bgrd 212(4.91)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	15358	178.00	3829	275.00	326208	371.00	2287
83.00	15133	179.00	50416	276.00	41616	372.00	15458
84.00	295	180.00	32776	277.00	26192	373.00	4148
85.00	9689	181.00	16432	278.00	4392	374.00	639
86.00	17568	182.00	2825	279.00	1009	377.00	469
87.00	7841	183.00	1771	280.00	167	381.00	299
88.00	3836	184.00	4825	281.00	448	382.00	107
89.00	1362	185.00	24480	282.00	931	383.00	4069
91.00	13260	186.00	180928	283.00	4059	384.00	1085
92.00	16416	187.00	49560	284.00	2250	385.00	353
93.00	100784	188.00	5235	285.00	4681	388.00	94
94.00	7427	189.00	11340	286.00	891	389.00	53
95.00	1700	190.00	1810	287.00	119	390.00	2132
96.00	3310	191.00	5074	288.00	450	391.00	1282
97.00	192	192.00	13578	289.00	964	392.00	1249
98.00	72456	193.00	17448	290.00	792	395.00	66
99.00	56408	194.00	3573	291.00	745	396.00	191
100.00	4811	195.00	3107	292.00	1519	397.00	446
101.00	33768	196.00	40416	293.00	6297	401.00	1069
102.00	2010	198.00	1239040	294.00	1677	402.00	6216
103.00	10465	199.00	88352	295.00	135	403.00	8240
104.00	19832	200.00	6679	296.00	91440	404.00	3055
105.00	19112	202.00	6797	297.00	14200	405.00	612
106.00	1229	203.00	9565	298.00	659	410.00	280
107.00	243008	204.00	48544	299.00	106	412.00	65
108.00	38104	205.00	83552	300.00	167	413.00	56
110.00	439808	206.00	336192	301.00	1391	414.00	64
111.00	66488	207.00	43152	302.00	1447	415.00	319
112.00	7806	208.00	10983	303.00	10253	417.00	170
113.00	2134	209.00	3590	304.00	3091	418.00	141
114.00	120	210.00	2286	305.00	360	419.00	97
115.00	1389	211.00	12930	306.00	51	420.00	379
116.00	11608	212.00	111	307.00	121	421.00	6979
117.00	190848	213.00	1026	308.00	1003	422.00	6596

Report Date: 22-Feb-2023 03:35:46 Chrom Revision: 2.3 15-Feb-2023 20:44:50
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 21-Feb-2023 22:31:30
Spectrum: Tune Spec :Average 216-218(4.93-4.95) Bgrd 212(4.91)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 371

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	13826	214.00	98	309.00	844	423.00	51288
119.00	1716	215.00	3338	310.00	1280	424.00	9950
120.00	2499	216.00	7414	311.00	348	425.00	1097
121.00	1570	217.00	84552	312.00	349	426.00	181
122.00	14909	218.00	9936	313.00	905	427.00	318
123.00	21680	219.00	950	314.00	5015	428.00	446
124.00	10492	221.00	58368	315.00	11053	430.00	214
125.00	8663	222.00	1478	316.00	5717	430.00	566
127.00	774720	223.00	21320	317.00	895	431.00	232
128.00	61920	224.00	184832	318.00	200	432.00	498
129.00	292864	225.00	49680	319.00	157	433.00	413
130.00	23800	226.00	6058	320.00	502	434.00	502
131.00	4707	227.00	77392	321.00	3153	435.00	903
132.00	2190	228.00	10461	322.00	2218	436.00	993
133.00	1003	229.00	16944	323.00	28760	437.00	1026
134.00	7611	230.00	2374	324.00	4708	438.00	1523
135.00	22576	231.00	6594	325.00	760	440.00	2288
136.00	8434	232.00	1215	326.00	814	440.00	1225
137.00	10662	233.00	1734	327.00	5125	441.00	146688
138.00	2922	234.00	4601	328.00	2354	442.00	901312
139.00	1296	235.00	5497	329.00	590	443.00	180224
140.00	3730	236.00	4018	330.00	168	444.00	17520
141.00	35544	237.00	6315	331.00	292	445.00	742
142.00	12337	238.00	1133	332.00	1942	446.00	320
143.00	7178	239.00	3316	333.00	2613	540.00	54
144.00	1860	240.00	2780	334.00	18336		

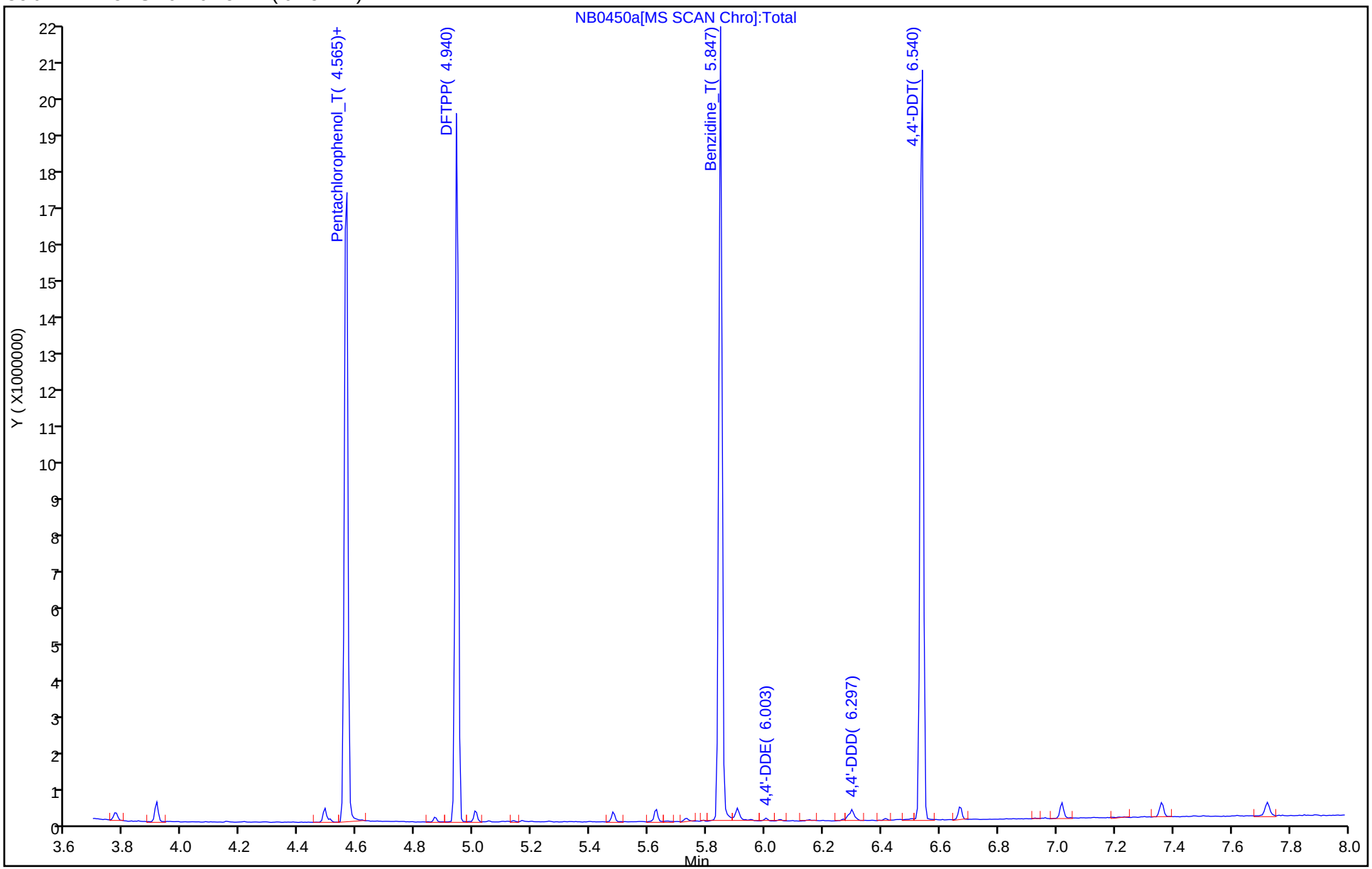
Report Date: 22-Feb-2023 03:35:46 Chrom Revision: 2.3 15-Feb-2023 20:44:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D

Injection Date:	21-Feb-2023 22:31:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D				
Injection Date:	21-Feb-2023 22:31:30	Instrument ID:	HP23263		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

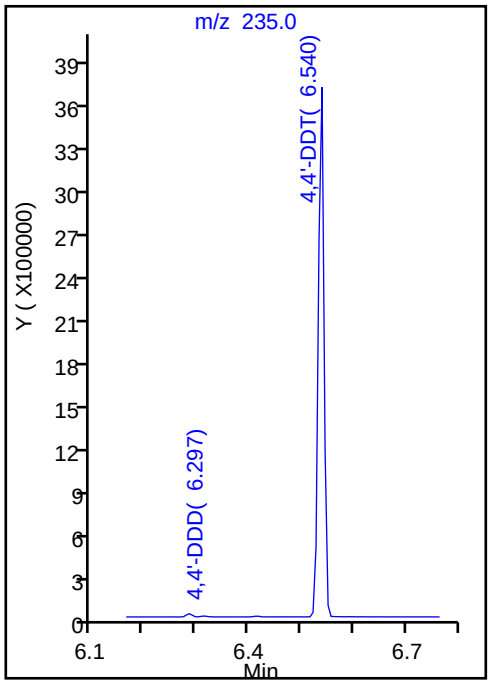
49 4,4'-DDT, Detector: MS SCAN

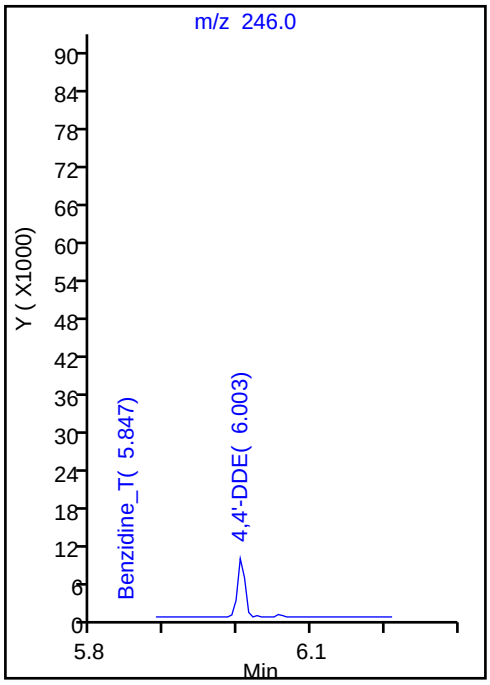
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2814012
47 4,4'-DDE, Area = 6953
48 4,4'-DDD, Area = 23457

%Breakdown: 1.07%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

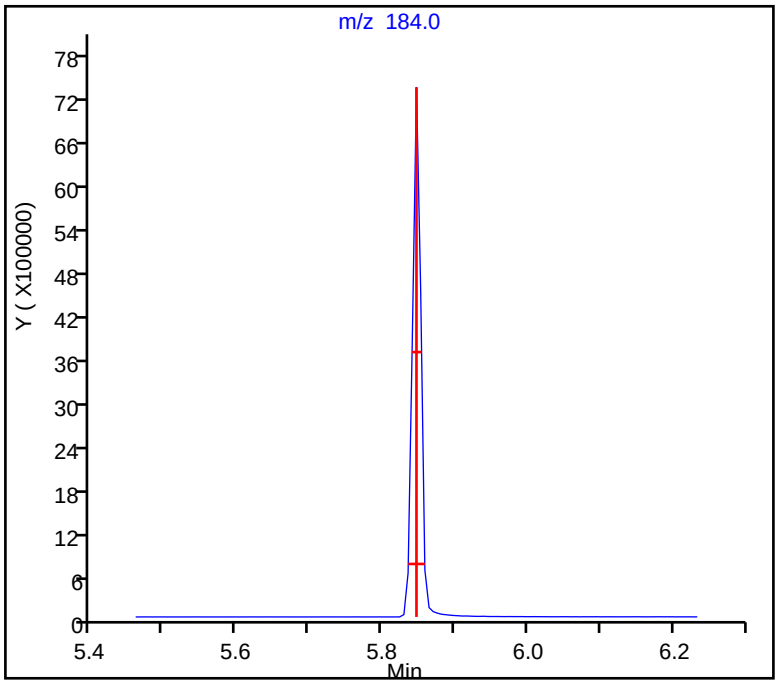
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D
Injection Date: 21-Feb-2023 22:31:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.00, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

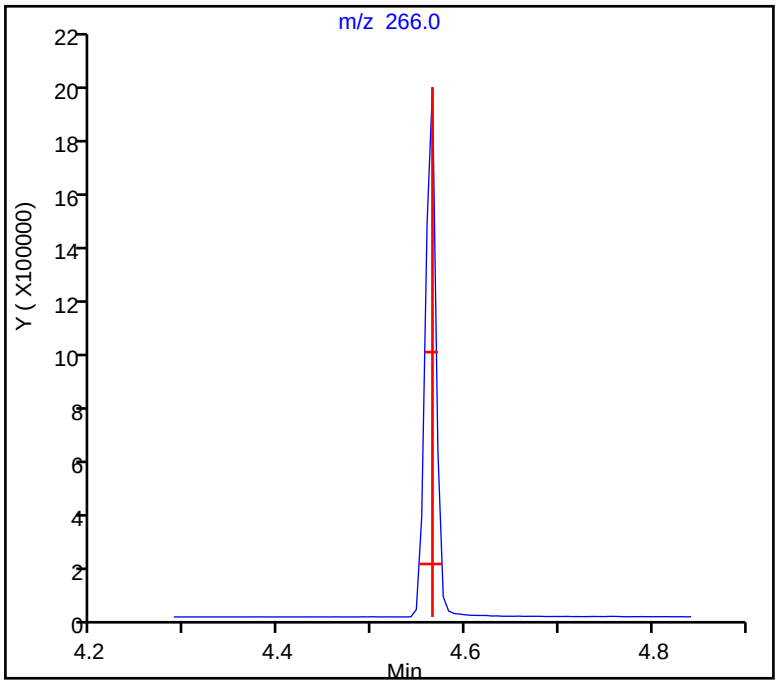
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0450a.D
Injection Date: 21-Feb-2023 22:31:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.71, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 19-Jun-2023 11:55:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0086950-001
Operator ID: kel10217 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 14:27:36 Calib Date: 22-Feb-2023 01:02:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20230221-77517.b\NB0456.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:15:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.478	4.478	0.000	98	1092416	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.754	5.754	0.000	99	3830379	NR	NR	
47 4,4'-DDE	246	5.904	5.904	0.000	76	6248		NR	
48 4,4'-DDD	235	6.187	6.187	0.000	89	17201		NR	
49 4,4'-DDT	235	6.436	6.436	0.000	99	1996208	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

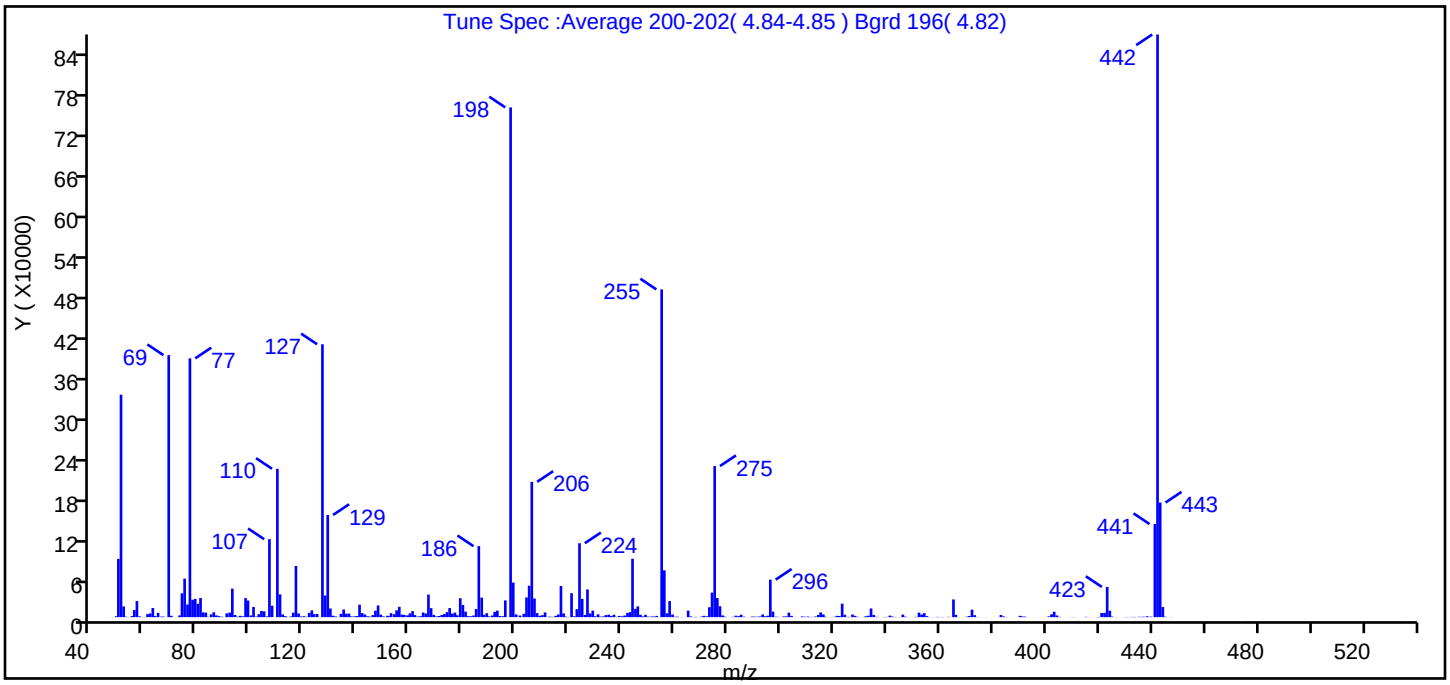
MSS_RVDFTPP_00013 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D
Injection Date: 19-Jun-2023 11:55:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (87.5)
51	10-80% of the base peak	43.6
68	<2% of mass 69	0.0 (0.0)
69	Present	51.4
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	53.5
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	29.6
365	>1% of mass 198	3.5
441	present but <24% of mass 442	18.3 (16.0)
442	base peak, or >50% of 198	114.3
443	15-24% of mass 442	22.5 (19.7)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 19-Jun-2023 11:55:30
Spectrum: Tune Spec :Average 200-202(4.84-4.85) Bgrd 196(4.82)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	66	142.00	5951	234.00	2981	334.00	12899
48.00	125	143.00	3932	235.00	3661	335.00	3317
49.00	1438	144.00	1224	236.00	1853	336.00	550
50.00	86536	145.00	779	237.00	3574	339.00	336
51.00	330816	146.00	3014	238.00	402	340.00	327
52.00	15933	147.00	9605	239.00	1812	341.00	2279
53.00	624	148.00	17392	240.00	1191	342.00	942
54.00	109	149.00	3809	241.00	2411	343.00	306
55.00	1561	150.00	1120	242.00	6366	344.00	55
56.00	10562	152.00	2044	243.00	7345	345.00	270
57.00	23944	152.00	1421	244.00	86920	346.00	3847
58.00	1184	153.00	5877	245.00	12342	347.00	756
59.00	269	154.00	4325	246.00	16047	348.00	130
60.00	191	155.00	10171	247.00	3475	350.00	63
61.00	4495	156.00	15314	248.00	1029	351.00	447
62.00	5472	157.00	3704	249.00	3508	352.00	6713
63.00	13587	158.00	3329	250.00	773	353.00	3886
64.00	1615	159.00	2681	251.00	820	354.00	5848
65.00	6365	160.00	5566	252.00	1007	355.00	1491
66.00	662	161.00	8979	253.00	1909	356.00	121
67.00	807	162.00	3037	255.00	487424	357.00	121
69.00	389696	163.00	993	256.00	69616	358.00	95
70.00	2038	164.00	1315	257.00	5791	359.00	395
71.00	81	165.00	6861	258.00	23848	360.00	215
73.00	2573	166.00	5418	259.00	3950	361.00	269
74.00	35392	167.00	33536	260.00	540	363.00	448
75.00	57200	168.00	13333	261.00	671	364.00	103
76.00	18800	169.00	3276	262.00	133	365.00	26336
77.00	384896	170.00	1064	263.00	153	366.00	3429
78.00	25840	171.00	1688	265.00	9672	367.00	196
79.00	27080	172.00	3096	266.00	1139	369.00	50
80.00	19872	173.00	4647	267.00	248	370.00	730
81.00	28416	174.00	7422	268.00	418	371.00	1711

Report Date: 19-Jun-2023 14:27:37 Chrom Revision: 2.3 05-Jun-2023 19:02:10
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 19-Jun-2023 11:55:30
Spectrum: Tune Spec :Average 200-202(4.84-4.85) Bgrd 196(4.82)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	7077	175.00	13509	269.00	111	372.00	11150
83.00	6748	176.00	5290	270.00	840	373.00	2886
84.00	454	177.00	6743	271.00	2007	374.00	334
85.00	4086	178.00	2733	272.00	1232	375.00	82
86.00	7252	179.00	28136	273.00	14706	377.00	122
87.00	2628	180.00	18048	274.00	36536	378.00	73
88.00	1516	181.00	8220	275.00	224704	383.00	3275
89.00	628	182.00	1454	276.00	28440	384.00	1132
90.00	116	183.00	1345	277.00	16297	385.00	232
91.00	5597	184.00	2416	278.00	2546	389.00	66
92.00	6635	185.00	12032	279.00	732	390.00	1928
93.00	42448	186.00	105560	281.00	31	391.00	1092
94.00	3193	187.00	29080	282.00	473	392.00	842
95.00	679	188.00	3433	283.00	2192	393.00	115
96.00	1977	189.00	5807	284.00	1550	395.00	61
97.00	1195	190.00	1193	285.00	3580	396.00	59
98.00	28304	191.00	2482	286.00	666	397.00	63
99.00	24704	192.00	7947	288.00	110	401.00	1178
100.00	2492	193.00	9703	289.00	672	402.00	4246
101.00	15166	194.00	1716	290.00	792	403.00	8016
102.00	785	195.00	1372	291.00	585	404.00	2529
103.00	4404	196.00	24896	292.00	974	405.00	479
104.00	9189	198.00	758144	293.00	3935	409.00	127
105.00	8631	199.00	51440	294.00	1302	410.00	197
106.00	1141	200.00	4061	295.00	2115	411.00	105
107.00	115960	202.00	2399	296.00	55768	415.00	437
108.00	16928	202.00	595	297.00	8240	416.00	193
110.00	220608	203.00	4930	298.00	625	420.00	219
111.00	33896	204.00	29288	299.00	302	420.00	301
112.00	4089	205.00	46792	301.00	986	421.00	6190
113.00	1468	206.00	201216	302.00	1149	422.00	6445
114.00	313	207.00	27696	303.00	6696	423.00	44920
115.00	1051	208.00	5986	304.00	1889	424.00	9633
116.00	6625	209.00	2010	305.00	140	425.00	828

Report Date: 19-Jun-2023 14:27:37 Chrom Revision: 2.3 05-Jun-2023 19:02:10
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 19-Jun-2023 11:55:30
Spectrum: Tune Spec :Average 200-202(4.84-4.85) Bgrd 196(4.82)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 361

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	76104	210.00	2967	308.00	1055	427.00	222
118.00	5475	211.00	7026	309.00	627	430.00	212
119.00	1017	212.00	396	310.00	870	430.00	248
120.00	1418	213.00	670	311.00	324	432.00	319
121.00	540	214.00	411	312.00	241	433.00	337
122.00	6316	215.00	1942	313.00	889	434.00	276
123.00	10103	216.00	3887	314.00	3238	435.00	538
124.00	4430	217.00	46360	315.00	7055	436.00	389
125.00	4671	218.00	5566	316.00	3950	437.00	680
127.00	405824	219.00	781	317.00	598	438.00	1376
128.00	32120	220.00	244	319.00	198	440.00	729
129.00	152000	221.00	35640	320.00	437	441.00	138432
130.00	12871	222.00	1291	321.00	1971	442.00	866560
131.00	2065	223.00	11913	322.00	1707	443.00	170432
132.00	1024	224.00	109936	323.00	20088	444.00	15014
133.00	163	225.00	27120	324.00	3528	445.00	621
134.00	4906	226.00	3302	325.00	336	446.00	34
135.00	11425	227.00	41208	326.00	342	447.00	199
136.00	5109	228.00	5563	327.00	3873	461.00	66
137.00	5246	229.00	9673	328.00	1976	476.00	64
138.00	1099	230.00	1261	329.00	451	536.00	110
139.00	1094	231.00	4148	331.00	167		
140.00	1792	232.00	853	332.00	1314		
141.00	18488	233.00	1126	333.00	2135		

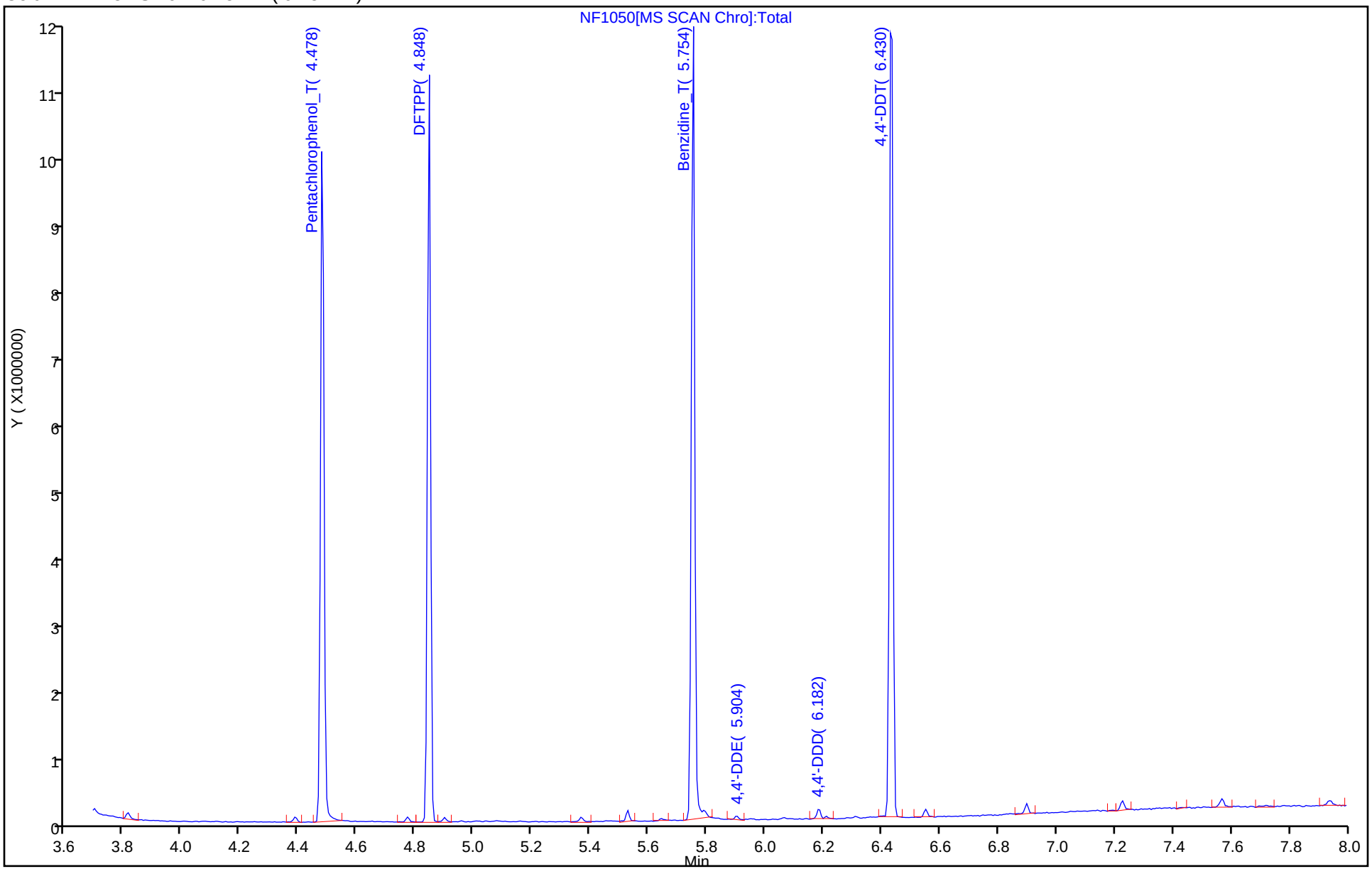
Report Date: 19-Jun-2023 14:27:37 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D

Injection Date:	19-Jun-2023 11:55:30	Instrument ID:	HP23263	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D				
Injection Date:	19-Jun-2023 11:55:30	Instrument ID:	HP23263		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

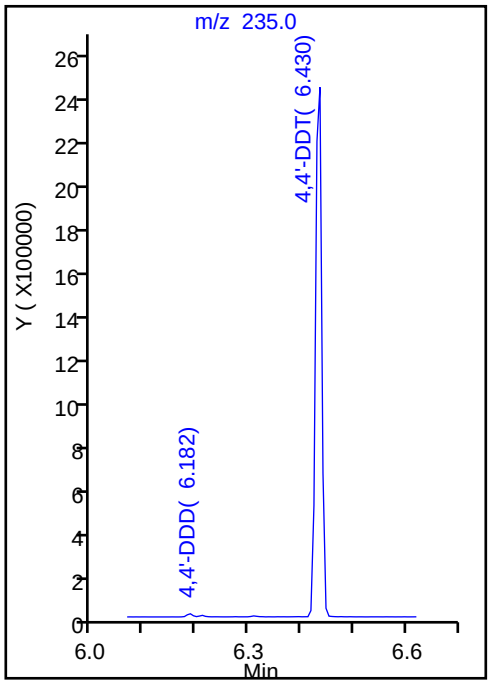
49 4,4'-DDT, Detector: MS SCAN

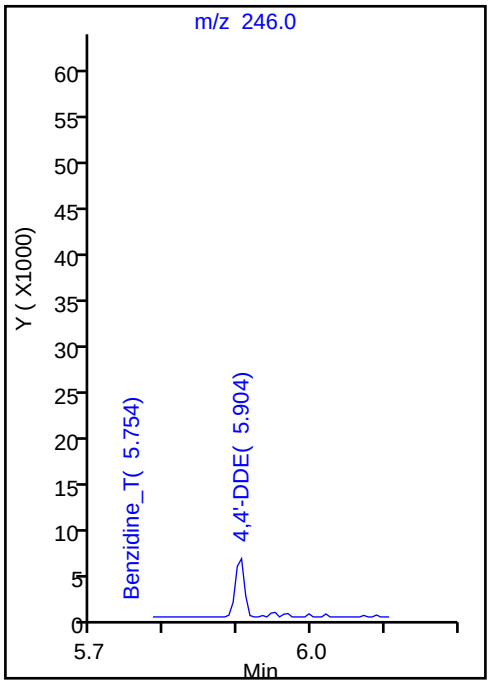
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 1996208
47 4,4'-DDE, Area = 6248
48 4,4'-DDD, Area = 17201

%Breakdown: 1.16%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

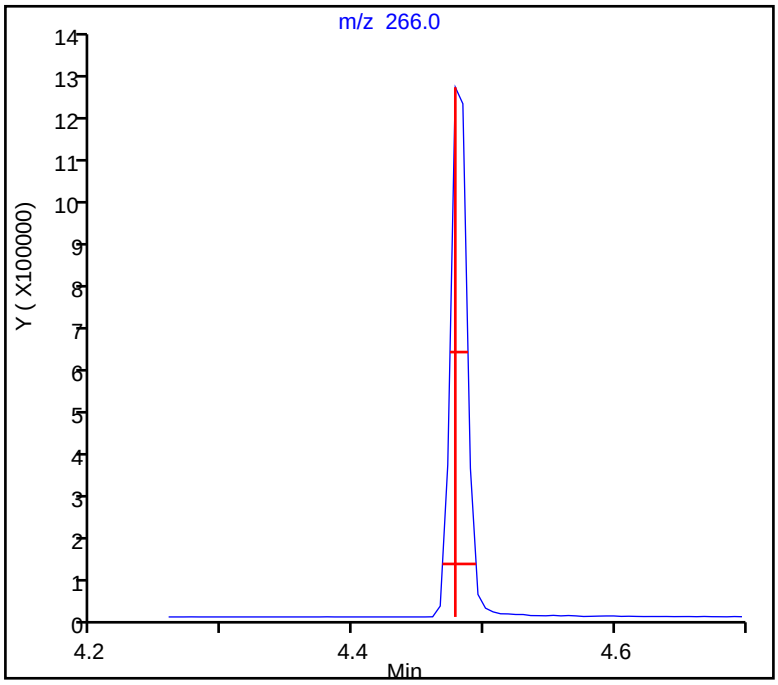
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D
Injection Date: 19-Jun-2023 11:55:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.60, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

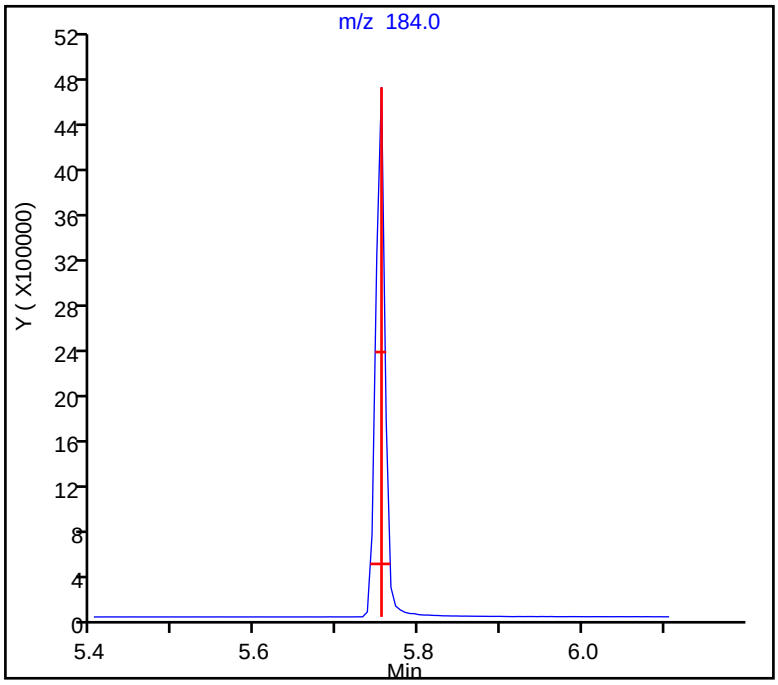
Data File: \\chromfs\Lancaster\ChromData\HP23263\20230619-86950.b\NF1050.D
Injection Date: 19-Jun-2023 11:55:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.79, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-386349/1-A

Matrix: Water
Lab File ID: MF1072.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 250(mL)
Date Analyzed: 06/15/2023 06:21

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	81		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		33-120
93951-69-0	Fluoranthene-d10 (Surr)	81		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1072.D
Lims ID: MB 410-386349/1-A
Client ID:
Sample Type: MB
Inject. Date: 15-Jun-2023 06:21:41 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-386349/1-A
Misc. Info.: 410-0086657-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 15-Jun-2023 06:51:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	99	57725	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	202013	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	96	93233	0.2500	0.1895	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	93	119727	0.2500	0.2500	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	238049	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	221073	0.2500	0.2032	
* 29 Chrysene-d12	240	11.372	11.372	0.000	56	226576	0.2500	0.2500	
33 Benzo[b]fluoranthene	252	12.722	12.722	0.000	100	2938		0.002322	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	100	179096	0.2500	0.2034	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	239482	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.778	14.778	0.007	99	2524		0.002397	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

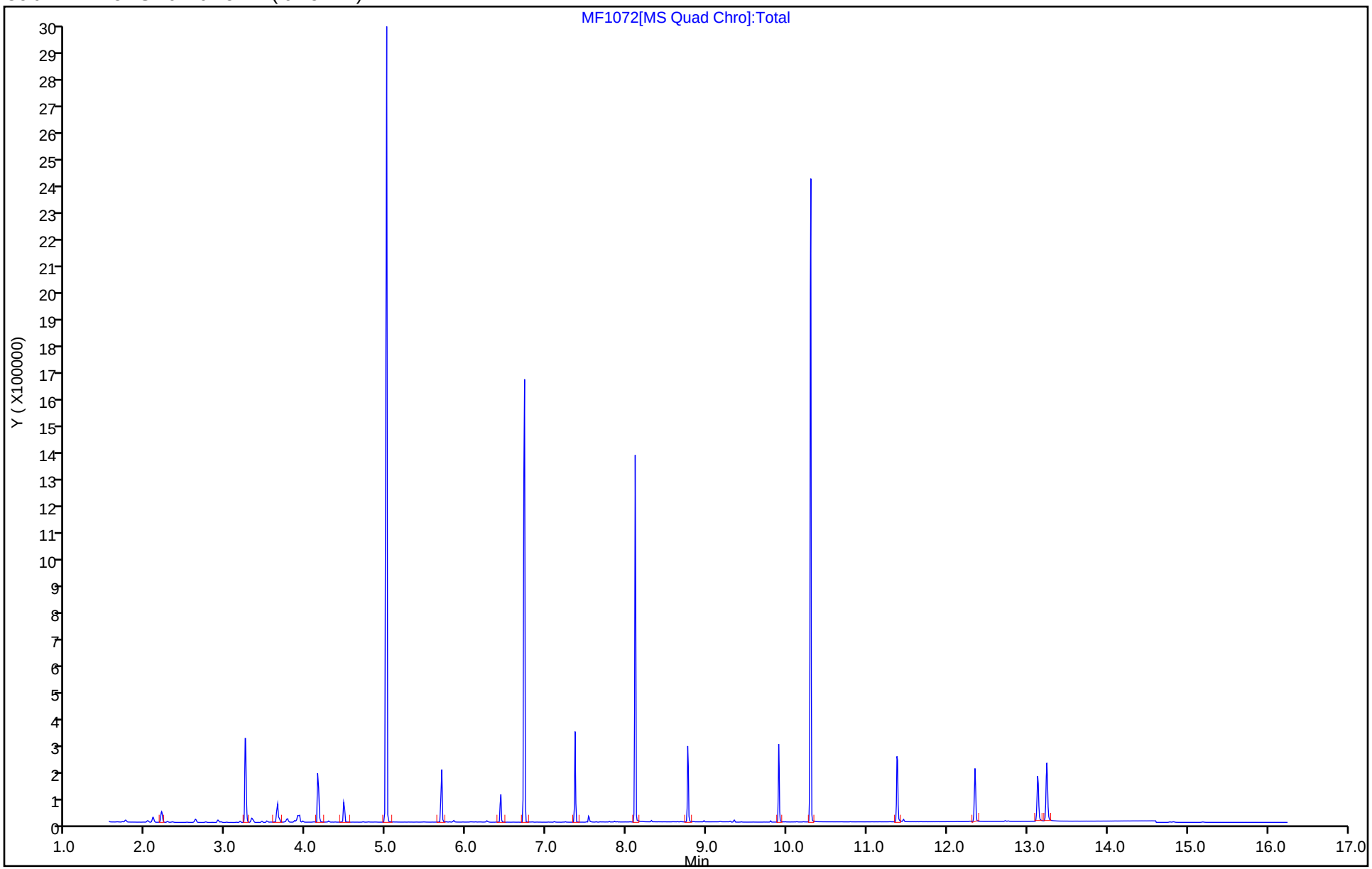
Report Date: 16-Jun-2023 03:31:02 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1072.D

Injection Date:	15-Jun-2023 06:21:41	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	MB 410-386349/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1072.D
Lims ID: MB 410-386349/1-A
Client ID:
Sample Type: MB
Inject. Date: 15-Jun-2023 06:21:41 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-386349/1-A
Misc. Info.: 410-0086657-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 15-Jun-2023 06:51:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1895	75.82
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2032	81.27
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2034	81.35

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

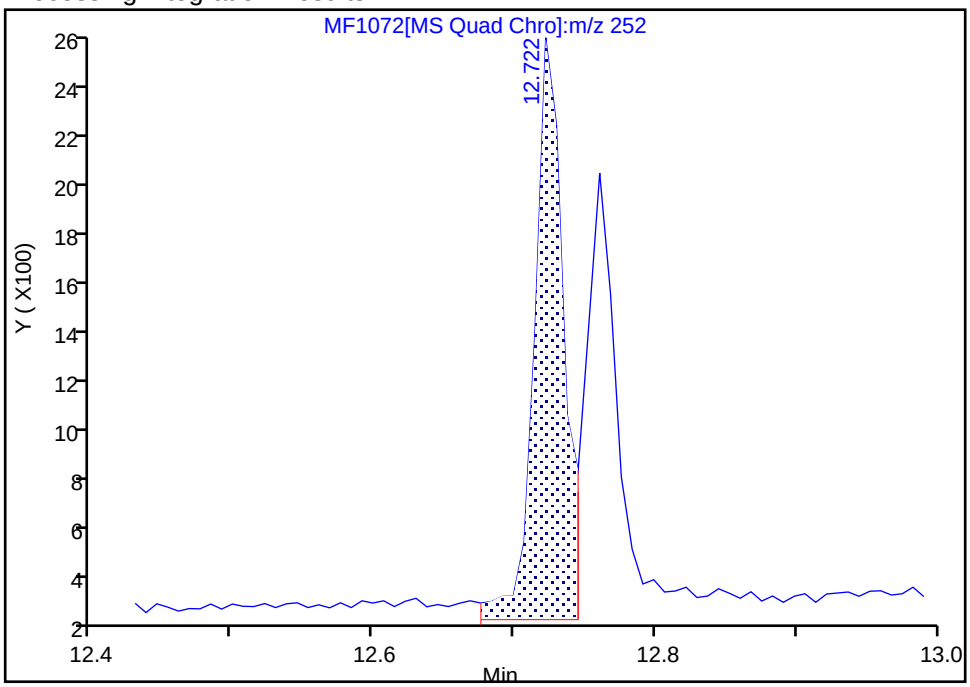
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1072.D				
Injection Date:	15-Jun-2023 06:21:41	Instrument ID:	HP21585		
Lims ID:	MB 410-386349/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

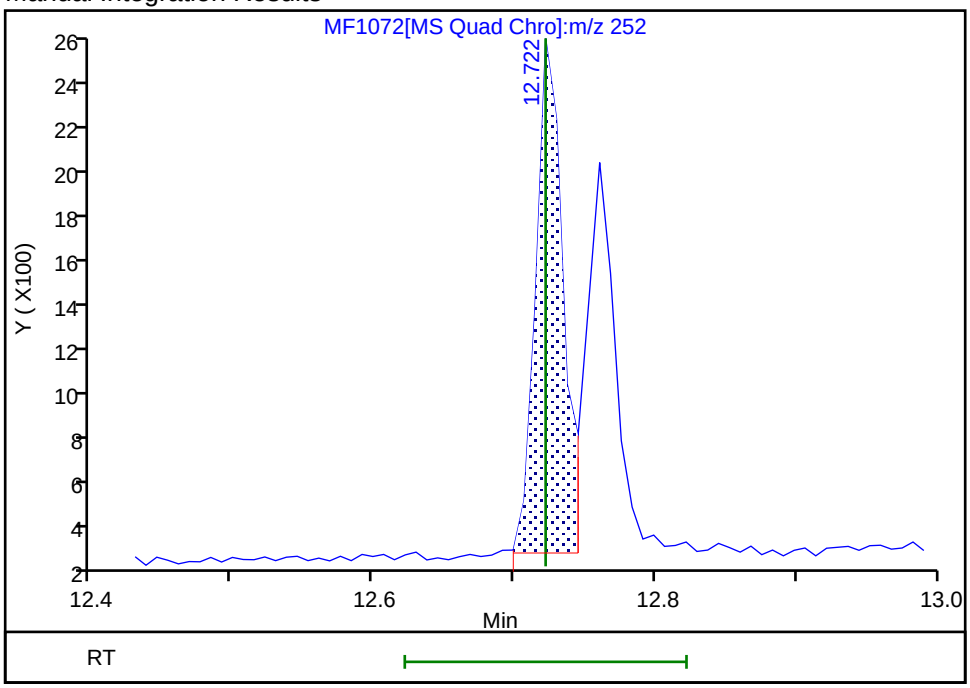
Processing Integration Results

RT: 12.72
Area: 3298
Amount: 0.002606
Amount Units: ug/ml



Manual Integration Results

RT: 12.72
Area: 2938
Amount: 0.002322
Amount Units: ug/ml



Reviewer: UJM0, 15-Jun-2023 06:50:58 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

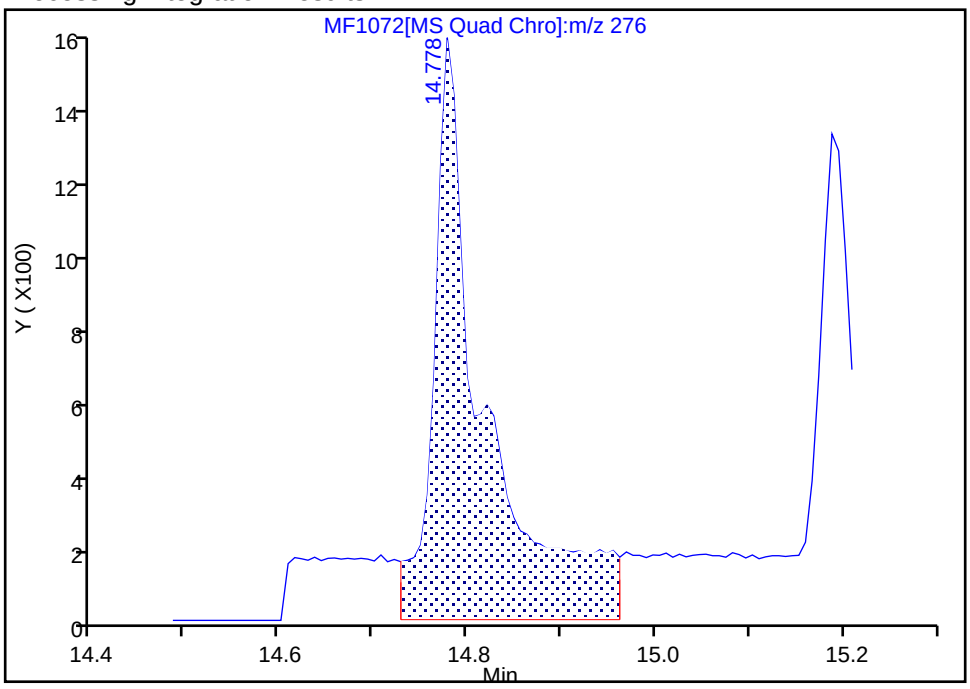
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1072.D				
Injection Date:	15-Jun-2023 06:21:41	Instrument ID:	HP21585		
Lims ID:	MB 410-386349/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

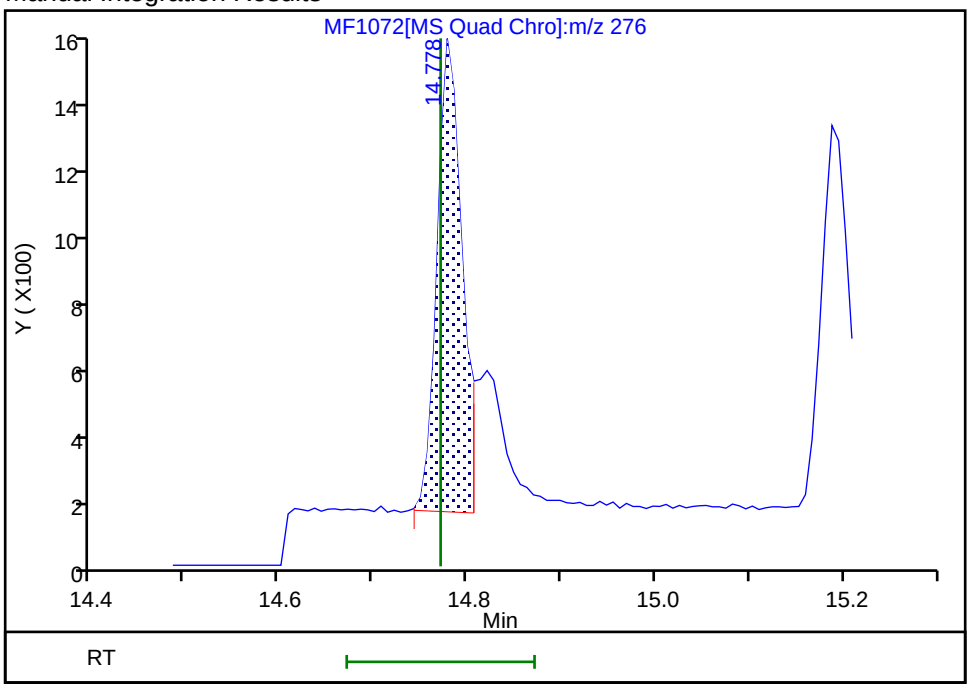
Processing Integration Results

RT: 14.78
Area: 5782
Amount: 0.005492
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 2524
Amount: 0.002397
Amount Units: ug/ml



Reviewer: UJM0, 15-Jun-2023 06:51:10 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-386902/1-A

Matrix: Water
Lab File ID: MF1152.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 250(mL)
Date Analyzed: 06/16/2023 05:45

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	ND		0.070	0.030
85-01-8	Phenanthrene	ND		0.070	0.030
129-00-0	Pyrene	ND		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	83		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	72		33-120
93951-69-0	Fluoranthene-d10 (Surr)	85		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1152.D
Lims ID: MB 410-386902/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Jun-2023 05:45:52 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-386902/1-A
Misc. Info.: 410-0086777-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 16:35:43 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: UJM0 Date: 16-Jun-2023 07:22:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	97	72967	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	252271	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	96	111093	0.2500	0.1809	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	92	146555	0.2500	0.2500	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	96	287150	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	279067	0.2500	0.2126	
* 29 Chrysene-d12	240	11.380	11.372	0.008	55	272177	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.128	0.000	100	223532	0.2500	0.2087	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	291305	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

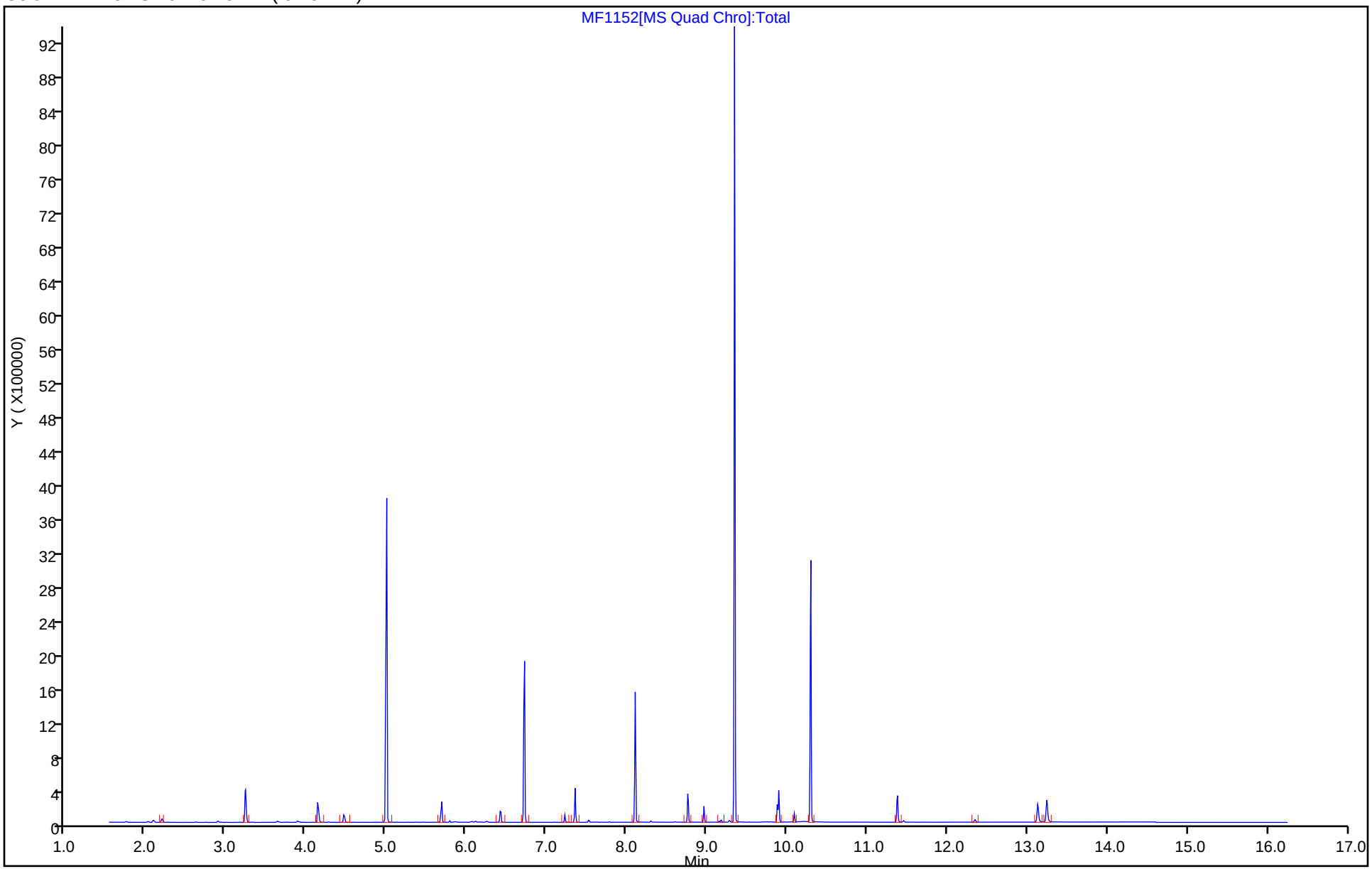
Report Date: 19-Jun-2023 10:44:27 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1152.D

Injection Date:	16-Jun-2023 05:45:52	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	MB 410-386902/1-A			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1152.D
Lims ID: MB 410-386902/1-A
Client ID:
Sample Type: MB
Inject. Date: 16-Jun-2023 05:45:52 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-386902/1-A
Misc. Info.: 410-0086777-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 16:35:43 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: UJM0 Date: 16-Jun-2023 07:22:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1809	72.35
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2126	85.05
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2087	83.47

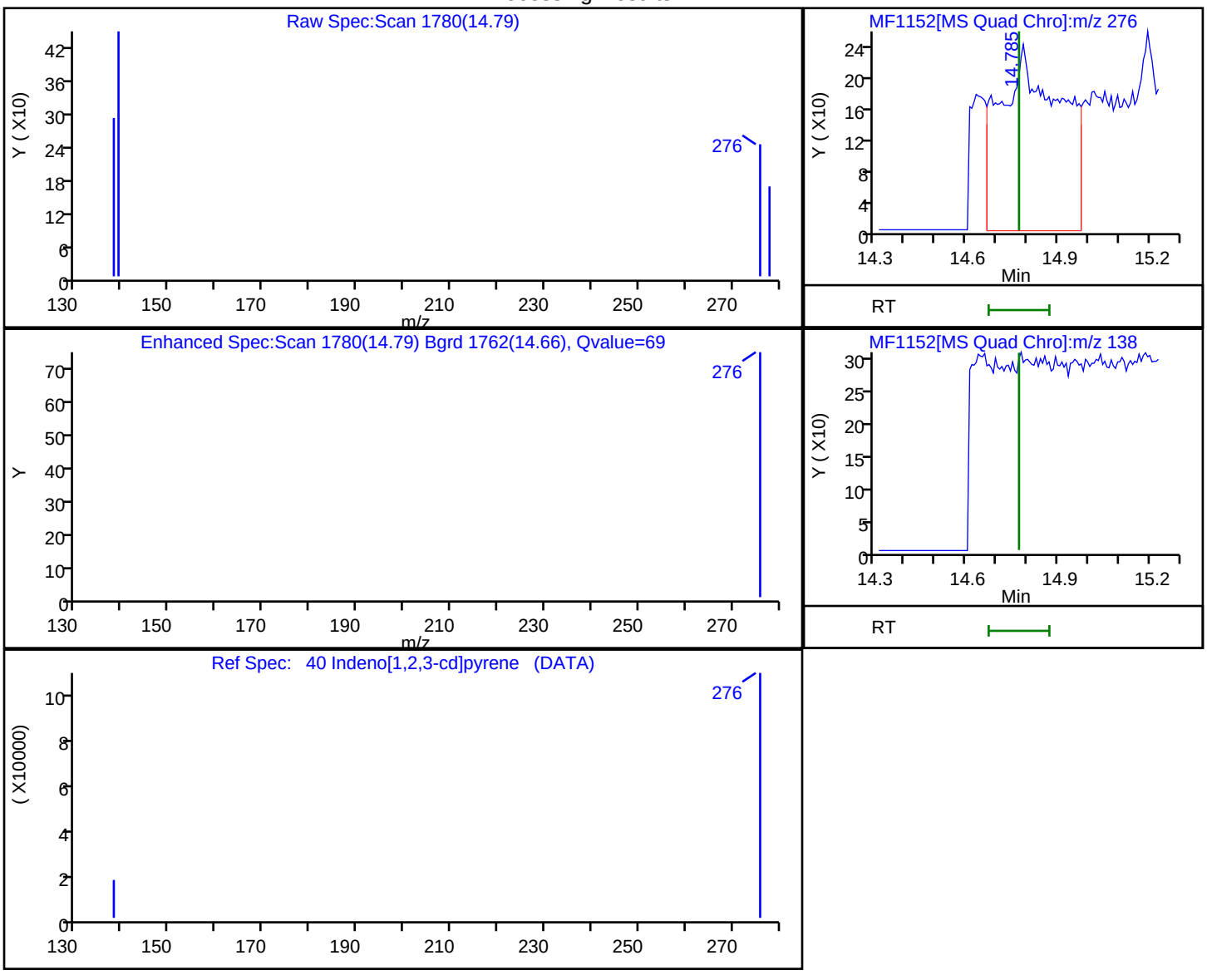
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1152.D				
Injection Date:	16-Jun-2023 05:45:52	Instrument ID:	HP21585		
Lims ID:	MB 410-386902/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Processing Results



RT	Mass	Response	Amount
14.79	276.00	3264	0.002549
14.77	138.00	0	

Reviewer: UJM0, 16-Jun-2023 07:22:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-386349/2-A

Matrix: Water
Lab File ID: MF1073.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 250(mL)
Date Analyzed: 06/15/2023 06:43

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.756		0.050	0.010
208-96-8	Acenaphthylene	0.825		0.050	0.010
120-12-7	Anthracene	0.857		0.050	0.010
56-55-3	Benzo[a]anthracene	0.840		0.050	0.010
50-32-8	Benzo[a]pyrene	0.873		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.888		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.821		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.883		0.050	0.010
218-01-9	Chrysene	0.768		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.791		0.050	0.020
206-44-0	Fluoranthene	0.832		0.050	0.010
86-73-7	Fluorene	0.783		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.849		0.050	0.020
91-20-3	Naphthalene	0.792		0.070	0.030
85-01-8	Phenanthrene	0.795		0.070	0.030
129-00-0	Pyrene	0.742		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	78		33-120
93951-69-0	Fluoranthene-d10 (Surr)	81		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1073.D
Lims ID: LCS 410-386349/2-A
Client ID:
Sample Type: LCS
Inject. Date: 15-Jun-2023 06:43:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-386349/2-A
Misc. Info.: 410-0086657-004
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 15-Jun-2023 07:04:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	99	52685	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	23	185432	0.2500	0.2500	a
6 Naphthalene	128	5.704	5.716	0.000	93	170563	0.2500	0.1980	M
$ 9 1-Methylnaphthalene-d10	152	6.429	6.429	0.000	96	87500	0.2500	0.1938	
12 Acenaphthylene	152	7.217	7.217	0.000	98	179775	0.2500	0.2062	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	90	116641	0.2500	0.2500	
14 Acenaphthene	154	7.384	7.384	0.000	86	106793	0.2500	0.1890	
17 Fluorene	166	7.871	7.871	0.000	100	141297	0.2500	0.1958	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	231052	0.2500	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	228222	0.2500	0.1987	
22 Anthracene	178	8.831	8.831	0.000	100	213618	0.2500	0.2142	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	214153	0.2500	0.2028	
25 Fluoranthene	202	9.915	9.915	0.000	100	267867	0.2500	0.2079	
26 Pyrene	202	10.122	10.128	-0.006	98	273971	0.2500	0.1854	
28 Benzo[a]anthracene	228	11.357	11.357	-0.007	100	252853	0.2500	0.2099	
* 29 Chrysene-d12	240	11.372	11.372	0.000	64	230079	0.2500	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	281324	0.2500	0.1920	
33 Benzo[b]fluoranthene	252	12.714	12.722	-0.008	100	270124	0.2500	0.2219	
34 Benzo[k]fluoranthene	252	12.753	12.753	0.000	100	286459	0.2500	0.2207	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	-0.001	100	180439	0.2500	0.2130	
37 Benzo[a]pyrene	252	13.159	13.159	0.000	100	240320	0.2500	0.2182	
* 38 Perylene-d12	264	13.236	13.244	-0.008	100	230353	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	99	214832	0.2500	0.2121	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	95	230778	0.2500	0.1977	
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	264802	0.2500	0.2053	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

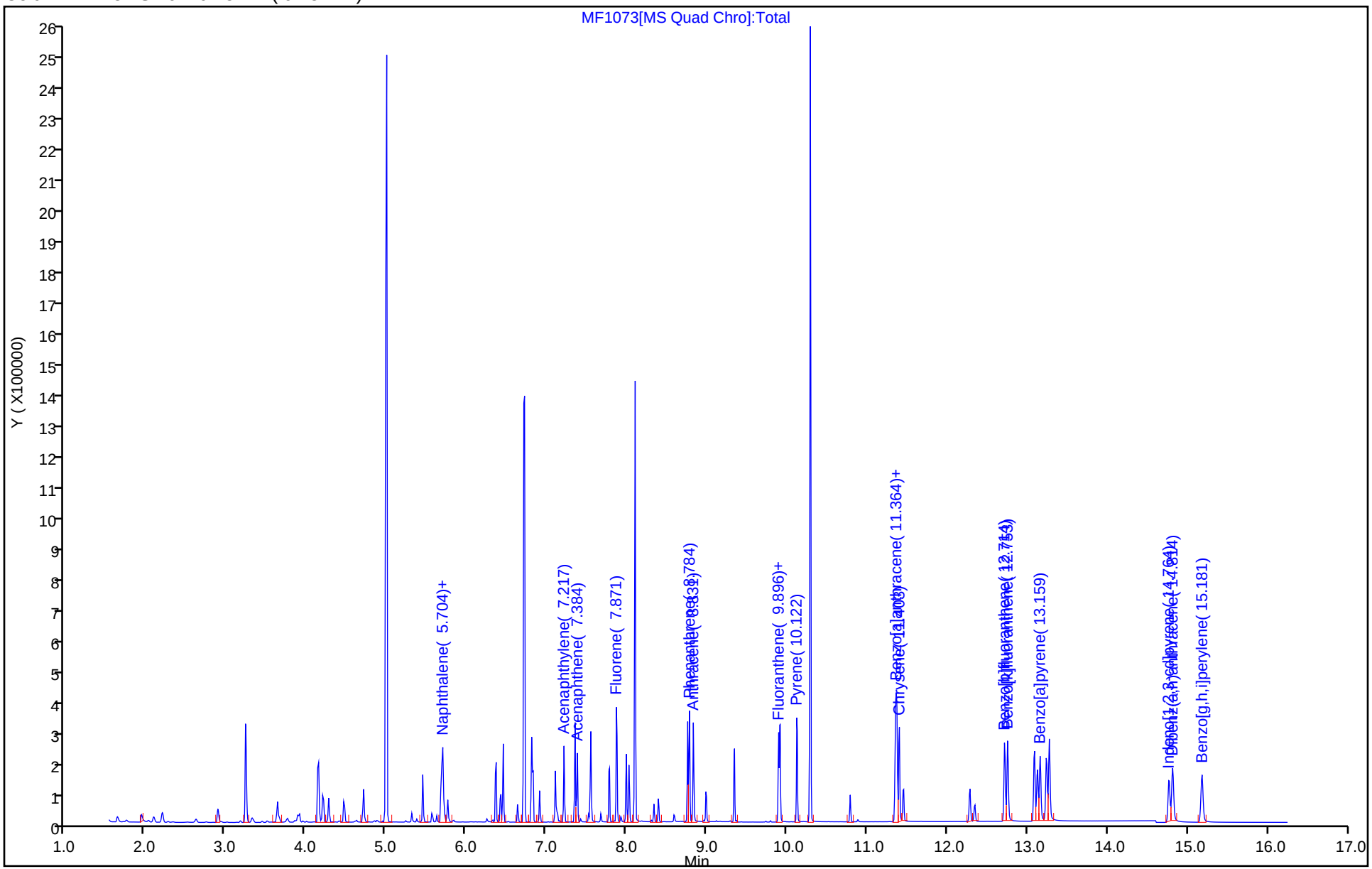
Report Date: 16-Jun-2023 03:31:03 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1073.D

Injection Date:	15-Jun-2023 06:43:00	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	LCS 410-386349/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1073.D
Lims ID: LCS 410-386349/2-A
Client ID:
Sample Type: LCS
Inject. Date: 15-Jun-2023 06:43:00 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-386349/2-A
Misc. Info.: 410-0086657-004
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 15-Jun-2023 07:04:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1938	77.52
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2028	81.11
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2130	85.21

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

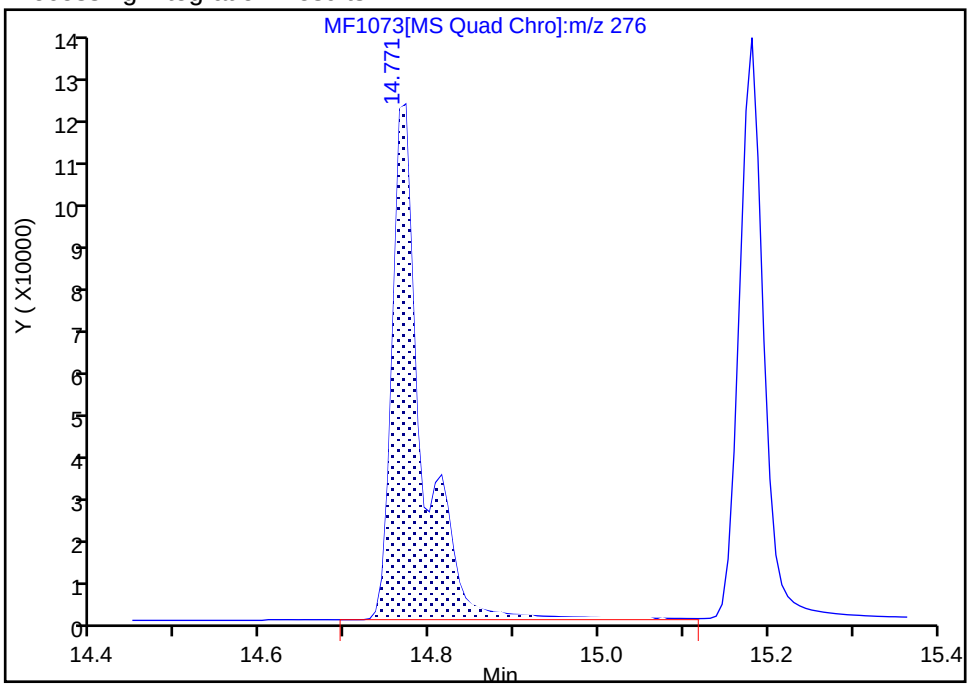
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1073.D				
Injection Date:	15-Jun-2023 06:43:00	Instrument ID:	HP21585		
Lims ID:	LCS 410-386349/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

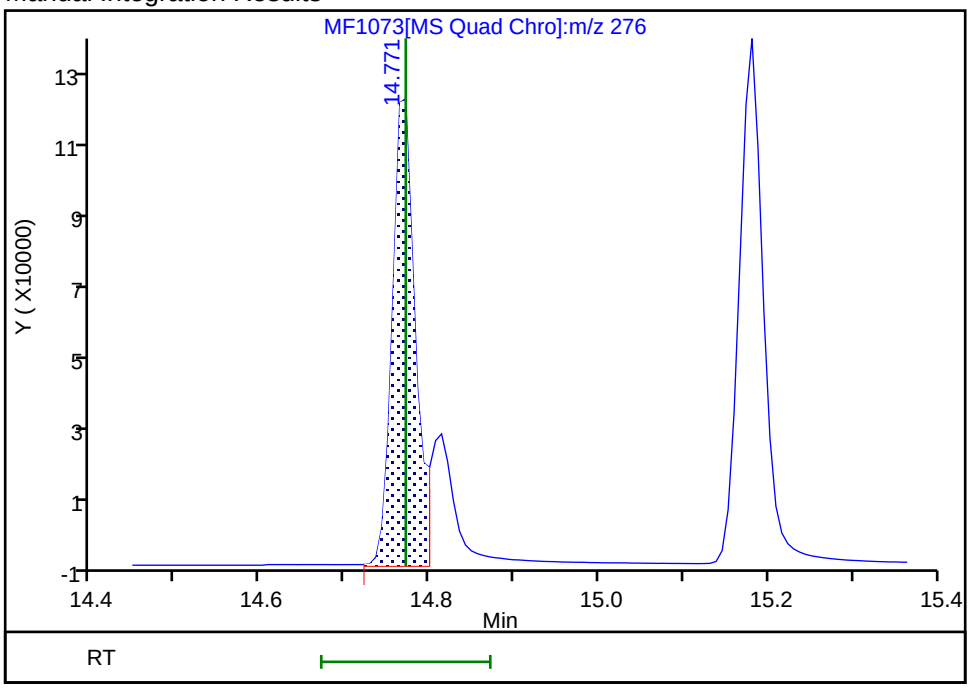
Processing Integration Results

RT: 14.77
Area: 286276
Amount: 0.282674
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 214832
Amount: 0.212129
Amount Units: ug/ml



Reviewer: UJM0, 15-Jun-2023 07:04:33 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

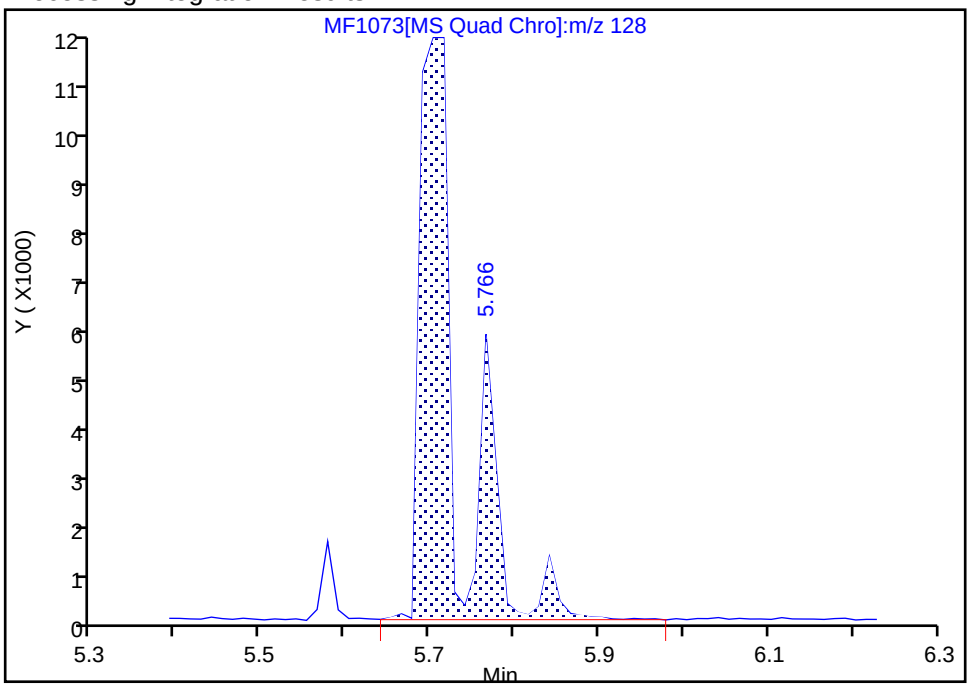
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1073.D				
Injection Date:	15-Jun-2023 06:43:00	Instrument ID:	HP21585		
Lims ID:	LCS 410-386349/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

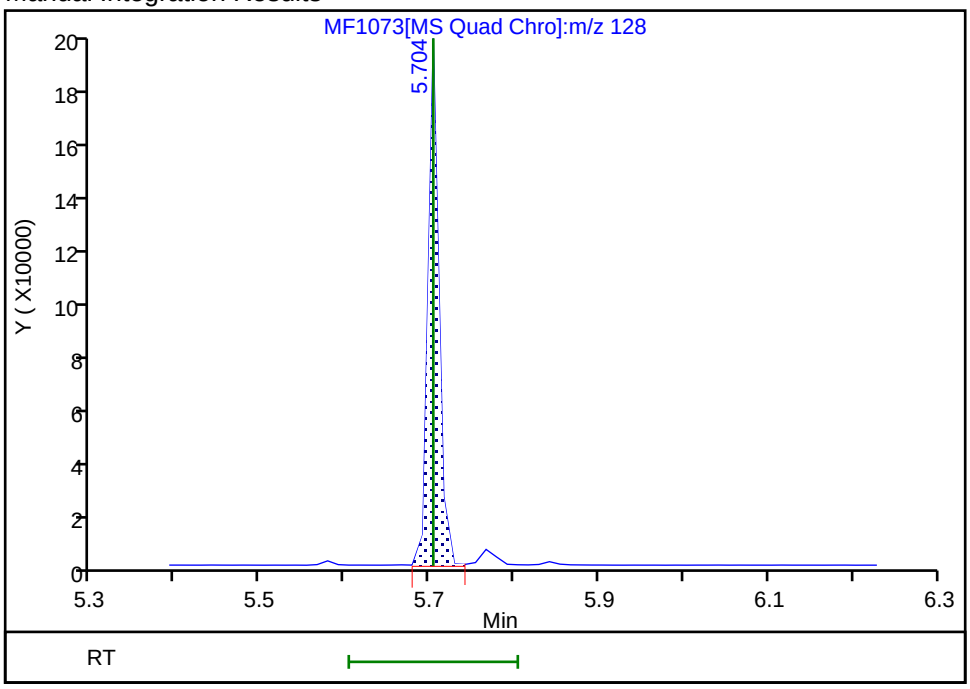
Processing Integration Results

RT: 5.77
Area: 180251
Amount: 0.209211
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 170563
Amount: 0.197966
Amount Units: ug/ml



Reviewer: UJM0, 15-Jun-2023 07:04:13 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

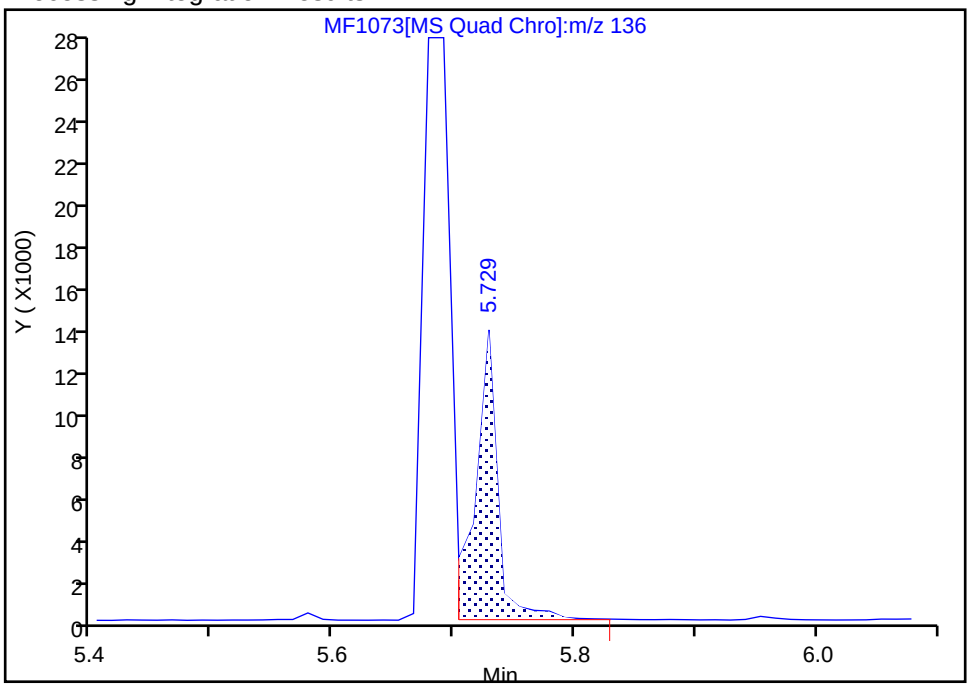
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1073.D				
Injection Date:	15-Jun-2023 06:43:00	Instrument ID:	HP21585		
Lims ID:	LCS 410-386349/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

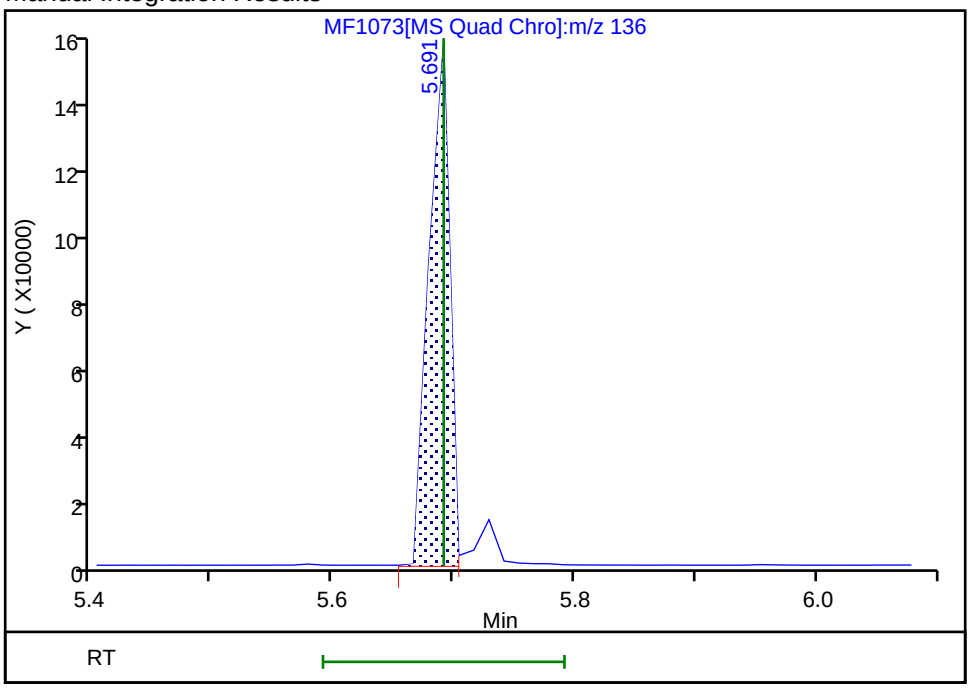
Processing Integration Results

RT: 5.73
Area: 16602
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 5.69
Area: 185432
Amount: 0.250000
Amount Units: ug/ml



Reviewer: UJM0, 15-Jun-2023 07:03:57 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-386902/2-A

Matrix: Water
Lab File ID: MF1153.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 250(mL)
Date Analyzed: 06/16/2023 06:07

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.818		0.050	0.010
208-96-8	Acenaphthylene	0.873		0.050	0.010
120-12-7	Anthracene	0.901		0.050	0.010
56-55-3	Benzo[a]anthracene	0.865		0.050	0.010
50-32-8	Benzo[a]pyrene	0.914		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.895		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.799		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.912		0.050	0.010
218-01-9	Chrysene	0.805		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.836		0.050	0.020
206-44-0	Fluoranthene	0.877		0.050	0.010
86-73-7	Fluorene	0.866		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.849		0.050	0.020
91-20-3	Naphthalene	0.862		0.070	0.030
85-01-8	Phenanthrene	0.840		0.070	0.030
129-00-0	Pyrene	0.810		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	84		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		33-120
93951-69-0	Fluoranthene-d10 (Surr)	82		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1153.D
Lims ID: LCS 410-386902/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Jun-2023 06:07:11 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-386902/2-A
Misc. Info.: 410-0086777-004
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 16:35:43 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: UJM0 Date: 16-Jun-2023 07:25:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.479	4.479	0.000	90	65351	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	59	217578	0.2500	0.2500	
6 Naphthalene	128	5.704	5.704	0.000	92	217874	0.2500	0.2155	
8 2-Methylnaphthalene	142	6.360	6.370	-0.010	97	132845	0.2500	0.1962	
$ 9 1-Methylnaphthalene-d10	152	6.419	6.429	-0.010	96	101843	0.2500	0.1922	
12 Acenaphthylene	152	7.217	7.217	0.000	96	218060	0.2500	0.2182	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	133681	0.2500	0.2500	
14 Acenaphthene	154	7.384	7.384	0.000	86	132489	0.2500	0.2046	
17 Fluorene	166	7.871	7.871	0.000	98	179028	0.2500	0.2165	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	261429	0.2500	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	272797	0.2500	0.2099	
22 Anthracene	178	8.831	8.831	0.000	100	254215	0.2500	0.2253	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	244563	0.2500	0.2047	
25 Fluoranthene	202	9.915	9.915	0.000	100	319773	0.2500	0.2194	
26 Pyrene	202	10.128	10.128	0.000	98	326692	0.2500	0.2024	
28 Benzo[a]anthracene	228	11.364	11.364	-0.001	100	284426	0.2500	0.2162	
* 29 Chrysene-d12	240	11.372	11.372	0.000	68	251324	0.2500	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	322098	0.2500	0.2012	
33 Benzo[b]fluoranthene	252	12.714	12.722	-0.008	100	312505	0.2500	0.2237	
34 Benzo[k]fluoranthene	252	12.753	12.760	-0.007	100	339697	0.2500	0.2280	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	204746	0.2500	0.2106	
37 Benzo[a]pyrene	252	13.159	13.159	0.000	100	288949	0.2500	0.2285	
* 38 Perylene-d12	264	13.244	13.244	0.000	100	264424	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.771	0.000	99	246613	0.2500	0.2121	M
41 Dibenz(a,h)anthracene	278	14.814	14.813	0.000	97	280082	0.2500	0.2090	
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	295984	0.2500	0.1999	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

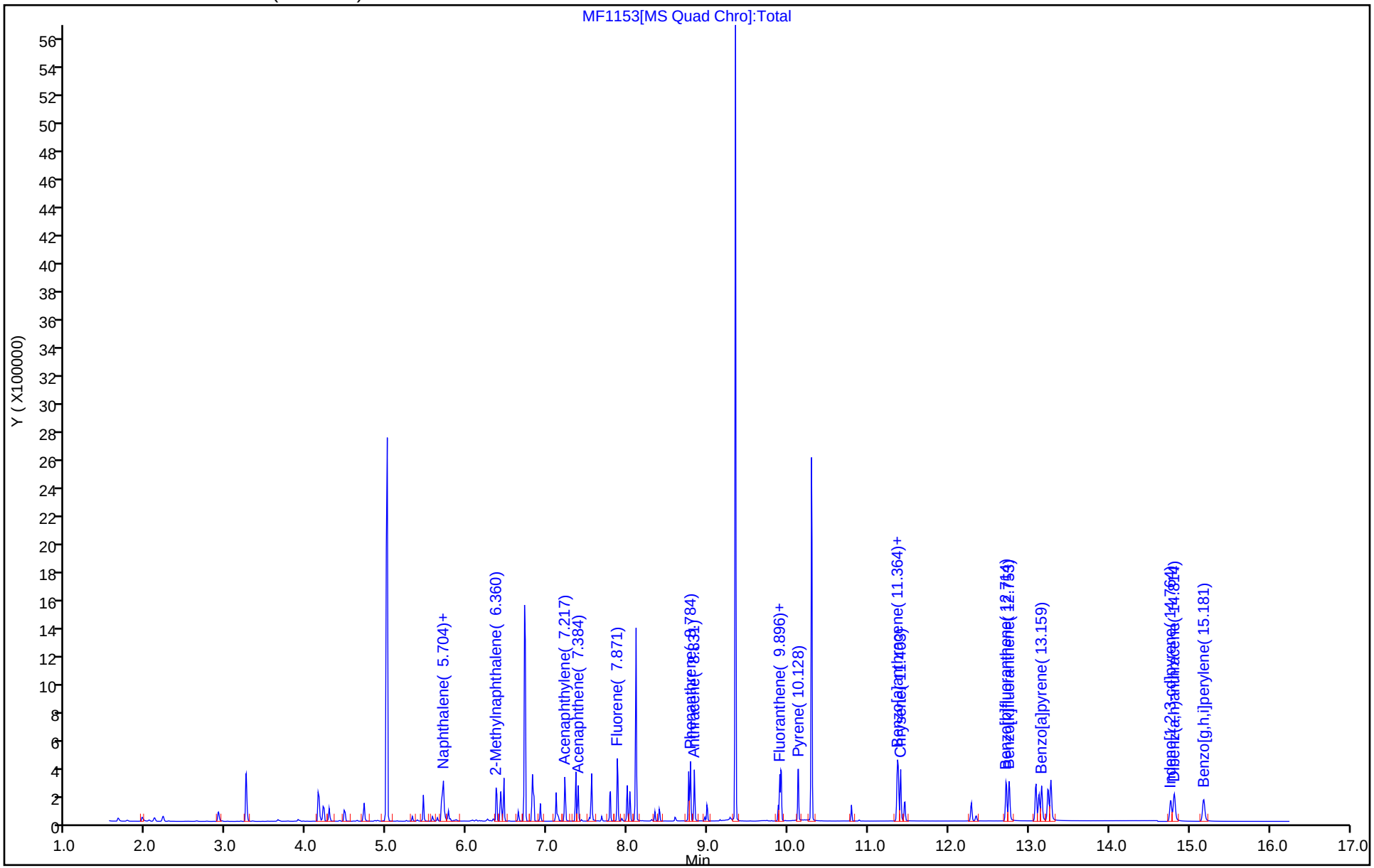
Report Date: 19-Jun-2023 10:44:28 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1153.D

Injection Date:	16-Jun-2023 06:07:11	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	LCS 410-386902/2-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1153.D
Lims ID: LCS 410-386902/2-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Jun-2023 06:07:11 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-386902/2-A
Misc. Info.: 410-0086777-004
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 16:35:43 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: UJM0 Date: 16-Jun-2023 07:25:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1922	76.90
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2047	81.86
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2106	84.23

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

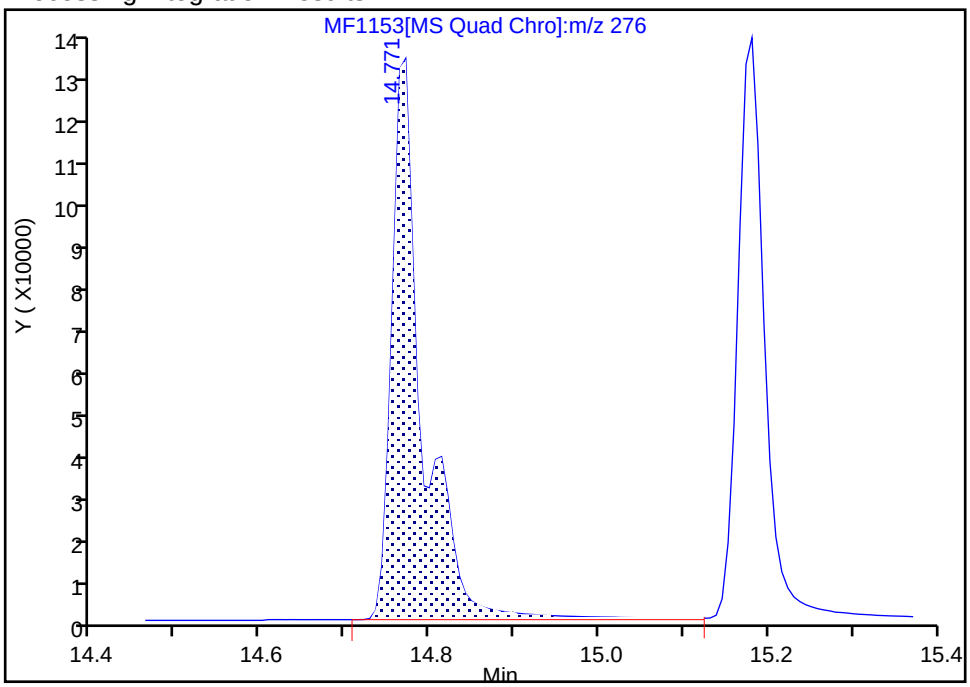
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1153.D				
Injection Date:	16-Jun-2023 06:07:11	Instrument ID:	HP21585		
Lims ID:	LCS 410-386902/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

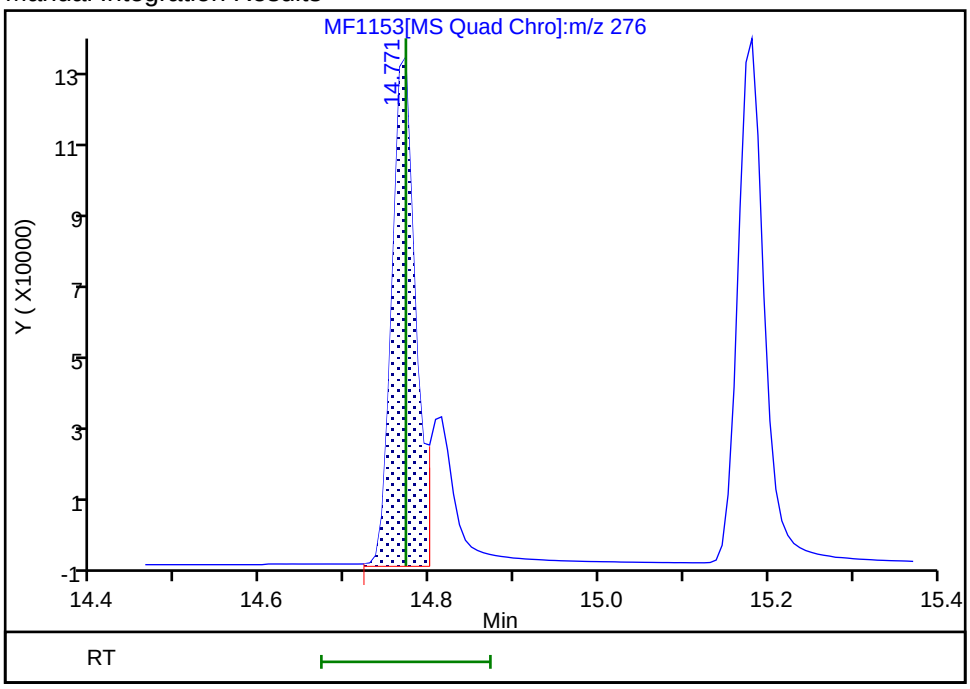
Processing Integration Results

RT: 14.77
Area: 330660
Amount: 0.284430
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 246613
Amount: 0.212134
Amount Units: ug/ml



Reviewer: UJM0, 16-Jun-2023 07:25:07 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-386349/3-A

Matrix: Water
Lab File ID: MF1074.D

Analysis Method: 8270E SIM
Date Collected:

Extract. Method: 3510C
Date Extracted: 06/14/2023 08:02

Sample wt/vol: 250(mL)
Date Analyzed: 06/15/2023 07:04

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 386832
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.811		0.050	0.010
208-96-8	Acenaphthylene	0.896		0.050	0.010
120-12-7	Anthracene	0.972		0.050	0.010
56-55-3	Benzo[a]anthracene	0.944		0.050	0.010
50-32-8	Benzo[a]pyrene	0.981		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.995		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.877		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.976		0.050	0.010
218-01-9	Chrysene	0.844		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.864		0.050	0.020
206-44-0	Fluoranthene	0.949		0.050	0.010
86-73-7	Fluorene	0.869		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.881		0.050	0.020
91-20-3	Naphthalene	0.870		0.070	0.030
85-01-8	Phenanthrene	0.898		0.070	0.030
129-00-0	Pyrene	0.819		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	94		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		33-120
93951-69-0	Fluoranthene-d10 (Surr)	91		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1074.D
Lims ID: LCSD 410-386349/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 15-Jun-2023 07:04:22 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-386349/3-A
Misc. Info.: 410-0086657-005
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 15-Jun-2023 08:01:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	87	53665	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.692	5.691	0.001	90	189688	0.2500	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	93	191727	0.2500	0.2175	
$ 9 1-Methylnaphthalene-d10	152	6.420	6.429	-0.009	99	95071	0.2500	0.2058	
12 Acenaphthylene	152	7.217	7.217	0.000	98	201273	0.2500	0.2240	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	120189	0.2500	0.2500	
14 Acenaphthene	154	7.385	7.384	0.001	85	118029	0.2500	0.2027	
17 Fluorene	166	7.871	7.871	0.000	99	161485	0.2500	0.2172	
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	95	241091	0.2500	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	269175	0.2500	0.2246	
22 Anthracene	178	8.831	8.831	0.000	100	252875	0.2500	0.2430	
$ 24 Fluoranthene-d10 (Surr)	212	9.897	9.896	0.001	98	252032	0.2500	0.2287	
25 Fluoranthene	202	9.909	9.915	-0.006	100	318838	0.2500	0.2372	
26 Pyrene	202	10.122	10.128	-0.006	98	332303	0.2500	0.2048	
28 Benzo[a]anthracene	228	11.357	11.357	-0.007	100	312088	0.2500	0.2359	
* 29 Chrysene-d12	240	11.373	11.372	0.001	64	252691	0.2500	0.2500	
30 Chrysene	228	11.403	11.403	0.000	100	339684	0.2500	0.2111	
33 Benzo[b]fluoranthene	252	12.715	12.722	-0.007	100	333359	0.2500	0.2487	
34 Benzo[k]fluoranthene	252	12.753	12.753	0.000	100	348752	0.2500	0.2439	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.129	0.000	99	219403	0.2500	0.2352	
37 Benzo[a]pyrene	252	13.160	13.159	0.001	100	297475	0.2500	0.2452	
* 38 Perylene-d12	264	13.236	13.244	-0.008	100	253710	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.765	14.778	-0.006	99	245783	0.2500	0.2203	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	94	277585	0.2500	0.2159	
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	311428	0.2500	0.2192	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

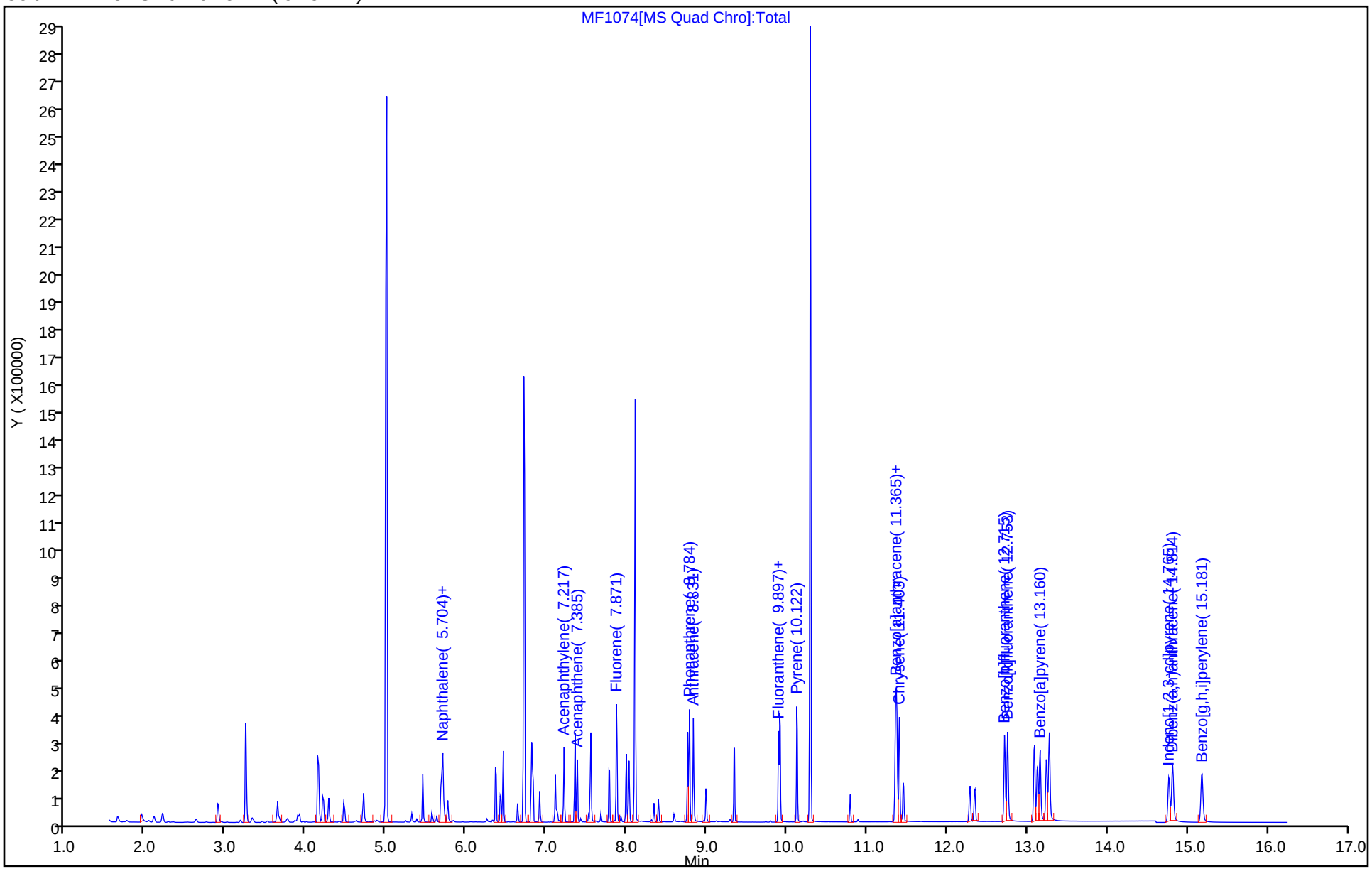
Report Date: 16-Jun-2023 03:31:04 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1074.D

Injection Date:	15-Jun-2023 07:04:22	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	LCSD 410-386349/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1074.D
Lims ID: LCSD 410-386349/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 15-Jun-2023 07:04:22 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-386349/3-A
Misc. Info.: 410-0086657-005
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Jun-2023 03:30:30 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: UJM0 Date: 15-Jun-2023 08:01:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.2058	82.34
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.2287	91.48
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.2352	94.07

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

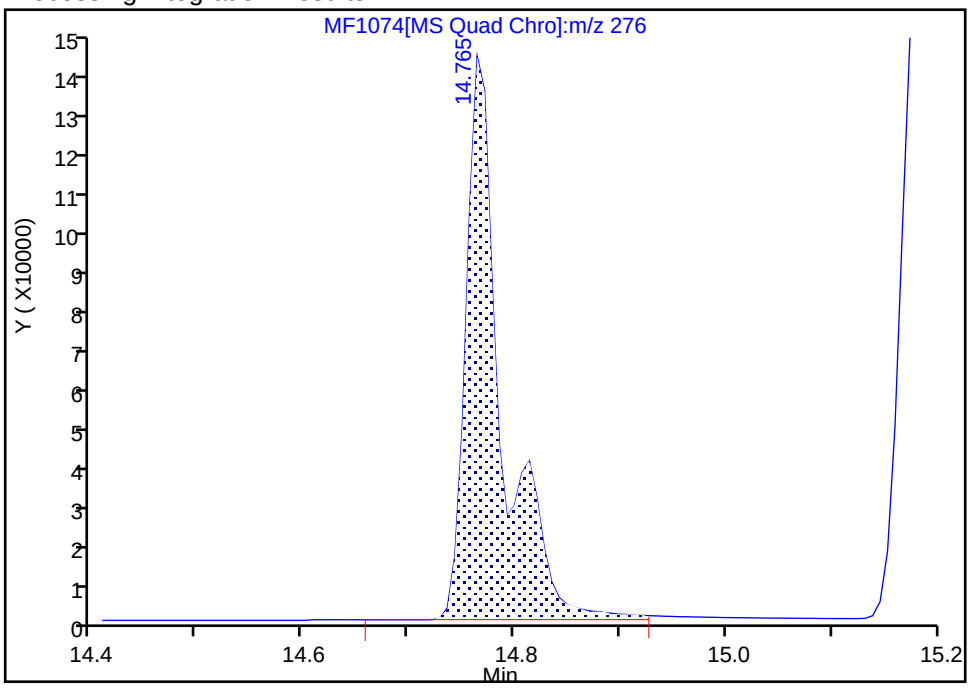
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230615-86657.b\MF1074.D				
Injection Date:	15-Jun-2023 07:04:22	Instrument ID:	HP21585		
Lims ID:	LCSD 410-386349/3-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

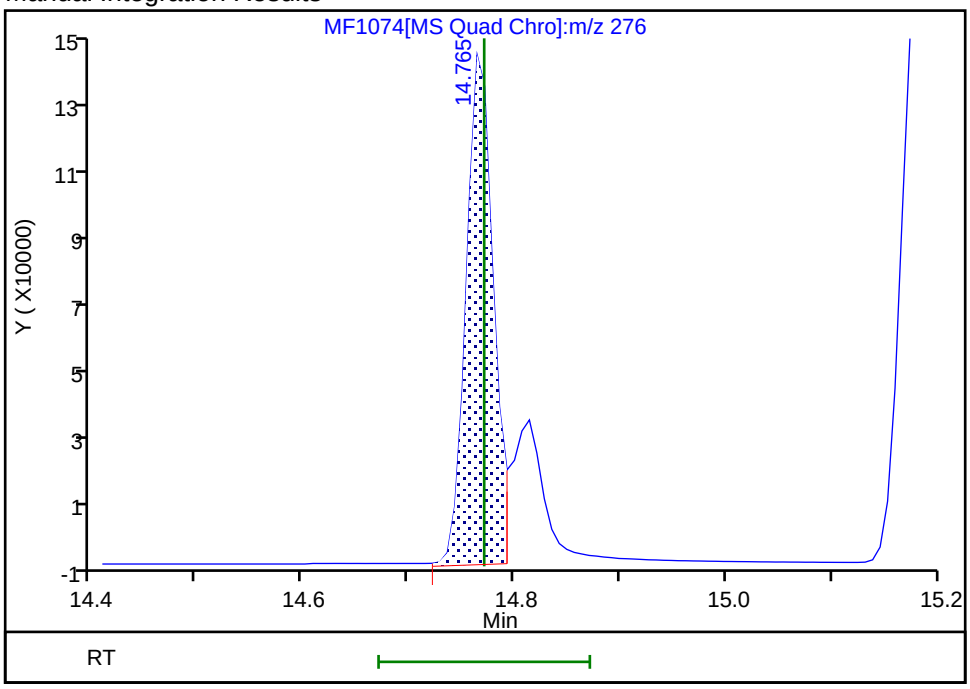
Processing Integration Results

RT: 14.76
Area: 332010
Amount: 0.297652
Amount Units: ug/ml



Manual Integration Results

RT: 14.76
Area: 245783
Amount: 0.220348
Amount Units: ug/ml



Reviewer: UJM0, 15-Jun-2023 08:01:11 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-7S-20230608 MS
Lab Sample ID: 410-130132-11 MS

Matrix: Water
Lab File ID: MF1170.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 12:53

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 239.9(mL)
Date Analyzed: 06/16/2023 12:11

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.902		0.052	0.010
208-96-8	Acenaphthylene	0.914		0.052	0.010
120-12-7	Anthracene	0.963		0.052	0.010
56-55-3	Benzo[a]anthracene	0.843		0.052	0.010
50-32-8	Benzo[a]pyrene	0.691		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.733		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.541		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.742		0.052	0.010
218-01-9	Chrysene	0.691		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.624		0.052	0.021
206-44-0	Fluoranthene	0.893		0.052	0.010
86-73-7	Fluorene	0.838		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.603		0.052	0.021
91-20-3	Naphthalene	0.962		0.073	0.031
85-01-8	Phenanthrene	0.837		0.073	0.031
129-00-0	Pyrene	0.828		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	62		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		33-120
93951-69-0	Fluoranthene-d10 (Surr)	78		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1170.D
Lims ID: 410-130132-D-11-A MS
Client ID: MW-7S-20230608
Sample Type: MS
Inject. Date: 16-Jun-2023 12:11:31 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-11-A MS
Misc. Info.: 410-0086777-021
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:10:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	100	81561	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	91	267376	0.2500	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	93	286766	0.2500	0.2308	M
$ 9 1-Methylnaphthalene-d10	152	6.419	6.419	-0.010	96	122975	0.2500	0.1889	
12 Acenaphthylene	152	7.217	7.217	0.000	96	272061	0.2500	0.2194	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	165913	0.2500	0.2500	
14 Acenaphthene	154	7.384	7.385	0.000	86	173884	0.2500	0.2163	
17 Fluorene	166	7.871	7.871	0.000	98	206337	0.2500	0.2010	M
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	97	322650	0.2500	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	321960	0.2500	0.2007	
22 Anthracene	178	8.831	8.831	0.000	100	321661	0.2500	0.2310	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	288711	0.2500	0.1958	
25 Fluoranthene	202	9.909	9.915	-0.006	100	385264	0.2500	0.2141	
26 Pyrene	202	10.122	10.128	-0.006	99	406871	0.2500	0.1986	
28 Benzo[a]anthracene	228	11.357	11.372	-0.008	100	337994	0.2500	0.2024	
* 29 Chrysene-d12	240	11.372	11.372	0.000	64	319034	0.2500	0.2500	
30 Chrysene	228	11.403	11.388	0.000	100	336853	0.2500	0.1658	
33 Benzo[b]fluoranthene	252	12.714	12.722	-0.008	100	326158	0.2500	0.1759	
34 Benzo[k]fluoranthene	252	12.753	12.761	-0.007	100	351807	0.2500	0.1779	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.128	13.128	-0.001	100	198728	0.2500	0.1540	
37 Benzo[a]pyrene	252	13.159	13.167	0.000	100	278007	0.2500	0.1657	
* 38 Perylene-d12	264	13.236	13.244	-0.008	100	350816	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	100	222978	0.2500	0.1446	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	97	265969	0.2500	0.1496	
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	255133	0.2500	0.1299	

QC Flag Legend

Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

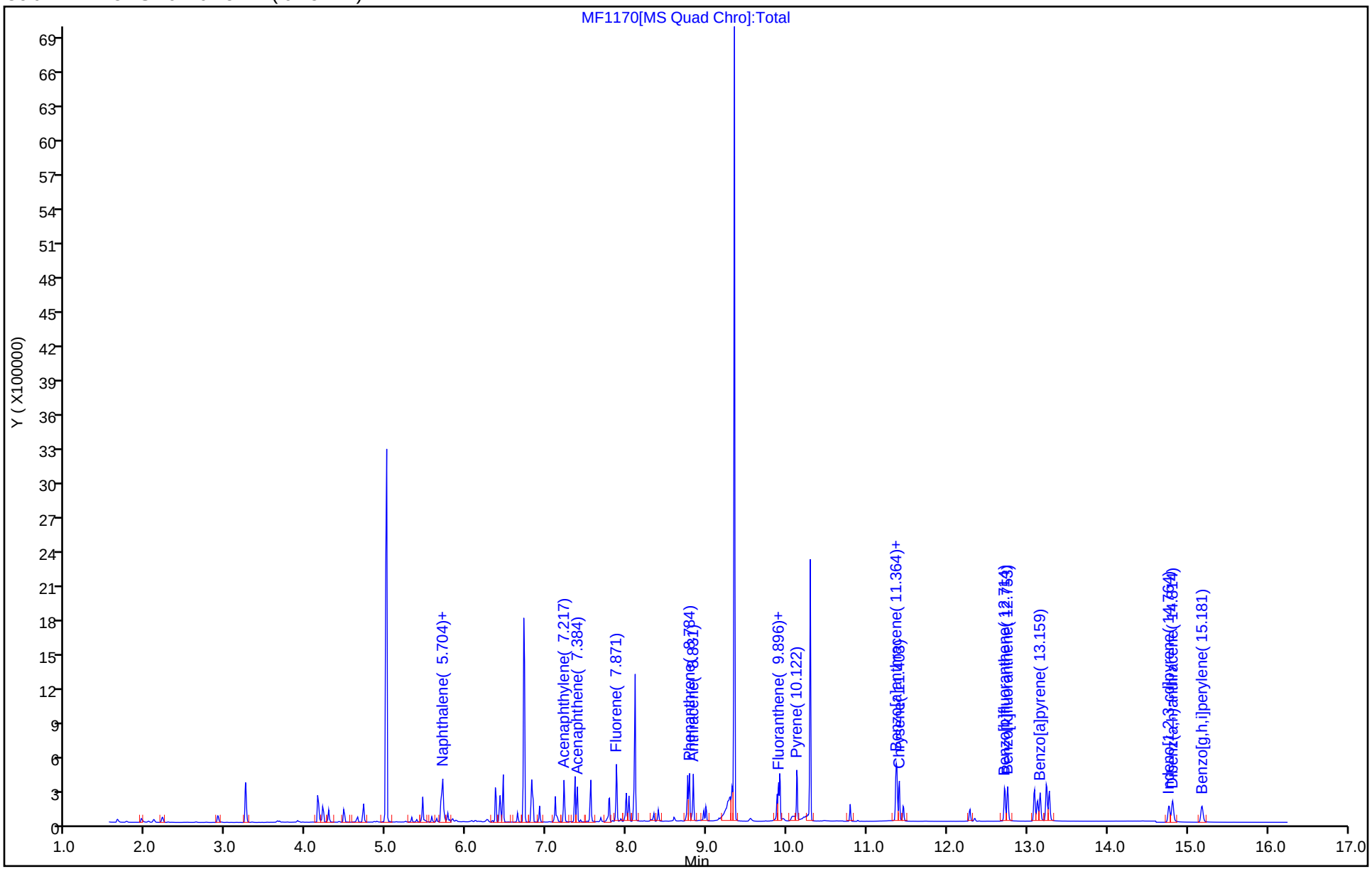
Report Date: 19-Jun-2023 12:32:46 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1170.D

Injection Date:	16-Jun-2023 12:11:31	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-11-A MS			Worklist Smp#:	21
Client ID:	MW-7S-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1170.D
Lims ID: 410-130132-D-11-A MS
Client ID: MW-7S-20230608
Sample Type: MS
Inject. Date: 16-Jun-2023 12:11:31 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-11-A MS
Misc. Info.: 410-0086777-021
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:10:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1889	75.56
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1958	78.30
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1540	61.62

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

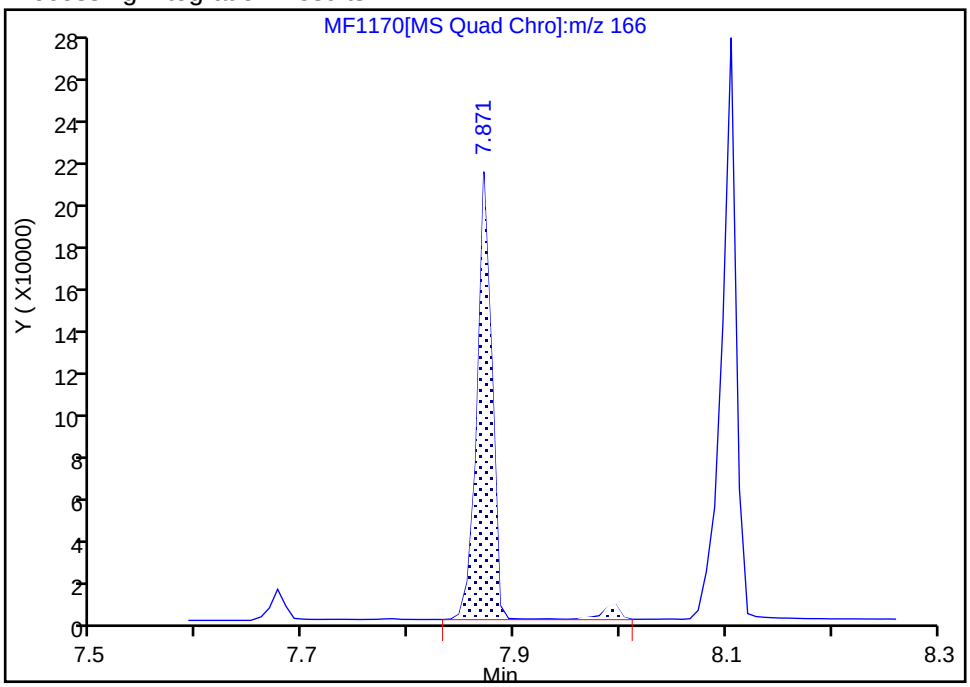
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1170.D				
Injection Date:	16-Jun-2023 12:11:31	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11-A MS				
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

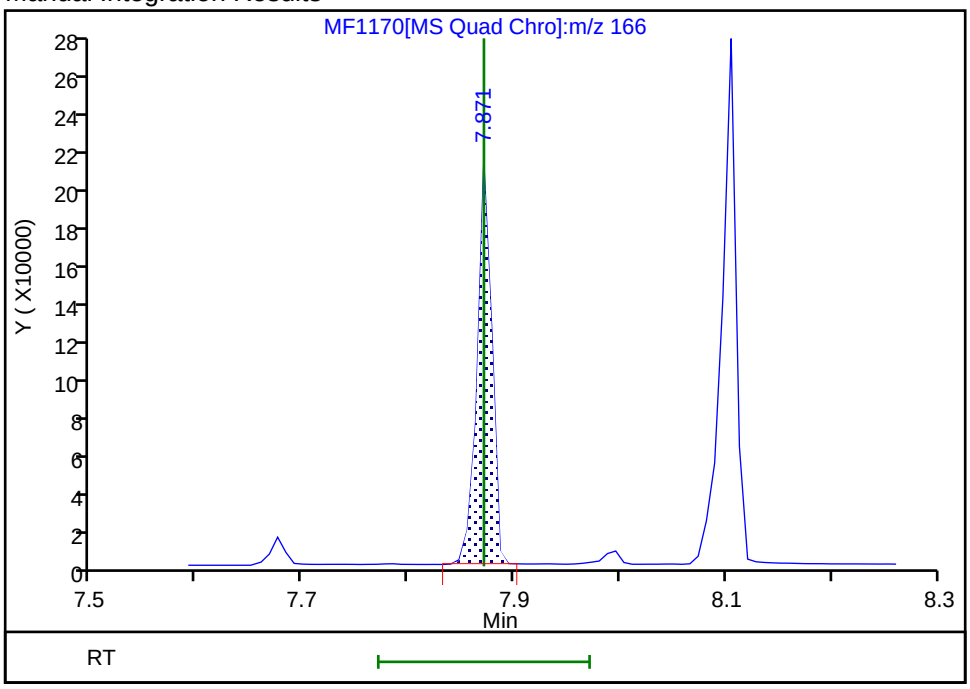
Processing Integration Results

RT: 7.87
Area: 215245
Amount: 0.209688
Amount Units: ug/ml



Manual Integration Results

RT: 7.87
Area: 206337
Amount: 0.201010
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:09:42 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

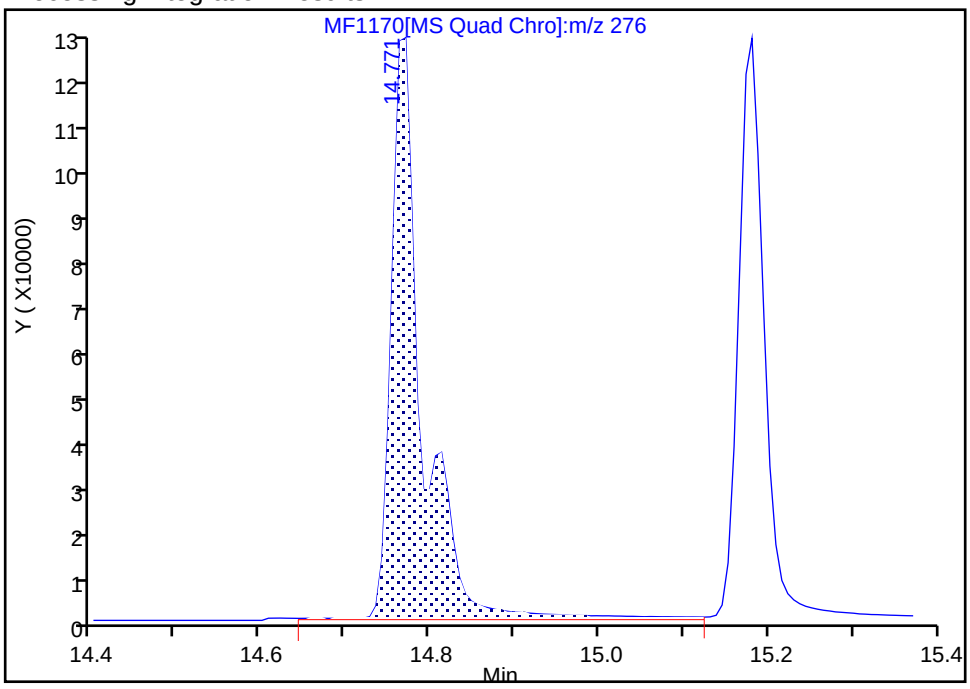
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1170.D				
Injection Date:	16-Jun-2023 12:11:31	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11-A MS				
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

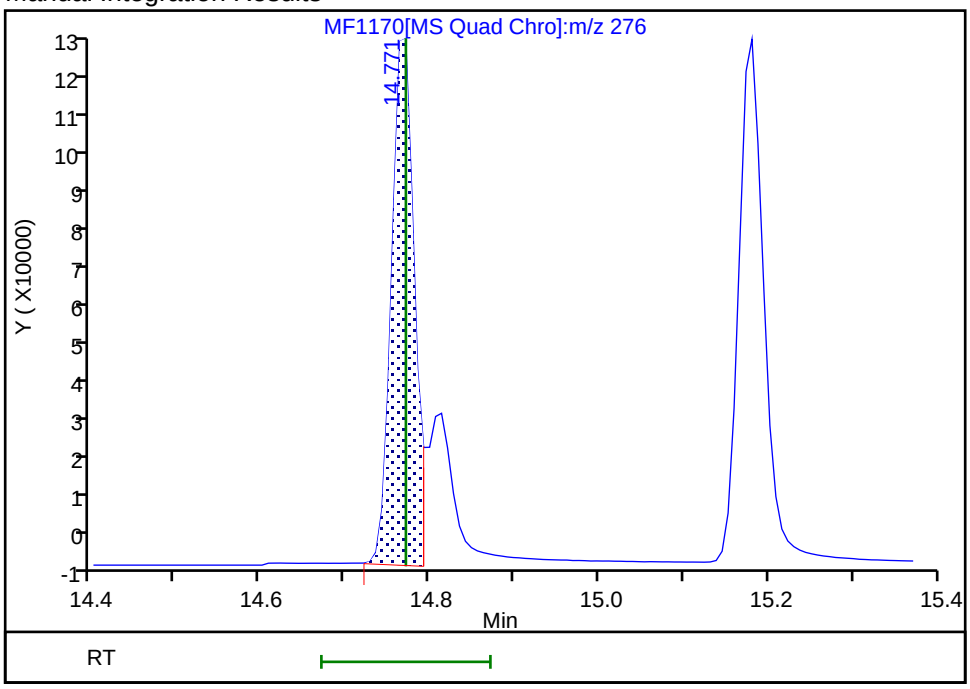
Processing Integration Results

RT: 14.77
Area: 318401
Amount: 0.206438
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 222978
Amount: 0.144570
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:09:58 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

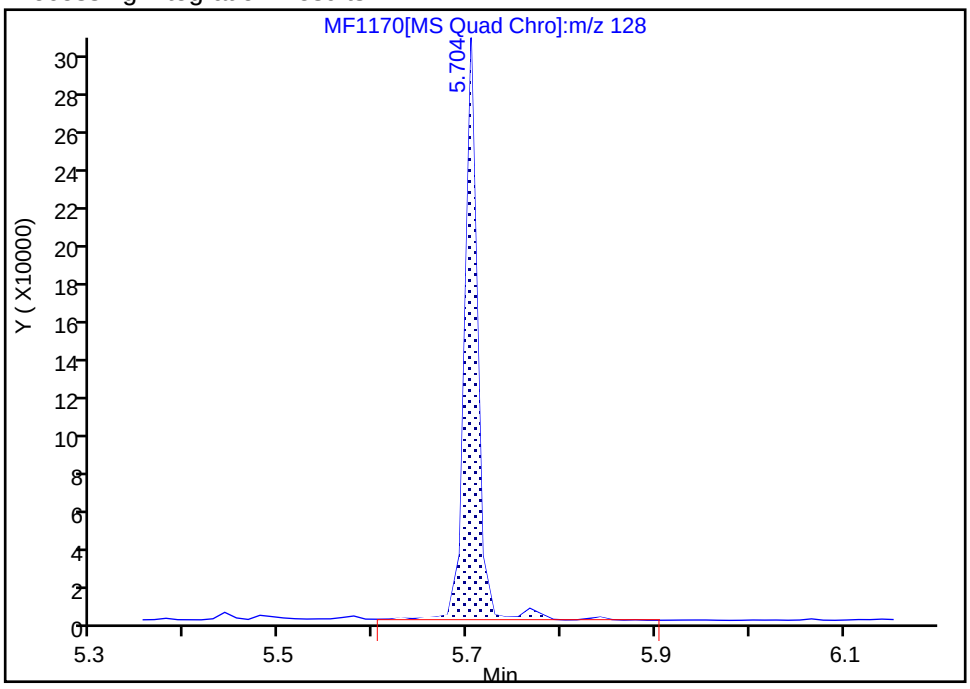
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1170.D				
Injection Date:	16-Jun-2023 12:11:31	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11-A MS				
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

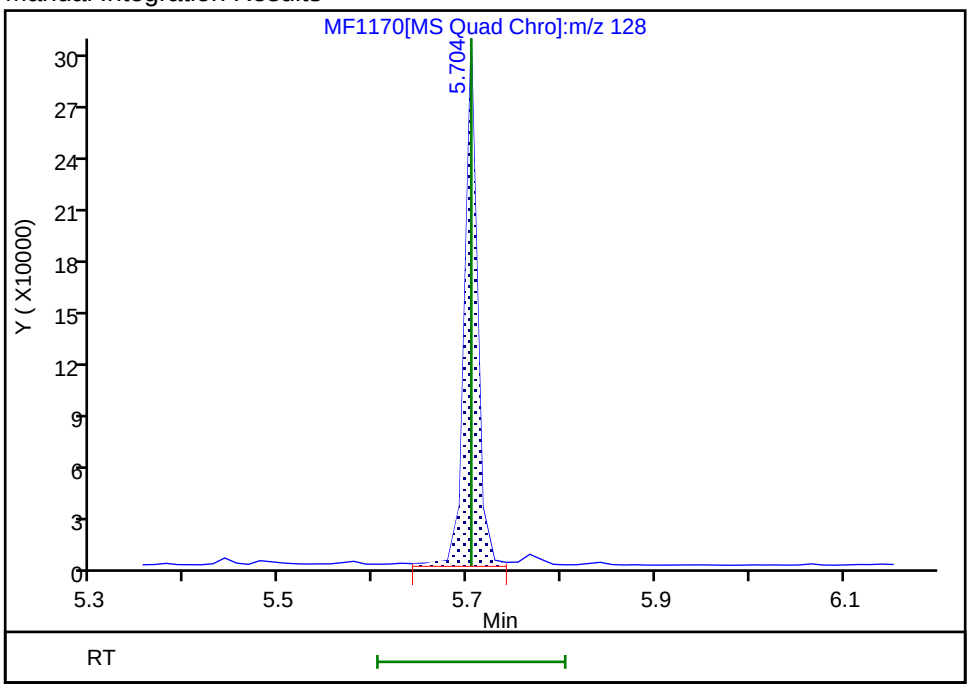
Processing Integration Results

RT: 5.70
Area: 300846
Amount: 0.242166
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 286766
Amount: 0.230832
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:09:34 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-130132-1

SDG No.:

Client Sample ID: MW-7S-20230608 MSD
Lab Sample ID: 410-130132-11 MSD

Matrix: Water
Lab File ID: MF1171.D

Analysis Method: 8270E SIM
Date Collected: 06/08/2023 12:53

Extract. Method: 3510C
Date Extracted: 06/15/2023 08:12

Sample wt/vol: 240.4(mL)
Date Analyzed: 06/16/2023 12:32

Con. Extract Vol.: 1.0(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 387377
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.771		0.052	0.010
208-96-8	Acenaphthylene	0.760		0.052	0.010
120-12-7	Anthracene	0.832		0.052	0.010
56-55-3	Benzo[a]anthracene	0.770		0.052	0.010
50-32-8	Benzo[a]pyrene	0.710		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.781		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.578		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.785		0.052	0.010
218-01-9	Chrysene	0.655		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.676		0.052	0.021
206-44-0	Fluoranthene	0.770		0.052	0.010
86-73-7	Fluorene	0.724		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.709		0.052	0.021
91-20-3	Naphthalene	0.821		0.073	0.031
85-01-8	Phenanthrene	0.714		0.073	0.031
129-00-0	Pyrene	0.709		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	63		17-120
38072-94-5	1-Methylnaphthalene-d10 (Surr)	65		33-120
93951-69-0	Fluoranthene-d10 (Surr)	68		43-124

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1171.D
Lims ID: 410-130132-D-11-B MSD
Client ID: MW-7S-20230608
Sample Type: MSD
Inject. Date: 16-Jun-2023 12:32:59 ALS Bottle#: 0 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-130132-D-11-B MSD
Misc. Info.: 410-0086777-022
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Jun-2023 12:32:09 Calib Date: 25-Apr-2023 08:11:13
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:10:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	4.467	4.479	-0.012	100	76367	0.2500	0.2500	
* 5 Naphthalene-d8	136	5.691	5.691	0.000	92	251385	0.2500	0.2500	
6 Naphthalene	128	5.704	5.716	0.000	93	230461	0.2500	0.1973	M
$ 9 1-Methylnaphthalene-d10	152	6.419	6.419	-0.010	96	100212	0.2500	0.1637	
12 Acenaphthylene	152	7.217	7.217	0.000	97	212620	0.2500	0.1827	
* 13 Acenaphthene-d10	164	7.355	7.355	0.000	89	155694	0.2500	0.2500	
14 Acenaphthene	154	7.384	7.385	0.000	90	139859	0.2500	0.1854	
17 Fluorene	166	7.871	7.871	0.000	98	167745	0.2500	0.1741	M
* 20 Phenanthrene-d10	188	8.761	8.761	0.000	98	308118	0.2500	0.2500	
21 Phenanthrene	178	8.784	8.784	0.000	100	262882	0.2500	0.1716	
22 Anthracene	178	8.831	8.831	0.000	100	265932	0.2500	0.1999	
$ 24 Fluoranthene-d10 (Surr)	212	9.896	9.896	0.000	98	241061	0.2500	0.1712	
25 Fluoranthene	202	9.915	9.915	0.000	100	318134	0.2500	0.1852	
26 Pyrene	202	10.128	10.128	0.000	98	340692	0.2500	0.1704	
28 Benzo[a]anthracene	228	11.357	11.372	-0.008	100	301636	0.2500	0.1850	
* 29 Chrysene-d12	240	11.372	11.372	0.000	64	311403	0.2500	0.2500	
30 Chrysene	228	11.403	11.388	0.000	100	312493	0.2500	0.1576	
33 Benzo[b]fluoranthene	252	12.714	12.722	-0.008	100	338042	0.2500	0.1878	
34 Benzo[k]fluoranthene	252	12.753	12.761	-0.007	100	362078	0.2500	0.1886	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	13.129	13.128	0.000	100	198052	0.2500	0.1581	
37 Benzo[a]pyrene	252	13.159	13.167	0.000	100	278108	0.2500	0.1707	
* 38 Perylene-d12	264	13.244	13.244	0.000	99	340628	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	14.771	14.778	0.000	100	255307	0.2500	0.1705	M
41 Dibenz(a,h)anthracene	278	14.814	14.814	0.000	96	280602	0.2500	0.1625	
42 Benzo[g,h,i]perylene	276	15.181	15.181	0.000	96	264968	0.2500	0.1389	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00037 Amount Added: 10.00 Units: uL Run Reagent

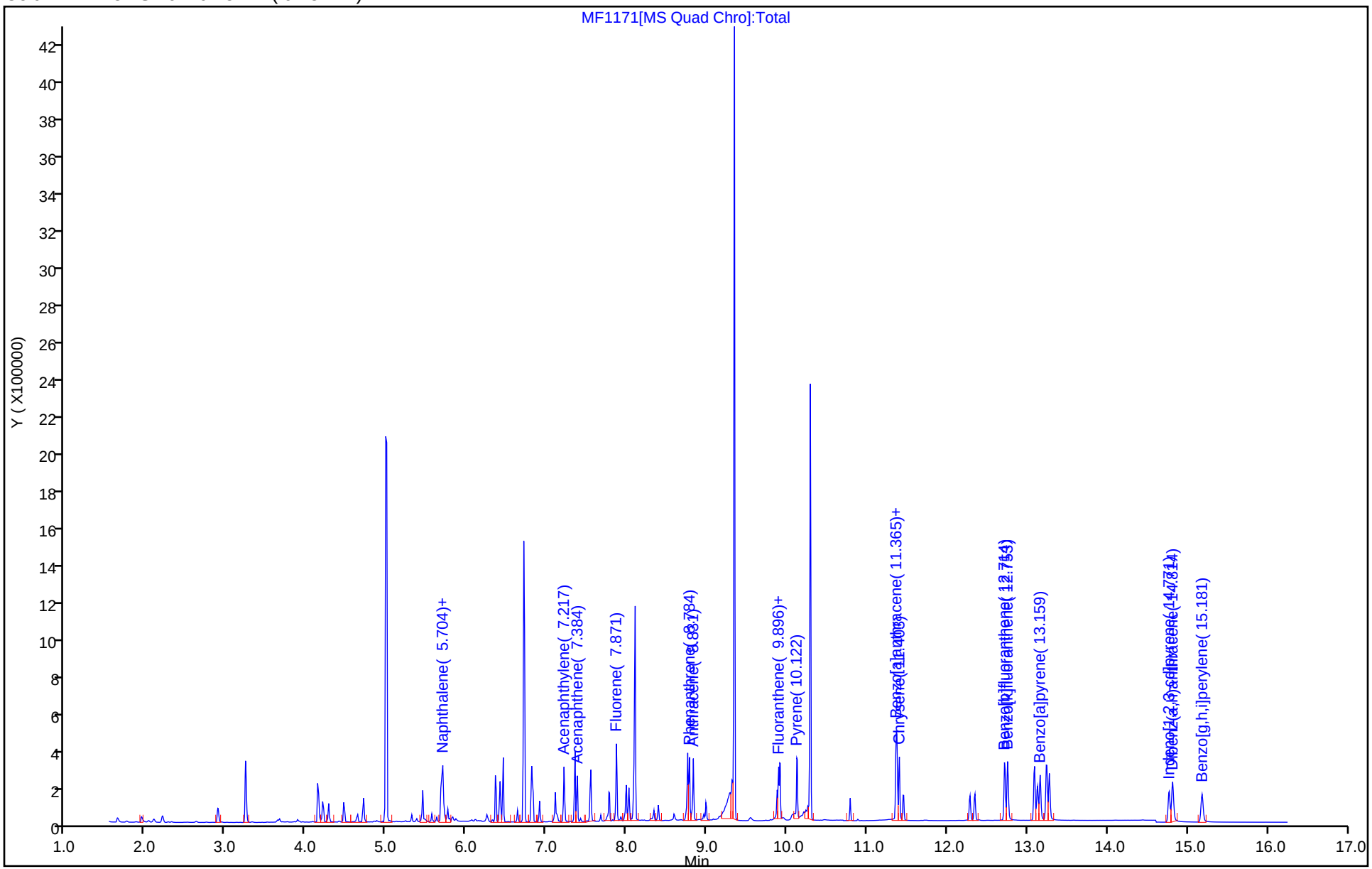
Report Date: 19-Jun-2023 12:32:47 Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1171.D

Injection Date:	16-Jun-2023 12:32:59	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-130132-D-11-B MSD			Worklist Smp#:	22
Client ID:	MW-7S-20230608				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1171.D				
Lims ID:	410-130132-D-11-B MSD				
Client ID:	MW-7S-20230608				
Sample Type:	MSD				
Inject. Date:	16-Jun-2023 12:32:59	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-130132-D-11-B MSD				
Misc. Info.:	410-0086777-022				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	19-Jun-2023 12:32:09	Calib Date:	25-Apr-2023 08:11:13		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20230425-82279.b\MD0956.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: SJ89 Date: 19-Jun-2023 12:10:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 9 1-Methylnaphthalene-d10	0.2500	0.1637	65.49
$ 24 Fluoranthene-d10 (Surr)	0.2500	0.1712	68.46
$ 36 Benzo(a)pyrene-d12 (Surr)	0.2500	0.1581	63.25

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

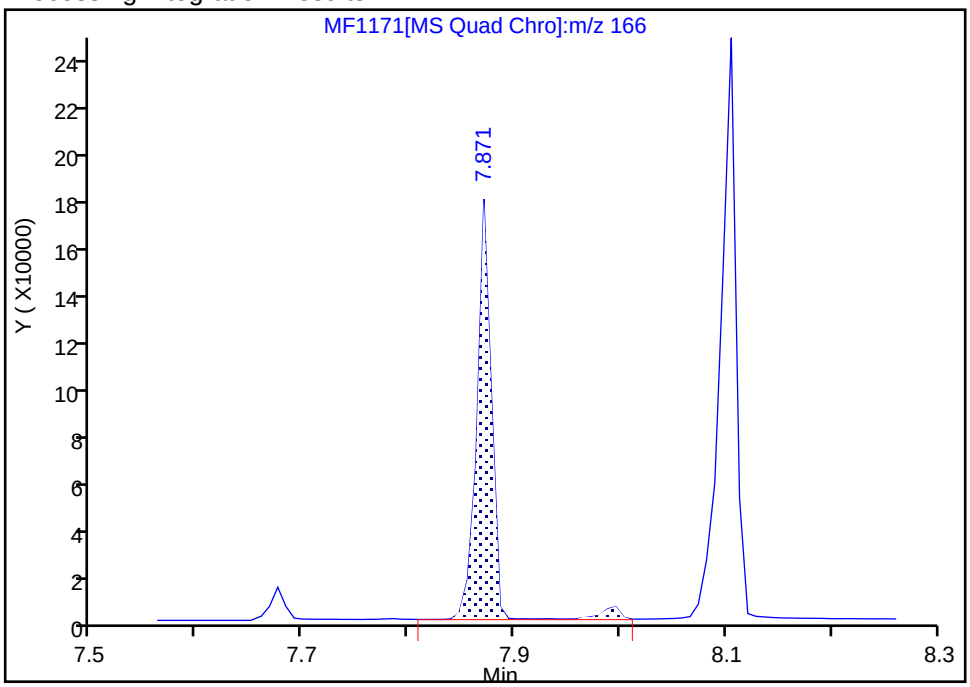
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1171.D				
Injection Date:	16-Jun-2023 12:32:59	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11-B MSD				
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

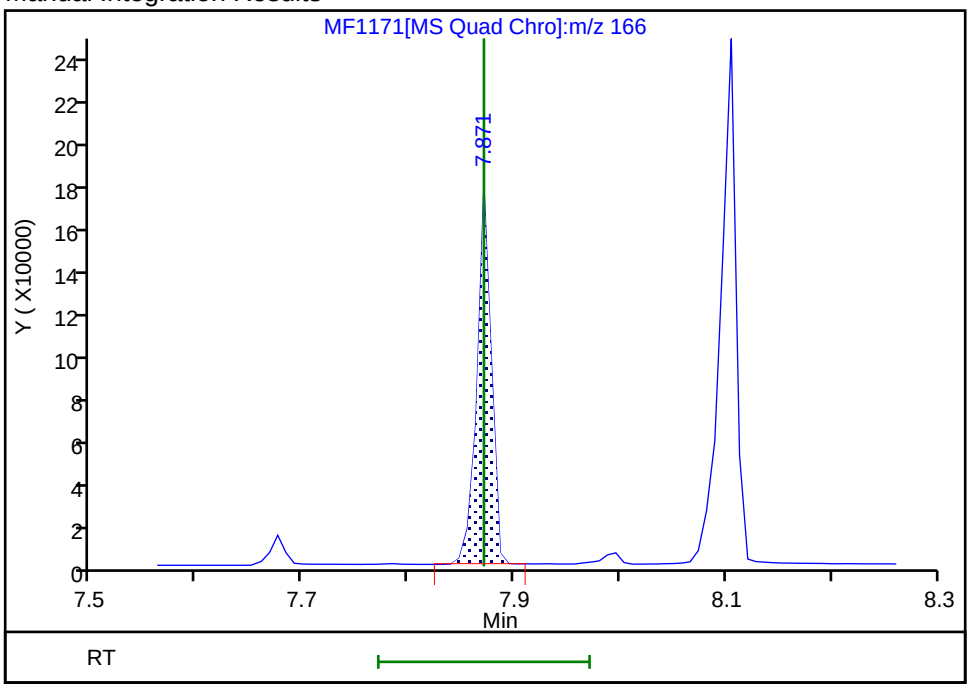
Processing Integration Results

RT: 7.87
Area: 174960
Amount: 0.181630
Amount Units: ug/ml



Manual Integration Results

RT: 7.87
Area: 167745
Amount: 0.174140
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:10:35 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

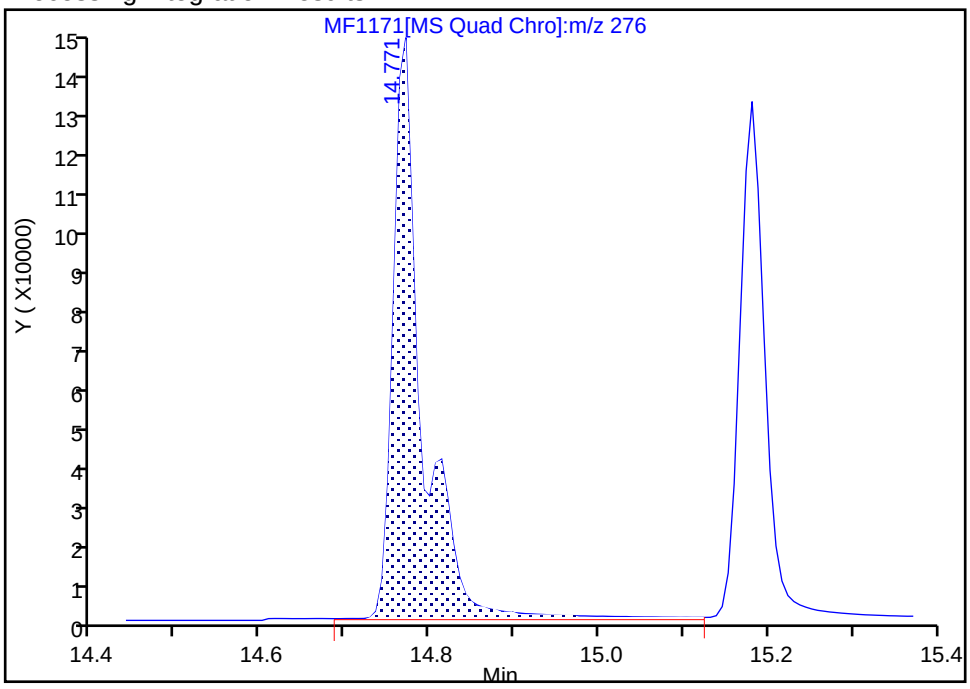
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1171.D				
Injection Date:	16-Jun-2023 12:32:59	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11-B MSD				
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

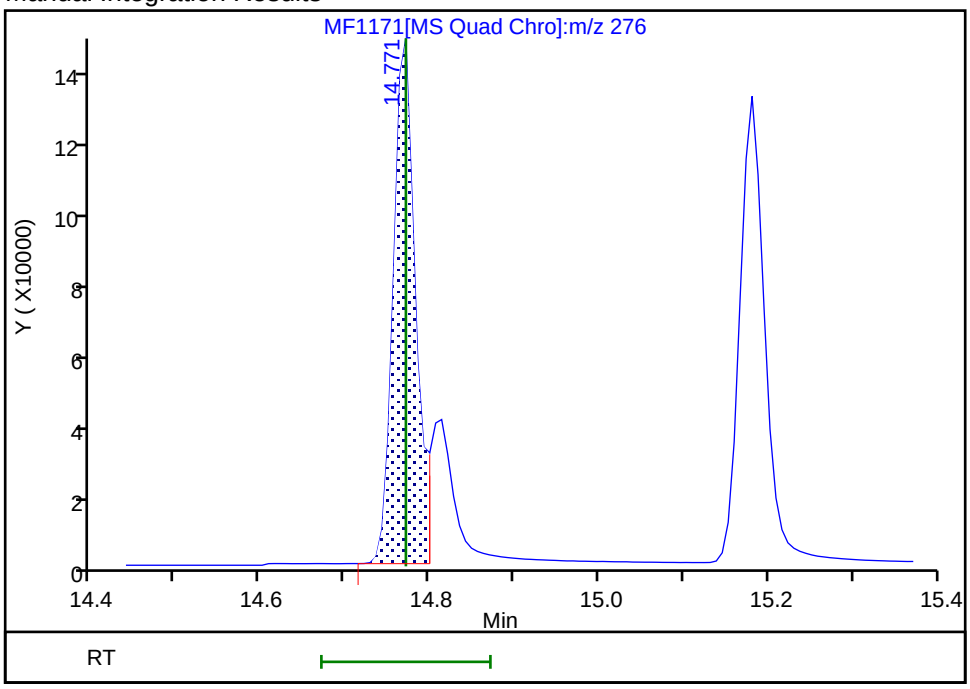
Processing Integration Results

RT: 14.77
Area: 348799
Amount: 0.232911
Amount Units: ug/ml



Manual Integration Results

RT: 14.77
Area: 255307
Amount: 0.170481
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:10:52 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

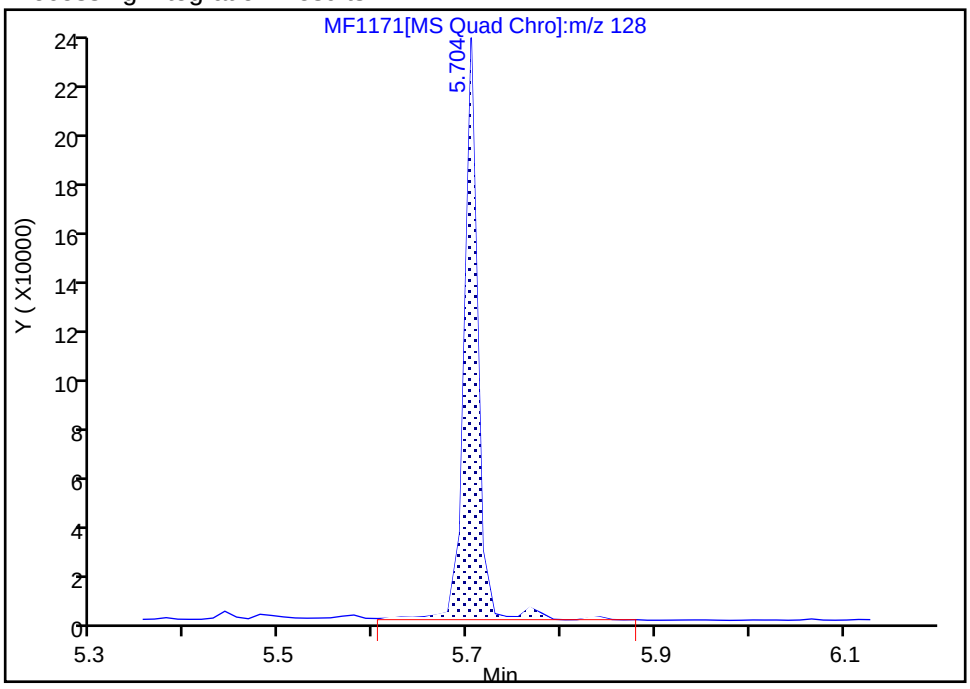
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20230616-86777.b\MF1171.D				
Injection Date:	16-Jun-2023 12:32:59	Instrument ID:	HP21585		
Lims ID:	410-130132-D-11-B MSD				
Client ID:	MW-7S-20230608				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

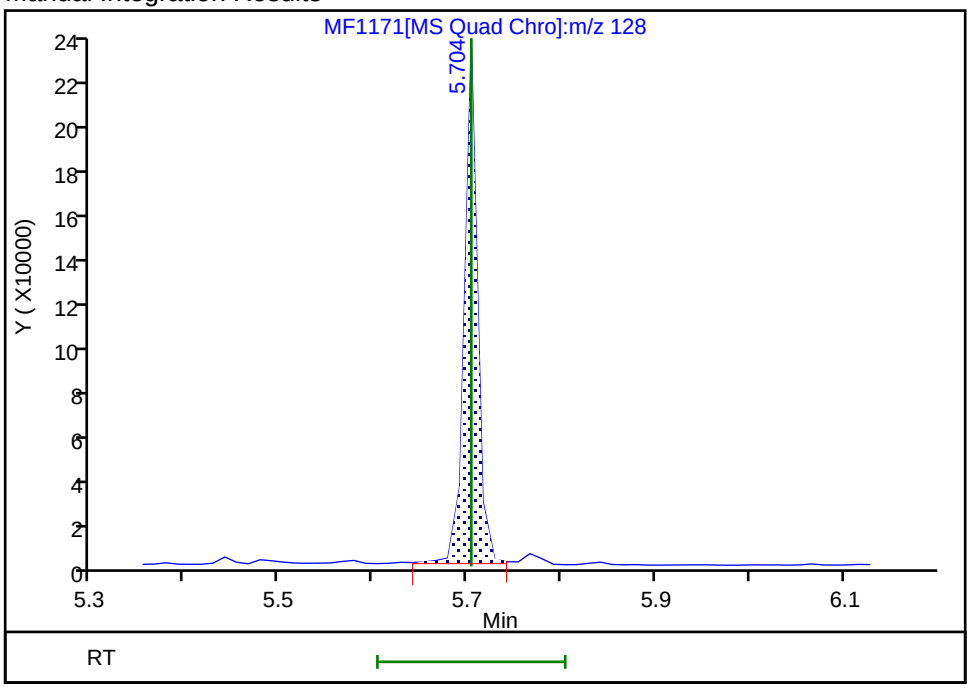
Processing Integration Results

RT: 5.70
Area: 240442
Amount: 0.205855
Amount Units: ug/ml



Manual Integration Results

RT: 5.70
Area: 230461
Amount: 0.197310
Amount Units: ug/ml



Reviewer: SJ89, 19-Jun-2023 12:10:24 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: HP21585 Start Date: 04/25/2023 05:46

Analysis Batch Number: 368078 End Date: 04/25/2023 09:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-368078/1		04/25/2023 05:46	1	MD0950.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-368078/2		04/25/2023 06:05	1	MD0951.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-368078/3		04/25/2023 06:46	1	MD0952.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-368078/4		04/25/2023 07:07	1	MD0953.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-368078/5		04/25/2023 07:28	1	MD0954.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-368078/6		04/25/2023 07:49	1	MD0955.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-368078/7		04/25/2023 08:11	1	MD0956.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-368078/8		04/25/2023 08:32	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-368078/9		04/25/2023 08:53	1	MD0958.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-368078/10		04/25/2023 09:15	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: HP21585 Start Date: 04/27/2023 03:16

Analysis Batch Number: 369143 End Date: 04/27/2023 13:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-369143/1 DL		04/27/2023 03:16	1	MD1050.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-369143/2		04/27/2023 04:09	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-369143/3		04/27/2023 04:35	1	MD1052.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 05:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 05:40	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 06:01	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 06:23	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 06:44	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 07:06	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 07:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 07:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 13:10	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/27/2023 13:31	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: HP21585 Start Date: 06/15/2023 05:32

Analysis Batch Number: 386832 End Date: 06/15/2023 15:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-386832/1		06/15/2023 05:32	1	MF1070.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-386832/2		06/15/2023 05:48	1	MF1071.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-386349/1-A		06/15/2023 06:21	1	MF1072.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-386349/2-A		06/15/2023 06:43	1	MF1073.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-386349/3-A		06/15/2023 07:04	1	MF1074.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 07:25	10		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 08:08	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 08:30	50		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 08:51	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 09:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 09:34	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 09:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 10:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 10:39	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 11:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 11:21	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 11:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 12:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 12:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 12:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 13:09	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/15/2023 13:30	1		DB-5MS 30m 0.25 0.25(mm)
410-130132-1	MW-8S-20230607	06/15/2023 13:52	1	MF1092.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-2	MW-12S-20230607	06/15/2023 14:13	1	MF1093.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-3	MW-12D-20230607	06/15/2023 14:34	1	MF1094.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-4	MW-11S-20230607	06/15/2023 14:56	1	MF1095.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-5	MW-3-20230607	06/15/2023 15:17	1	MF1096.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-6	DUP-20230607	06/15/2023 15:39	1	MF1097.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: HP21585 Start Date: 06/16/2023 04:29

Analysis Batch Number: 387377 End Date: 06/16/2023 16:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-387377/1		06/16/2023 04:29	1	MF1150.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-387377/2		06/16/2023 04:50	1	MF1151.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-386902/1-A		06/16/2023 05:45	1	MF1152.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-386902/2-A		06/16/2023 06:07	1	MF1153.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 08:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 09:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 09:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 10:02	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 10:24	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 10:45	1		DB-5MS 30m 0.25 0.25(mm)
410-130132-4 DL	MW-11S-20230607 DL	06/16/2023 11:07	5	MF1167.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-5 DL	MW-3-20230607 DL	06/16/2023 11:28	5	MF1168.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-11	MW-7S-20230608	06/16/2023 11:50	1	MF1169.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-11 MS	MW-7S-20230608 MS	06/16/2023 12:11	1	MF1170.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-11 MSD	MW-7S-20230608 MSD	06/16/2023 12:32	1	MF1171.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-7	MW-13S-20230608	06/16/2023 12:54	1	MF1172.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-8	MW-13D-20230608	06/16/2023 13:15	1	MF1173.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-9	MW-1-20230608	06/16/2023 13:37	1	MF1174.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-10	MW-4S-20230608	06/16/2023 13:58	1	MF1175.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-12	MW-10S-20230608	06/16/2023 14:20	1	MF1176.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-13	MW-14S-20230608	06/16/2023 14:41	1	MF1177.D	DB-5MS 30m 0.25 0.25(mm)
410-130132-14	FB-20230608	06/16/2023 15:03	1	MF1178.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 15:24	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/16/2023 16:07	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: HP23263 Start Date: 02/21/2023 22:31

Analysis Batch Number: 346701 End Date: 02/22/2023 02:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-346701/1		02/21/2023 22:31	1	NB0450a.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-346701/2		02/21/2023 22:48	1	NB0451a.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-346701/3		02/21/2023 23:35	1	NB0452.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-346701/4		02/21/2023 23:57	1	NB0453.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-346701/5		02/22/2023 00:19	1	NB0454.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-346701/6		02/22/2023 00:40	1	NB0455.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-346701/7		02/22/2023 01:02	1	NB0456.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-346701/8		02/22/2023 01:24	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-346701/9		02/22/2023 01:46	1	NB0458.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-346701/10		02/22/2023 02:08	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-130132-1

SDG No.:

Instrument ID: HP23263 Start Date: 06/19/2023 11:55

Analysis Batch Number: 388200 End Date: 06/19/2023 18:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-388200/1		06/19/2023 11:55	1	NF1050.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-388200/2		06/19/2023 12:18	1	NF1051.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/19/2023 13:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/19/2023 13:37	1		DB-5MS 30m 0.25 0.25(mm)
410-130132-5 DL2	MW-3-20230607 DL2	06/19/2023 16:30	25	NF1061.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/19/2023 16:52	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/19/2023 17:14	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/19/2023 17:35	10		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/19/2023 17:57	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		06/19/2023 18:19	5		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-130132-1

SDG No.:

Batch Number: 346701 Batch Start Date: 02/21/23 22:31 Batch Analyst: Gambler, Joseph M

Batch Method: 8270E SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	MSS_RVDFTPP 00012	MSS_RVSIM_1 00020	MSS_RVSIM_2 00020	MSS_RVSIM_3 00020	MSS_RVSIM_4 00027
DFTPP 410-346701/1		8270E SIM		1 mL	1 mL				
ICIS 410-346701/2		8270E SIM		1 mL					1 mL
IC 410-346701/3		8270E SIM		1 mL					
IC 410-346701/4		8270E SIM		1 mL					
IC 410-346701/5		8270E SIM		1 mL				1 mL	
IC 410-346701/6		8270E SIM		1 mL			1 mL		
IC 410-346701/7		8270E SIM		1 mL		1 mL			
ICV 410-346701/9		8270E SIM		1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVSIM_5 00020	MSS_RVSIM_6 00017	MSS_RVSIM_ICV 00037			
DFTPP 410-346701/1		8270E SIM							
ICIS 410-346701/2		8270E SIM							
IC 410-346701/3		8270E SIM			1 mL				
IC 410-346701/4		8270E SIM		1 mL					
IC 410-346701/5		8270E SIM							
IC 410-346701/6		8270E SIM							
IC 410-346701/7		8270E SIM							
ICV 410-346701/9		8270E SIM				1 mL			

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-130132-1

SDG No.:

Batch Number: 368078 Batch Start Date: 04/25/23 05:46 Batch Analyst: Gambler, Joseph M

Batch Method: 8270E SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	MSS_RVDFTPP 00013	MSS_RVSIM_1 00021	MSS_RVSIM_2 00021	MSS_RVSIM_3 00022	MSS_RVSIM_4 00028
DFTPP 410-368078/1		8270E SIM		1 mL	1 mL				
ICIS 410-368078/2		8270E SIM		1 mL					1 mL
IC 410-368078/3		8270E SIM		1 mL					
IC 410-368078/4		8270E SIM		1 mL					
IC 410-368078/5		8270E SIM		1 mL				1 mL	
IC 410-368078/6		8270E SIM		1 mL			1 mL		
IC 410-368078/7		8270E SIM		1 mL		1 mL			
ICV 410-368078/9		8270E SIM		1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSS_RVSIM_5 00021	MSS_RVSIM_6 00018	MSS_RVSIM_ICV 00037			
DFTPP 410-368078/1		8270E SIM							
ICIS 410-368078/2		8270E SIM							
IC 410-368078/3		8270E SIM			1 mL				
IC 410-368078/4		8270E SIM		1 mL					
IC 410-368078/5		8270E SIM							
IC 410-368078/6		8270E SIM							
IC 410-368078/7		8270E SIM							
ICV 410-368078/9		8270E SIM				1 mL			

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-130132-1

SDG No.:

Batch Number: 369143 Batch Start Date: 04/27/23 03:16 Batch Analyst: Lutte, Kate E

Batch Method: 8270E SIM Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	MSS_RVDFTPP 00013	MSS_RVSIM_ICV 00037			
DFTPP 410-369143/1		8270E SIM		1 mL	1 mL				
ICV 410-369143/3		8270E SIM		1 mL		1 mL			

Batch Notes	
Pipette/Syringe/Dispenser ID	SIM internal syringe
Dilution Solution ID	MeCl2: 230081
Vial Lot Number	427847

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 Lancaster Laboratories | Job No.: 410-130132-1

SDG No.:

Batch Number: 386349 | Batch Start Date: 06/14/23 08:02 | Batch Analyst: Hall, Patrick

Batch Method: 3510C | Batch End Date: 06/14/23 13:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-386349/1		3510C, 8270E SIM				n/a	250 mL	1.0 mL	n/a SU
LCS 410-386349/2		3510C, 8270E SIM				n/a	250 mL	1.0 mL	n/a SU
LCSD 410-386349/3		3510C, 8270E SIM				n/a	250 mL	1.0 mL	n/a SU
410-130132-D-1	MW-8S-20230607	3510C, 8270E SIM	T	406.72 g	163.20 g	n/a	243.5 mL	1.0 mL	n/a SU
410-130132-D-2	MW-12S-20230607	3510C, 8270E SIM	T	407.96 g	163.66 g	n/a	244.3 mL	1.0 mL	n/a SU
410-130132-D-3	MW-12D-20230607	3510C, 8270E SIM	T	410.17 g	162.55 g	n/a	247.6 mL	1.0 mL	n/a SU
410-130132-D-4	MW-11S-20230607	3510C, 8270E SIM	T	404.06 g	163.33 g	n/a	240.7 mL	1.0 mL	n/a SU
410-130132-D-5	MW-3-20230607	3510C, 8270E SIM	T	409.21 g	164.27 g	n/a	244.9 mL	1.0 mL	n/a SU
410-130132-D-6	DUP-20230607	3510C, 8270E SIM	T	411.92 g	164.06 g	n/a	247.9 mL	1.0 mL	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00090	OP_SIMLCS_MS 00094	AnalysisComment
MB 410-386349/1		3510C, 8270E SIM		>11 SU	<2 SU	n	1 mL		Tap H2O
LCS 410-386349/2		3510C, 8270E SIM		>11 SU	<2 SU	n	1 mL	0.25 mL	Tap H2O
LCSD 410-386349/3		3510C, 8270E SIM		>11 SU	<2 SU	n	1 mL	0.25 mL	Tap H2O
410-130132-D-1	MW-8S-20230607	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Yellow Tint, Small Orange Sediment
410-130132-D-2	MW-12S-20230607	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Clear, Small Brown Sediment
410-130132-D-3	MW-12D-20230607	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Clear
410-130132-D-4	MW-11S-20230607	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Yellow Tint, Brown Sediment
410-130132-D-5	MW-3-20230607	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Yellow Tint
410-130132-D-6	DUP-20230607	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Clear

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 Lancaster Laboratories | Job No.: 410-130132-1

SDG No.:

Batch Number: 386349 | Batch Start Date: 06/14/23 08:02 | Batch Analyst: Hall, Patrick

Batch Method: 3510C | Batch End Date: 06/14/23 13:56

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, KMK81424
Analyst ID - Spike Analyst	PDH91662, KMK81424
Analyst ID - Spike Witness Analyst	PDH91662
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231027
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23163A
Analyst ID - Concentration	PDH91662, KMK81424
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-130132-1

SDG No.:

Batch Number: 386902 | Batch Start Date: 06/15/23 08:12 | Batch Analyst: Hall, Patrick

Batch Method: 3510C | Batch End Date: 06/15/23 14:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-386902/1		3510C, 8270E SIM				n/a	250 mL	1.0 mL	n/a SU
LCS 410-386902/2		3510C, 8270E SIM				n/a	250 mL	1.0 mL	n/a SU
410-130132-D-11 MS	MW-7S-20230608	3510C, 8270E SIM	T	404.90 g	165.01 g	n/a	239.9 mL	1.0 mL	n/a SU
410-130132-D-11 MSD	MW-7S-20230608	3510C, 8270E SIM	T	406.02 g	165.67 g	n/a	240.4 mL	1.0 mL	n/a SU
410-130132-D-11	MW-7S-20230608	3510C, 8270E SIM	T	405.00 g	165.92 g	n/a	239.1 mL	1.0 mL	n/a SU
410-130132-D-7	MW-13S-20230608	3510C, 8270E SIM	T	408.70 g	164.70 g	n/a	244 mL	1.0 mL	n/a SU
410-130132-D-8	MW-13D-20230608	3510C, 8270E SIM	T	407.23 g	163.13 g	n/a	244.1 mL	1.0 mL	n/a SU
410-130132-D-9	MW-1-20230608	3510C, 8270E SIM	T	408.74 g	164.41 g	n/a	244.3 mL	1.0 mL	n/a SU
410-130132-D-10	MW-4S-20230608	3510C, 8270E SIM	T	394.48 g	162.81 g	n/a	231.7 mL	1.0 mL	n/a SU
410-130132-D-12	MW-10S-20230608	3510C, 8270E SIM	T	413.55 g	164.77 g	n/a	248.8 mL	1.0 mL	n/a SU
410-130132-D-13	MW-14S-20230608	3510C, 8270E SIM	T	412.07 g	165.60 g	n/a	246.5 mL	1.0 mL	n/a SU
410-130132-D-14	FB-20230608	3510C, 8270E SIM	T	409.56 g	165.46 g	n/a	244.1 mL	1.0 mL	n/a SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00090	OP_SIMLCS_MS 00094	AnalysisComment
MB 410-386902/1		3510C, 8270E SIM		>11 SU	<2 SU	n	1 mL		Tap H2O
LCS 410-386902/2		3510C, 8270E SIM		>11 SU	<2 SU	n	1 mL	0.25 mL	Tap H2O
410-130132-D-11 MS	MW-7S-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL	0.25 mL	Yellow Tint, Orange Sediment
410-130132-D-11 MSD	MW-7S-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL	0.25 mL	Yellow Tint, Orange Sediment
410-130132-D-11	MW-7S-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Yellow Tint, Orange Sediment
410-130132-D-7	MW-13S-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Pale Yellow Tint, Orange Sediment
410-130132-D-8	MW-13D-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Clear

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 Lancaster Laboratories Job No.: 410-130132-1

SDG No.:

Batch Number: 386902 Batch Start Date: 06/15/23 08:12 Batch Analyst: Hall, Patrick

Batch Method: 3510C Batch End Date: 06/15/23 14:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00090	OP_SIMLCS_MS 00094	AnalysisComment
410-130132-D-9	MW-1-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Orange Tint, Orange Sediment
410-130132-D-10	MW-4S-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Pale Yellow Tint, Orange Sediment
410-130132-D-12	MW-10S-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Pale White Tint, Small Orange Sediment
410-130132-D-13	MW-14S-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Pale Yellow Tint, Orange Sediment
410-130132-D-14	FB-20230608	3510C, 8270E SIM	T	>11 SU	<2 SU	n	1 mL		Clear

Batch Notes	
Balance ID	93158
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	PDH91662, KMK81424
Analyst ID - Spike Analyst	PDH91662, KMK81424
Analyst ID - Spike Witness Analyst	PDH91662
Acid Used for pH Adjustment ID	H2SO4: 225553
Base Used to Adjust pH ID	NaOH: 4202B64
Prep Solvent ID	MeCl2: 231028
Prep Solvent Volume Used	90 mL
Na2SO4 ID	23165A
Analyst ID - Concentration	PDH91662, KMK81424
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C

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.

Shipping and Receiving Documents

410-130132 Chain of Custody

ıvironme

Chain of Custody Record

eurofins | Environment Testing

	Sampler: MH/MI/RWSL	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-90238-5955.1
Client Contact: Mr. James Marolda	Phone:	E-Mail: Barbara.Weyandt@et.eurofinsus.com	State of Origin: NY	Page: Page 1 of 2
Company: Brown and Caldwell	PWSID:			Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:			
City: Ramsey	TAT Requested (days): STANdard			
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No			
Phone: 201-574-4713(Tel)	PO #: 153201			
Email: jmarolda@brwncald.com	WO #:			
Project Name: Patchogue, NY	Project #: 41002571			
Site: Patchogue	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - 16 PAHs	8260C - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-8S-20230607	06/07/23	1059	G	GW			X	X	5	
MW-12S-20230607		1147					X	X	5	
MW-12D-20230607		1323					X	X	5	
MW-11S-20230607		1455					X	X	5	
MW-3-20230607		1539					X	X	5	
DUP-20230607		9999					X	X	5	
MW-13S-20230608	06/08/23	0840	G	GW			X	X	5	
MW-13D-20230608		0927	G	GW			X	X	5	
MW-1-20230608		1035					X	X	5	
MW-4S-20230608		1134					X	X	5	
MW-7S-20230608 (MS/MSD)		1257					X	X	15	MS/MSD

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify): NY State Cat B & Bc Equiv

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	6/5/23 1100	Eurofins	[signature]	9 June 23 1230	ELLE
[signature] MARONE / [signature]	6/9/23 1230	BC	[signature]	9 June 23 1230	ELLE
[signature]	9 June 23 2030	ELLE	[signature]	6/9/23 2030	ELLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.0 | 2.0

Ver: 06/08/2021

Eurofins Lancaster Laboratories Environme
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: MLM RMSL	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-90238-5955 2
Client Contact: Mr. James Marolda	Phone:	E-Mail: Barbara.Weyandt@et.eurofinsus.com	State of Origin: NY	Page: Page 2 of 2
Company: Brown and Caldwell	PWSID:			Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:			
City: Ramsey	TAT Requested (days): STANdard			
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No			
Phone: 201-574-4713(Tel)	PO #: 153201			
Email: jmarolda@brwncald.com	WO #:			
Project Name: Patchogue, NY	Project #: 41002571			
Site: PAtchogue	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - 16 PAHs	8260C - BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-10S-20230608	06/08/23	1428	G	GW			X	X	5	
MW-14S-20230608		1520	↓	↓			X	X	5	
~~DUP-20230608~~ MLM										
FB-20230608	↓	1240	G	DI			X	X	5	
TB-20230608		LAB	↓	↓				X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Category B

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) BC Equis & NYC Stalc

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	MLM MARONA	06/09/23 1230	BC	RMSL	9 Jun 23 1230	ELLE
2	RMSL	9 Jun 23 2030	ELLE			
3					6/9/23 20130	BC

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.0/2.0

9 Jun 23

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-130132-1

Login Number: 130132

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Jeremiah, Cory T

Question	Answer	Comment
The cooler's custody seal is 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 (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Appendix C: Data Validator Qualifications

Kelly Donahue, P.G.

Experience Summary

Kelly Donahue has more than 19 years of experience as a geologist and geochemist with specialization in environmental assessment, prediction of water quality chemistry and water contamination mitigation strategies. Her roles on past projects include field geologist, lead geochemist, and project manager. Her areas of expertise specifically include soil and water sampling, drilling oversight, well installation, data validation, laboratory analysis, and mineralogical methodologies. She also is adept at analyzing and interpreting of geological, hydrologic and geochemical data for a variety of technical environmental and hydrogeological projects. Kelly is proficient in PHREEQC, AquaChem, and GoldSim for geochemical modeling and data analysis software.

Education

M.S., Geochemistry, New Mexico Institute of Mining and Technology

B.S., Geology University of Wisconsin at Madison

Registration

Professional Geologist 59596, Arizona

Professional Geologist 1510, Idaho

Professional Geologist PG-3822, Wyoming

Training

MSHA-certified Instructor, Surface Part 46 and 48 Training, 2013

OSHA 10-hour General Contractor

OSHA 40-hr HAZWOPER

First aid and CPR

Experience

15 years

Joined Firm

2014

Relevant Expertise

- *Surface and groundwater aqueous geochemistry*
- *Geochemical modeling*
- *Field investigations*
- *Advanced mineralogy and petrography*
- *Monitor well installation and instrumentation*
- *Data management and GIS applications*
- *Data validation*
- *Project management*

Site-Wide Water Balance Modeling, Midas Gold–Stibnite Idaho

Modeler, Geochemist. Lead modeler in developing a site-wide water balance using Goldsim software to support for the environmental impact analysis. Several simulations were analyzed to determine the water balance for varying precipitation scenarios, changes in mine operations, and for water use optimization. Results of the model simulations were used to develop a project water management plan and multiple permitting applications.

Tri-State New Horizon Mine Spoils Spring Investigation, Nucla, Colorado

Geochemist. Lead an investigation to determine the source of discharge from a spoils spring with elevated concentrations of regulated constituents. Evaluated the results of a backfill geochemical characterization study to identify chemical markers which could indicate the source of the chemical mass to the spoils spring. Results of the geochemical analysis were used to evaluate the potential source of chemical mass and the projected period of time the chemical loading from the backfill material. Assisted in developing the plan to install a monitoring well network to evaluate the presence and quality of water moving the backfill contributing to the spoils spring.

Water Quality Investigation, CEMEX, Lyons, Colorado

Geochemist. Lead an assessment of groundwater quality from a network of monitoring well surrounding the backfilled open pit. Materials used to backfill the pit included cement kiln dust resulting in pit water quality with elevated regulated constituents. The geochemical analysis of the historical water quality data on-site was used to identify trends in the groundwater chemistry and water flow in the upgradient canal network. Results of the analysis indicated water leaking from the canal is adding water to the backfilled pit.

Tri-State New Horizon Mine Phase III Bond Release Analysis, Nucla, Colorado

Geochemist. Provided the water quality analysis to evaluate the potential impact to surface and groundwaters as evidence for the client's Phase III Bond release application in accordance with the Colorado Mined Land Reclamation Board for Coal Mining regulations. The analysis provided the client with scientifically defensible evidence of no long-term impact as a result of mining through a detailed geochemical analysis using concentration and time trend assessments.

Rasmussen Valley Mine Project Geochemical Testing Program Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Provided the client with a comprehensive analysis of the geochemical characterization program conducted by a third-party contractor for an Environmental Impact Assessment to determine the potential effects of

*Indicates experience prior to BC

the testing design on the data to be used for the water quality impact assessment. Determined the sampling methods used by the third-party contractor resulted in unrepresentative and overly conservative approximation of water quality predictions. Presented the finding to the client and regulatory agencies to initiate a conversation on the approach used for geochemical characterization methods and the implications on the subsequent water quality impact analysis.

Rasmussen Valley Mine Project Batch Adsorption Program Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Conducted an analytical review of the batch adsorption methods and data analysis conducted by a third-party contractor for an Environmental Impact Assessment. Results of the batch adsorption analysis identified potential flaws in the analytical methods and data analysis used by the third-party contractor. Provided the client with information to discuss an alternative method for batch adsorption testing to overcome the analytical flaws with the regulatory agencies. Reanalysis of the batch adsorption data provided the client with proof of adsorption to allow for adsorption during groundwater modeling.

Rasmussen Valley Mine Project Alternative Source Term Development Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Provided the client with a scientifically defensible analysis for the development of an alternative source term using data previously collected as part of a baseline geochemical analysis for an Environmental Impact Assessment. Utilizing previously collected data allowed for the project to continue forward without delays that would have been the result of additional geochemical data collection.

Husky 1 North Dry Ridge Mine Project Geochemical Testing Plan Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Provided the client with a comprehensive review of the geochemical characterization plan for an Environmental Impact Assessment to assess the potential effects of the testing plan design on the data to be used for the water quality impact assessment. Provided client with information on the sample compositing method to present to the regulatory agencies in order to obtain results representative of the future waste rock piles.

Monitoring Well Investigation, North Rasmussen Ridge Mine, Caribou County, Idaho

Geochemist. Analysis of surface and groundwater data to identify potential mining related impacts to a groundwater monitoring well. Data assessment included evaluating the chemical signatures of potential source waters and evaluating the feasibility of several scenarios to identify the most likely source of contamination to the alluvial monitoring well. Presented the results of the analysis to the Idaho regulatory agencies during a discussion on methods to remediate the observed elevated regulated constituents.

Lanes Creek Mine Monitoring Well Drilling Program, Nu-West Agrium, Soda Springs, Idaho

Project Geologist. Provided on-site geologic logging and sample collection to meet the project objectives of siting monitoring wells to address the point of compliance investigation data gaps.

Hayden Hill Gold Mine, Lassen Gold Mining, Inc., Alleghany, California

Project Geologist. Provided on-site field support for post-closure monitoring well abandonment program. Responsibilities included drilling contractor oversight, coordination with state regulatory agencies and producing the well abandonment report.

Groundwater Contamination Investigation, Arco, Yerington, Nevada

Geochemist. Conducted groundwater geochemical data analysis to determine the potential groundwater chemistry signatures associated with natural and mining related impacts. Investigation included evaluation of water quality data signatures, stable and radiogenic isotopes, soil chemical characteristics, and hydrologic data to develop a conceptualization of the geochemical system. Evaluated chemical speciation of regulated groundwater constituents using geochemical modeling to assess potential mobility of contaminates in the aquifer.

Waste Rock Geochemical Characterization, Freeport-McMoran–Bagdad, Arizona
Project Manager/Geochemist. Provided technical support for the project designed to determine the acid generation potential of waste rock materials at an open pit copper mine in Arizona. Data from analytical static tests was combined with mineralogy descriptions of the rock units to determine which units required additional kinetic testing to provide chemical release rates for geochemical modeling.

Evaporation Ponds Investigation, Atlantic Richfield, Yerington, Nevada
Project Geochemist. Evaluated geochemical soils and water quality data to identify potential sources and extent of contamination related to multiple mineral processing activities conducted over several decades in surface evaporation ponds.

Surface Water Characterization, Freeport-McMoran–Cobre, Hanover, New Mexico*
Field Manager and Geochemist. Led field team for stormwater sample collection of surface water data. Coordinated sampling teams to ensure accurate and defensible data collection with maximum efficiently to reduce labor costs to client. Conducted thorough geochemical data analysis to identify naturally occurring and mining impacted chemical loading to surface waters within the basin. Identified surface water impacts using geochemical signatures to shallow groundwater sources to confirm the assumptions of the groundwater hydrologic model.

Surface Water Seep Investigation, Freeport-McMoran–Cobre, Hanover, New Mexico*
Geochemist. Assisted in evaluating the chemical loading sources contributing to surface water seeps from reclaimed areas of the mine. Historical data from the previous heap leach were compared to laboratory data for samples collected from soil pits within the reclaimed area and geochemical signatures were identified. The result of the study indicated the previous heap leach materials had been removed effectively, however the materials placed as fill and cover were contributing chemical mass to the shallow groundwater system. Assisted in a borrow source investigation to identify additional sources of cover on-site for future reclamation and remediation efforts.

Tailings Pile Investigation, Freeport McMoran–Twin Buttes, Sierrita, Arizona*
Geochemist and Field Geologist. Assisted in the developed a site wide waste rock handling plan and standard operating procedures to ensure scientifically defensible data collection for the client. Provided oversight during drilling operations and conducted core logging for the Main Tailing Facility. Collected samples for geochemical analysis to characterize tailing materials to satisfy regulatory requirements.

Heap Leach Pad Investigation, Freeport-McMoran–Little Rock, Hanover, New Mexico*
Geochemist. Assisted in evaluating the chemical loading sources contributing to surface water seeps from reclaimed areas of the mine. Result of the study indicated the previous heap leach materials had been removed effectively, however the materials placed as fill and cover were contributing chemical mass to the shallow groundwater system. Conducted a borrow source investigation to identify additional sources of cover on-site for future reclamation and remediation efforts.

Material Investigation, Freeport McMoran–Twin Buttes, Sierrita, Arizona*
Geochemist. Planned and executed a field reconnaissance and geochemical testing program to determine the suitability of on-site borrow material for mine reclamation. In conjunction with main project objectives, determined the potential hazards associated with mine materials being sold as construction rock by a third-party contractor before the deadline for contract renewal.

Casing Leak Investigation, Cameco Resources, Douglas, Wyoming*
Geochemist. Comprehensive geochemical data analysis used to define groundwater chemistry trends to provide the client with evidence of contamination from the previous land owner to submit to state regulatory agencies. Supervised a field crew during groundwater investigation activities, including quarterly sample collection of more than 100 monitoring wells, installing pressure transducers, and measuring hydrological and chemical field parameters. Provided contractor oversight during drilling and installation of monitoring wells, including interpretation of geophysical logs and drill cuttings to determine the target water bearing units for well completion; on-site well design; well completion supervision; and initial aquifer testing on installed wells. Results of the field and data analysis were to define the baseline water quality and identify impacted aquifers at an in-situ uranium mining site.

Groundwater Baseline Characterization, East RD&D, Shell Oil Co., Piceance Basin, Colorado*

Geochemist. Conducted groundwater geochemical data analysis to determine the baseline water quality for an Environmental Impact Statement. Determined and documented the potential effects of previous anthropogenic activities within the basin on groundwater chemistry using stable and radiogenic isotope and groundwater chemical signatures. Provided the client with a defensible scientific basis to determine the pre-impact groundwater quality in the project area.

Water Rock Characterization, Lumina Copper, Peru*

Laboratory Manager and Geochemist. Managed the collection of kinetic testing data of potential waste rock materials from a porphyry copper mine using humidity cell testing procedures. Humidity cell test data was used to define contaminates of concern to focus the water treatment design for mine planning. Conducted detailed mineralogical descriptions of rock samples using X-ray diffraction data and petrographic mineral identification techniques. Conducted geochemical modeling to evaluate the groundwater quality as a result of surface water infiltrating through mine waste materials. Results of geochemical characterization were used by the client to estimate the operating and remediation costs for a bankable feasibility study.

Goat Hill North Waste Rock Pile Stability Study, Molycorp, Questa, New Mexico*

Principal Investigator. Responsible for identified clay mineralogy of soil and rock samples using X-ray diffraction equipment and pattern recognition software resulting in characterizing the relationship between the geotechnical and hydrological properties of a man-made rock pile. Used microscope optical petrography, whole rock chemical analysis data, and normative mineralogy software for the identification of mineral assemblages of rock and soil samples to determine the geochemical characteristics of mine materials and the processes of physical and chemical weathering.

Soquel Creek Water District (SCWD) Pilot Well Geochemical Characterization

Modeler, Geochemist. Kelly led the geochemical characterization of potential target aquifer materials to determine the resulting water quality which could occur as a result of purified treated water injection into the local aquifer. Archived soil samples from nearby monitoring well installations were available from the SCWD and used as analogs for an initial geochemical characterization study; however, there were limited quantities of sample material. Kelly developed the initial geochemical analysis program focusing on mineralogical analysis using x-ray diffraction (XRD) and a modified Synthetic Precipitation Leachate Procedures (SPLP) analysis were prioritized since it to obtain a full analytical suite using less sample mass. Data from the initial geochemical analysis suggest there is a potential for aquifer materials to react with the purified water in a way that could negatively impact the water quality. Kelly developed a second geochemical characterization sampling and analysis plan to collect additional well specific geochemical characterization data during the SCWD pilot injection well drilling program. The pilot well geochemical program was developed to provide information on potential optimization strategies for water treatment design by conducting soil leaching laboratory tests with several different waters from regional treatment facilities. Laboratory data was used to develop a geochemical model to evaluate the potential mechanisms for constituent mobilization during the aquifer recharge operations. Documenting the mineralogy during a detailed microscope analysis of individual samples from multiple injection wells provided the client with evidence of the nature of the reactive mineral phases and the effects of storage on the tested materials. Results from the SCWD were compared to the results of similar aquifer injection programs conducted within the region to evaluate the potential water treatment strategies for preventing mobilization at an operational scale.

Aquifer Storage and Recovery (ASR) Geochemical Modeling, City of Phoenix Water Utility, Phoenix, Arizona

Modeler, Geochemist. BC is assisting the City of Phoenix with the site engineering design for a new ASR well in the East Salt River Valley at the same site as an existing service area well. Kelly conducted geochemical modeling to evaluate the potential water quality due to chemical interactions between injection water and the aquifer mineralogy and groundwater. She provided the client with a detailed analysis of potential water quality changes that could occur for several different ASR scenarios at multiple well locations and with multiple treated injection waters. Results of the geochemical modeling also provided insight into potential issues such as corrosion, scaling or plugging that could occur during ASR operation.

Groundwater System Improvement Study, City of Los Angeles, Department of Water and Power (LADWP), Los Angeles, California

Geochemist. A groundwater quality study was performed by the LADWP to provide realistic and economically viable recommendations on groundwater system improvement projects that will maximize the pumping capacity of the groundwater supply in the San Fernando Basin. As part of a basin-wide investigation, Kelly provided a geochemical analysis of water data from multiple water bearing intervals to assess the movement of contaminants and the potential impact to LADWP's drinking water extraction fields. A series of geochemical plots were developed to identify trends in time and spatial changes to the groundwater system. The work was performed under the California Department of Public Health Policy Memo 97-005 for impaired water sources and the National Contingency Plan.

ASR Geochemical Modeling, Denver Water, Denver, Colorado

Modeler, Geochemist. Kelly developed a geochemical model to evaluate the potential chemical interactions resulting from the mixing treated surface water and aquifer groundwater during ASR operations in lieu of site-specific data. Results of the geochemical modeling identified the potential water quality issues such as degrading the quality of the stored water that could require treatment prior to introducing recovered water to the distribution system. She provided the client with a conceptual level analysis of several different scenarios to evaluate the resulting changes to water quality and provide input for the next phase of the ASR project design.

Health and Safety Support

Safety Compliance Audit, Johnson Camp Mine, Benson, Arizona

Safety Specialist. Participated as a team member in a comprehensive EHS compliance as part of a property acquisition agreement of a historic copper mining facility. Conducted a review of MSHA safety compliance for active mining and processing facilities for internal client report.

Bruce Mine Voluntary Remediation Program, Freeport-McMoRan, Bagdad, Arizona

Health and Safety Coordinator and Project Geologist. Provided on-site project specific Health and Safety training to field staff and subcontractors for geotechnical drilling field program. Conducted weekly safety audits of field staff and contractors. Received recognition from client Corporate Health and Safety Director for the pro-active approach to by directly addressing safety concerns with contractors working on another area not under the direction of BC. Conducted on-site geologic logging and sample collection to meet the project objectives of filling geotechnical investigation data gaps.

Data Management and Validation

National Mobile Communications Facility, Wayne, New Jersey

Project Chemist. Conducted data review and usability analysis for a multi-media site characterization and implementation of remedial action. Data review was performed in accordance with the general guidance provided by the National Functional Guidelines. During the validation process, laboratory-qualified and -unqualified data are verified against the available supporting documentation. Based on this evaluation, qualifier codes were added, deleted, or modified. Quality of the data was evaluated for the suitability for the project objectives.

MERECO Post-Remedial Monitoring, Colonie, New York

Project Chemist. Qualitative Data Usability Review was performed on analytical data to evaluate the data on a technical basis. Data review was performed in accordance with the general guidance provided by the National Functional Guidelines. Qualifier codes were added, deleted, or modified based on meeting project objectives.

North Rasmussen, Rasmussen Valley and Lanes Creek Data Validation Nu-West Agrium, Soda Springs, Idaho

Project Chemist. Data Validation was performed on analytical data from three operating mine properties owned by Nu-West Agrium to evaluate the data on a technical basis for submission to the state regulatory agencies. Data validation was performed in accordance with the state approved, project-specific data validation procedures and included a review of all relative field information to evaluate if surface or groundwater samples exceed the project-specific water quality criteria.

Multiple On-going projects.

Project Chemist. Provides data validation for level I through IV laboratory reports including air, surface water, groundwater, soil, and soil gas samples. Verification, usability, and lab data management are provided for specialized projects. Data validation for multiple contaminates including organics, inorganics and PFAS.

Publications

1. Donahue, Kelly M., 2002, "Geochemistry, geology and geochronology of the Victorio mining district, Luna County, New Mexico: Linking skarn and porphyry systems to carbonate-hosted lead-zinc replacement deposits", New Mexico Bureau of Mines and Mineral Resources Open File Report 471, 186 p.
2. Donahue, K.M., Dunbar, N.W., and McLemore, V.T., 2009, "Clay mineralogy of the Goathill North rock pile, Questa mine, Taos County, NM: Origins and indications of in-situ weathering", Society of Mining, Metallurgy and Exploration Annual Convention, Denver, Feb 2009, Preprint 09-98, 7 p.
3. Donahue, Kelly M., Dubar, N.W., and Mclemore, V. T., 2007, "Origins of clay minerals in the Molycorp Mine Goathill North Rock Pile, Questa, NM", Clay Mineral Society Annual meeting, June 2007, Preprint 07-100, 8 p.
4. McLemore, V. T., Donahue, K., Breese, M. R., Jackson, M. J., Arbuckle, J. & Jones, G., 2001, "Mineral-resource assessment of Luna County, New Mexico" New Mexico Bureau of Mines and Mineral Resources, Open File Report 459, 153 p.
5. McLemore, V. T., Dunbar, N., Heizler, M. T. and Donahue, K., 2000, "Geology and mineral deposits of the Victorio mining district, Luna County, New Mexico" in Lawton, T. F., McMillan, N. J., McLemore, V. T., Austin, G., and Barker, J. M. eds., Southwest Passage, *A Trip through the Phanerozoic: New Mexico Geological Society Guidebook 51*, pp. 267-278.
6. McLemore, V. T., Donahue, K., Krueger, C. B., Rowe, A., Ulbricht, L., Jackson, M. J., Breese, M. R., Jones, G., and Wilks, M., 2002, "Database of the uranium mines, prospects, occurrences, and mills in New Mexico", New Mexico Bureau of Geology and Mineral Resources, New Mexico Bureau of Mines and Mineral Resources Open file Report 461, CD-ROM.
7. McLemore, V.T., Donahue. K. M., Walsh, P., Tachie-Menson, S., Phillips, E.H., Guitierrez, L. A. F., and Shannon, H. R., 2005," Trench Sampling of the MolyCorp Goathill North rock piles, Questa Rock Pile Stability Study, New Mexico" National Meeting of the American Society of Mining and Reclamation, Breckenridge, Colo, June, CD-ROM, 26 p.

Abstracts

1. Donahue, Kelly M., Wang, S., Schumacher, M., Dufour, T., and Mackey, E., 2017, "Designing an aquifer geochemical characterization program to enhance water reuse project planning", Proceedings of the 2017 UCOWR/NIWR Annual Conference, Fort Collins, CO, June 2017.
2. Donahue, Kelly M., Dubar, N.W., and Mclemore, V. T., 2007, "Origins of clay minerals in the Molycorp Mine Goathill North Rock Pile, Questa, NM", Society of Economic Geologists, Global Exploration 2007, Feb. 2007.
3. Donahue, Kelly M., Hauff, P.L., Dunbar, N. W., Lueth, V. W., McLemore, V. T., and Heizeler, L., 2005, "Clay mineralogy of alteration scars and rock piles, Questa area, New Mexico", Geological Society of America Annual meeting, Abstracts with Programs v. 37, n. 7, p. 394.
4. Donahue, K.M., Hauff, P.L., Dunbar, N.W., Lueth, V.W., McLemore, V.T. and Heizler, L., 2005, "Clay mineralogy of alteration scars and rock piles, Questa area, New Mexico" New Mexico Geological Society 2005 Spring Meeting, Abstracts and Programs and New Mexico Geology, v. 27, n. 2, p. 50.
5. Donahue, K., McLemore, V. T., and Campbell, A., 2001, "Preliminary geologic observations of the Victorio mining district, Luna County, New Mexico", Geological Society of America, Rocky Mountain/Southcentral Region, Abstracts with programs, v. 33, no. 5, p. A58.
6. Donahue, K. M., McLemore, Virginia T., Campbell, Andrew R., 2001, "Preliminary geologic observations of the Victorio mining district, Luna County, New Mexico", Geological Society of America, Rocky Mountain Section, 53rd Annual Meeting; Abstracts with Programs, vol. 33, no. 5, p. 58.
7. Donahue, K. M., Mclemore, V. T., and Campbell, A. R., 2002, "Geologic Observations of the Victorio Mountains Mining District, Luna County, New Mexico", Abstracts of oral and poster presentations, Society of Economic Geologists, Global Exploration 2002, pp. 84-85.
8. Lueth, V.W., Peters, L., Campbell, A.R., Donahue, K., McLemore, V.T., and Walker, B.M., 2005, "40Ar/39Ar age and geomorphic development of hydrothermal alteration scars in the Red River valley, New Mexico", Geological Society of America, Abstracts and Programs, v. 37, n. 7, p. 394.
9. McLemore, V. T., Donahue, K., Krueger, C. B., Rowe, A., Ulbricht, L., Jackson, M. J., Breese, M. R., Jones, G., and Wilks, M., 2002, "Database of the uranium mines, prospects, occurrences, and mills in New Mexico", Navajo Abandoned Uranium Mines (NAUM) Partnering Workshop, Farmington, p. 1.

10. Walsh, P., McLemore, V.T., Donahue, K.M., Tachie-Menson, S., Guitierrez, L.A.F., Shannon, H.R., Jones, G.E., 2005, "Mapping the interior of a mine rock pile: Trenches in Goat Hill North, Molycorp Mine, Questa, New Mexico", Geological Society 2005 Spring Meeting, Abstracts and Programs and New Mexico Geology, v. 27, n. 2, p. 50.

Professional Organizations

- Colorado Section of SME – Board member 2017 - present
- Society of Mining, Metallurgy, and Exploration (SME)
- Geological Society of America (GSA)
- Society of Economic Geologist (SEG)
- New Mexico Chapter of SME – Board member 2004 - 2008
- Women's Auxiliary to the American Institute of Mining, Metallurgical and Petroleum Engineers (WAAIME) -scholarship committee board member 2005 - 2008

Appendix D: Data Usability Summary Report

DATA USABILITY SUMMARY REPORT
PATCHOGUE FORMER MGP SITE

Client: Brown and Caldwell, Albany, New York
SDGs: 410-130132-1
Laboratory: Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, NY
Date: June 22, 2023

Client Sample ID	Laboratory Sample ID	Matrix
MW-8S-20230607	410-130132-1	Groundwater
MW-12S-20230607	410-130132-2	Groundwater
MW-12D-20230607	410-130132-3	Groundwater
MW-11S-20230607	410-130132-4	Groundwater
MW-3-20230607	410-130132-5	Groundwater
DUP-20230607	410-130132-6	Groundwater
MW-13S-20230608	410-130132-7	Groundwater
MW-13D-20230608	410-130132-8	Groundwater
MW-1-20230608	410-130132-9	Groundwater
MW-4S-20230608	410-130132-10	Groundwater
MW-7S-20230608	410-130132-11	Groundwater
MW-10S-20230608	410-130132-12	Groundwater
MW-14S-20230608	410-130132-13	Groundwater
FB-20230608	410-130132-14	Water
TB-20230608	410-130132-15	Trip Blank

Data validation was performed on the analytical data for fifteen (15) samples collected on June 7 through June 8, 2023 by Brown and Caldwell associates at the Patchogue Site in New York. The samples were analyzed under the Environmental Protection Agency (USEPA) "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS), SW-846 Method 8260C", August 2006, "Test Methods for Evaluating Solid Wastes, SW-846 Method 8270D (SIM), February 2007" and "Test Methods for Evaluating Solid Wastes, SW-846 Method 3510C, Rev 3", December 1996. Specific method references are as follows:

Analysis	*Method References*
Volatile Organic Compounds (VOCs)	USEPA SW-846 SW8260C
Semi Volatile Organic Compounds (SVOCs)	USEPA SW-846 SW8270D

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-34a, Revision 0, July 2015, Trace Volatile Data Validation;

- SOP Number HW-35a, Revision 0, June 2015, Semivolatile Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

- Data Completeness
- Holding times and sample preservation
- Field Duplicate Accuracy
- Internal Standard Area and RT
- Surrogates
- Laboratory Control Sample (LCS) recoveries
- Matric Spike and Matrix Spike Duplicate Samples
- Method and field blank contamination
- Initial and continuing calibration summaries
- Compound Quantitation
- Reporting Limits
- Sample comments and Quality Control Summaries

Overall Usability Issues:

Overall, the data is acceptable for the intended purposes. No analytical issues were found. Associated sample results are appropriately qualified and are usable for intended purpose.

Holding Times

- Holding times were achieved for all analyses.

Field Duplicate Accuracy

- One duplicate was collected for this dataset. DUP-20230607 is the sample duplicate for MW-12D-20230607. All relative percent differences were within control limits.

Internal Standard Areas

- All samples exhibited acceptable internal standard values.

Surrogates

- All samples exhibited acceptable surrogate recovery values.

Laboratory Control Samples

- All laboratory control samples and laboratory control sample duplicates exhibited acceptable recovery values and relative percent differences.

Matric Spike and Matrix Spike Duplicate (MS/MSD) Samples

- The MS/MSD samples were analyzed on MW-7S-20230608, and percent recoveries are within acceptable limits.

Method, Trip, and Field Blanks

- The trip blank was free of contamination.
- The field blank was free of contamination.

Initial Calibration

- All recoveries and/or correlation coefficient criteria were met.

Continuing Calibration

- All Percent Drift criteria were met.
- All recoveries and/or correlation coefficient criteria were met.

Compound Quantitation

- All sample detections detected above the MDL and below the RL are appropriately qualified as estimated, J, by the laboratory.

Reporting Limits

- Samples MW-11S-20230607 and MW-3-20230607, were diluted due to elevated SVOC concentrations. Elevated reporting limits are provided.
- All other laboratory reporting limits were met.

Please contact the undersigned if you have any questions or need further information.

Signed: Dated: June 22, 2023

Kelly Donahue, P.G.
Senior Geochemist and Validator
Brown and Caldwell

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for but was not detected above the method detection limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Reason Codes

1	Holding time violation
2	Method blank contamination
3	Surrogate recovery
4	MS/MSD recovery
5	MS/MSD precision outside limits
6	LCS recovery
7	Field blank contamination
8	Field duplicate precision outside limits
9	Other deficiencies (including cooler temperature)
A	Absence of supporting QC
S	ICV, CCV or column performance check problem
Y	Initial and continuing calibration blank problem
M	Interference check samples problem
O	Post digestion spike outside of 85-115%
F	MSA correlation coefficient <0.995, or MSA not done
G	Serial dilution problem
K	DFTPP or BFB tuning problem
Q	Initial calibration problem
X	Internal standard recovery problem
V	Second source standard calibration verification problem
L	Low bias
Z	Retention time problem
N	Counting time error (radionuclide chemistry)
W	Detector instability (radionuclide chemistry)
C	Co-elution of compounds
E	Value exceeds linear calibration range
I	Interferences present during analysis
T	Trace level compound, poor quantitation
P	1C/2C precision outside limits
B	LCS/LCSD precision outside limits
D	Lab Dup/Rep precision outside limits
H	High bias

Appendix E: Evaluation of Potential Impact to River from Site Constituents in Groundwater – 2020 Data

Appendix F

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the First Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the first groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure F-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene, ethylbenzene, xylenes and naphthalene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration in groundwater of three potentially mobile constituents (acenaphthene, fluorene and pyrene) were slightly above their respective applicable surface water quality criteria. Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i = Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: $A_i = (L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the March 2020 sampling event (see Figures F-2 through F-4). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table F-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment F-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of acenaphthene, fluorene and pyrene were developed using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for acenaphthene, fluorene and pyrene that are applicable to the various classes of fresh water.

Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Acenaphthene	A, A-S, AA, AA-S, B, C	--	5.3	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	48	Fish survival
	A, A-S, AA, AA-S	20	--	Aesthetics
Fluorene	A, A-S, AA, AA-S	--	50	Drinking water source
	A, A-S, AA, AA-S, B, C	--	0.54	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	4.8	Fish survival
Pyrene	A, A-S, AA, AA-S	--	50	Drinking water source
	A, A-S, AA, AA-S, B, C	--	4.6	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	42	Fish survival

Attachments F-2 through F-4 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Acenaphthene = 0.0033 µg/L
- Fluorene = 0.00050 µg/L
- Pyrene = 0.00127 µg/L

These conservatively-estimated (i.e., biased high) concentrations are three orders of magnitude below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentration of fluorene is below the analytical laboratory detection limits for this constituent. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

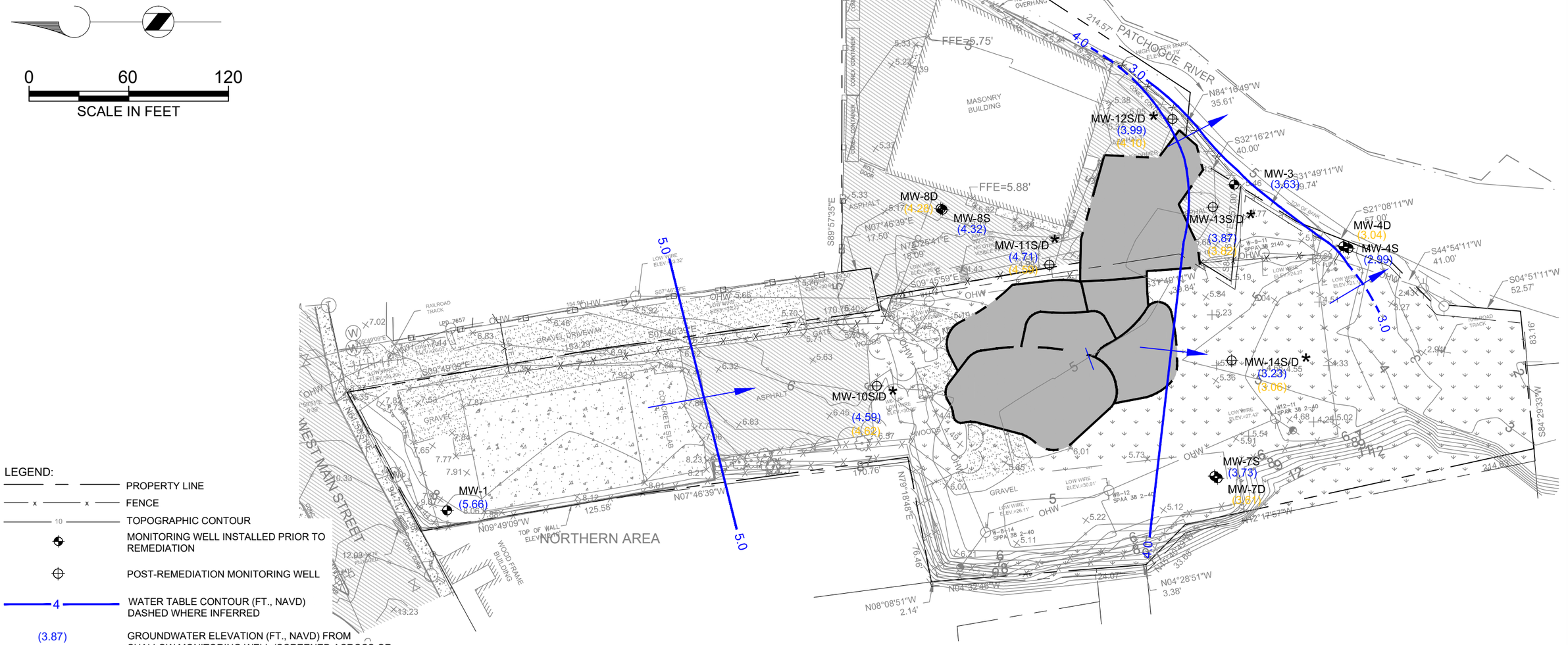
TABLE F-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (3.87) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE)
- (3.06) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- * HORIZONTAL LOCATION AND POSTED GROUNDWATER ELEVATION DATA IS APPROXIMATE, AS SURVEYING OF WELLS WILL BE PERFORMED FOLLOWING COMPLETION OF FINAL SITE RESTORATION ACTIVITIES.

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: May 6, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
MARCH 17, 2020

FIGURE

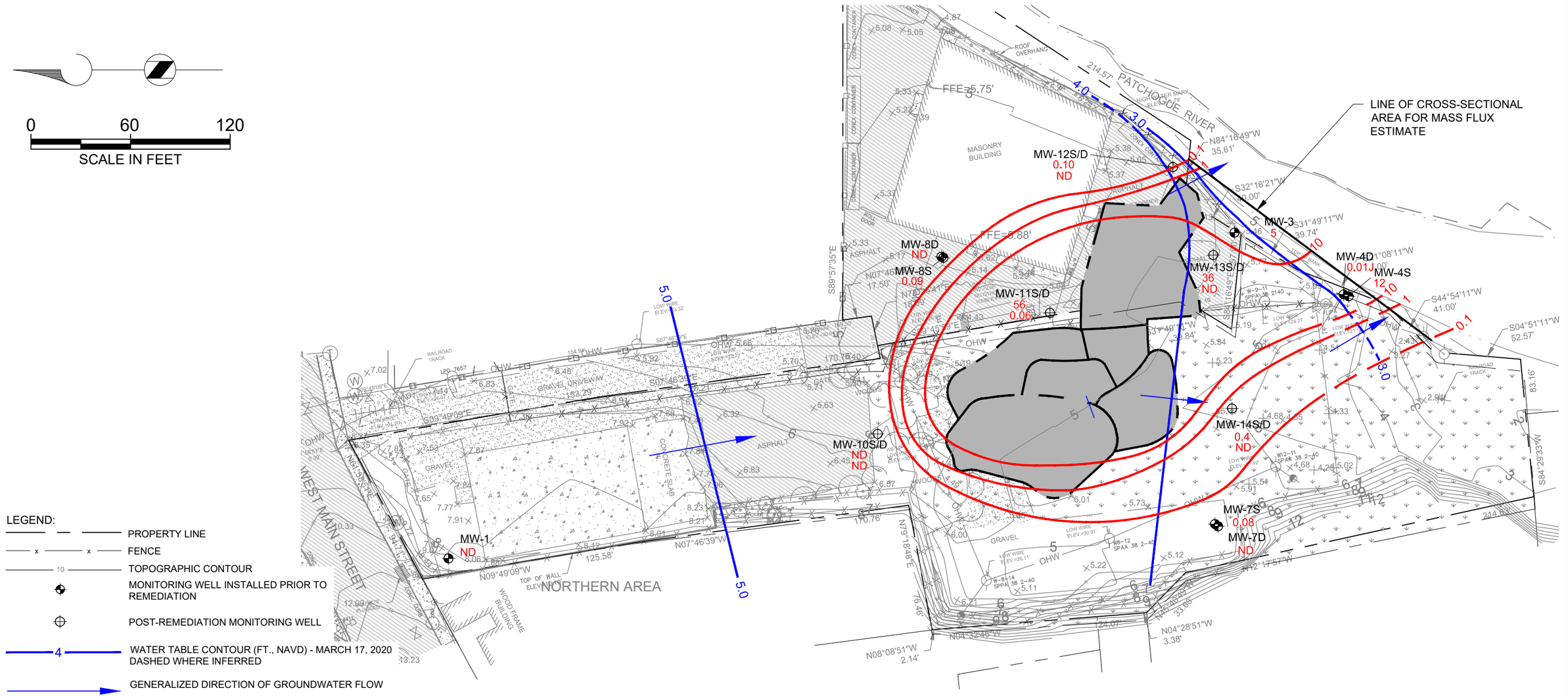
F-1

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1(Mar2020) Plot Date: May 6, 2020 7:32 AM Cadd User: Alan Santiago

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_2_acenaphthene_March2020 Plot Date: May 29, 2020 10:20 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- WATER TABLE CONTOUR (FT., NAVD) - MARCH 17, 2020 DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L)
- ACENAPHTHENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- J — ESTIMATED CONCENTRATION
- ND — NOT DETECTED

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: May 6, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

ACENAPHTHENE IN GROUNDWATER MARCH 2020

FIGURE

F-2

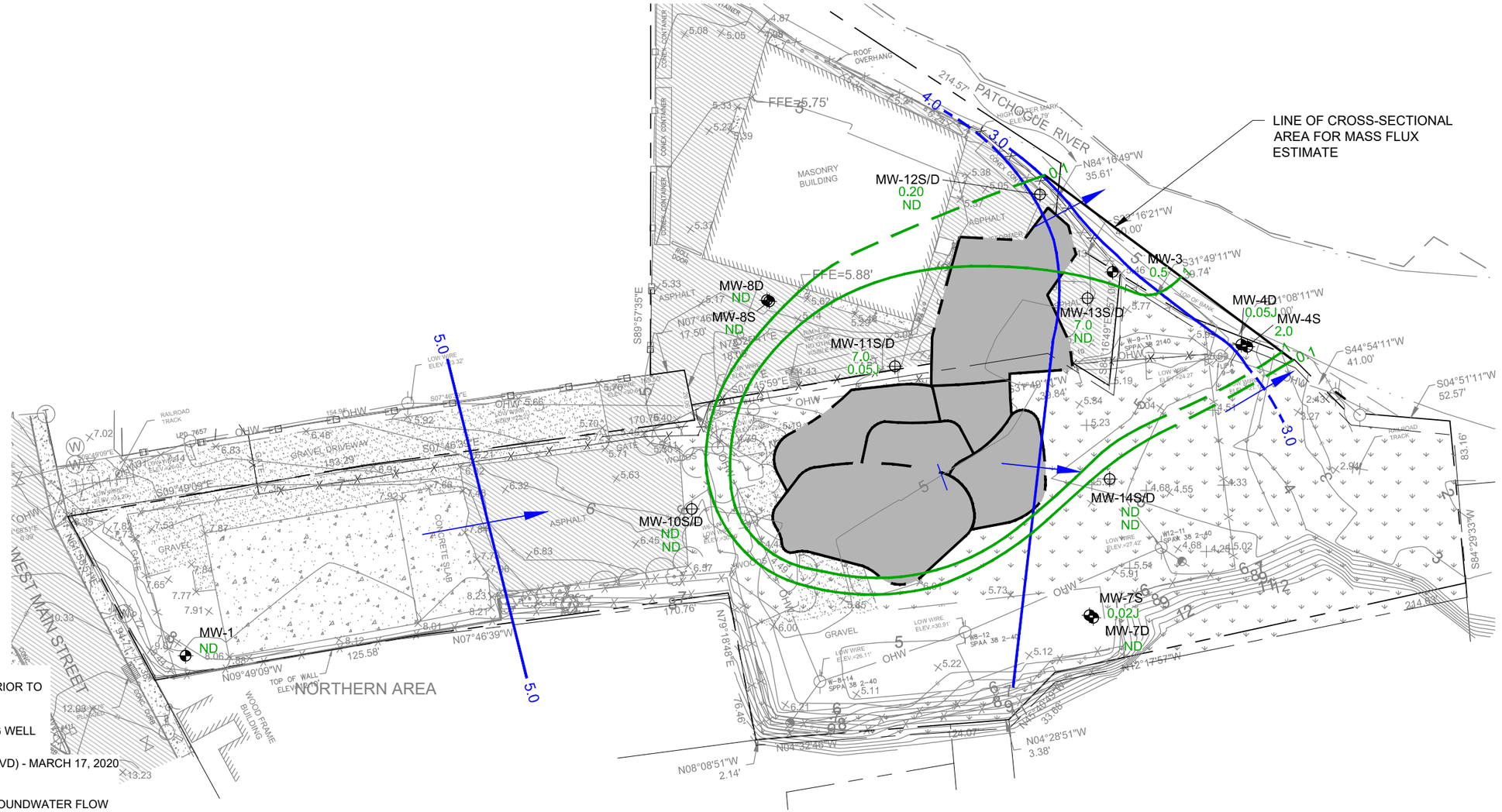
Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_3_fluorene_March2020 Plot Date: May 29, 2020 10:23 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- WATER TABLE CONTOUR (FT., NAVD) - MARCH 17, 2020 DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L)
- FLUORENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- J ESTIMATED CONCENTRATION
- ND NOT DETECTED


LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE
PATCHOGUE RIVER
MW-1 ND
MW-3 0.5
MW-4D 0.05J
MW-4S 2.0
MW-7D ND
MW-7S 0.02J
MW-8D ND
MW-8S ND
MW-10S/D ND ND
MW-11S/D 7.0 0.05J
MW-12S/D 0.20 ND
MW-13S/D 7.0 ND
MW-14S/D ND ND
NORTHERN AREA
WEST MAIN STREET
MASONRY BUILDING
WOOD FRAME BUILDING
CONCRETE SLAB
GRAVEL
ASPHALT
GRAVEL DRIVEWAY
RAILROAD TRACK
FFE=5.75'
FFE=5.88'
214.57'
N84°16'49"W 35.61'
S32°16'21"W 41.00'
S31°49'11"W 40.74'
S21°08'11"W 41.00'
S44°54'11"W 41.00'
S04°51'11"W 52.57'
S84°29'33"W 214.83'
N12°17'57"W 33.88'
N04°28'51"W 3.38'
N08°08'51"W 2.14'
N04°52'46"W 24.07'
N79°18'48"E 76.46'
N79°46'39"W 170.76'
S07°46'39"E 170.76'
N07°46'39"W 125.58'
N09°49'09"W 154.96'
S09°49'09"E 153.29'
S89°57'35"E 214.57'
N07°46'39"W 17.50'
S07°46'39"E 18.00'
S37°40'45"W 39.84'
S45°59'E 39.43'
N51°59'E 39.39'
N51°59'E 39.39'
83.16'
83.16'
OHW
OHW
OHW

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_4_pyrene_March2020 Plot Date: May 29, 2020 10:21 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

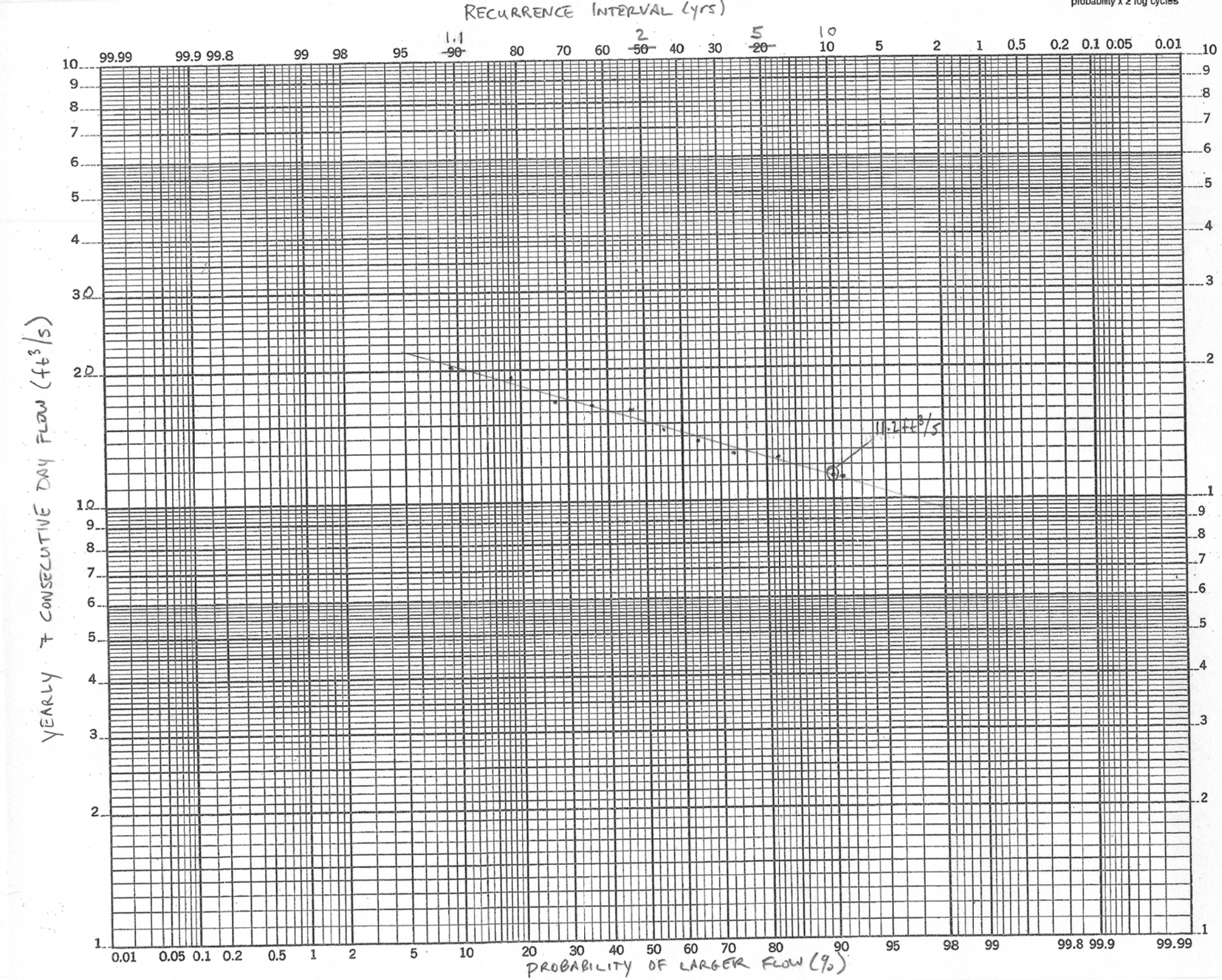
LEGEND:

- PROPERTY LINE
- x x FENCE
- 10 TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- 4 WATER TABLE CONTOUR (FT., NAVD) - MARCH 17, 2020 DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 1 ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L)
- 5.0 PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- J ESTIMATED CONCENTRATION
- ND NOT DETECTED

NOTES:
1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: May 6, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	PYRENE IN GROUNDWATER MARCH 2020	FIGURE F-4

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT F-2
MASS FLUX CALCULATIONS - ACENAPHTHENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Acenaphthene (March 2020) **Figure No.** See Figure F-2

$mf = kiA * C$

Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=$µg/cm^3$

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1	0.32	36	18
C=	0.316227766	µg/L =	0.000316228	$µg/cm^3$	Geometric mean concentration between selected contours	10	3.16	90	18
L =	36	ft =	1097.28	cm	Length of segment between selected contours [C]	12	10.95	45	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.5E-02	µg/s	4.8E-01	g/yr	0.00105 lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	3.16	µg/L =	0.003162278	$µg/cm^3$	Geometric mean concentration between selected contours
L =	90	ft =	2743.2	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.8E-01	µg/s	1.2E+01	g/yr	0.0262 lbs/yr

10-12 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	10.95	µg/L =	0.010954451	$µg/cm^3$	Geometric mean concentration between selected contours
L =	45	ft =	1371.6	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	6.5E-01	µg/s	2.1E+01	g/yr	0.045 lbs/yr
mf_{sgw} =	1	µg/s	33	g/yr	0.1 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0033 µg/L

ATTACHMENT F-3
MASS FLUX CALCULATIONS - FLUORENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Fluorene (March 2020) **Figure No.** See Figure F-3

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	**Contour Interval**	**Geomean**
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	0.1	
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32
L =	90	ft =	2743.2	cm	Length of segment between selected contours [C]	2	1.41
b =	18	ft =	548.64	cm	Saturated thickness		

Segment Length	**Thickness**
90	18
65	18

mf =	3.8E-02	µg/s	1.2E+00	g/yr	0.00262 lbs/yr

1-2 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	1.41	µg/L =	0.001414214	µg/cm^3	Geometric mean concentration between selected contours
L =	65	ft =	1981.2	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness

mf =	1.2E-01	µg/s	3.8E+00	g/yr	0.0085 lbs/yr
mf_{sgw} =	0	µg/s	5	g/yr	0.0 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00050 µg/L

ATTACHMENT F-4
MASS FLUX CALCULATIONS - PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Pyrene (March 2020) **Figure No.** See Figure F-4

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

								Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells			0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours			1	0.32	38	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours			5	2.24	130	18
L =	38	ft =	1158.24	cm	Length of segment between selected contours [C]						
b =	18	ft =	548.64	cm	Saturated thickness						
mf =	1.6E-02	µg/s	5.0E-01	g/yr	0.00111	lbs/yr					

1-5 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours		
C=	2.24	µg/L =	0.002236068	µg/cm^3	Geometric mean concentration between selected contours		
L =	130	ft =	3962.4	cm	Length of segment between selected contours [C]		
b =	18	ft =	548.64	cm	Saturated thickness		
mf =	3.9E-01	µg/s	1.2E+01	g/yr	0.0268	lbs/yr	
mf_{sgw} =	0	µg/s	13	g/yr	0.0	lbs/yr	

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00127 µg/L

Appendix G

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Second Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the second groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure G-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the water quality in the river. However, the concentration in groundwater of four potentially mobile constituents (acenaphthene, fluorene, naphthalene and pyrene) were above their respective applicable surface water quality criteria. Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, a mass flux analysis was conducted to confirm this. The concentrations of acenaphthene, fluorene and pyrene in the June 2020 samples were similar (within the same order of magnitude) to those in the March 2020 samples. Since the estimated surface water concentrations of these three constituents based on the mass flux analysis using the March 2020 data (see Appendix F) were three orders of magnitude below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary, and the analysis discussed herein was conducted for naphthalene only.

An analysis was conducted to assess the potential for discharge of naphthalene in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of naphthalene, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf=\Sigma\ C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i=Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (figure cm^2)

where: $A_i=(L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the June 2020 sampling event (see Figure G-2). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R=mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table G-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment G-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentration of naphthalene was calculated using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for naphthalene that are applicable to the various classes of fresh water.

Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Naphthalene	A, A-S, AA, AA-S, B, C	--	13	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	110	Fish survival
	A, A-S, AA, AA-S	10	--	Aesthetics

Attachment G-2 contains the calculations and results for this constituent. The estimated concentration of naphthalene in the Patchogue River resulting from site groundwater impacts is 0.0197 µg/L. This conservatively-estimated (i.e., biased high) concentration is three orders of magnitude below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentration is below the analytical laboratory detection limits for this constituent. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE G-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures

Path: P:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(June-2020) Plot Date: September 16, 2020 1:43 PM Cadd User: Robert Near

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) — GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) — GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: July 29, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
JUNE 29, 2020

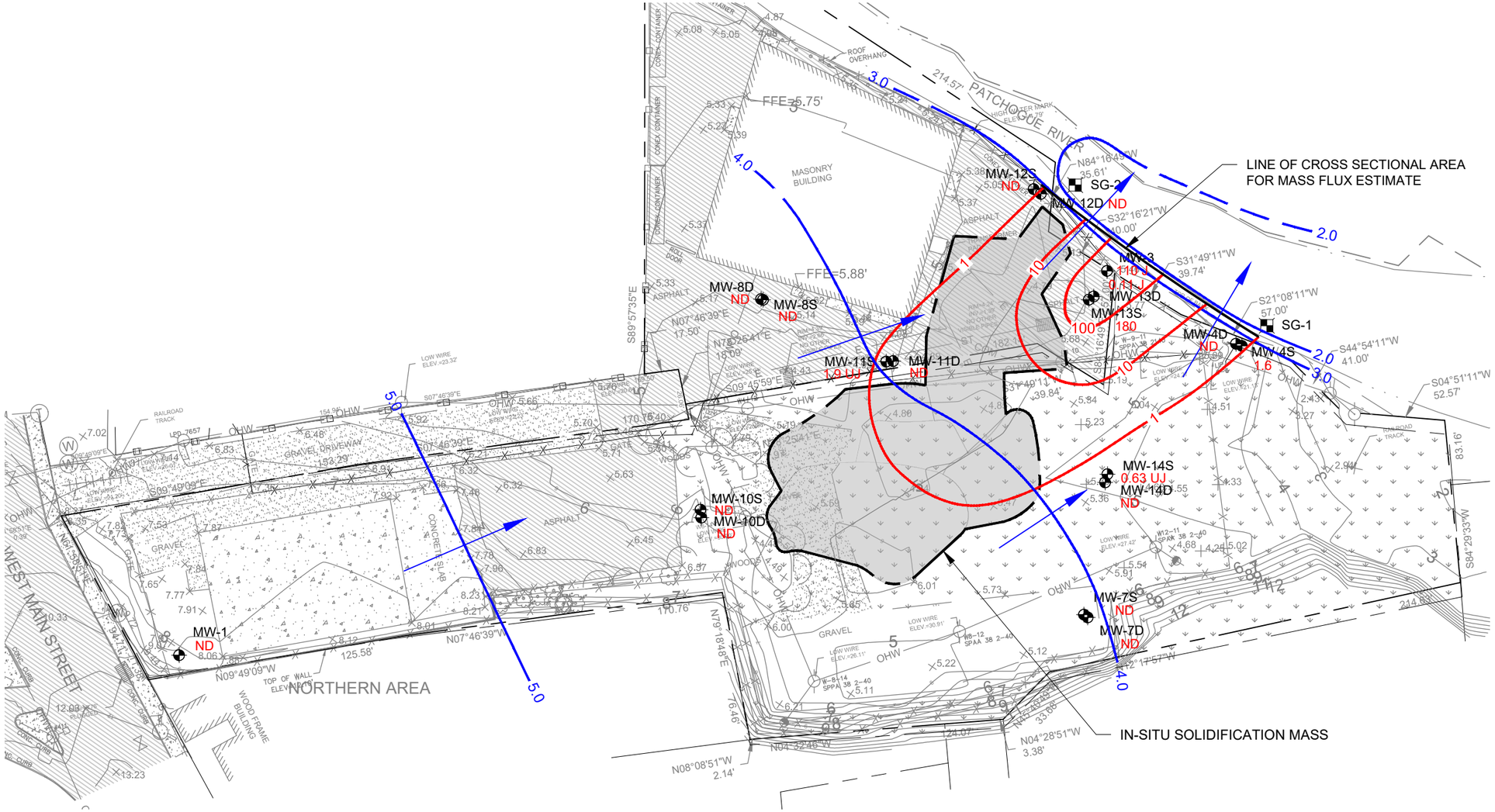
FIGURE

G-1

Path: P:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-2_acenaphthene(June2020) Plot Date: September 16, 2020 1:43 PM Cadd User: Robert Near

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 10 — ISOCONCENTRATION CONTOUR. LOGARITHMIC CONTOUR INTERVAL (µg/L)
- 1.6 — NAPHTHALENE CONCENTRATION IN GROUNDWATER (µg/L) - JUNE 2020
- J — ESTIMATED CONCENTRATION
- ND — NOT DETECTED

NOTES:

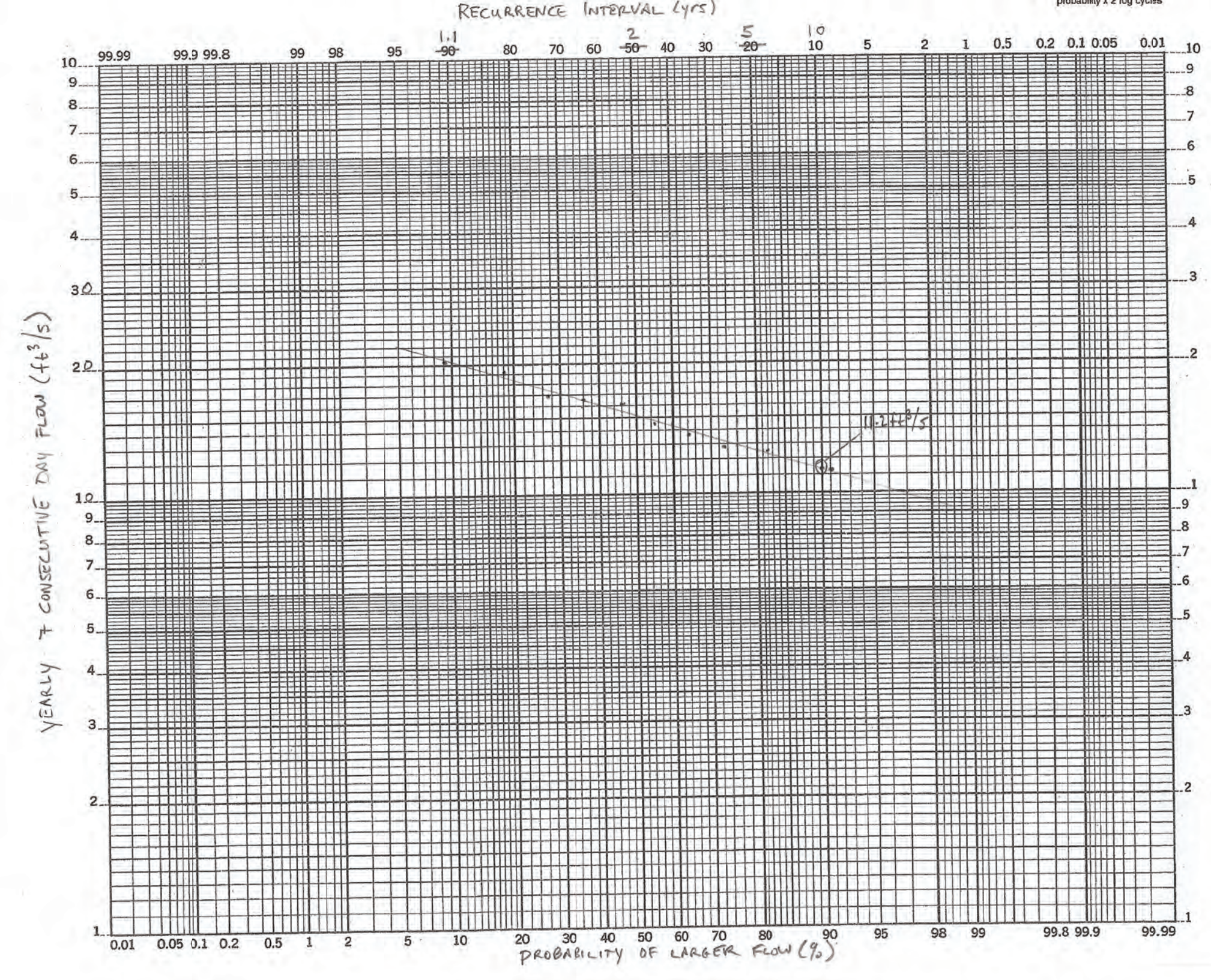
1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: September 11, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	NAPHTHALENE IN GROUNDWATER JUNE 2020

FIGURE

G-2

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT G-2
MASS FLUX CALCULATIONS - NAPHTHALENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Naphthalene (June 2020) **Figure No.** See Figure G-2

$mf = kiA * C$

Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

1-10 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells				
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1			
C=	3.16	µg/L =	0.00316	µg/cm^3	Geometric mean concentration between selected contours	10	3.16	66	18
L =	66	ft =	2011.68	cm	Length of segment between selected contours [C]	100	31.62	32	18
b =	18	ft =	548.64	cm	Saturated thickness	110	104.88	30	18
mf =	3.0E-01	µg/s	9.4E+00	g/yr	0.02070 lbs/yr				

10-100 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	31.62	µg/L =	0.0316	µg/cm^3	Geometric mean concentration between selected contours
L =	32	ft =	975.36	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	1.4E+00	µg/s	4.6E+01	g/yr	0.1003 lbs/yr

100-110 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	104.88	µg/L =	0.105	µg/cm^3	Geometric mean concentration between selected contours
L =	30	ft =	914.4	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	4.5E+00	µg/s	1.4E+02	g/yr	0.312 lbs/yr
mf_{sgw} =	6	µg/s	197	g/yr	0.4 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0197 µg/L

Appendix E

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Third Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the first groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure E-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration of six constituents (acenaphthene, benzo(a)anthracene, fluorene, naphthalene, phenanthrene and pyrene) were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S). Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this. The concentrations of acenaphthene and naphthalene in the September 2020 samples were similar (within the same order of magnitude) to those in the March and June 2020 samples. Since the estimated surface water concentrations of these two constituents based on the mass flux analysis using the March and June 2020 data were three orders of magnitude below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary. However, due to increased concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene in MW-3, an additional analysis was conducted for these constituents.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: q_i=Ki, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: A_i=(L)(b), with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the September 2020 sampling event (see Figures E-2 through E-5). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table F-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment F-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene were developed using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for benzo(a)anthracene, fluorene, phenanthrene and pyrene that are applicable to Class C Fresh Water (no standards have been developed for these compounds).

Class C Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Benzo(a)anthracene	A, A-S, AA, AA-S, B, C	--	0.03	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	0.23	Fish survival
Fluorene	A, A-S, AA, AA-S, B, C	--	0.54	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	4.8	Fish survival
Phenanthrene	A, A-S, AA, AA-S, B, C	--	5.0	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	45	Fish survival
Pyrene	A, A-S, AA, AA-S, B, C	--	4.6	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	42	Fish survival

Attachments E-2 through E-5 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Benzo(a)anthracene = 0.0008 µg/L
- Fluorene = 0.003 µg/L
- Phenanthrene = 0.001 µg/L
- Pyrene = 0.007 µg/L

These conservatively-estimated (i.e., biased high) concentrations are below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentrations are below the analytical laboratory detection limits for these constituents. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

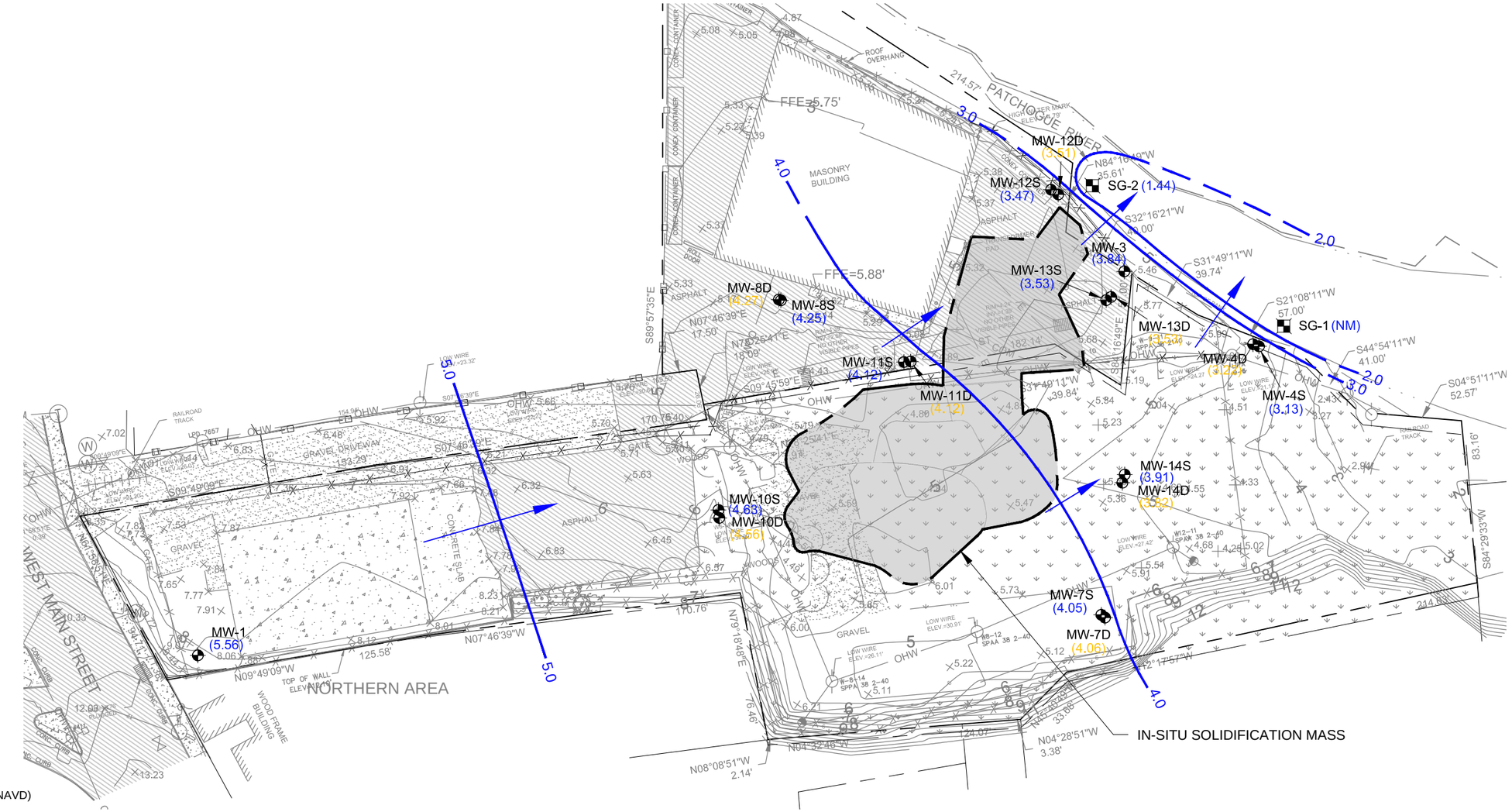
ft^3/s - cubic feet per second

Figures

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(Sept-2020) Plot Date: December 4, 2020 11:07 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) — GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) — GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: July 29, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP SEPTEMBER, 2020

FIGURE

E-1

Path: \\bcusrfp011\Projects\DRAFTING\NATIONAL_GRID\PatchoguetQuarterly-GW-Contour-Map File Name: FIG-E-2_Benzo(a)athracene-(Sept-2020) Plot Date: December 4, 2020 11:08 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 2.4 — BENZO(a)ANTHRACENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- 1 — ISOCONCENTRATION CONTOUR. LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

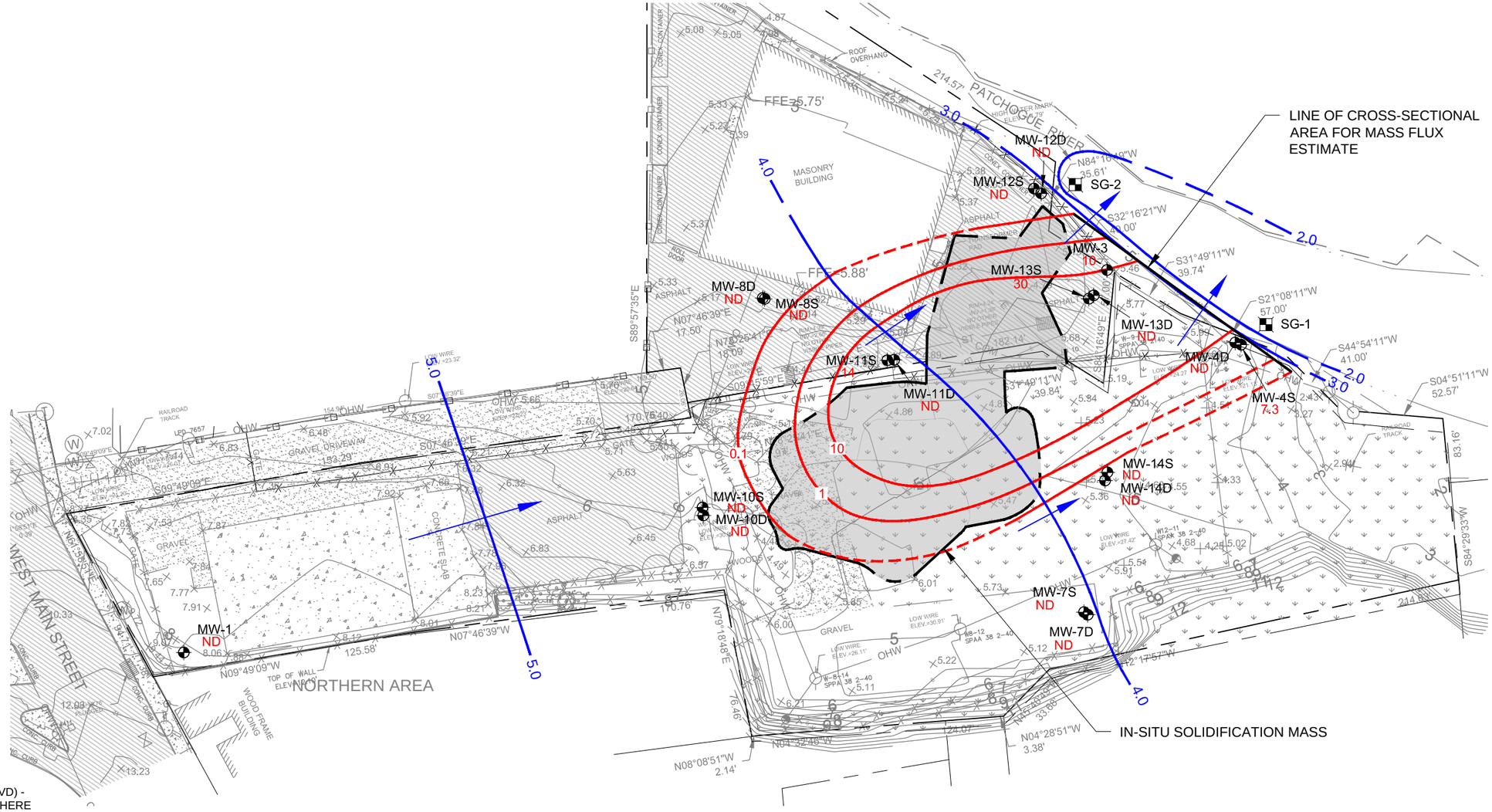
NORTHERN AREA

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: November 17, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	BENZO(a)ANTHRACENE IN GROUNDWATER (µg/L) SEPTEMBER 2020	FIGURE E-2

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E-3_Fluorene-(Sept-2020) Plot Date: December 4, 2020 11:10 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 10 — FLUORENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: November 17, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

FLUORENE IN GROUNDWATER (µg/L) SEPTEMBER 2020

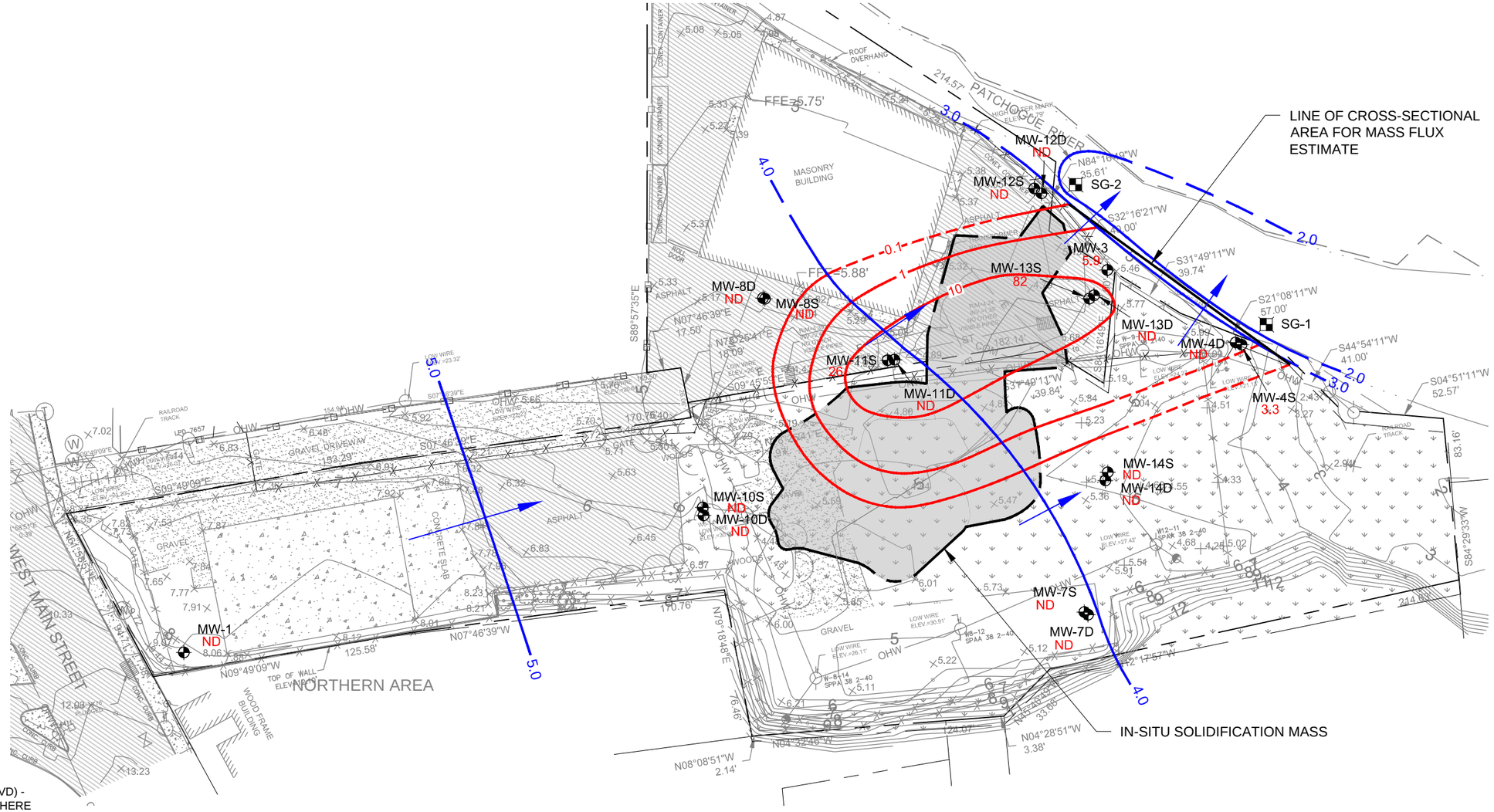
FIGURE

E-3

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E-4_Phenanthrene-(Sept-2020) Plot Date: December 4, 2020 11:11 AM Cadd User: Alan Santia

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 5.9 — PHENANTHRENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: November 17, 2020

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

PHENANTHRENE IN GROUNDWATER (µg/L)
SEPTEMBER 2020

FIGURE

E-4

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E-5_Pyrene-(Sept-2020) Plot Date: December 4, 2020 11:13 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) - SEPTEMBER 28, 2020 - DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 17 — PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - SEPTEMBER 2020
- ND — NOT DETECTED
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L).

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

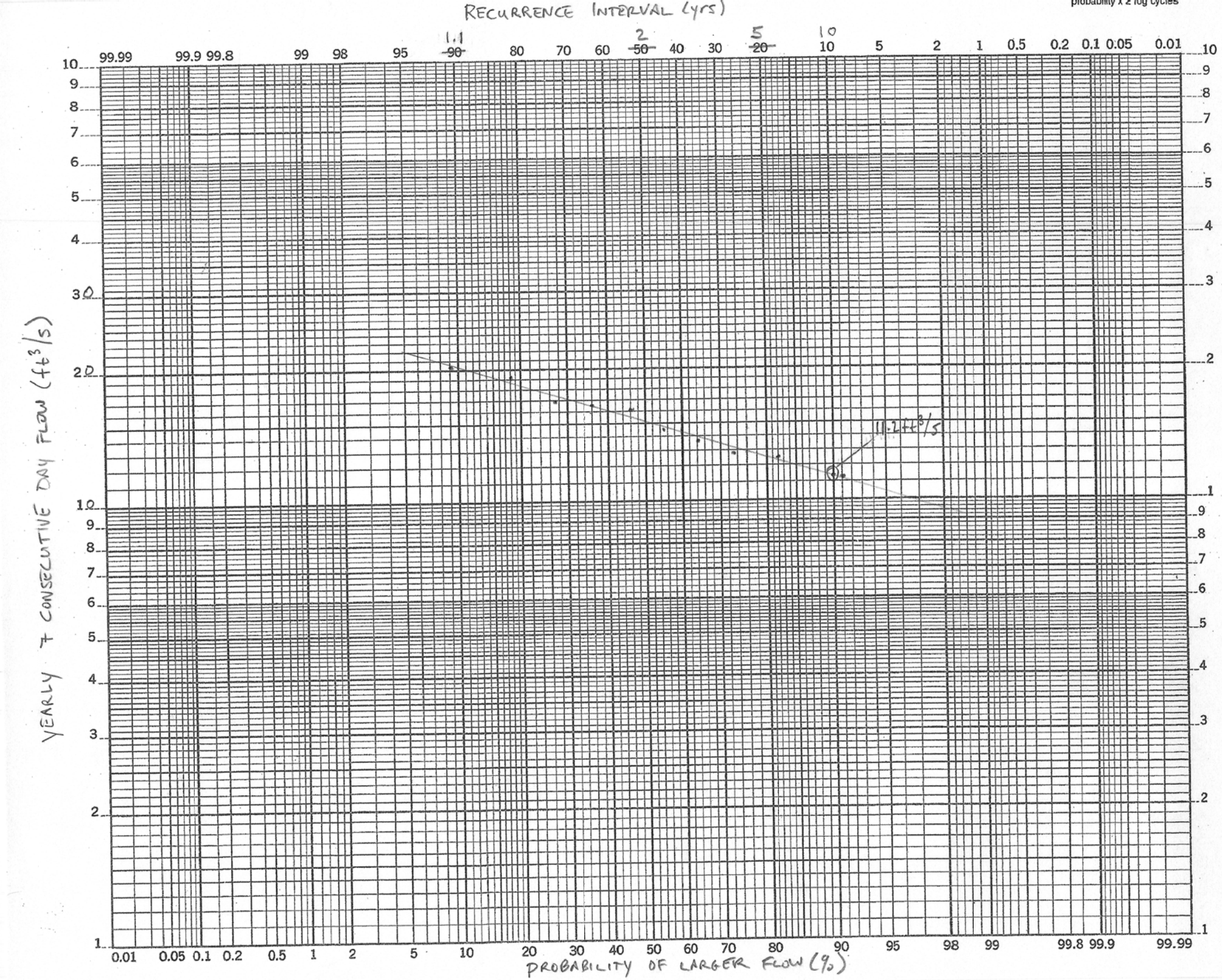
LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: November 17, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	PYRENE IN GROUNDWATER (µg/L) SEPTEMBER 2020	FIGURE E-5

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT E-2
MASS FLUX CALCULATIONS - BENZO(A)ANTHRACENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Benzon(a)anthracene (September 2020) **Figure No.** See Figure E-2

mf = kiA * C
Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\ (L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours				
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32	34	18
L =	34	ft =	1036.32	cm	Length of segment between selected contours [C]	4.8	2.19	80	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.4E-02	µg/s	4.5E-01	g/yr	0.00099 lbs/yr				

1-4.8 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2.19	µg/L =	0.00219089	µg/cm^3	Geometric mean concentration between selected contours
L =	80	ft =	2438.4	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	2.3E-01	µg/s	7.3E+00	g/yr	0.0161 lbs/yr
mf_{sgw} =	0.25	µg/s	7.8	g/yr	0.017 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0008 µg/L

ATTACHMENT E-3
MASS FLUX CALCULATIONS - FLUORENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Fluorene (September 2020) **Figure No.** See Figure E-3

mf = kiA * C
Where: mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour		Segment	
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	Interval	Geomean	Length	Thickness
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	0.1			
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32	32	18
L =	32	ft =	975.36	cm	Length of segment between selected contours [C]	10	3.16	46	18
b =	18	ft =	548.64	cm	Saturated thickness	10	10.00	60	18
mf =	1.3E-02	µg/s	4.2E-01	g/yr	0.00093 lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	3.16	µg/L =	0.003162278	µg/cm^3	Geometric mean concentration between selected contours
L =	46	ft =	1402.08	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	1.9E-01	µg/s	6.1E+00	g/yr	0.0134 lbs/yr

10-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	10.00	µg/L =	0.01	µg/cm^3	Geometric mean concentration between selected contours
L =	60	ft =	1828.8	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	8.0E-01	µg/s	2.5E+01	g/yr	0.0552 lbs/yr
mf_{sgw} =	1.0	µg/s	32	g/yr	0.070 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where: D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.003 µg/L

ATTACHMENT E-4
MASS FLUX CALCULATIONS - PHENANTHRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Phenanthrene (September 2020) **Figure No.** See Figure E-4

mf = kiA * C
Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\ (L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours				
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32	38	18
L =	38	ft =	1158.24	cm	Length of segment between selected contours [C]	5.9	2.43	107	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.6E-02	µg/s	5.0E-01	g/yr	0.00111 lbs/yr				

1-5.9 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2.43	µg/L =	0.002428992	µg/cm^3	Geometric mean concentration between selected contours
L =	107	ft =	3261.36	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.4E-01	µg/s	1.1E+01	g/yr	0.0239 lbs/yr
mf_{sgw} =	0.36	µg/s	11	g/yr	0.025 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.001 µg/L

ATTACHMENT E-5
MASS FLUX CALCULATIONS - PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Pyrene (September 2020) **Figure No.** See Figure E-5

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = $(\mu g/L)/1000 = \mu g/cm^3$

Shallow Groundwater Flux

0.1-1 Contour

							Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours		1	0.32	19	18
C=	0.316227766	µg/L =	0.000316228	µg/cm³	Geometric mean concentration between selected contours		10	3.16	45	18
L =	19	ft =	579.12	cm	Length of segment between selected contours [C]		35	18.71	85	18
b =	18	ft =	548.64	cm	Saturated thickness					
mf =	8.0E-03	µg/s	2.5E-01	g/yr	0.00055	lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	3.16	µg/L =	0.003162278	µg/cm³	Geometric mean concentration between selected contours	
L =	45	ft =	1371.6	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	1.9E-01	µg/s	6.0E+00	g/yr	0.0131	lbs/yr

1-35 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	18.71	µg/L =	0.018708287	µg/cm³	Geometric mean concentration between selected contours	
L =	85	ft =	2590.8	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	2.1E+00	µg/s	6.7E+01	g/yr	0.1464	lbs/yr
mf_{sgw} =	2.3	µg/s	73	g/yr	0.16	lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.007 µg/L

Appendix E

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Fourth Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the December 2020 sampling event. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure E-1 for a depiction of shallow groundwater flow). The concentrations of some of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration of one or more of seven constituents -- acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene, and pyrene -- were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S). Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this. The concentrations of acenaphthene, benzo(a)anthracene, fluorene, naphthalene, and pyrene in the December 2020 samples were similar (within the same order of magnitude) to those in the March, June, and September 2020 samples. Since the estimated surface water concentrations of these five constituents based on the mass flux analyses using the March, June, and September 2020 data were below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary. However, due to increased concentrations of benzo(a)pyrene and phenanthrene in MW-3 in the December 2020 samples, an additional analysis was conducted for these constituents.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. Noteworthy is that including benzo(a)pyrene in this evaluation is a very conservative measure in that benzo(a)pyrene has a very low aqueous solubility, is not readily mobile in groundwater, and is unlikely to have migrated from the on-Site source area, Moreover, the detection of this constituent in the monitoring locations is likely related to the disturbance of fine or colloid sized particles during purging or sampling activities. These particles are derived from within the well or the soil adjacent to the well that become suspended into the water column of the well as a result of disturbance during purging and sampling activities.

The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described

in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf=\Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i=Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: $A_i=(L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the December 2020 sampling event (see Figures E-2 and E-3). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R=mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table E-1 provides the data used to determine the 7Q10 flow

in the Patchogue River. Attachment E-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of benzo(a)pyrene and phenanthrene were calculated using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for benzo(a)pyrene and phenanthrene that are applicable to Class C Fresh Water (no standards have been developed for these compounds).

Class C Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Benzo(a)pyrene	A, A-S, AA, AA-S, B, C, D	--	0.0012	Human Consumption of Fish
Phenanthrene	A, A-S, AA, AA-S, B, C	--	5.0	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	45	Fish survival

Attachments E-2 and E-3 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Benzo(a)pyrene = 0.00008 µg/L
- Phenanthrene = 0.025 µg/L

These conservatively estimated (i.e., biased high) concentrations are below the surface water guidance values listed above, including the lowest guidance value applicable to Class C surface waters. Also, the estimated concentrations are below the analytical laboratory detection limits for these constituents. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

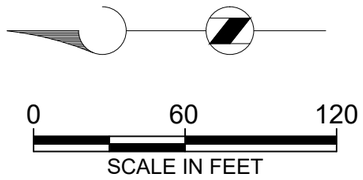
TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

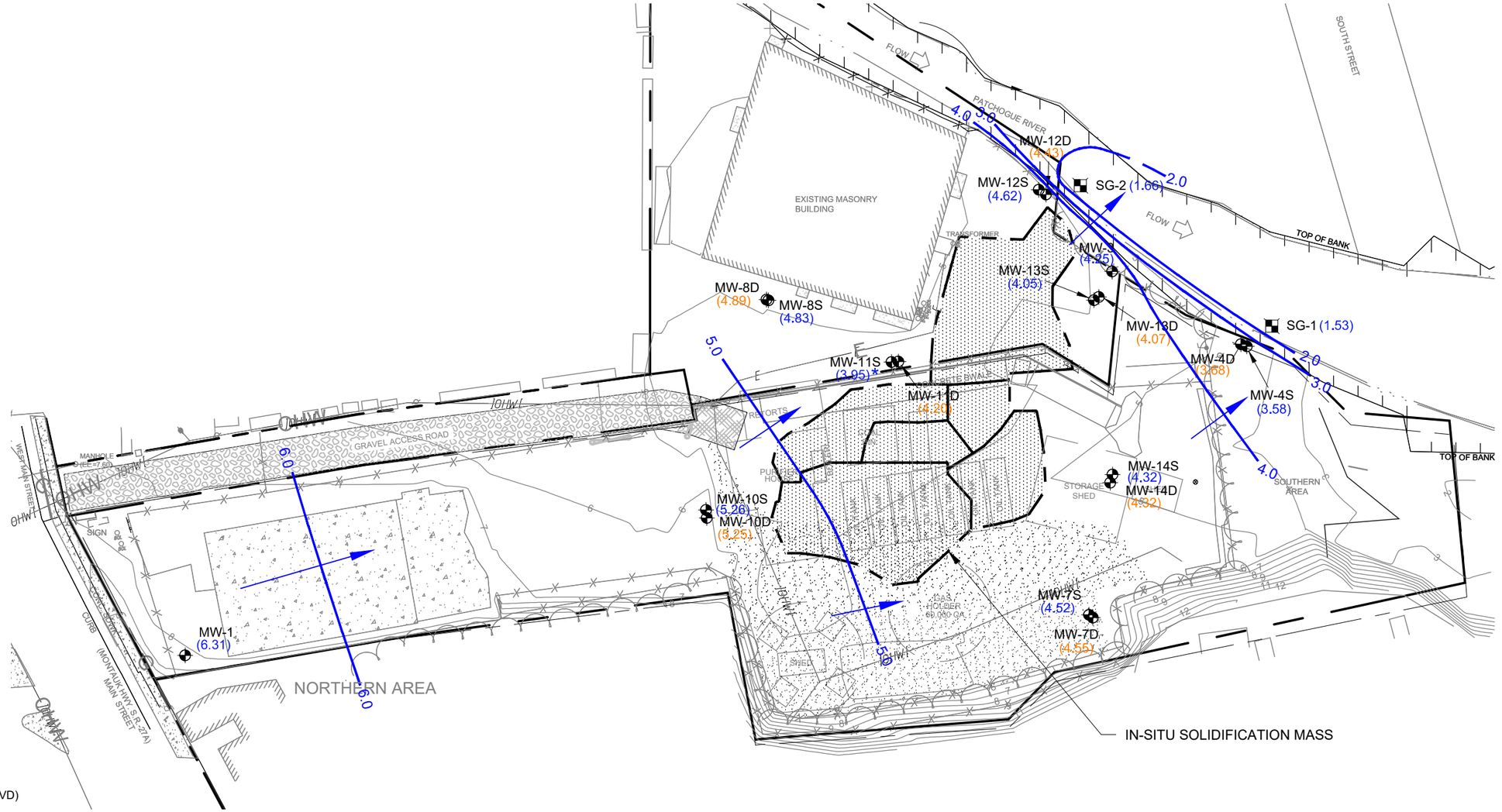
Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures





LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: February 2021

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
DECEMBER 28, 2020

FIGURE

E-1

Path: C:\users\asantiago\bcpwld0901435 File Name: FIG-1-(GW_Contours_December-2020) Plot Date: February 5, 2021 4:04 PM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- 10 TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 0.1 ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.10 J BENZO(A)PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- ND NOT DETECTED
- J ESTIMATED CONCENTRATION
- 4.0 WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

MW-1 ND
MW-4D ND
MW-4S ND
MW-7D ND
MW-7S ND
MW-8D ND
MW-8S ND
MW-10D ND
MW-10S ND
MW-11D ND
MW-11S 0.16 J
MW-12D ND
MW-12S ND
MW-13D ND
MW-13S ND
MW-14D ND
MW-14S ND
SG-1
SG-2

Path: C:\users\asantiagobcpw\d0901435 File Name: BenzoApyrene_December2020 Plot Date: February 8, 2021 12:34 PM Cadd User: Alan Santiago

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: January 2021	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	BENZO(A)PYRENE IN GROUNDWATER DECEMBER, 2020	FIGURE E-2

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 1 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.74 — PHENANTHRENE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

MW-1 ND 8.06

MW-8D ND

MW-8S ND

MW-11S 0.74

MW-11D ND

MW-10S ND

MW-10D ND

MW-12D ND

MW-12S ND

MW-13S 45

MW-13D ND

MW-4D ND

MW-4S 0.15 J

MW-14S ND

MW-14D ND

MW-7S ND

MW-7D ND

SG-1

SG-2

FFE=5.75'

FFE=5.88'

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: January 2021

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

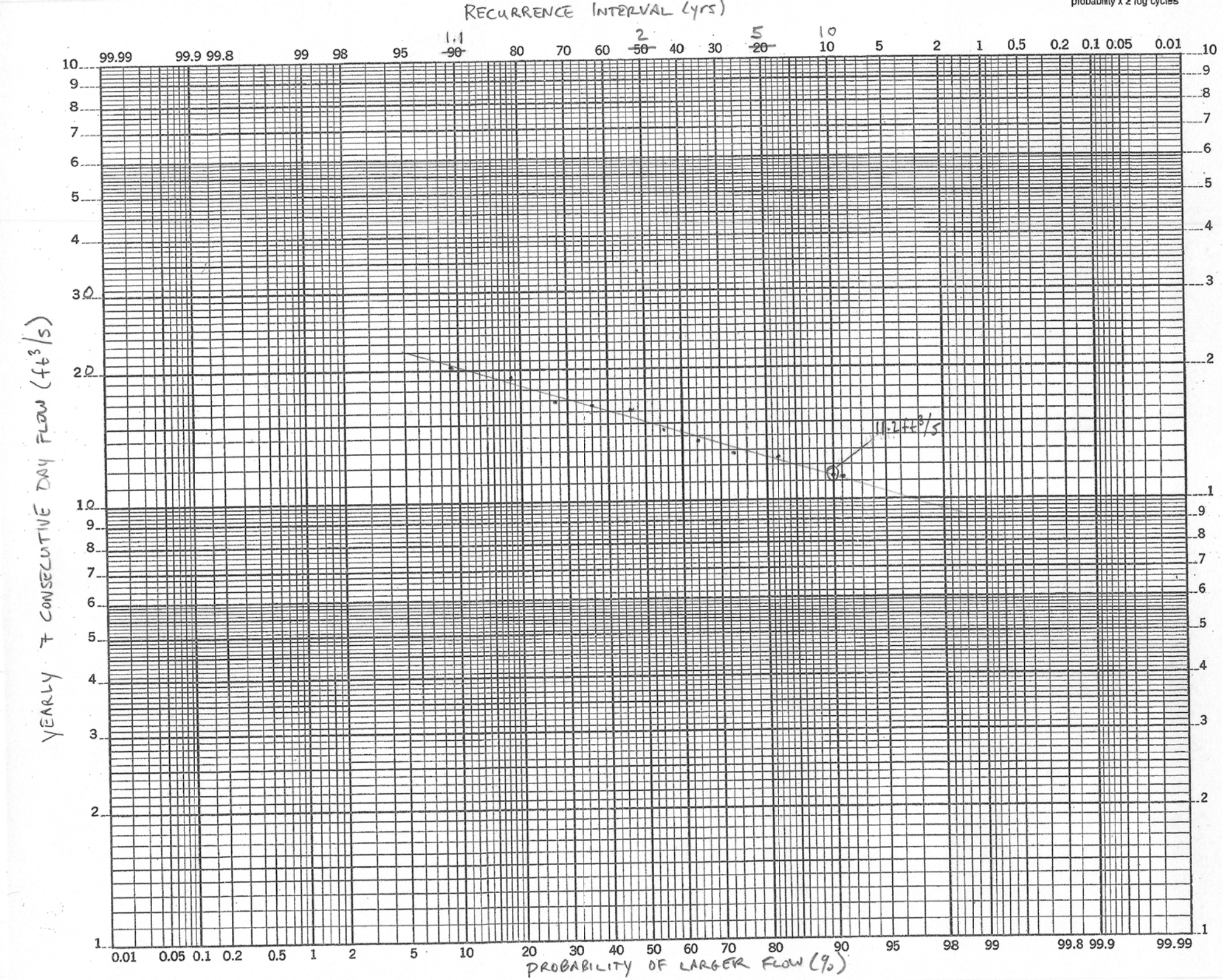
PHENANTHRENE IN GROUNDWATER (µg/L)
DECEMBER, 2020

FIGURE

E-3

Path: C:\users\asantiago\bcpw\d0901435 File Name: Phenanthrene_December2020 Plot Date: February 8, 2021 12:33 PM Cadd User: Alan Santiago

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT E-2
MASS FLUX CALCULATIONS - BENZO(A)PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Benzo(a)pyrene (December 2020) **Figure No.** See Figure E-2

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-0.1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	0.1	0.10	16	18
C=	0.1	µg/L =	0.0001	µg/cm^3	Geometric mean concentration between selected contours				
L =	16	ft =	487.68	cm	Length of segment between selected contours [C]				
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	2.5E-02	µg/s	7.7E-01	g/yr	0.00170 lbs/yr				
mf_{sgw} =	0.02450	µg/s	0.773	g/yr	0.00170 lbs/yr				

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00008 µg/L

ATTACHMENT E-3
MASS FLUX CALCULATIONS - PHENANTHRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Phenanthrene (December 2020) **Figure No.** See Figure E-3

$mf = kiA * C$

Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

							Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		0.1			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours					
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours		1	0.32	35	18
L =	35	ft =	1066.8	cm	Length of segment between selected contours [C]		10	3.16	67	18
b =	18	ft =	548.64	cm	Saturated thickness		13	11.40	26	18
mf =	1.7E-01	µg/s	5.3E+00	g/yr	0.01176	lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	3.16	µg/L =	0.003162278	µg/cm^3	Geometric mean concentration between selected contours	
L =	67	ft =	2042.16	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	3.2E+00	µg/s	1.0E+02	g/yr	0.2251	lbs/yr

10-13 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	11.40	µg/L =	0.011401754	µg/cm^3	Geometric mean concentration between selected contours	
L =	26	ft =	792.48	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	4.5E+00	µg/s	1.4E+02	g/yr	0.3150	lbs/yr
mf_{sgw} =	7.95	µg/s	251	g/yr	0.552	lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.025 µg/L

Appendix F: Evaluation of Potential Impact to River from Increased pH Levels in Groundwater – December 2020 Data

Appendix G

Evaluation of Potential Impact to River from Increased pH Levels in Groundwater
Patchogue Former MGP Site
Patchogue, New York

As described in the Fourth Quarter 2020 Groundwater Monitoring Report, elevated pH levels were measured in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the December 2020 groundwater sampling activities. The increased pH levels are considered a potential effect from implementation of ISS in the area and it is anticipated that the pH will decrease to pre-remedy levels with time (i.e., as ISS mass continues to fully cure). Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure G-1 for a depiction of shallow groundwater flow).

The pH levels measured at MW-3 and MW-13S in December 2020 were 10.46 and 9.60, respectively, which is above the acceptable range for pH levels applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). In accordance with 6 NYCRR Part 703.3, pH shall not be less than 6.5 nor more than 8.5 in Class C water bodies. Although it was not anticipated that the increased pH levels would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this.

An analysis was conducted to assess the potential for discharge of shallow groundwater with elevated pH levels to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of hydroxide (OH^-), dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of hydroxide from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved hydroxide from the source (µg/sec)

C_i = concentration of the hydroxide ion (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: q_i=Ki, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: A_i=(L)(b), with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of the mass flux of hydroxide (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow

groundwater. The horizontal dimension of the flow area, L, is equal to the width of the hydroxide plume, which is based on the isoconcentration contours developed from the results of the December 2020 sampling event (see Figure G-2). The concentration of hydroxide in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of hydroxide in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table G-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment G-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.
- The mass flux estimate assumes that there is no pH buffering capacity in the river water; the buffering capacity would resist change to pH in the river water due to contributions of higher pH groundwater.

To screen for potential impacts to the river, the estimated concentration of hydroxide was calculated using the above-described method and then converted back to pH to compare to water quality standards for pH per NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations. Attachment G-2 contains the calculations and results for the analysis performed. The estimated concentration of hydroxide in the Patchogue River resulting from site groundwater impacts is 3.67 µg/L, which equates to a pH level of 7.45. For comparison, water quality data was obtained from a USGS river gauging station proximal to the Site (USGS 01306000, Patchogue River at Patchogue New York) for the period May 6, 1966 to August 12, 1996; pH levels measured at this station during this period ranged from 5.3 to 8.4 and had a median of 6.8. This median pH value was accounted for in the mass flux estimate. Specifically, the median pH of 6.8 in the Patchogue River, which equates to a hydroxide ion concentration of 1.07 µg/L was added to the estimated hydroxide ion concentration in the river contributed by site groundwater to reflect hydroxide conditions already present in the surface water. The conservatively-estimated (i.e., biased high) pH level of 7.45 is above the median level measured in

the river, which may be a result of the increased pH levels in shallow groundwater adjacent to the river; however, it is within the acceptable range for pH levels in Class C water bodies in accordance with 6 NYCRR Part 703.3 (i.e., pH shall not be less than 6.5 nor more than 8.5). Based on the evaluation conducted, the increased pH levels in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

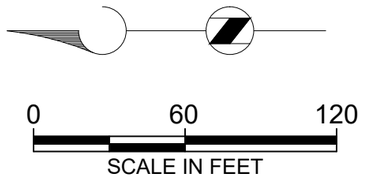
TABLE G-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

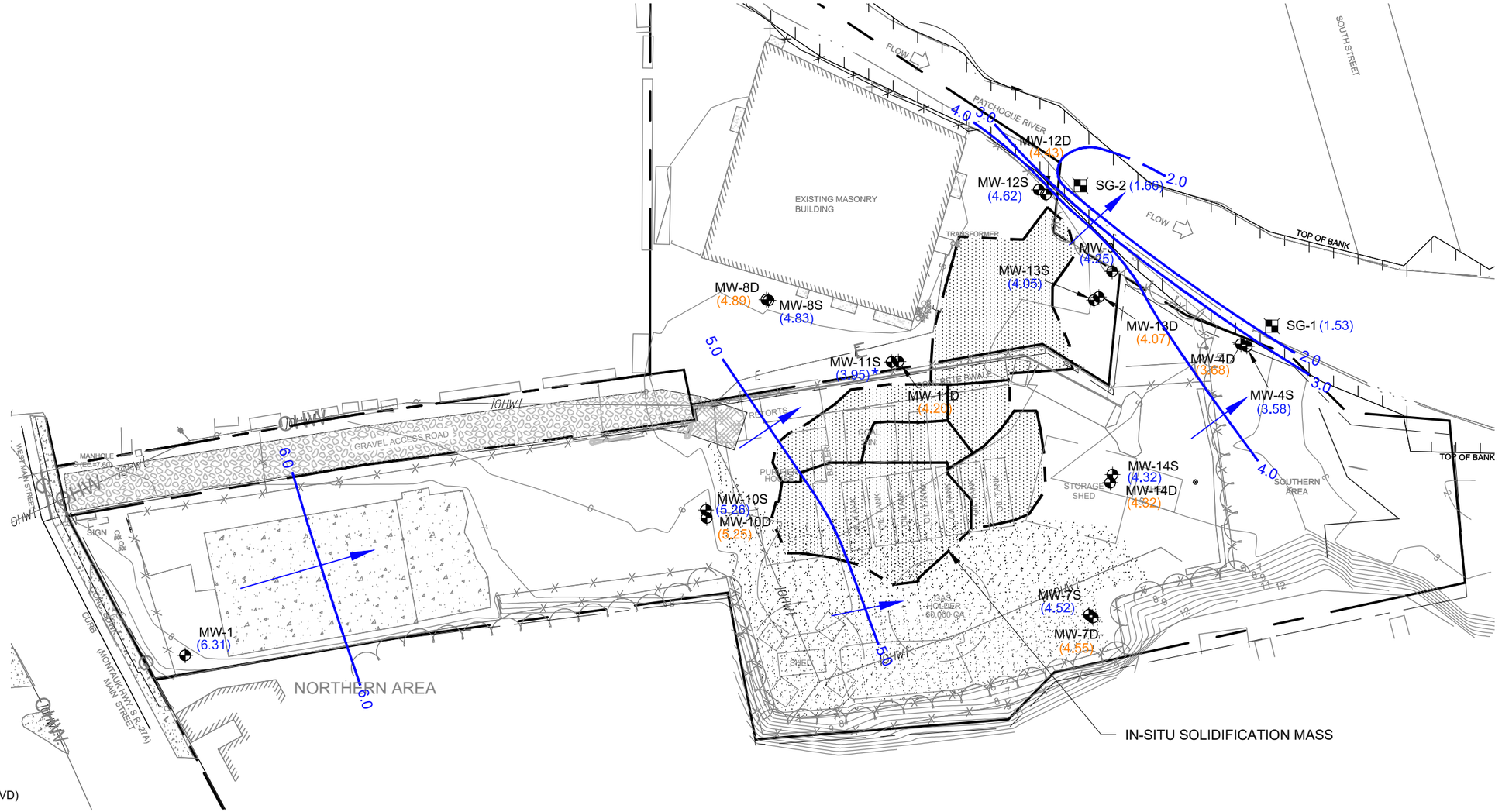
Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures





LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (4.30) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE) OR RIVER LEVEL FROM STAFF GAUGE (FT., NAVD).
- (4.34) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: February 2021

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

WATER TABLE ELEVATION CONTOUR MAP
DECEMBER 28, 2020

FIGURE

G-1

Path: C:\users\asantiagolbcpw\d0901435 File Name: FIG-1-(GW_Contours_December-2020) Plot Date: February 5, 2021 4:04 PM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

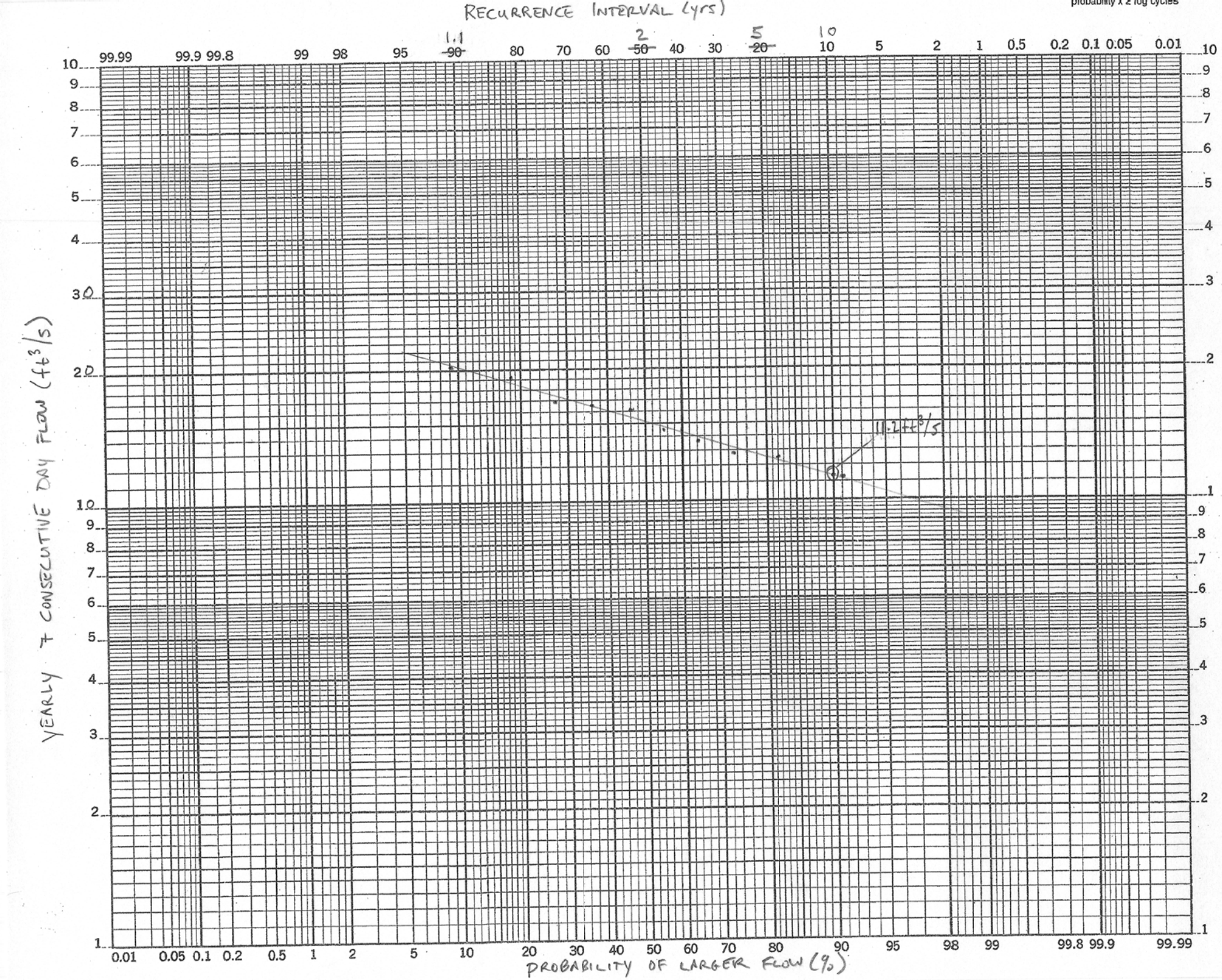
LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 10 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.65 — HYDROXIDE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: January 2021	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	HYDROXIDE(OH-) IN GROUNDWATER (µg/L) DECEMBER, 2020	FIGURE G-2

Path: C:\users\asantiago\bcpw\d09901435 File Name: Hydroxide(OH-)_December2020 Plot Date: February 9, 2021 12:33 PM Cadd User: Alan Santiago

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT G-2
MASS FLUX CALCULATIONS - pH
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

pH (December 2020) **Figure No.** See Figure G-2

mf = kiA * C
Where: mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

10-100 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	10			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	100	31.62	23	18
C=	31.6227766	µg/L =	0.031622777	µg/cm^3	Geometric mean concentration between selected contours	1000	316.23	63	18
L =	23	ft =	701.04	cm	Length of segment between selected contours [C]	4905	2214.72	25	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.1E+01	µg/s	3.5E+02	g/yr	0.77275 lbs/yr				

100-1000 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	316.23	µg/L =	0.316227766	µg/cm^3	Geometric mean concentration between selected contours
L =	63	ft =	1920.24	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.1E+02	µg/s	9.6E+03	g/yr	21.1665 lbs/yr

1000-4905 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2214.72	µg/L =	2.214723459	µg/cm^3	Geometric mean concentration between selected contours
L =	25	ft =	762	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	8.5E+02	µg/s	2.7E+04	g/yr	58.8258 lbs/yr
mf_{sgw} =	1164.11	µg/s	36711.4	g/yr	80.765 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 4.74 µg/L
Note - Value is based on hydroxide ion (OH^-) from groundwater discharge plus ambient OH^- in river (1.07 µg/L).

pH_R = 7.45 std. units