Fourth Quarter 2021
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

March 1, 2022

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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
MDL	Method Detection Limit
MGP	Manufactured Gas Plant
MS/MSD	Matrix Spike/Matrix Spike Duplicate
MTBE	Methyl tertiary-butyl ether
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
RL	Reporting Limit
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 fourth quarter of 2021 at the Patchogue Former Manufactured Gas Plant (MGP) Site (hereinafter referred to as the "Site"). This monitoring event is the eighth to be conducted after completion of remedy implementation in the fourth quarter 2019. 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 "100% Remedial Design Report" (Brown and Caldwell Associates (BC), May 2019) as modified by subsequent email correspondence (during the period from January 7 to 16, 2020) between National Grid and the New York State Department of Environmental Conservation (NYSDEC). 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 fourth quarter 2021 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)
- 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)

Section 5 includes recommendations for modifications to the groundwater monitoring program based on evaluation of groundwater monitoring data to-date for consideration by NYSDEC.

1.1 Background

This report presents the results and findings associated with the December 2021 groundwater monitoring event, which is the eighth such event conducted following implementation of the Site remedy. 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 in situ solidification (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) and 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 existing wells MW-1, 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 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 O (Site Management Plan) of the FER (BC, February 2022).

Groundwater monitoring prior to remedy implementation was conducted on a semi-annual basis prior to remedy implementation; however, the sampling frequency was temporarily increased to quarterly to evaluate the effectiveness of the remedy for Calendar Years 2020 and 2021. As discussed in Section 5, recommendations are made in this report for modifying the frequency of GW monitoring from quarterly to semi-annually.

Section 2

Scope of Work

Field activities for the fourth quarter 2021 groundwater monitoring were conducted by BC from December 20 through December 22, 2021. The activities conducted during this monitoring event are described below. Locations of the monitoring wells and staff gauge 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 during the December 2021 sampling event from surface water elevation control points SG-1 and SG-2. Water level measurements and NAPL gauging were conducted using an electronic oil/water interface probe; measurements were made to the nearest 0.01 foot.

Groundwater sampling was conducted at 18 monitoring wells (MW-1, MW-3, well couplets MW-4S/D, MW-7S/D, and MW-8S/D; and well couplets MW-10S/D through MW-14S/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: benzene, toluene, ethylbenzene, and isomers of xylene (BTEX) compounds and methyl tertiary-butyl ether (MTBE) using USEPA SW-846 Method 8260C, and polycyclic aromatic hydrocarbons (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 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 and MTBE 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 and MTBE only. The other QA/QC samples were analyzed for BTEX, MTBE, and PAHs.

The groundwater analytical data packages were validated by Jaclyn Lauer of BC. Ms. Lauer'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 analytical data for the groundwater monitoring were determined to be usable for the intended purposes and none of the data was rejected. As noted in the DUSR, some data was qualified as follows:

- One duplicate was collected for this dataset. DUP-20211222 is the sample duplicate for MW-3-20211222. All relative percent differences were within control limits with the exception of fluorene and pyrene. Parent and duplicate samples are qualified as estimated, J.

- All samples exhibited acceptable internal standard values with the exception of sample MW-12S-20211221. Sample detections and non-detections are qualified as estimated, J/UJ.
- The LCS percent recoveries for benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenz(a,h)anthracene, and indeno[1,2,3-cd]pyrene were above control limits. Sample non-detections are not qualified, and detections are qualified as estimated, J.

Section 3

Results and Findings

3.1 Water Level Data

Table 1 provides the water level data and calculated water elevations from the December 20, 2021 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 December 2021 groundwater monitoring event. NAPL was not identified in any of the Site monitoring wells during the December 20, 2021 gauging activities.

3.3 Groundwater Quality Data

Table 2 provides the results of the laboratory analyses of the groundwater samples collected during the December 2021 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 18 Site monitoring wells listed in Table 2 from December 20 to December 22, 2021 and submitted to the laboratory for analysis of BTEX, MTBE, and PAHs. At wells MW-3, MW-4S and MW-11S, concentrations of acenaphthene (MW-3, MW-4S and MW-11S), benzene (MW-11S), 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 and the presence of these constituents in groundwater is an expected result of the disturbance of the subsurface during implementation of the ISS, and the elevated concentrations are expected to decrease with time. In two of these wells (MW-3 and MW-11S) one or more the following PAH compounds were also detected at concentrations above Class GA groundwater quality criteria: benzo(a)anthracene, benzo(a)pyrene, 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, these constituents 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 since post-remediation monitoring was initiated in March 2020 and are anticipated to further decrease with time and will be evaluated during subsequent monitoring events.

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) were 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 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 December 2021 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 select constituents presented as Figures 2 through 6). Since the estimated concentrations of these seven constituents in surface water, as derived from the previous mass flux analyses, were below applicable surface water criteria, based on the mass flux analyses using the 2020 data (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.

PAH compounds were detected in samples collected from monitoring wells MW-7D, MW-8S, MW-8D, MW-10S, MW-13S and MW-14D at low concentrations (i.e., at or slightly above the laboratory method detection limit), but above the Class GA groundwater quality criteria, during the December 2021 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.

MTBE was not detected at any of the 18 monitoring wells sampled during the December 2021 monitoring event. MTBE is not an MGP-related constituent but has been detected at times in the past as a result of off-Site sources.

As discussed in previous monitoring reports, following implementation of the remedy, pH levels in 2 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 11.09. 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 a potential effect from implementation of ISS in the area and are anticipated to decrease to pre-remedy levels with time (i.e., as ISS mass continues to fully cure). 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 hydroxide ion concentration (i.e., elevated pH) 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. The pH levels at these two locations have slowly decreased since the initiation of post-remediation monitoring and the most recent data (December 2021) indicate a continued overall decrease of pH levels.

Although the increased pH levels in groundwater are not anticipated to impact surface water quality in the Patchogue River, similar to the 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 December 2021 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 December 2021 groundwater monitoring event.

- NAPL was not identified in any of the Site monitoring wells during the December 2021 gauging activities.
- Consistent with other monitoring events conducted after remedy implementation, concentrations of one or more of the following constituents: acenaphthene, benzene and naphthalene; were detected at concentrations above the Class GA groundwater quality criteria in wells MW-3, MW-4S, and MW-11S. 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 post-remediation monitoring was initiated in March 2020 and are anticipated to further decrease with time and will be evaluated during subsequent monitoring events.
- 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 immediately downgradient of the ISS mass are considered a potential effect from implementation of ISS in the area. The pH levels have slowly decreased since the initiation of post-remediation monitoring and are anticipated to further 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

Recommendations

As eight quarters of post remediation monitoring have been completed to-date, National Grid is proposing the following modifications, for review and approval by the NYSDEC, to the long-term post-remedial groundwater monitoring program for the Site. Specifically, based on the results of the 2020 and 2021 quarterly monitoring activities, the following modifications are proposed:

- 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 in the deep groundwater wells during these eight sampling events.
- Removal of MTBE 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 is recommended.
- Changing the frequency of groundwater monitoring from quarterly to semi-annually: Tables 3 and 4 of the above-referenced report provide historical total BTEX and total 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) 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.

Section 6

References

Brown and Caldwell Associates, February 2022, 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
FOURTH QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Location ID	Top of Casing Elevation (ft., NAVD)	12/20/2021			
		Depth to Water (ft., BTOC)	Water Elevation (ft., NAVD)	Depth to NAPL (ft., BTOC)	Total Depth of Well (ft., BTOC)
MW-1	11.47	5.85	5.62	NI	15.27
MW-3	5.56	1.72	3.84	NI	10.02
MW-4S	7.97	4.75	3.22	NI	12.27
MW-4D	7.79	4.51	3.28	NI	26.72
MW-7S	8.45	4.39	4.06	NI	12.40
MW-7D	8.31	4.27	4.04	NI	28.20
MW-8S	5.01	0.75	4.26	NI	9.84
MW-8D	4.99	0.66	4.33	NI	25.16
MW-10S	5.77	1.07	4.70	NI	15.45
MW-10D	5.73	1.03	4.70	NI	25.30
MW-11S	5.02	0.87	4.15	NI	13.75
MW-11D	5.14	1.09	4.05	NI	23.55
MW-12S	4.99	1.46	3.53	NI	13.90
MW-12D	4.92	1.37	3.55	NI	23.96
MW-13S	4.98	1.38	3.60	NI	13.30
MW-13D	4.96	1.38	3.58	NI	23.95
MW-14S	4.86	0.98	3.88	NI	12.65
MW-14D	4.82	0.99	3.83	NI	21.85
SG-1	5.38	3.77	1.61	--	NA
SG-2	5.25	3.53	1.72	--	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
FOURTH QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Loc ID / Date	MW-1 12/20/2021	MW-3 12/22/2021	MW-3 (Dup) 12/22/2021	MW-4S 12/22/2021	MW-4D 12/22/2021	MW-7S 12/21/2021	MW-7D 12/21/2021	MW-8S 12/20/2021	MW-8D 12/20/2021	MW-10S 12/20/2021
Volatile Organic Compounds (VOCs)														
BTEX Compounds														
Benzene	NE	1	µg/L		0.30 U	0.64 J	0.58 J	0.30 J	0.30 U	0.31 J	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	NE	5	µg/L		0.20 U	0.76 J	0.69 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	NE	5	µg/L		0.40 U	4.1	3.9	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Xylenes, Total	NE	NE	µg/L		0.40 U	6.3	5.7	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Total BTEX[(a)]	NE	NE	µg/L		ND	12 J	11 J	0.30 J	ND	0.31 J	ND	ND	ND	ND
Other VOCs														
Methyl Tertiary Butyl Ether	10	NE	µg/L		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Semi-Volatile Organic Compounds (SVOCs)														
Polycyclic Aromatic Hydrocarbons (PAHs)														
Acenaphthene	20	NE	µg/L		0.010 U	**44**	**51**	**21**	0.010 U	0.087	0.010 U	0.26	0.010 U	0.010 U
Acenaphthylene	NE	NE	µg/L		0.010 U	4.9	5.4	0.76	0.010 U	0.015 J	0.010 U	0.010 U	0.010 U	0.010 U
Anthracene	50	NE	µg/L		0.010 U	1.7	1.9	0.32	0.010 U	0.021 J	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(a)anthracene	0.002	NE	µg/L		0.010 U	**0.73**	**0.82**	0.010 U	0.010 U	0.010 U	**0.011 J**	**0.016 J**	**0.019 J**	**0.017 J**
Benzo(a)pyrene	NE	0	µg/L		0.010 U	**0.013 J**	**0.017 J**	0.010 U	0.010 U	0.010 U	0.010 U	**0.018 J**	**0.023 J**	**0.018 J**
Benzo(b)fluoranthene	0.002	NE	µg/L		0.010 U	**0.020 J**	**0.020 J**	0.010 U	0.010 U	0.010 U	0.010 U	**0.030 J**	**0.034 J**	**0.026 J**
Benzo(g,h,i)perylene	NE	NE	µg/L		0.010 U	0.011 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.017 J	0.017 J	0.016 J
Benzo(k)fluoranthene	0.002	NE	µg/L		0.010 U	0.011 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	**0.011 J**	0.010 U	0.010 U
Chrysene	0.002	NE	µg/L		0.010 U	**0.41**	**0.40**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.021 U	0.021 U	0.021 U	0.020 U	0.020 U	0.021 U	0.021 U	0.020 U	0.020 U	0.021 U
Fluoranthene	50	NE	µg/L		0.010 U	15	18	5.1	0.010 U	0.010 U	0.015 J	0.045 J	0.043 J	0.017 J
Fluorene	50	NE	µg/L		0.011 J	11 J	18 J	7.5	0.010 U	0.017 J	0.010 U	0.014 J	0.010 U	0.010 J
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.021 U	0.021 U	0.021 U	0.020 U	0.020 U	0.021 U	0.021 U	0.020 U	0.020 U	0.021 U
Naphthalene	10	NE	µg/L		0.031 U	**99**	**110**	0.073	0.030 U	0.031 U	0.031 U	0.030 U	0.030 U	0.031 U
Phenanthrene	50	NE	µg/L		0.031 U	10	13	0.21	0.030 U	0.031 U	0.031 U	0.058 J	0.043 J	0.031 U
Pyrene	50	NE	µg/L		0.010 U	10 J	15 J	4.8	0.011 J	0.010 U	0.013 J	0.043 J	0.040 J	0.023 J
Total PAHs[(b)]	NE	NE	µg/L		0.011 J	197 J	234 J	40	0.011 J	0.14 J	0.039 J	0.51 J	0.219 J	0.127 J

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
FOURTH QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Constituent	Class GA Groundwater Criteria TOGS 1.1.1 Guidance	NYS Part 703 Standard	Units	Loc ID Date	MW-10D 12/20/2021	MW-11S 12/21/2021	MW-11D 12/21/2021	MW-12S 12/21/2021	MW-12D 12/21/2021	MW-13S 12/22/2021	MW-13D 12/22/2021	MW-14S 12/21/2021	MW-14D 12/21/2021
Volatile Organic Compounds (VOCs)													
BTEX Compounds													
Benzene	NE	1	µg/L		0.30 U	**1.20**	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	NE	5	µg/L		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Ethylbenzene	NE	5	µg/L		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Xylenes, Total	NE	NE	µg/L		0.40 U	0.72 J	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Total BTEX[(a)]	NE	NE	µg/L		ND	1.9 J	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Methyl Tertiary Butyl Ether	10	NE	µg/L		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Semi-Volatile Organic Compounds (SVOCs)													
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	20	NE	µg/L		0.010 U	**41**	0.010 U	0.010 U	0.010 U	9.0	0.010 U	0.18	0.018 J
Acenaphthylene	NE	NE	µg/L		0.010 U	1.8	0.010 U	0.010 U	0.010 U	0.57	0.010 U	0.018 J	0.047 J
Anthracene	50	NE	µg/L		0.010 U	1.9	0.010 U	0.010 U	0.010 U	4.1	0.010 U	0.010 J	0.011 U
Benzo(a)anthracene	0.002	NE	µg/L		0.010 U	**0.75**	0.010 U	0.010 U	0.010 U	**0.49**	0.010 U	0.010 U	**0.013 J**
Benzo(a)pyrene	NE	0	µg/L		0.010 U	**0.33**	0.010 U	0.010 UJ	0.010 U	**0.013 J**	0.010 U	0.010 U	0.011 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.010 U	**0.30 J**	0.010 U	0.010 UJ	0.010 U	**0.020 J**	0.010 U	0.010 U	**0.014 J**
Benzo(g,h,i)perylene	NE	NE	µg/L		0.010 U	0.12 J	0.010 U	0.010 UJ	0.010 U	0.010 U	0.010 U	0.010 U	0.011 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.010 U	**0.11 J**	0.010 U	0.010 UJ	0.010 U	0.010 U	0.010 U	0.010 U	0.011 U
Chrysene	0.002	NE	µg/L		0.010 U	**0.52**	0.010 U	0.010 U	0.010 U	**0.30**	0.010 U	0.010 U	0.011 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.020 U	0.038 J	0.020 U	0.021 UJ	0.021 U	0.020 U	0.021 U	0.020 U	0.022 U
Fluoranthene	50	NE	µg/L		0.010 U	3.5	0.017 J	0.010 U	0.011 J	3.7	0.023 J	0.013 J	0.020 J
Fluorene	50	NE	µg/L		0.010 U	4.9	0.010 U	0.010 U	0.010 U	3.9	0.010 U	0.010 U	0.12
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.020 U	**0.14 J**	0.020 U	0.021 UJ	0.021 U	0.020 U	0.021 U	0.020 U	0.022 U
Naphthalene	10	NE	µg/L		0.030 U	2.9	0.030 U	0.031 U	0.031 U	2.4	0.031 U	0.030 U	0.032 U
Phenanthrene	50	NE	µg/L		0.030 U	0.73	0.030 U	0.031 U	0.031 U	8.8	0.031 U	0.030 U	0.042 J
Pyrene	50	NE	µg/L		0.010 U	4.1	0.016 J	0.010 J	0.010 U	3.5	0.023 J	0.023 J	0.023 J
Total PAHs[(b)]	NE	NE	µg/L		ND	63 J	0.033 J	0.010 J	0.011 J	37 J	0.046 J	0.24 J	0.30 J

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]
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	0.1	0	0	4.1	0.9	0	913	8.6	0.22	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).

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]
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	0.03	0	1.7	0	0	0	14	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).

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	24.2	0	-- [c]	-- [c]	0.26	0	0.11	0.043	-- [c]	-- [c]
Jun-21	0	-- [b]	-- [b]	177	68.1	0	-- [c]	-- [c]	0.18	0	0.20	0	-- [c]	-- [c]
Sep-21	0.1	-- [b]	-- [b]	223	16.4	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]
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	0.8	0.067	0.1	61	9	3.3	2413	65	0.47	0.15	1.4	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).

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

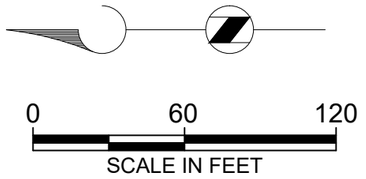
Sampling Date	Total PAH Concentrations (µg/L) [a]										
	Monitoring Well/Piezometer										
	MW-10S	MW-10D	MW-11S	MW-11D	MW-12S	MW-12D	MW-13S	MW-13D	MW-14S	MW-14D	PZ-4A
Mar-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Jul-08	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Mar-09	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Sep-09	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]

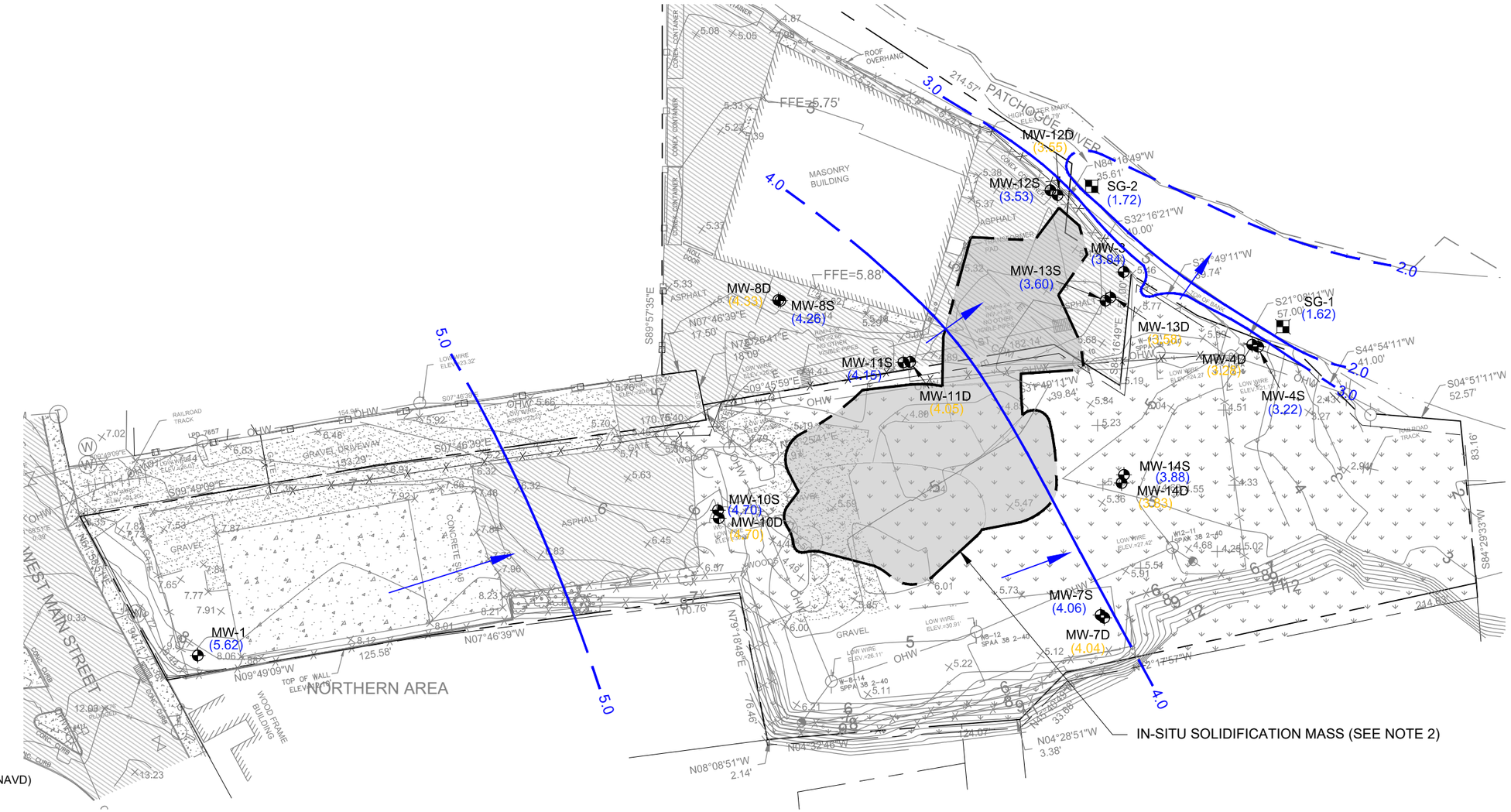
TABLE 4
SUMMARY OF HISTORICAL PAH CONCENTRATIONS
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

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]
Min	0	0	2.0	0	0	0	37	0	0.055	0	0.3
Max	0.3	0.3	127	1.5	14	0.011	467	0.11	1.8	0.297	0.3
Mean	0.071	0.049	64	0.21	1.8	0.0014	235	0.048	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).

Figures





LEGEND:

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

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: August 4, 2021

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

WATER TABLE ELEVATION CONTOUR MAP
DECEMBER 20, 2021

FIGURE

1

Path: Z:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(Dec20_2021) Plot Date: February 18, 2022 2:29 PM Cadd User: Alan Santiago

153021

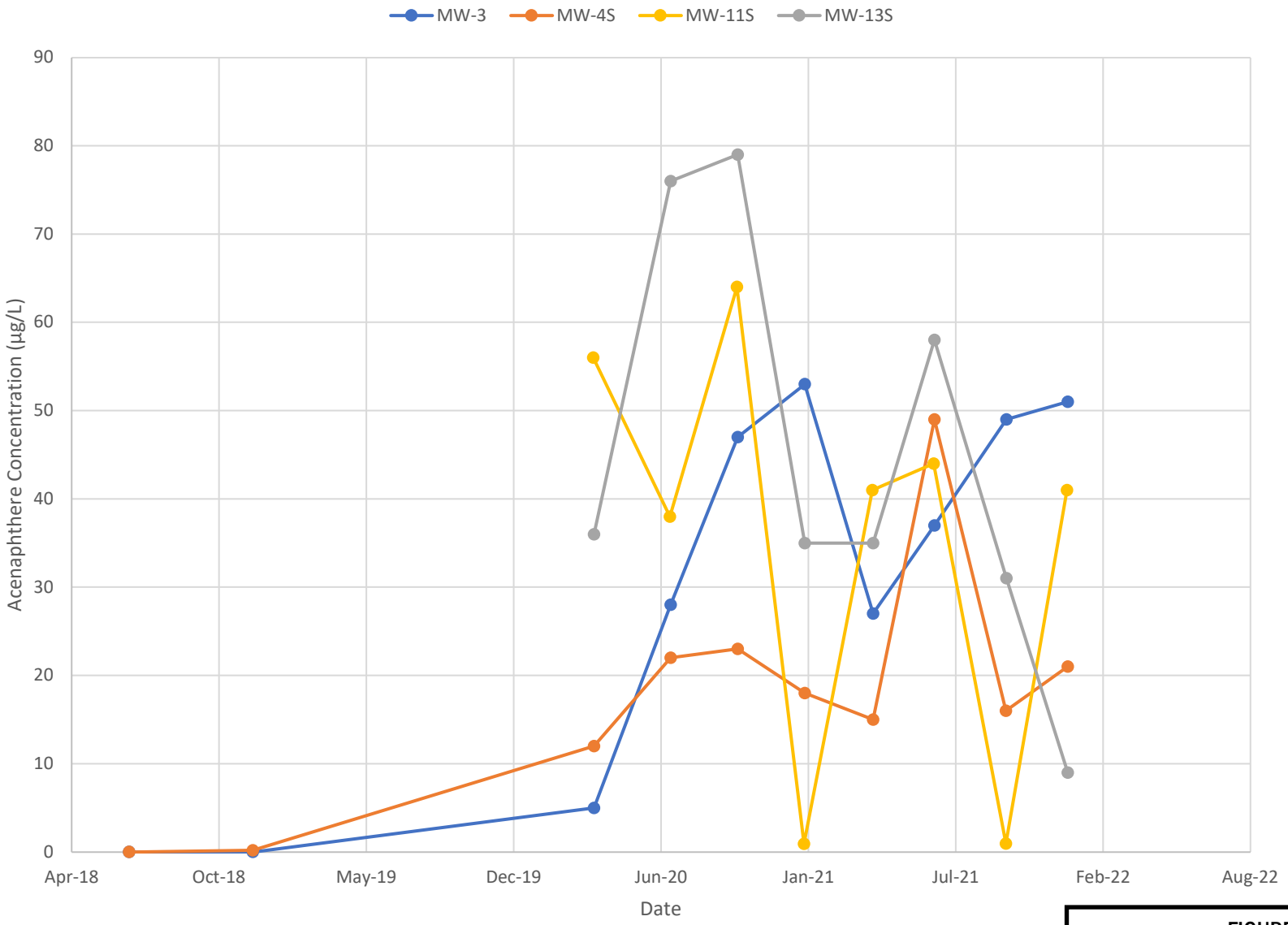


FIGURE 2

GROUNDWATER QUALITY TREND PLOT - ACENAPHTHENE

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Brown AND Caldwell

153021

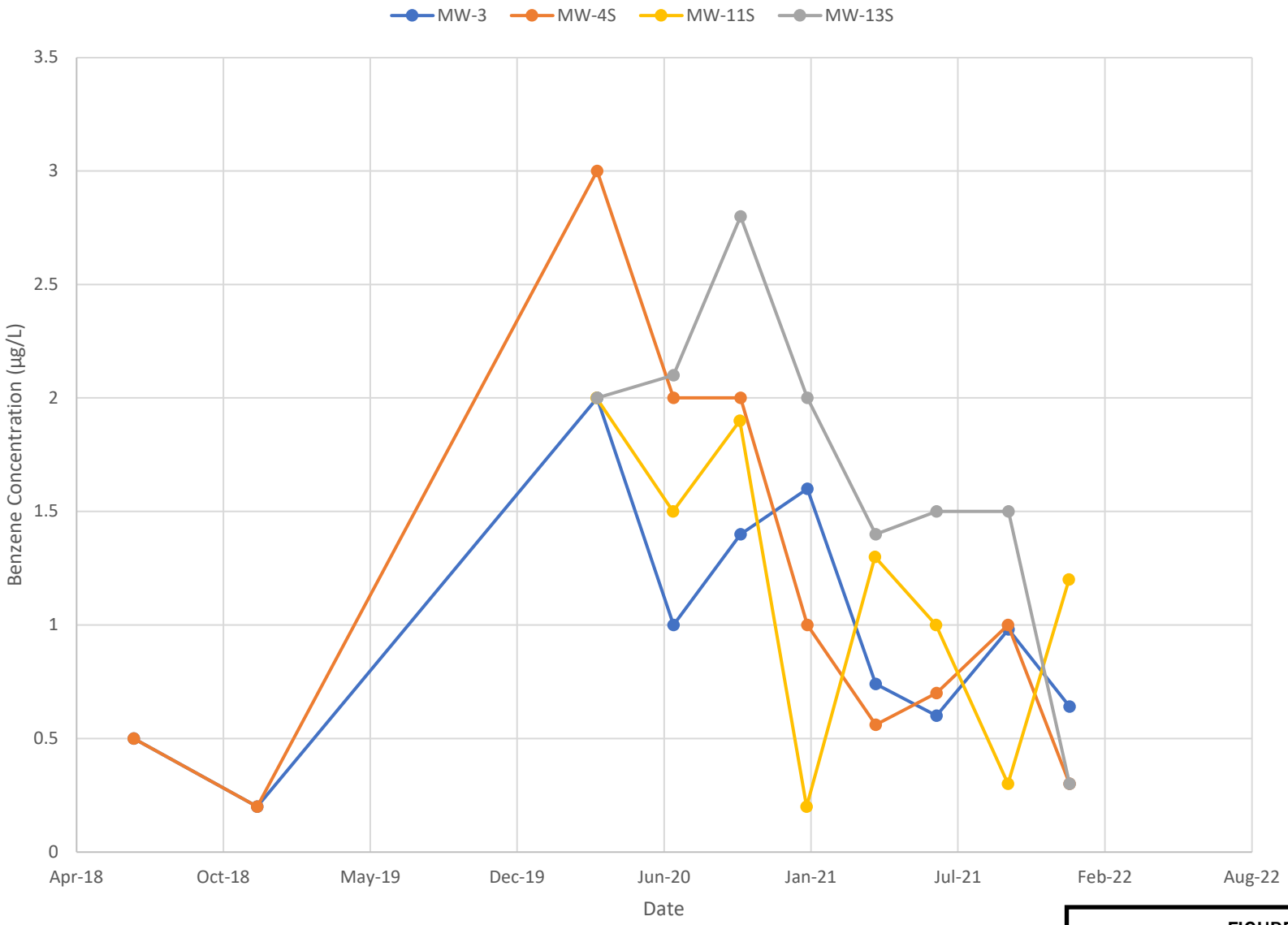


FIGURE 2

GROUNDWATER QUALITY TREND PLOT - BENZENE

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Brown AND Caldwell

153021

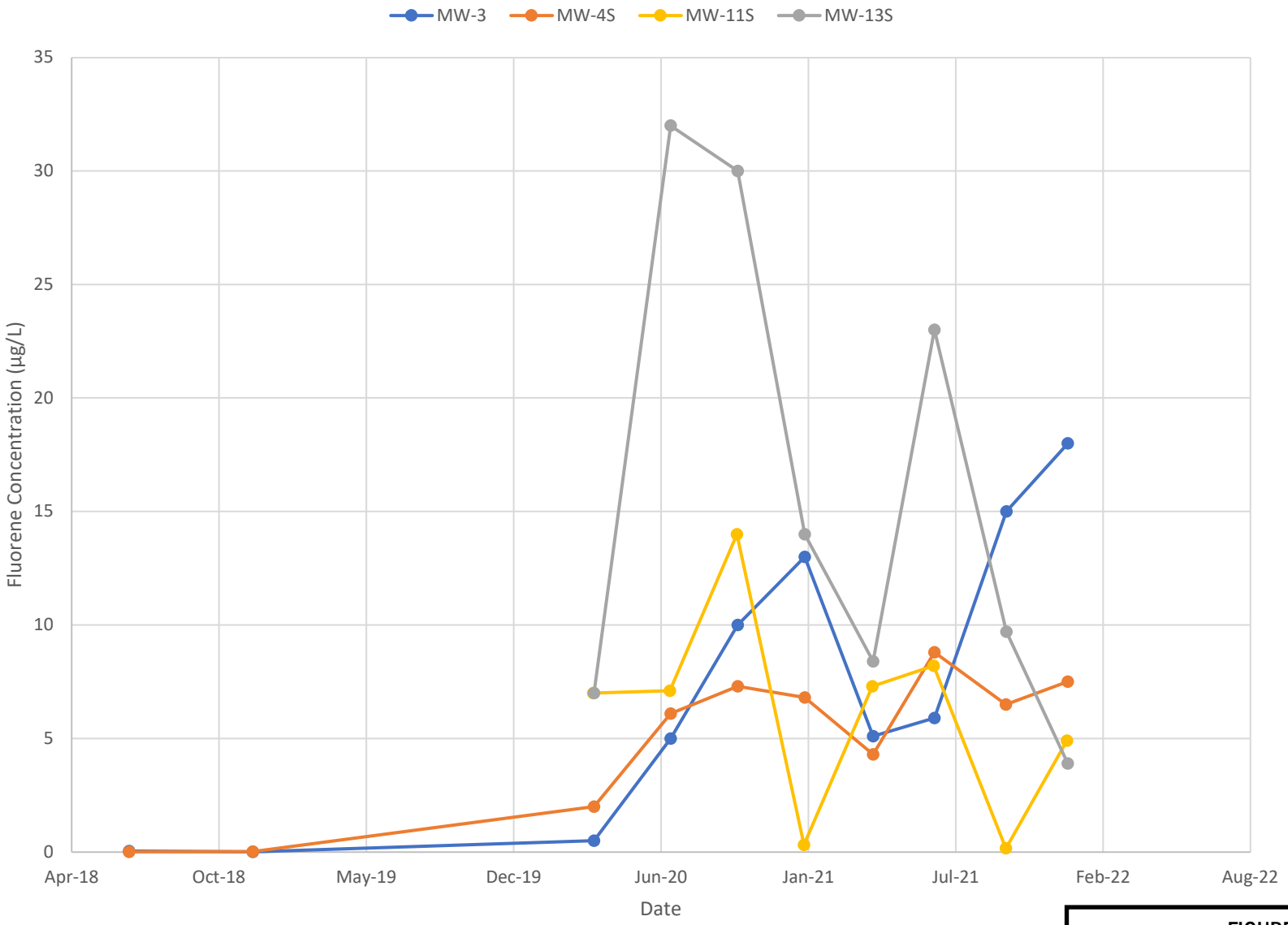


FIGURE 4

GROUNDWATER QUALITY TREND PLOT – FLUORENE

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Brown AND Caldwell

153021

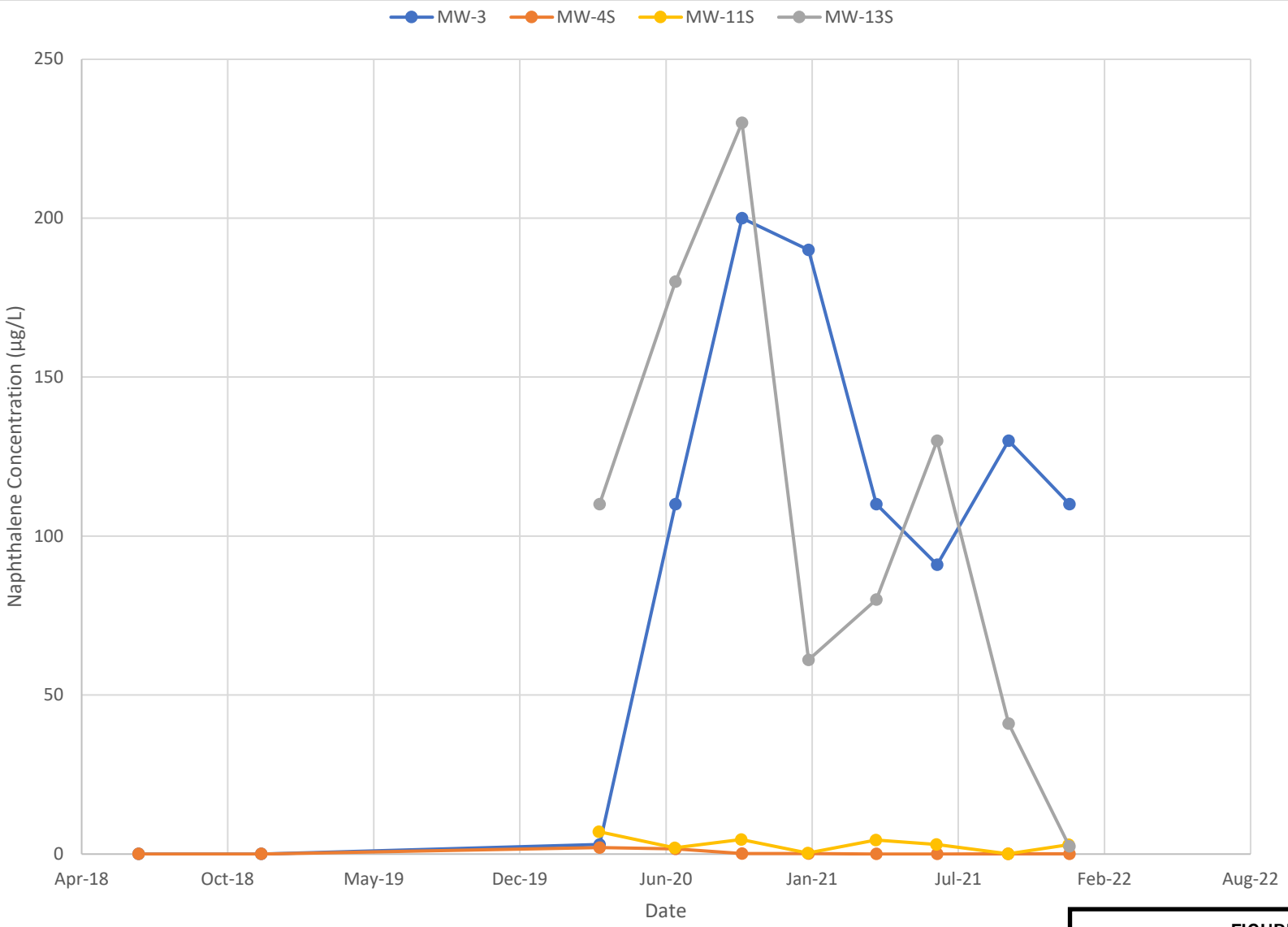


FIGURE 5

GROUNDWATER QUALITY TREND PLOT – NAPHTHALENE

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Brown AND Caldwell

153021

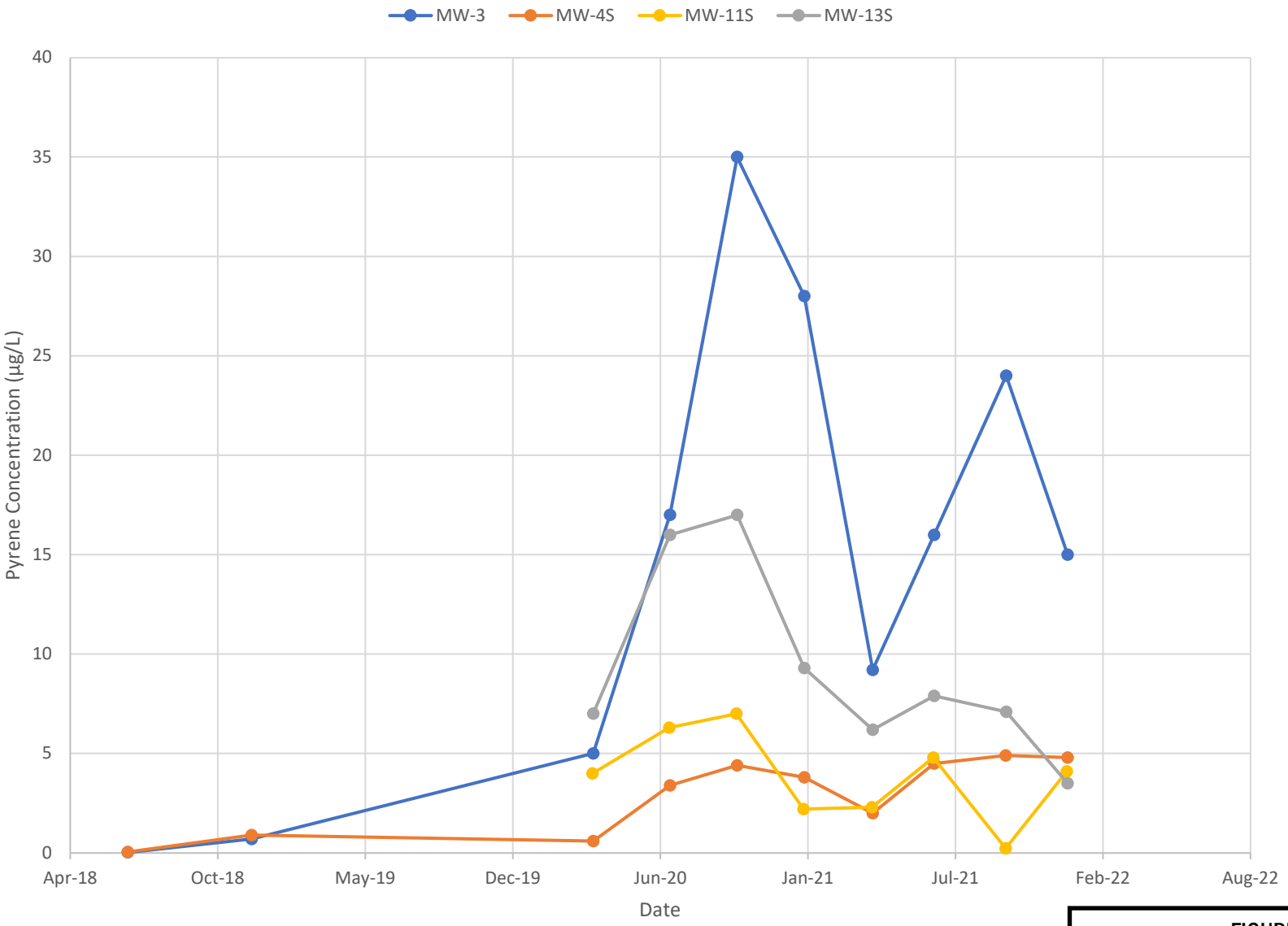


FIGURE 6

GROUNDWATER QUALITY TREND PLOT – PYRENE

NATIONAL GRID
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Brown AND Caldwell

Appendix A: Field Sampling Data Sheets

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13D
Sample I.D.: MW-13D-20211222

Project: Patchogue
Personnel: ALV / MHM

Date: 12/22/21 Time: 1137
Weather: Sunny Air Temp.: 47°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 33 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: 2.00 L/min Elapsed Time: 30 min Volume Pumped: 2.18 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: 12/22/21

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:	12/22/21
Personnel:	AFV/MHM	Well ID:	MW-13D
Purge/Sample Depth:	~20'	Sample ID:	MW-13D-20211222

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1137	7.70	13.16	0.457	1.68	93.4	-132	1.35	200	
1140	6.95	13.04	0.457	0.78	69.6	-84	1.35		
1143	6.67	12.94	0.459	0.71	60.7	-55	1.35		
1146	6.43	12.95	0.459	0.68	63.9	-41	1.35		
1149	6.35	12.96	0.460	0.64	62.2	-20	1.35		
1152	6.21	12.99	0.461	0.65	58.7	-13	1.35		
1155	6.09	13.02	0.462	0.63	53.4	-1	1.35		
1158	5.97	13.05	0.463	0.62	49.7	11	1.35		
1201	5.93	13.09	0.463	0.61	46.6	22	1.35		
1204	5.91	13.06	0.462	0.57	46.1	29	1.35		
1207	5.89	13.02	0.462	0.50	46.9	33	1.35		
1210	Collect MW-13D-20211222								

AFV 12/22/21

Certified Sample Information:
Time of Sample: 1210

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3RHW44F
Calibration Date/Time: 12/22/21 0845

Analyst Signature:

Serial No. Handheld: T5LB70WA

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-135-20211222

Project: Patchogue
Personnel: AFV/MHM

Date: 12/22/21 Time: 1059
Weather: Sunny Air Temp.: 45°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.40 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: 12/22/21

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:	12/22/21
Personnel:	AFV/MHM	Well ID:	MW-13S
Purge/Sample Depth:	~10'	Sample ID:	MW-13S-20211222

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1059	9.36	11.87	2.42	1.91	17.4	-106	1.43	250	
1102	8.96	12.06	1.19	0.98	16.3	-191	1.43		
1105	8.35	12.29	0.571	0.93	15.9	-238	1.43		
1108	8.23	12.[illegible]1	0.553	0.87	14.8	-248	1.43		
1111	8.19	12.70	0.544	0.82	14.7	-253	1.43		
1114	8.26	12.77	0.531	0.82	15.1	-277	1.43		
1117	8.39	12.85	0.520	0.83	15.3	-283	1.43		
1120	8.45	12.89	0.513	0.83	15.1	-297	1.43		
1123	8.57	12.93	0.509	0.84	14.4	-303	1.43		
1126	8.61	12.94	0.505	0.79	14.4	-307	1.43		
1129	8.64	12.95	0.502	0.73	14.3	-310	1.43		
1132	Collect MW-13S-20211222								

AFV 12/22/21

Certified Sample Information:
Time of Sample: 1132

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3RUW49F
Calibration Date/Time: 12/22/21
Serial No. Handheld: T5LB70WA

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-3-20211222

Project: Pathogue
Personnel: ALV/MH/HM

Date: 12/22/21 Time: 1018
Weather: Rain Air Temp.: 41°F

WELL DATA:

Casing Diameter: 8" ☐ Stainless Steel ☒ Steel ☐ PVC ☐ Teflon® ☐ Other: _____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☒ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 1.85 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: 3.0 hr 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-20211222
MS/MSD : ☒ No ☐ Yes Name: _____

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

Signature: _____ Date: 12/22/21

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: AEV/MHM
Purge/Sample Depth: ~

Project Number: 153021
Date: 12/22/21
Well ID: MW-3
Sample ID: MW-3-20211222

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1018	10.20	12.19	0.673	5.02	5.1	-139	1.87	200	
1021	10.50	12.39	0.773	3.28	4.7	-167	1.88		
1024	10.66	12.61	0.805	1.75	3.9	-195	1.88		
1027	10.70	12.67	0.819	1.05	3.3	-215	1.88		
1030	10.71	12.71	0.818	0.91	3.2	-219	1.88		
1033	10.72	12.74	0.817	0.77	3.2	-221	1.88		
1036	10.73	12.79	0.817	0.61	3.2	-222	1.88		
1039	10.75	12.82	0.816	0.49	3.4	-222	1.88		
1042	10.79	12.85	0.830	0.46	3.3	-222	1.88		
1045	10.81	12.87	0.832	0.43	3.2	-223	1.88		
1048	10.80	12.89	0.836	0.37	3.1	-223	1.88		
1051	Collect MW-3-20211222 + DUP-20211222								

AEV 12/22/21

Certified Sample Information:
Time of Sample: 1051

Analyst Signature: AEV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3RUW44F
Serial No. Handheld: T5LB70WA
Calibration Date/Time: 12/22/21

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-4D
Sample I.D.: MW-4D-20211222

Project: Patchogue
Personnel: AFV / MHM

Date: 12/22/21 Time: 0935
Weather: Rain Air Temp.: 43°F

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: 4.55 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: 250mL/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: 12/22/21

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: AFV/MHM
Purge/Sample Depth: ~21'

Project Number: 153021
Date: 12/22/21
Well ID: MW-4D
Sample ID: MW-4D-20211222

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0935	6.28	13.41	0.559	4.29	2.9	-36	4.55	250	
0938	6.13	13.55	0.583	4.83	2.2	-19	4.55		
0941	5.99	13.66	0.600	3.67	2.1	-1	4.55		
0944	5.82	13.86	0.616	2.48	1.9	17	4.55		
0947	5.82	13.97	0.616	1.51	1.3	25	4.55		
0950	5.82	14.03	0.616	1.36	1.1	33	4.55		
0953	5.81	14.11	0.616	0.92	~~0.9~~ 0.8	39	4.55		
0956	5.81	14.13	0.614	0.90	0.7	43	4.55		
0959	5.81	14.12	0.613	0.87	0.6	45	4.55		
1002	5.82	14.13	0.612	0.84	0.5	48	4.55		
1005	5.83	14.10	0.612	0.79	0.6	48	4.55		
1008	Collect MW-4D-20211222								

12/22/21

Certified Sample Information:
Time of Sample: 1008

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3RUW4YF
Serial No. Handheld: T5LB70WA
Calibration Date/Time: 12/22/21 0845

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-45-20211222

Project: Patchogue
Personnel: AFV/MHM

Date: 12/22/21 Time: 0858
Weather: Rain Air Temp.: 43°F

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: 4.76 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®~~ AFV ☒ 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®~~ AFV ☒ 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: [signature] Date: 12/22/21

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:	12/22/21
Personnel:	AFV/MHM	Well ID:	MW-4S
Purge/Sample Depth:	~7'	Sample ID:	MW-4S-20211222

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0858	5.34	12.58	0.562	1.40	84.2	111	4.94	250	
0901	5.77	12.64	0.547	0.92	58.2	54	4.99		
0904	6.00	12.85	0.541	0.78	39.4	0	5.02		
0907	6.19	13.02	0.539	0.74	35.6	-31	5.02		
0910	6.37	13.31	0.536	0.72	33.9	-69	5.02		
0913	6.43	13.21	0.536	0.72	31.6	-83	5.02		
0916	6.54	13.10	0.537	0.72	30.5	-91	5.02		
0919	6.57	13.06	0.537	0.73	30.8	-95	5.02		
0922	6.59	13.03	0.538	0.76	31.2	-99	5.02		
0925	6.62	12.99	0.538	0.79	30.1	-103	5.02		
0928	6.64	12.94	0.539	0.83	29.9	-105	5.02		
0931	Collect MW-4S-20211222								

12/22/21

Certified Sample Information:
Time of Sample: 0931

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: P3RUW4YF
Calibration Date/Time: 12/22/21 0845

Serial No. Handheld: T5LB70WA

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-11D
Sample I.D.: MW-11D-20211221

Project: Patchogue
Personnel: MHM

Date: 12/21/21 Time: 1628
Weather: Sunny Air Temp.: 40

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

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

Signature: _____ Date: 12/21/21

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:	PAlchogue	Project Number:	153021
Client:	BC	Date:	12/21/21
Personnel:	MHM	Well ID:	MW-11D
Purge/Sample Depth:	~21	Sample ID:	MW-11D-20211221

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1628	6.48	12.98	0.320	1.60	16.9	-53	1.00	200	
631	6.45	13.16	0.318	1.39	14.5	-44	1.00		
1634	6.41	13.35	0.318	1.16	11.1	-35	1.00		
1637	6.37	13.41	0.313	1.08	9.5	-22	1.00		
1640	6.33	13.54	0.328	1.01	8.7	-13	1.00		
1643	6.32	13.64	0.332	1.00	7.7	-10	1.00		
1646	6.32	13.66	0.339	0.98	7.9	-3	1.00		
1649	6.33	13.66	0.341	0.93	7.5	-2	1.00		
1652	6.31	13.67	0.347	4.24	6.8	0	1.00		
1655	6.30	13.65	0.351	4.25	7.5	0	1.00		
1658	6.30	13.64	0.352	4.20	6.7	-1	1.00		
1701		Collect MW-11D-20211221							

Certified Sample Information:
Time of Sample: 1701

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3RUW4YF
Calibration Date/Time: 12/21/21 0835
Serial No. Handheld: T5LB70WA

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-20211221

Project: PAlchoque
Personnel: MHM

Date: 12/21/21 Time: 1524
Weather: Sunny Air Temp.: 40

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: 3.80 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 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: [signature] Date: 12/21/21

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
Purge/Sample Depth: ~11.25'

Project Number: 153021
Date: 12/21/21
Well ID: MW-11S
Sample ID: MW-11S-20211221

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1544	6.19	11.68	0.557	0.76	69.5	-14	0.80	225	
1547	6.38	12.02	0.558	0.61	60.1	-46	0.83		
1550	6.41	12.10	0.559	0.52	56.7	-55	0.85		
1553	6.46	12.21	0.543	0.47	51.2	-64	0.87		
1556	6.51	12.33	0.538	0.43	45.0	-72	0.87		
1559	6.52	12.32	0.557	0.42	44.8	-76	0.87		
1602	6.53	12.40	0.556	0.42	42.2	-78	0.87		
1605	6.35	12.34	0.555	0.41	40.9	-81	0.87		
1608	6.57	12.36	0.554	0.40	39.9	-84	0.87		
1611	6.58	12.38	0.554	0.41	39.4	-87	0.87		
1614	6.58	12.35	0.554	0.41	38.5	-87	0.87		
1617			Collect MW-11S-20211221						

Certified Sample Information:
Time of Sample: 1617

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba - U52
Serial No. Unit: P3BUW4YF
Serial No. Handheld: 75LB70WA
Calibration Date/Time: 12/21/21 0835

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-20211221

Project: Ppchogue
Personnel: M/M

Date: 12/21/21 Time: 1433
Weather: Sunny Air Temp.: 40

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: 6.62 ft 63.7 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: _____
MS/MSD : ☑ No ☐ Yes Name: _____

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

Signature: _____ Date: 12/21/21

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: PAlchogue
Client: BC
Personnel: MHM
Purge/Sample Depth: ~21.5

Project Number: 153021
Date: 12/21/21
Well ID: MW-12D
Sample ID: MW-12D-20211221

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1433	6.06	13.60	0.568	1.64	18.4	93	1.40	200	
1436	5.34	13.74	0.600	0.94	13.3	132	1.40		
1439	4.98	13.76	0.617	0.44	9.7	168	1.40		
1442	4.97	13.80	0.618	0.49	9.5	176	1.40		
1445	4.92	13.82	0.619	0.37	8.3	187	1.40		
1448	4.93	13.87	0.619	0.45	7.5	190	1.40		
1451	4.93	13.88	0.618	0.44	6.9	193	1.40		
1454	4.93	13.87	0.619	0.35	6.3	198	1.40		
1457	4.93	13.90	0.618	0.40	5.8	203	1.40		
1500	4.92	13.89	0.619	0.32	5.8	209	1.40		
1503	4.93	13.93	0.618	0.35	5.6	206	1.40		
1506		Collect MW-12D-20211221							

Certified Sample Information:
Time of Sample: 1506

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3BHW4YF
Calibration Date/Time: 12/21/21 0855
Serial No. Handheld: T3LB70WA

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-20211221

Project: Patchogue
Personnel: MHM

Date: 12/21/21 Time: 1354
Weather: Sunny Air Temp.: 40

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: 13.1 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: ____
MS/MSD : ☐ No ☐ Yes Name: ____

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

Signature: [signature] Date: 12/21/21

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:	12/21/21
Personnel:	MH/M	Well ID:	MW-12S
Purge/Sample Depth:	~11.5'	Sample ID:	MW-12S-20211221

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1354	6.15	14.05	0.336	0.70	45.8	113	1.31	200	
1357	6.22	14.46	0.332	0.51	25.0	101	1.31		
1400	6.27	14.60	0.330	0.52	15.2	92	1.31		
1403	6.31	14.81	0.328	0.50	11.9	81	1.31		
1406	6.36	14.91	0.325	0.47	8.6	73	1.31		
1409	6.40	14.92	0.334	0.48	5.8	61	1.31		
1412	6.39	14.95	0.336	0.41	5.8	55	1.31		
1415	6.42	15.02	0.336	0.39	3.9	45	1.31		
1418	6.44	15.05	0.337	0.45	3.6	35	1.31		
1421	6.45	15.10	0.337	0.40	2.8	30	1.31		
1424	6.46	15.12	0.337	0.42	2.7	28	1.31		
1427		Collect MW-12S-20211221							

Certified Sample Information:
Time of Sample: 1427 Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3BUW4YF Serial No. Handheld: 95LB70WA
Calibration Date/Time: 12/21/21 0835

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-14D
Sample I.D.: MW-14D-20211221

Project: PATchogue
Personnel: MH/M

Date: 12/21/21 Time: 1145
Weather: Sunny Air Temp.: 40

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: 51 min Volume Pumped: 3.9 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: 12/21/21

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	Project Number:	153021
Client:	BC	Date:	12/21/21
Personnel:	MH/M	Well ID:	MW-14D
Purge/Sample Depth:	~19.95	Sample ID:	MW-14D-20211221

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1145	5.72	13.08	0.613	0.55	560	76	1.00	250	
1148		EMPTY Horiba					~~1.00~~		
1151	5.29	13.06	0.629	0.51	401	118	1.01		
1154	5.25	13.10	0.629	0.46	379	122	1.00		
1157	5.23	13.13	0.629	0.41	344	128	1.00		
1200	5.21	13.15	0.628	0.40	325	134	1.00		
1203	5.19	13.18	0.627	0.39	310	138	1.00		
1206	5.19	13.21	0.626	0.37	291	140	1.00		
1209	5.19	13.25	0.626	0.35	260	143	1.00		
1212	5.19	13.28	0.626	0.33	229	146	1.00		
1215	5.19	13.30	0.626	0.30	201	150	1.00		
1218		EMPTY Horiba							
1221	5.20	12.48	0.636	0.66	157	155	1.00		
1224	5.18	12.40	0.639	0.54	132	157	1.00		
1227	5.16	12.30	0.642	0.43	109	159	1.00		
1230	5.15	12.20	0.645	0.32	99.8	162	1.00		
1233	5.16	12.17	0.645	0.31	86.9	164	1.00		
1236	5.16	12.16	0.645	0.33	76.0	165	1.00		
1239	Collect	MW-14D-20211221							

Certified Sample Information:
Time of Sample: 1239

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3BUWLVE
Serial No. Handheld: T5LB70WA
Calibration Date/Time: 12/21/21 0835

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-14S
Sample I.D.: MW-14S-20211221

Project: PA Chrome
Personnel: MHM

Date: 12/21/21 Time: 1100
Weather: Sunny Air Temp.: 40

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

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

Signature: _____ Date: 12/21/21

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717-556-7210
717-587-5131

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

Project Name:	PAtchogue	Project Number:	153021
Client:	BC	Date:	12/21/21
Personnel:	MHM	Well ID:	MW-145
Purge/Sample Depth:	~10'	Sample ID:	MW-145-20211221

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1100	6.21	10.97	0.527	1.13	84.0	41	1.05	200	
1103	6.36	10.98	0.530	0.98	66.3	34	1.04		
1106	6.44	10.91	0.531	0.79	51.2	26	1.04		
1109	6.51	10.88	0.532	0.64	38.9	21	1.04		
1112	6.58	10.86	0.532	0.57	25.2	17	1.03		
1115	6.64	10.88	0.533	0.61	17.2	11	1.03		
1118	6.66	10.91	0.532	0.56	14.4	9	1.03		
1121	6.69	10.91	0.533	0.55	11.1	6	1.03		
1124	6.72	10.95	0.533	0.60	8.3	3	1.03		
1127	6.74	10.93	0.533	0.56	7.5	-1	1.03		
1130	6.76	10.94	0.533	0.55	7.0	-1	1.04		
1133		Collect	MW-145-20211221						

Certified Sample Information:
Time of Sample: 1133

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3BUW4YF
Calibration Date/Time: 12/21/21 0835
Serial No. Handheld: 95LB70WA

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-7D
Sample I.D.: MW-7D-20211221

Project: PAICHOGUE
Personnel: MJM

Date: 12/21/21 Time: 1007
Weather: SUNNY Air Temp.: 40°F

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: 9.27 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 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: 12/21/21

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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:	12/21/21
Personnel:	MHm	Well ID:	MW-7D
Purge/Sample Depth:	~425'	Sample ID:	MW-7D-20211221

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1007	6.56	11.63	0.353	2.82	16.0	-67	4.25	225	
1010	6.28	12.61	0.322	2.44	12.2	-39	4.25		
1013	5.99	12.99	0.317	2.16	11.0	01	4.26		
1016	5.76	13.27	0.308	2.37	11.3	25	4.26		
1019	5.64	13.36	0.306	2.51	10.4	43	4.27		
1022	5.61	13.42	0.306	2.51	9.9	49	4.27		
1025	5.62	13.12	0.306	2.65	9.0	56	4.27		
1028	5.54	1350	0.305	2.53	7.5	62	4.27		
1031	5.60	13.53	0.305	2.57	5.2	69	4.27		
1034	5.61	1356	0.305	2.60	4.5	72	4.27		
1037	5.61	1360	0.305	2.55	3.9	75	4.27		
1040		collect MW-7D-20211221							

Certified Sample Information:
Time of Sample: ~~1041~~ 1040

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3B4W4YF
Serial No. Handheld: 95LB76WA
Calibration Date/Time: 12/21/21 0835

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-75 ~~2002~~

Sample I.D.: MW-75-20211221

Project: PATchogue

Personnel: MHM

Date: 12/21/21 Time: 0843

Weather: Sunny Air Temp.: 40 °F

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: 4.31 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: 3.0 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: MW-75-20211221

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

Signature: _____ Date: 12/21/21

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:	12/21/21
Personnel:	MHM	Well ID:	MW-7S
Purge/Sample Depth:	~105'	Sample ID:	MW-7S-20211221

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	5.53	11.94	0.611	1.09	89.2	-45	4.60	300	
0846	5.93	11.86	0.631	1.03	88.5	-64	4.60		
0849	6.26	11.82	0.623	0.95	87.9	-83	4.60		
0852	6.39	11.80	0.620	0.72	83.9	-96	4.60		
0855	6.56	11.80	0.620	678	70 8	-113	4.60		
0858	6.59	11.82	0.621	0.66	62.1	-117	4.60		
0901	6.66	11.84	0.622	0.73	48.5	-125	4.60		
0904	6.70	11.87	0.625	6.69	39.6	-129	4.60		
0907	6.72	11.87	0.625	0.76	31.8	-132	4.60		
0910	6.74	11.90	0625	0.71	25.6	-135	4.60		
0913	6.76	11.92	0.626	0.72	21.2	-139	4.60		
0916		Collect		MW-7S-20211221 + MS/MSD					

Certified Sample Information:
Time of Sample: 0916 Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba - U52
Serial No. Unit: P3BHW4YF Serial No. Handheld: T5LB70WA
Calibration Date/Time: 12/21/21 0835

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-8D
Sample I.D.: MW-8D-2021 1220

Project: PAtchogue
Personnel: M/M

Date: 12/20/21 Time: 1424
Weather: SUNNY Air Temp.: 37

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

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

Signature: _____ Date: 12/20/21

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Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name:	PAlchoyue	Project Number:	153021
Client:	BC	Date:	12/20/21
Personnel:	MLM	Well ID:	MW-8D
Purge/Sample Depth:	~22.5	Sample ID:	MW-8D-20211220

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1621	5.92	13.82	0.461	0.73	8.8	25	0.67	200	
1627	5.84	13.93	0.462	0.68	7.4	37	0.67		
~~1430~~	5.79	13.97	0.463	0.55	15.8	44	0.67		
~~1433~~	5.76	14.05	0.464	0.49	36.0	54	0.67		
1636	5.75	14.14	0.464	0.45	32.5	61	0.67		
1639	5.73	14.12	0.465	0.38	28.2	66	0.67		
1642	5.72	14.13	0.464	0.40	24.3	70	0.67		
1645	5.72	14.14	0.464	0.41	21.0	72	0.67		
1648	5.72	14.16	0.465	0.37	16.7	75	0.67		
1651	5.72	14.18	0.465	0.45	15.3	79	0.67		
1654	5.72	1420	0.465	0.43	14.5	79	0.67		
1657		Collect MW-8D-20211220							

Certified Sample Information:
Time of Sample: 1457

Analyst Signature:

Instrument Data:
Manufacturer/Model: HORIBA-U52
Serial No. Unit: P3BULIYF
Calibration Date/Time: 12/20/21 1235
Serial No. Handheld: 95LB70WA

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-8S
Sample I.D.: MW-8S-20211220

Project: PA Refinery
Personnel: MHM

Date: 12/20/21 Time: 1545
Weather: SUNNY Air Temp.: 40

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: 0.75 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 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: 12/20/21

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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:	12/20/21
Personnel:	MHM	Well ID:	MW-85
Purge/Sample Depth:	~7.5'	Sample ID:	MW-85-20211220

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1545	6.42	12.59	0.433	0.56	37.2	-31	0.78	225	
1548	6.38	13.23	0.432	0.49	28.1	-28	0.78		
1551	6.36	13.42	0.432	0.42	22.4	-28	0.79		
1554	6.38	13.52	0.431	0.41	18.2	-29	0.79		
1557	6.38	13.89	0.428	0.37	16.2	-31	0.79		
1600	6.38	14.22	0.425	0.35	15.7	-32	0.79		
1603	6.39	14.25	0.425	0.32	12.6	-32	0.79		
1606	6.39	14.28	0.425	0.28	11.9	-33	0.79		
1609	6.40	14.35	0.425	0.31	11.2	-34	0.79		
1612	6.40	14.38	0.426	0.37	8.8	-35	0.79		
1615	6.40	14.41	0.426	0.37	8.7	-35	0.79		
1618		Collect MW-85-20211220							

Certified Sample Information:
Time of Sample: 1618

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3BUW4YF
Calibration Date/Time: 12/20/21 1235

Serial No. Handheld: 75LB70WA

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-10D
Sample I.D.: MW-10D-20211220

Project: PSEG Nogue
Personnel: MJM

Date: 12/20/21 Time: 1451
Weather: Sunny Air Temp.: 40

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: 103 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/MN Elapsed Time: 30 MN 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: _____
MS/MSD : ☑ No ☐ Yes Name: _____

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

Signature: _____ Date: 12/20/21

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Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name:	PAthogue	Project Number:	153021
Client:	BC	Date:	12/20/21
Personnel:	MHM	Well ID:	MW-10D
Purge/Sample Depth:	~23.5	Sample ID:	MW-10D-20211220

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1451	6.67	13.85	0.520	1.34	91.0	-81	1.02	200	
1454	6.65	13.68	0.561	0.78	72.7	-71	1.02		
1459	6.67	13.61	0.572	0.51	60.4	-64	1.02		
1500	6.68	13.55	0.569	0.57	56.6	-68	1.02		
1503	6.69	13.49	0.566	0.42	53.7	-67	1.02		
1506	6.68	13.43	0.533	0.41	52.0	-65	1.02		
1509	6.66	13.39	0.525	0.40	50.9	-63	1.02		
1512	6.67	1332	0516	6.40	49.8	-61	1.02		
1515	6.64	13.21	0.506	0.43	14.0	-58	1.02		
1518	6.63	13.17	0.504	0.45	11.2	-57	1.02		
1521	6.63	13.11	0.501	0.50	10.2	-56	1.02		
1524		Collect MW-10D-20211220							

Certified Sample Information:
Time of Sample: 1524 Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba-U52
Serial No. Unit: P3BUW4YF Serial No. Handheld: 95LB70WA
Calibration Date/Time: 12/20/21 1235

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-105-20211220

Project: PATCHOGUE
Personnel: MHM

Date: 12/20/21 Time: 1338
Weather: SUNNY Air Temp.: 40

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: 10 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: 69 MIN Volume Pumped: 5.1 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: 12/20/21

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Phone: (201) 574-4700 Fax: (201) 236-1607

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

Project Name:	PAIchogue	Project Number:	153020
Client:	BP	Date:	12/20/21
Personnel:	MHM	Well ID:	MW-10S
Purge/Sample Depth:	~141'	Sample ID:	MW-10S-20211220

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1330	6.35	14.04	0.554	0.81	372	-60	1.04	250	
1341	6.31	14.66	0.536	0.63	528	-64	1.03		
1344	6.31	14.87	0.538	0.55	771	-67	1.03		
1347	6.35	14.95	0.545	0.53	758	-72	1.04		
1350	6.37	15.02	0.551	0.51	749	-78	1.04		
1353	6.38	15.67	0.554	0.48	692	-80	1.03		
1356	6.38	15.10	0.556	0.47	631	-83	1.03		
1359	6.38	15.13	0.558	0.44	570	-85	1.03		
1402	6.39	15.13	0.559	0.40	530	-86	1.03		
1405		EMPTY horiba							
1408	6.42	15.06	0.567	0.51	427	-87	1.03		
1411	6.48	15.04	0.568	0.53	338	-92	1.03		
1414	6.53	15.03	0.569	0.55	251	-95	1.03		
1417	6.55	15.02	0.570	0.58	165	-97	1.03		
1420	6.56	15.16	0.577	0.44	196	-98	1.03		
1423	6.56	15.19	0.579	0.44	192	-99	1.03		
1426	6.56	15.22	0.580	0.43	188	-100	1.03		
1429			EMPTY horiba						
1432									
1435	6.58	15.23	0.583	0.43	120	-98	1.03		
1438	6.60	15.26	0.584	0.40	99.8	-99	1.03		
1441	6.60	15.28	0.585	0.41	[redacted] 92.3	-100	1.03		
1444	6.61	15.29	0.586	0.41	[redacted] 96.1	-101	1.03		
1447		COLLECT MW-10S-20211220							

Certified Sample Information:
Time of Sample: 1447

Analyst Signature: [signature]

Instrument Data:
Manufacturer/Model: Horiba - U52
Serial No. Unit: P3BUW4YF
Calibration Date/Time: 12/20/21 1235
Serial No. Handheld: 95LB70WA

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-1-20211220

Project: Parkhoge
Personnel: MHM

Date: 12/20/21 Time: 1245
Weather: Sunny Air Temp.: 30

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: 5.85 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: 3.0 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: 12/20/21

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:	PAlchogue	Project Number:	153021
Client:	BC	Date:	12/20/21
Personnel:	M.M	Well ID:	MW-1
Purge/Sample Depth:	~10.5'	Sample ID:	MW-1-20211220

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1245	6.42	12.72	1.50	1.17	24.7	18	~~6.00~~	350	
1248	6.58	13.47	1.56	0.87	27.9	-18	6.00	↓	
1251	6.63	13.62	1.59	0.82	25.8	-31	6.01	↓	
1254	6.69	13.85	1.61	0.78	24.5	-46	6.00	↓	
1257	6.75	13.94	1.57	0.65	20.9	-58	5.92	300	
1300	6.77	14.08	1.54	0.57	18.3	-62	5.88	↓	
1303	6.79	14.16	1.53	0.51	15.9	-68	5.88	↓	
1306	6.81	14.11	1.53	0.53	14.7	-64	5.88	↓	
1309	6.81	13.94	1.50	0.51	11.8	-71	5.88	↓	
1312	6.82	13.94	1.49	0.52	9.6	-72	5.88	↓	
1315	6.83	13.96	1.48	0.56	8.1	-74	5.88	↓	
1318		collect MW-1-20211220							

Certified Sample Information:
Time of Sample: 1318

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba - U52
Serial No. Unit: P3BUWLIYF
Serial No. Handheld: 75LB70WA
Calibration Date/Time: 12/20/21 1235

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 Reports

ANALYTICAL REPORT

Job Number: 410-68043-1

Job Description: Patchogue, NY

For:
Brown and Caldwell
500 North Franklin Turnpike
Suite 306
Ramsey, NJ 07446

Attention: Mr. James L Marolda

Barb Weyandt

Approved for release.
Barbara A Weyandt
Project Manager
1/11/2022 2:24 PM

Barbara A Weyandt, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7264
Barbara.Weyandt@eurofinset.com
01/11/2022

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.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-68043-1

Job Description: Patchogue, NY

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.

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Job Narrative
410-68043-1

Receipt
The samples were received on 12/22/2021 8:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.4°C, 1.7°C and 1.9°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-7D-20211221 (410-68043-7). The container labels list 10:40, while the COC lists 10:37.

The COC lists 2 containers were sent but 4 containers were received.

TB-20211222 (410-68043-21)

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
Method 8270D_SIM: The laboratory control sample (LCS) for preparation batch 410-209023 and analytical batch 410-209113 recovered outside control limits for the following analytes: Dibenz(a,h)anthracene, Benzo[b]fluoranthene, Benzo[g,h,i]perylene, Benzo[k]fluoranthene and Indeno[1,2,3-cd]pyrene. The associated sample(s) was re-prepared and/or re-analyzed outside holding time. Both sets of data have been reported.

Method 8270D_SIM: Internal standard responses were outside of acceptance limits for the following sample: MW-12S-20211221 (410-68043-11). Re-analysis was performed with concurring results.

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: 410-68043-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-68043-1	MW-1-20211220	Ground Water	12/20/21 13:18	12/22/21 20:49
410-68043-2	MW-10S-20211220	Ground Water	12/20/21 14:47	12/22/21 20:49
410-68043-3	MW-10D-20211220	Ground Water	12/20/21 15:24	12/22/21 20:49
410-68043-4	MW-8S-20211220	Ground Water	12/20/21 16:18	12/22/21 20:49
410-68043-5	MW-8D-20211220	Ground Water	12/20/21 16:57	12/22/21 20:49
410-68043-6	MW-7S-20211221	Ground Water	12/21/21 09:16	12/22/21 20:49
410-68043-7	MW-7D-20211221	Ground Water	12/21/21 10:37	12/22/21 20:49
410-68043-8	MW-14S-20211221	Ground Water	12/21/21 11:33	12/22/21 20:49
410-68043-9	MW-14D-20211221	Ground Water	12/21/21 12:39	12/22/21 20:49
410-68043-10	EB-20211221	Water	12/21/21 13:40	12/22/21 20:49
410-68043-11	MW-12S-20211221	Ground Water	12/21/21 14:27	12/22/21 20:49
410-68043-12	MW-12D-20211221	Ground Water	12/21/21 15:06	12/22/21 20:49
410-68043-13	MW-11S-20211221	Ground Water	12/21/21 16:17	12/22/21 20:49
410-68043-14	MW-11D-20211221	Ground Water	12/21/21 17:01	12/22/21 20:49
410-68043-15	MW-4S-20211222	Ground Water	12/22/21 09:31	12/22/21 20:49
410-68043-16	MW-4D-20211222	Ground Water	12/22/21 10:08	12/22/21 20:49
410-68043-17	MW-3-20211222	Ground Water	12/22/21 10:51	12/22/21 20:49
410-68043-18	MW-13S-20211222	Ground Water	12/22/21 11:32	12/22/21 20:49
410-68043-19	MW-13D-20211222	Ground Water	12/22/21 12:10	12/22/21 20:49
410-68043-20	Dup-20211222	Ground Water	12/22/21 00:00	12/22/21 20:49
410-68043-21	TB-20211222	Water	12/22/21 00:00	12/22/21 20:49

Detection Summary

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

Job ID: 410-68043-1

Client Sample ID: MW-1-20211220 — Lab Sample ID: 410-68043-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	0.011	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-10S-20211220 — Lab Sample ID: 410-68043-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.017	J cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.018	J cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.026	J *+ cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.016	J *+ cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.017	J cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.010	J cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.023	J cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-10D-20211220 — Lab Sample ID: 410-68043-3

No Detections.

Client Sample ID: MW-8S-20211220 — Lab Sample ID: 410-68043-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.26	cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.016	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.018	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.030	J *+ cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.017	J *+ cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.011	J *+ cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.045	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.014	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.058	J cn	0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	0.043	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-8D-20211220 — Lab Sample ID: 410-68043-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.019	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.023	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.034	J *+ cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.017	J *+ cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.043	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.043	J cn	0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	0.040	J cn	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-7S-20211221 — Lab Sample ID: 410-68043-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.31	J	1.0	0.30	ug/L	1		8260C	Total/NA
Acenaphthene	0.087		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.015	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.021	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.017	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-68043-1

Client Sample ID: MW-7D-20211221 — Lab Sample ID: 410-68043-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.011	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.015	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.013	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-14S-20211221 — Lab Sample ID: 410-68043-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.18		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.018	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.010	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.013	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.023	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-14D-20211221 — Lab Sample ID: 410-68043-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.018	J cn	0.054	0.011	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.047	J cn	0.054	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.013	J cn	0.054	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.014	J *+ cn	0.054	0.011	ug/L	1		8270D SIM	Total/NA
Fluoranthene	0.020	J cn	0.054	0.011	ug/L	1		8270D SIM	Total/NA
Fluorene	0.12	cn	0.054	0.011	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.042	J cn	0.075	0.032	ug/L	1		8270D SIM	Total/NA
Pyrene	0.023	J cn	0.054	0.011	ug/L	1		8270D SIM	Total/NA

Client Sample ID: EB-20211221 — Lab Sample ID: 410-68043-10

No Detections.

Client Sample ID: MW-12S-20211221 — Lab Sample ID: 410-68043-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.010	J cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-12D-20211221 — Lab Sample ID: 410-68043-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.011	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-11S-20211221 — Lab Sample ID: 410-68043-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		1.0	0.30	ug/L	1		8260C	Total/NA
Xylenes, Total	0.72	J	1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthylene	1.8	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	1.9	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.75	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.33	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.30	*+ cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[g,h,i]perylene	0.12	*+ cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.11	*+ cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.52	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Dibenz(a,h)anthracene	0.038	J *+ cn	0.051	0.020	ug/L	1		8270D SIM	Total/NA
Fluoranthene	3.5	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-11S-20211221 (Continued) — Lab Sample ID: 410-68043-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluorene	4.9	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.14	*+ cn	0.051	0.020	ug/L	1		8270D SIM	Total/NA
Naphthalene	2.9	cn	0.071	0.031	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.73	cn	0.071	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	4.1	cn	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	41	cn	0.51	0.10	ug/L	10		8270D SIM	Total/NA

Client Sample ID: MW-11D-20211221 — Lab Sample ID: 410-68043-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.017	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.016	J	0.051	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-4S-20211222 — Lab Sample ID: 410-68043-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.30	J	1.0	0.30	ug/L	1		8260C	Total/NA
Acenaphthylene	0.76		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.32		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	5.1		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	7.5		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.073		0.071	0.031	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.21		0.071	0.031	ug/L	1		8270D SIM	Total/NA
Pyrene	4.8		0.051	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	21		0.25	0.051	ug/L	5		8270D SIM	Total/NA

Client Sample ID: MW-4D-20211222 — Lab Sample ID: 410-68043-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.011	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-3-20211222 — Lab Sample ID: 410-68043-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.64	J	1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	4.1		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.76	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	6.3		1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthylene	4.9		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Anthracene	1.7		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.73		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.013	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.020	J	0.053	0.011	ug/L	1		8270D SIM	Total/NA
Chrysene	0.41		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Phenanthrene	10		0.074	0.032	ug/L	1		8270D SIM	Total/NA
Pyrene	9.9		0.053	0.011	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	44		0.53	0.11	ug/L	10		8270D SIM	Total/NA
Fluoranthene - DL	15		0.53	0.11	ug/L	10		8270D SIM	Total/NA
Fluorene - DL	11		0.53	0.11	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL	99		0.74	0.32	ug/L	10		8270D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-68043-1

Client Sample ID: MW-13S-20211222 — Lab Sample ID: 410-68043-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	9.0		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.57		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	4.1		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.49		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.013	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.020	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.30		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	3.7		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	3.9		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	2.4		0.070	0.030	ug/L	1		8270D SIM	Total/NA
Phenanthrene	8.8		0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	3.5		0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-13D-20211222 — Lab Sample ID: 410-68043-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.023	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.023	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: Dup-20211222 — Lab Sample ID: 410-68043-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.58	J	1.0	0.30	ug/L	1		8260C	Total/NA
Ethylbenzene	3.9		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.69	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	5.7		1.0	0.40	ug/L	1		8260C	Total/NA
Acenaphthylene	5.4		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	1.9		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.82		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.017	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.020	J	0.052	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.40		0.052	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	51		1.0	0.21	ug/L	20		8270D SIM	Total/NA
Fluoranthene - DL	18		1.0	0.21	ug/L	20		8270D SIM	Total/NA
Fluorene - DL	18		1.0	0.21	ug/L	20		8270D SIM	Total/NA
Naphthalene - DL	110		1.4	0.62	ug/L	20		8270D SIM	Total/NA
Phenanthrene - DL	13		1.4	0.62	ug/L	20		8270D SIM	Total/NA
Pyrene - DL	15		1.0	0.21	ug/L	20		8270D SIM	Total/NA

Client Sample ID: TB-20211222 — Lab Sample ID: 410-68043-21

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 410-68043-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270D 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 Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Client Sample ID: MW-1-20211220

Lab Sample ID: 410-68043-1

Date Collected: 12/20/21 13:18

Matrix: Ground Water

Date Received: 12/22/21 20:49

Method: 8260C - 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			12/30/21 18:24	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 18:24	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 18:24	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 18:24	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 18:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/30/21 18:24*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*12/30/21 18:24*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/30/21 18:24*	*1*

Method: 8270D 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		12/27/21 03:09	12/27/21 17:54	1
Acenaphthylene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Anthracene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Benzo[b]fluoranthene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Benzo[g,h,i]perylene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Benzo[k]fluoranthene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Chrysene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Dibenz(a,h)anthracene	ND	*+	0.051	0.021	ug/L		12/27/21 03:09	12/27/21 17:54	1
Fluoranthene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Fluorene	**0.011**	**J**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.051	0.021	ug/L		12/27/21 03:09	12/27/21 17:54	1
Naphthalene	ND		0.072	0.031	ug/L		12/27/21 03:09	12/27/21 17:54	1
Phenanthrene	ND		0.072	0.031	ug/L		12/27/21 03:09	12/27/21 17:54	1
Pyrene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*86*		*10 - 110*	*12/27/21 03:09*	*12/27/21 17:54*	*1*
1-Methylnaphthalene-d10 (Surr)	*97*		*36 - 111*	*12/27/21 03:09*	*12/27/21 17:54*	*1*
Fluoranthene-d10 (Surr)	*91*		*47 - 128*	*12/27/21 03:09*	*12/27/21 17:54*	*1*

Client Sample ID: MW-10S-20211220

Lab Sample ID: 410-68043-2

Date Collected: 12/20/21 14:47

Matrix: Ground Water

Date Received: 12/22/21 20:49

Method: 8260C - 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			12/30/21 18:45	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 18:45	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 18:45	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 18:45	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 18:45*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/30/21 18:45*	*1*

Client Sample ID: MW-10S-20211220

Date Collected: 12/20/21 14:47
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-2

Matrix: Ground Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 18:45*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/30/21 18:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Acenaphthylene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Anthracene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Benzo[a]anthracene	**0.017**	**J cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Benzo[a]pyrene	**0.018**	**J cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Benzo[b]fluoranthene	**0.026**	**J *+ cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Benzo[g,h,i]perylene	**0.016**	**J *+ cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Benzo[k]fluoranthene	ND	*+ cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Chrysene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Dibenz(a,h)anthracene	ND	*+ cn	0.051	0.021	ug/L		12/27/21 03:09	12/27/21 18:22	1
Fluoranthene	**0.017**	**J cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Fluorene	**0.010**	**J cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1
Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.051	0.021	ug/L		12/27/21 03:09	12/27/21 18:22	1
Naphthalene	ND	cn	0.072	0.031	ug/L		12/27/21 03:09	12/27/21 18:22	1
Phenanthrene	ND	cn	0.072	0.031	ug/L		12/27/21 03:09	12/27/21 18:22	1
Pyrene	**0.023**	**J cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*90*	*cn*	*10 - 110*	*12/27/21 03:09*	*12/27/21 18:22*	*1*
1-Methylnaphthalene-d10 (Surr)	*97*	*cn*	*36 - 111*	*12/27/21 03:09*	*12/27/21 18:22*	*1*
Fluoranthene-d10 (Surr)	*93*	*cn*	*47 - 128*	*12/27/21 03:09*	*12/27/21 18:22*	*1*

Client Sample ID: MW-10D-20211220

Date Collected: 12/20/21 15:24
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-3

Matrix: Ground Water

Method: 8260C - 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			12/30/21 19:05	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 19:05	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 19:05	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 19:05	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*12/30/21 19:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*12/30/21 19:05*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/30/21 19:05*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/30/21 19:05*	*1*

Method: 8270D 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		12/27/21 03:09	12/27/21 18:50	1
Acenaphthylene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Anthracene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1

Client Sample ID: MW-10D-20211220

Date Collected: 12/20/21 15:24
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Benzo[b]fluoranthene	ND	*+	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Benzo[g,h,i]perylene	ND	*+	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Benzo[k]fluoranthene	ND	*+	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Chrysene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Dibenz(a,h)anthracene	ND	*+	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 18:50	1
Fluoranthene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Fluorene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 18:50	1
Naphthalene	ND		0.070	0.030	ug/L		12/27/21 03:09	12/27/21 18:50	1
Phenanthrene	ND		0.070	0.030	ug/L		12/27/21 03:09	12/27/21 18:50	1
Pyrene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*65*		*10 - 110*	*12/27/21 03:09*	*12/27/21 18:50*	*1*
1-Methylnaphthalene-d10 (Surr)	*88*		*36 - 111*	*12/27/21 03:09*	*12/27/21 18:50*	*1*
Fluoranthene-d10 (Surr)	*82*		*47 - 128*	*12/27/21 03:09*	*12/27/21 18:50*	*1*

Client Sample ID: MW-8S-20211220

Date Collected: 12/20/21 16:18
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-4
Matrix: Ground Water

Method: 8260C - 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			12/30/21 19:25	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 19:25	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 19:25	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 19:25	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*12/30/21 19:25*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*12/30/21 19:25*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 19:25*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/30/21 19:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.26**	**cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Acenaphthylene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Anthracene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Benzo[a]anthracene	**0.016**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Benzo[a]pyrene	**0.018**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Benzo[b]fluoranthene	**0.030**	**J *+ cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Benzo[g,h,i]perylene	**0.017**	**J *+ cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Benzo[k]fluoranthene	**0.011**	**J *+ cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Chrysene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Dibenz(a,h)anthracene	ND	*+ cn	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 19:18	1
Fluoranthene	**0.045**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1
Fluorene	**0.014**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1

Client Sample ID: MW-8S-20211220

Date Collected: 12/20/21 16:18
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 19:18	1
Naphthalene	ND	cn	0.070	0.030	ug/L		12/27/21 03:09	12/27/21 19:18	1
Phenanthrene	**0.058**	**J cn**	0.070	0.030	ug/L		12/27/21 03:09	12/27/21 19:18	1
Pyrene	**0.043**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*91*	*cn*	*10 - 110*	*12/27/21 03:09*	*12/27/21 19:18*	*1*
1-Methylnaphthalene-d10 (Surr)	*95*	*cn*	*36 - 111*	*12/27/21 03:09*	*12/27/21 19:18*	*1*
Fluoranthene-d10 (Surr)	*98*	*cn*	*47 - 128*	*12/27/21 03:09*	*12/27/21 19:18*	*1*

Client Sample ID: MW-8D-20211220

Date Collected: 12/20/21 16:57
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-5

Matrix: Ground Water

Method: 8260C - 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			12/30/21 19:45	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 19:45	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 19:45	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 19:45	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 19:45*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/30/21 19:45*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*12/30/21 19:45*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/30/21 19:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Acenaphthylene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Anthracene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Benzo[a]anthracene	**0.019**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Benzo[a]pyrene	**0.023**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Benzo[b]fluoranthene	**0.034**	**J *+ cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Benzo[g,h,i]perylene	**0.017**	**J *+ cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Benzo[k]fluoranthene	ND	*+ cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Chrysene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Dibenz(a,h)anthracene	ND	*+ cn	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 19:46	1
Fluoranthene	**0.043**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Fluorene	ND	cn	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1
Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 19:46	1
Naphthalene	ND	cn	0.070	0.030	ug/L		12/27/21 03:09	12/27/21 19:46	1
Phenanthrene	**0.043**	**J cn**	0.070	0.030	ug/L		12/27/21 03:09	12/27/21 19:46	1
Pyrene	**0.040**	**J cn**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*74*	*cn*	*10 - 110*	*12/27/21 03:09*	*12/27/21 19:46*	*1*
1-Methylnaphthalene-d10 (Surr)	*85*	*cn*	*36 - 111*	*12/27/21 03:09*	*12/27/21 19:46*	*1*
Fluoranthene-d10 (Surr)	*89*	*cn*	*47 - 128*	*12/27/21 03:09*	*12/27/21 19:46*	*1*

Client Sample ID: MW-7S-20211221

Date Collected: 12/21/21 09:16
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.31**	**J**	1.0	0.30	ug/L			12/30/21 20:05	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 20:05	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 20:05	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 20:05	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 20:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 20:05*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/30/21 20:05*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*12/30/21 20:05*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/30/21 20:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.087**		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Acenaphthylene	**0.015**	**J**	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Anthracene	**0.021**	**J**	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Benzo[b]fluoranthene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Benzo[g,h,i]perylene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Benzo[k]fluoranthene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Chrysene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Dibenz(a,h)anthracene	ND	*+	0.052	0.021	ug/L		12/27/21 03:09	12/27/21 20:13	1
Fluoranthene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Fluorene	**0.017**	**J**	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.052	0.021	ug/L		12/27/21 03:09	12/27/21 20:13	1
Naphthalene	ND		0.073	0.031	ug/L		12/27/21 03:09	12/27/21 20:13	1
Phenanthrene	ND		0.073	0.031	ug/L		12/27/21 03:09	12/27/21 20:13	1
Pyrene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*79*		*10 - 110*	*12/27/21 03:09*	*12/27/21 20:13*	*1*
1-Methylnaphthalene-d10 (Surr)	*92*		*36 - 111*	*12/27/21 03:09*	*12/27/21 20:13*	*1*
Fluoranthene-d10 (Surr)	*91*		*47 - 128*	*12/27/21 03:09*	*12/27/21 20:13*	*1*

Client Sample ID: MW-7D-20211221

Date Collected: 12/21/21 10:37
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-7
Matrix: Ground Water

Method: 8260C - 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			12/30/21 21:26	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 21:26	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 21:26	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 21:26	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 21:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/30/21 21:26*	*1*

Client Sample ID: MW-7D-20211221

Date Collected: 12/21/21 10:37
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-7

Matrix: Ground Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 21:26*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/30/21 21:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Acenaphthylene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Anthracene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Benzo[a]anthracene	**0.011**	**J**	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Benzo[b]fluoranthene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Benzo[g,h,i]perylene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Benzo[k]fluoranthene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Chrysene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Dibenz(a,h)anthracene	ND	*+	0.052	0.021	ug/L		12/27/21 03:09	12/27/21 21:37	1
Fluoranthene	**0.015**	**J**	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Fluorene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.052	0.021	ug/L		12/27/21 03:09	12/27/21 21:37	1
Naphthalene	ND		0.073	0.031	ug/L		12/27/21 03:09	12/27/21 21:37	1
Phenanthrene	ND		0.073	0.031	ug/L		12/27/21 03:09	12/27/21 21:37	1
Pyrene	**0.013**	**J**	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*81*		*10 - 110*	*12/27/21 03:09*	*12/27/21 21:37*	*1*
1-Methylnaphthalene-d10 (Surr)	*87*		*36 - 111*	*12/27/21 03:09*	*12/27/21 21:37*	*1*
Fluoranthene-d10 (Surr)	*86*		*47 - 128*	*12/27/21 03:09*	*12/27/21 21:37*	*1*

Client Sample ID: MW-14S-20211221

Date Collected: 12/21/21 11:33
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-8

Matrix: Ground Water

Method: 8260C - 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			12/30/21 21:46	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 21:46	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 21:46	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 21:46	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 21:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/30/21 21:46*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 21:46*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/30/21 21:46*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.18**		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Acenaphthylene	**0.018**	**J**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Anthracene	**0.010**	**J**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1

Client Sample ID: MW-14S-20211221

Date Collected: 12/21/21 11:33
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Benzo[b]fluoranthene	ND	*+	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Benzo[g,h,i]perylene	ND	*+	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Benzo[k]fluoranthene	ND	*+	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Chrysene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Dibenz(a,h)anthracene	ND	*+	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 22:05	1
Fluoranthene	**0.013**	**J**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Fluorene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.050	0.020	ug/L		12/27/21 03:09	12/27/21 22:05	1
Naphthalene	ND		0.070	0.030	ug/L		12/27/21 03:09	12/27/21 22:05	1
Phenanthrene	ND		0.070	0.030	ug/L		12/27/21 03:09	12/27/21 22:05	1
Pyrene	**0.023**	**J**	0.050	0.010	ug/L		12/27/21 03:09	12/27/21 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*91*		*10 - 110*	*12/27/21 03:09*	*12/27/21 22:05*	*1*
1-Methylnaphthalene-d10 (Surr)	*94*		*36 - 111*	*12/27/21 03:09*	*12/27/21 22:05*	*1*
Fluoranthene-d10 (Surr)	*91*		*47 - 128*	*12/27/21 03:09*	*12/27/21 22:05*	*1*

Client Sample ID: MW-14D-20211221

Date Collected: 12/21/21 12:39
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-9

Matrix: Ground Water

Method: 8260C - 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			12/30/21 22:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 22:07	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 22:07	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 22:07	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*12/30/21 22:07*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/30/21 22:07*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 22:07*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/30/21 22:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.018**	**J cn**	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Acenaphthylene	**0.047**	**J cn**	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Anthracene	ND	cn	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Benzo[a]anthracene	**0.013**	**J cn**	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Benzo[a]pyrene	ND	cn	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Benzo[b]fluoranthene	**0.014**	**J *+ cn**	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Benzo[g,h,i]perylene	ND	*+ cn	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Benzo[k]fluoranthene	ND	*+ cn	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Chrysene	ND	cn	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Dibenz(a,h)anthracene	ND	*+ cn	0.054	0.022	ug/L		12/27/21 03:09	12/27/21 22:32	1
Fluoranthene	**0.020**	**J cn**	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1
Fluorene	**0.12**	**cn**	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1

Client Sample ID: MW-14D-20211221

Date Collected: 12/21/21 12:39
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-9
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.054	0.022	ug/L		12/27/21 03:09	12/27/21 22:32	1
Naphthalene	ND	cn	0.075	0.032	ug/L		12/27/21 03:09	12/27/21 22:32	1
Phenanthrene	**0.042**	**J cn**	0.075	0.032	ug/L		12/27/21 03:09	12/27/21 22:32	1
Pyrene	**0.023**	**J cn**	0.054	0.011	ug/L		12/27/21 03:09	12/27/21 22:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*54*	*cn*	*10 - 110*	*12/27/21 03:09*	*12/27/21 22:32*	*1*
1-Methylnaphthalene-d10 (Surr)	*95*	*cn*	*36 - 111*	*12/27/21 03:09*	*12/27/21 22:32*	*1*
Fluoranthene-d10 (Surr)	*94*	*cn*	*47 - 128*	*12/27/21 03:09*	*12/27/21 22:32*	*1*

Client Sample ID: EB-20211221

Date Collected: 12/21/21 13:40
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-10
Matrix: Water

Method: 8260C - 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			12/30/21 17:44	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 17:44	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 17:44	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 17:44	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 17:44*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/30/21 17:44*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/30/21 17:44*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/30/21 17:44*	*1*

Method: 8270D 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		12/27/21 03:09	12/27/21 23:00	1
Acenaphthylene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Anthracene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Benzo[b]fluoranthene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Benzo[g,h,i]perylene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Benzo[k]fluoranthene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Chrysene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Dibenz(a,h)anthracene	ND	*+	0.051	0.020	ug/L		12/27/21 03:09	12/27/21 23:00	1
Fluoranthene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Fluorene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.051	0.020	ug/L		12/27/21 03:09	12/27/21 23:00	1
Naphthalene	ND		0.071	0.031	ug/L		12/27/21 03:09	12/27/21 23:00	1
Phenanthrene	ND		0.071	0.031	ug/L		12/27/21 03:09	12/27/21 23:00	1
Pyrene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*67*		*10 - 110*	*12/27/21 03:09*	*12/27/21 23:00*	*1*
1-Methylnaphthalene-d10 (Surr)	*70*		*36 - 111*	*12/27/21 03:09*	*12/27/21 23:00*	*1*
Fluoranthene-d10 (Surr)	*74*		*47 - 128*	*12/27/21 03:09*	*12/27/21 23:00*	*1*

Client Sample ID: MW-12S-20211221

Date Collected: 12/21/21 14:27
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-11
Matrix: Ground Water

Method: 8260C - 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			12/30/21 22:27	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 22:27	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 22:27	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 22:27	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 22:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/30/21 22:27*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 22:27*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/30/21 22:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Acenaphthylene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Anthracene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Benzo[a]anthracene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Benzo[a]pyrene	ND	*3 cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Benzo[b]fluoranthene	ND	*3 *+ cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Benzo[g,h,i]perylene	ND	*3 *+ cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Benzo[k]fluoranthene	ND	*3 *+ cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Chrysene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Dibenz(a,h)anthracene	ND	*3 *+ cn	0.051	0.021	ug/L		12/27/21 03:09	12/27/21 23:28	1
Fluoranthene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Fluorene	ND	cn	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1
Indeno[1,2,3-cd]pyrene	ND	*3 *+ cn	0.051	0.021	ug/L		12/27/21 03:09	12/27/21 23:28	1
Naphthalene	ND	cn	0.072	0.031	ug/L		12/27/21 03:09	12/27/21 23:28	1
Phenanthrene	ND	cn	0.072	0.031	ug/L		12/27/21 03:09	12/27/21 23:28	1
Pyrene	**0.010**	**J cn**	0.051	0.010	ug/L		12/27/21 03:09	12/27/21 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*61*	*3 cn	*10 - 110*	*12/27/21 03:09*	*12/27/21 23:28*	*1*
1-Methylnaphthalene-d10 (Surr)	*96*	*cn	*36 - 111*	*12/27/21 03:09*	*12/27/21 23:28*	*1*
Fluoranthene-d10 (Surr)	*92*	*cn	*47 - 128*	*12/27/21 03:09*	*12/27/21 23:28*	*1*

Client Sample ID: MW-12D-20211221

Date Collected: 12/21/21 15:06
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-12
Matrix: Ground Water

Method: 8260C - 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			12/30/21 22:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 22:47	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 22:47	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 22:47	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 22:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/30/21 22:47*	*1*

Client Sample ID: MW-12D-20211221

Date Collected: 12/21/21 15:06
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-12

Matrix: Ground Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/30/21 22:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/30/21 22:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Acenaphthylene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Anthracene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Benzo[b]fluoranthene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Benzo[g,h,i]perylene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Benzo[k]fluoranthene	ND	*+	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Chrysene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Dibenz(a,h)anthracene	ND	*+	0.052	0.021	ug/L		12/27/21 03:09	12/27/21 23:56	1
Fluoranthene	**0.011**	**J**	0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Fluorene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.052	0.021	ug/L		12/27/21 03:09	12/27/21 23:56	1
Naphthalene	ND		0.072	0.031	ug/L		12/27/21 03:09	12/27/21 23:56	1
Phenanthrene	ND		0.072	0.031	ug/L		12/27/21 03:09	12/27/21 23:56	1
Pyrene	ND		0.052	0.010	ug/L		12/27/21 03:09	12/27/21 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*41*		*10 - 110*	*12/27/21 03:09*	*12/27/21 23:56*	*1*
1-Methylnaphthalene-d10 (Surr)	*94*		*36 - 111*	*12/27/21 03:09*	*12/27/21 23:56*	*1*
Fluoranthene-d10 (Surr)	*94*		*47 - 128*	*12/27/21 03:09*	*12/27/21 23:56*	*1*

Client Sample ID: MW-11S-20211221

Date Collected: 12/21/21 16:17
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-13

Matrix: Ground Water

Method: 8260C - 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			12/30/21 23:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 23:07	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 23:07	1
Xylenes, Total	**0.72**	**J**	1.0	0.40	ug/L			12/30/21 23:07	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 23:07*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/30/21 23:07*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/30/21 23:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/30/21 23:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**1.8**	**cn**	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Anthracene	**1.9**	**cn**	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Benzo[a]anthracene	**0.75**	**cn**	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1

Client Sample ID: MW-11S-20211221

Date Collected: 12/21/21 16:17
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-13
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	0.33	cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Benzo[b]fluoranthene	0.30	*+ cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Benzo[g,h,i]perylene	0.12	*+ cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Benzo[k]fluoranthene	0.11	*+ cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Chrysene	0.52	cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Dibenz(a,h)anthracene	0.038	J *+ cn	0.051	0.020	ug/L		12/27/21 03:09	12/28/21 00:23	1
Fluoranthene	3.5	cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Fluorene	4.9	cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1
Indeno[1,2,3-cd]pyrene	0.14	*+ cn	0.051	0.020	ug/L		12/27/21 03:09	12/28/21 00:23	1
Naphthalene	2.9	cn	0.071	0.031	ug/L		12/27/21 03:09	12/28/21 00:23	1
Phenanthrene	0.73	cn	0.071	0.031	ug/L		12/27/21 03:09	12/28/21 00:23	1
Pyrene	4.1	cn	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*96*	*cn*	*10 - 110*	*12/27/21 03:09*	*12/28/21 00:23*	*1*
1-Methylnaphthalene-d10 (Surr)	*93*	*cn*	*36 - 111*	*12/27/21 03:09*	*12/28/21 00:23*	*1*
Fluoranthene-d10 (Surr)	*91*	*cn*	*47 - 128*	*12/27/21 03:09*	*12/28/21 00:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	41	cn	0.51	0.10	ug/L		12/27/21 03:09	12/28/21 13:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*60*	*cn*	*10 - 110*	*12/27/21 03:09*	*12/28/21 13:02*	*10*
1-Methylnaphthalene-d10 (Surr)	*97*	*cn*	*36 - 111*	*12/27/21 03:09*	*12/28/21 13:02*	*10*
Fluoranthene-d10 (Surr)	*86*	*cn*	*47 - 128*	*12/27/21 03:09*	*12/28/21 13:02*	*10*

Client Sample ID: MW-11D-20211221

Date Collected: 12/21/21 17:01
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-14
Matrix: Ground Water

Method: 8260C - 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			12/30/21 23:27	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 23:27	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 23:27	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 23:27	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*12/30/21 23:27*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*12/30/21 23:27*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 23:27*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/30/21 23:27*	*1*

Method: 8270D 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		12/27/21 03:09	12/28/21 00:51	1
Acenaphthylene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Anthracene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1

Client Sample ID: MW-11D-20211221

Date Collected: 12/21/21 17:01
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-14

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Benzo[b]fluoranthene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Benzo[g,h,i]perylene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Benzo[k]fluoranthene	ND	*+	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Chrysene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Dibenz(a,h)anthracene	ND	*+	0.051	0.020	ug/L		12/27/21 03:09	12/28/21 00:51	1
Fluoranthene	**0.017**	**J**	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Fluorene	ND		0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1
Indeno[1,2,3-cd]pyrene	ND	*+	0.051	0.020	ug/L		12/27/21 03:09	12/28/21 00:51	1
Naphthalene	ND		0.071	0.030	ug/L		12/27/21 03:09	12/28/21 00:51	1
Phenanthrene	ND		0.071	0.030	ug/L		12/27/21 03:09	12/28/21 00:51	1
Pyrene	**0.016**	**J**	0.051	0.010	ug/L		12/27/21 03:09	12/28/21 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*70*		*10 - 110*	*12/27/21 03:09*	*12/28/21 00:51*	*1*
1-Methylnaphthalene-d10 (Surr)	*78*		*36 - 111*	*12/27/21 03:09*	*12/28/21 00:51*	*1*
Fluoranthene-d10 (Surr)	*78*		*47 - 128*	*12/27/21 03:09*	*12/28/21 00:51*	*1*

Client Sample ID: MW-4S-20211222

Date Collected: 12/22/21 09:31
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-15

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.30**	**J**	1.0	0.30	ug/L			12/30/21 23:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 23:47	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 23:47	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 23:47	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/30/21 23:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/30/21 23:47*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/30/21 23:47*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/30/21 23:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.76**		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Anthracene	**0.32**		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Benzo[a]anthracene	ND		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Benzo[a]pyrene	ND		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Benzo[b]fluoranthene	ND		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Benzo[g,h,i]perylene	ND		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Benzo[k]fluoranthene	ND		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Chrysene	ND		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Dibenz(a,h)anthracene	ND		0.051	0.020	ug/L		12/27/21 10:30	12/30/21 14:33	1
Fluoranthene	**5.1**		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Fluorene	**7.5**		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1
Indeno[1,2,3-cd]pyrene	ND		0.051	0.020	ug/L		12/27/21 10:30	12/30/21 14:33	1
Naphthalene	**0.073**		0.071	0.031	ug/L		12/27/21 10:30	12/30/21 14:33	1

Client Sample ID: MW-4S-20211222

Date Collected: 12/22/21 09:31
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-15

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	**0.21**		0.071	0.031	ug/L		12/27/21 10:30	12/30/21 14:33	1
Pyrene	**4.8**		0.051	0.010	ug/L		12/27/21 10:30	12/30/21 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*71*		*10 - 110*	*12/27/21 10:30*	*12/30/21 14:33*	*1*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*	*12/27/21 10:30*	*12/30/21 14:33*	*1*
Fluoranthene-d10 (Surr)	*79*		*47 - 128*	*12/27/21 10:30*	*12/30/21 14:33*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**21**		0.25	0.051	ug/L		12/27/21 10:30	01/03/22 06:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*61*		*10 - 110*	*12/27/21 10:30*	*01/03/22 06:52*	*5*
1-Methylnaphthalene-d10 (Surr)	*95*		*36 - 111*	*12/27/21 10:30*	*01/03/22 06:52*	*5*
Fluoranthene-d10 (Surr)	*102*		*47 - 128*	*12/27/21 10:30*	*01/03/22 06:52*	*5*

Client Sample ID: MW-4D-20211222

Date Collected: 12/22/21 10:08
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-16

Matrix: Ground Water

Method: 8260C - 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			12/31/21 00:08	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/31/21 00:08	1
Toluene	ND		1.0	0.20	ug/L			12/31/21 00:08	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/31/21 00:08	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/31/21 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*12/31/21 00:08*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*12/31/21 00:08*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*12/31/21 00:08*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/31/21 00:08*	*1*

Method: 8270D 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		12/27/21 10:30	12/30/21 15:01	1
Acenaphthylene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Anthracene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Chrysene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		12/27/21 10:30	12/30/21 15:01	1
Fluoranthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Fluorene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		12/27/21 10:30	12/30/21 15:01	1
Naphthalene	ND		0.070	0.030	ug/L		12/27/21 10:30	12/30/21 15:01	1

Client Sample ID: MW-4D-20211222

Date Collected: 12/22/21 10:08
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-16

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.070	0.030	ug/L		12/27/21 10:30	12/30/21 15:01	1
Pyrene	**0.011**	**J**	0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*64*		*10 - 110*	*12/27/21 10:30*	*12/30/21 15:01*	*1*
1-Methylnaphthalene-d10 (Surr)	*85*		*36 - 111*	*12/27/21 10:30*	*12/30/21 15:01*	*1*
Fluoranthene-d10 (Surr)	*89*		*47 - 128*	*12/27/21 10:30*	*12/30/21 15:01*	*1*

Client Sample ID: MW-3-20211222

Date Collected: 12/22/21 10:51
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-17

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.64**	**J**	1.0	0.30	ug/L			12/31/21 00:28	1
Ethylbenzene	**4.1**		1.0	0.40	ug/L			12/31/21 00:28	1
Toluene	**0.76**	**J**	1.0	0.20	ug/L			12/31/21 00:28	1
Xylenes, Total	**6.3**		1.0	0.40	ug/L			12/31/21 00:28	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/31/21 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/31/21 00:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/31/21 00:28*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*12/31/21 00:28*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/31/21 00:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**4.9**		0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Anthracene	**1.7**		0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Benzo[a]anthracene	**0.73**		0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Benzo[a]pyrene	**0.013**	**J**	0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Benzo[b]fluoranthene	**0.020**	**J**	0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Benzo[g,h,i]perylene	ND		0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Benzo[k]fluoranthene	ND		0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Chrysene	**0.41**		0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1
Dibenz(a,h)anthracene	ND		0.053	0.021	ug/L		12/27/21 10:30	12/30/21 15:28	1
Indeno[1,2,3-cd]pyrene	ND		0.053	0.021	ug/L		12/27/21 10:30	12/30/21 15:28	1
Phenanthrene	**10**		0.074	0.032	ug/L		12/27/21 10:30	12/30/21 15:28	1
Pyrene	**9.9**		0.053	0.011	ug/L		12/27/21 10:30	12/30/21 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 110*	*12/27/21 10:30*	*12/30/21 15:28*	*1*
1-Methylnaphthalene-d10 (Surr)	*75*		*36 - 111*	*12/27/21 10:30*	*12/30/21 15:28*	*1*
Fluoranthene-d10 (Surr)	*87*		*47 - 128*	*12/27/21 10:30*	*12/30/21 15:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**44**		0.53	0.11	ug/L		12/27/21 10:30	01/03/22 07:20	10
Fluoranthene	**15**		0.53	0.11	ug/L		12/27/21 10:30	01/03/22 07:20	10
Fluorene	**11**		0.53	0.11	ug/L		12/27/21 10:30	01/03/22 07:20	10

Client Sample ID: MW-3-20211222

Lab Sample ID: 410-68043-17

Date Collected: 12/22/21 10:51

Matrix: Ground Water

Date Received: 12/22/21 20:49

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**99**		0.74	0.32	ug/L		12/27/21 10:30	01/03/22 07:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*65*		*10 - 110*	*12/27/21 10:30*	*01/03/22 07:20*	*10*
1-Methylnaphthalene-d10 (Surr)	*81*		*36 - 111*	*12/27/21 10:30*	*01/03/22 07:20*	*10*
Fluoranthene-d10 (Surr)	*102*		*47 - 128*	*12/27/21 10:30*	*01/03/22 07:20*	*10*

Client Sample ID: MW-13S-20211222

Lab Sample ID: 410-68043-18

Date Collected: 12/22/21 11:32

Matrix: Ground Water

Date Received: 12/22/21 20:49

Method: 8260C - 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			12/31/21 00:48	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/31/21 00:48	1
Toluene	ND		1.0	0.20	ug/L			12/31/21 00:48	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/31/21 00:48	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/31/21 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*80 - 120*		*12/31/21 00:48*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/31/21 00:48*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/31/21 00:48*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/31/21 00:48*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**9.0**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Acenaphthylene	**0.57**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Anthracene	**4.1**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Benzo[a]anthracene	**0.49**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Benzo[a]pyrene	**0.013**	**J**	0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Benzo[b]fluoranthene	**0.020**	**J**	0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Chrysene	**0.30**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		12/27/21 10:30	12/30/21 15:56	1
Fluoranthene	**3.7**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Fluorene	**3.9**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		12/27/21 10:30	12/30/21 15:56	1
Naphthalene	**2.4**		0.070	0.030	ug/L		12/27/21 10:30	12/30/21 15:56	1
Phenanthrene	**8.8**		0.070	0.030	ug/L		12/27/21 10:30	12/30/21 15:56	1
Pyrene	**3.5**		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*84*		*10 - 110*	*12/27/21 10:30*	*12/30/21 15:56*	*1*
1-Methylnaphthalene-d10 (Surr)	*85*		*36 - 111*	*12/27/21 10:30*	*12/30/21 15:56*	*1*
Fluoranthene-d10 (Surr)	*90*		*47 - 128*	*12/27/21 10:30*	*12/30/21 15:56*	*1*

Client Sample ID: MW-13D-20211222

Lab Sample ID: 410-68043-19

Date Collected: 12/22/21 12:10

Matrix: Ground Water

Date Received: 12/22/21 20:49

Method: 8260C - 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			12/31/21 01:08	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/31/21 01:08	1
Toluene	ND		1.0	0.20	ug/L			12/31/21 01:08	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/31/21 01:08	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/31/21 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*12/31/21 01:08*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/31/21 01:08*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/31/21 01:08*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/31/21 01:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Acenaphthylene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Anthracene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Benzo[a]anthracene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Benzo[a]pyrene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Benzo[b]fluoranthene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Chrysene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		12/27/21 10:30	12/30/21 16:24	1
Fluoranthene	**0.023**	**J**	0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Fluorene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		12/27/21 10:30	12/30/21 16:24	1
Naphthalene	ND		0.073	0.031	ug/L		12/27/21 10:30	12/30/21 16:24	1
Phenanthrene	ND		0.073	0.031	ug/L		12/27/21 10:30	12/30/21 16:24	1
Pyrene	**0.023**	**J**	0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*72*		*10 - 110*	*12/27/21 10:30*	*12/30/21 16:24*	*1*
1-Methylnaphthalene-d10 (Surr)	*84*		*36 - 111*	*12/27/21 10:30*	*12/30/21 16:24*	*1*
Fluoranthene-d10 (Surr)	*92*		*47 - 128*	*12/27/21 10:30*	*12/30/21 16:24*	*1*

Client Sample ID: Dup-20211222

Lab Sample ID: 410-68043-20

Date Collected: 12/22/21 00:00

Matrix: Ground Water

Date Received: 12/22/21 20:49

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.58**	**J**	1.0	0.30	ug/L			12/31/21 01:29	1
Ethylbenzene	**3.9**		1.0	0.40	ug/L			12/31/21 01:29	1
Toluene	**0.69**	**J**	1.0	0.20	ug/L			12/31/21 01:29	1
Xylenes, Total	**5.7**		1.0	0.40	ug/L			12/31/21 01:29	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/31/21 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*		*12/31/21 01:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*12/31/21 01:29*	*1*

Client Sample ID: Dup-20211222

Date Collected: 12/22/21 00:00
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-20

Matrix: Ground Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/31/21 01:29*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/31/21 01:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**5.4**		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Anthracene	**1.9**		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Benzo[a]anthracene	**0.82**		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Benzo[a]pyrene	**0.017**	**J**	0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Benzo[b]fluoranthene	**0.020**	**J**	0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Benzo[g,h,i]perylene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Benzo[k]fluoranthene	ND		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Chrysene	**0.40**		0.052	0.010	ug/L		12/27/21 10:30	12/30/21 16:52	1
Dibenz(a,h)anthracene	ND		0.052	0.021	ug/L		12/27/21 10:30	12/30/21 16:52	1
Indeno[1,2,3-cd]pyrene	ND		0.052	0.021	ug/L		12/27/21 10:30	12/30/21 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*86*		*10 - 110*	*12/27/21 10:30*	*12/30/21 16:52*	*1*
1-Methylnaphthalene-d10 (Surr)	*81*		*36 - 111*	*12/27/21 10:30*	*12/30/21 16:52*	*1*
Fluoranthene-d10 (Surr)	*101*		*47 - 128*	*12/27/21 10:30*	*12/30/21 16:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**51**		1.0	0.21	ug/L		12/27/21 10:30	01/03/22 07:48	20
Fluoranthene	**18**		1.0	0.21	ug/L		12/27/21 10:30	01/03/22 07:48	20
Fluorene	**18**		1.0	0.21	ug/L		12/27/21 10:30	01/03/22 07:48	20
Naphthalene	**110**		1.4	0.62	ug/L		12/27/21 10:30	01/03/22 07:48	20
Phenanthrene	**13**		1.4	0.62	ug/L		12/27/21 10:30	01/03/22 07:48	20
Pyrene	**15**		1.0	0.21	ug/L		12/27/21 10:30	01/03/22 07:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*41*		*10 - 110*	*12/27/21 10:30*	*01/03/22 07:48*	*20*
1-Methylnaphthalene-d10 (Surr)	*95*		*36 - 111*	*12/27/21 10:30*	*01/03/22 07:48*	*20*
Fluoranthene-d10 (Surr)	*112*		*47 - 128*	*12/27/21 10:30*	*01/03/22 07:48*	*20*

Client Sample ID: TB-20211222

Date Collected: 12/22/21 00:00
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-21

Matrix: Water

Method: 8260C - 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			12/30/21 18:04	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 18:04	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 18:04	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 18:04	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*12/30/21 18:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*12/30/21 18:04*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 18:04*	*1*

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

Job ID: 410-68043-1

Client Sample ID: TB-20211222
Date Collected: 12/22/21 00:00
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-21
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		12/30/21 18:04	1

Surrogate Summary

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

Job ID: 410-68043-1

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

Matrix: Ground 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)
410-68043-1	MW-1-20211220	92	97	97	101
410-68043-2	MW-10S-20211220	92	96	98	100
410-68043-3	MW-10D-20211220	93	95	99	99
410-68043-4	MW-8S-20211220	93	95	98	100
410-68043-5	MW-8D-20211220	92	96	97	101
410-68043-6	MW-7S-20211221	92	96	97	101
410-68043-6 MS	MW-7S-20211221	92	97	100	101
410-68043-6 MSD	MW-7S-20211221	92	98	99	102
410-68043-7	MW-7D-20211221	92	98	98	100
410-68043-8	MW-14S-20211221	92	96	98	101
410-68043-9	MW-14D-20211221	91	97	98	101
410-68043-11	MW-12S-20211221	92	96	98	100
410-68043-12	MW-12D-20211221	92	97	99	101
410-68043-13	MW-11S-20211221	92	97	99	99
410-68043-14	MW-11D-20211221	91	95	98	99
410-68043-15	MW-4S-20211222	92	97	99	100
410-68043-16	MW-4D-20211222	91	95	99	100
410-68043-17	MW-3-20211222	92	97	100	99
410-68043-18	MW-13S-20211222	91	96	98	99
410-68043-19	MW-13D-20211222	93	96	98	100
410-68043-20	Dup-20211222	92	98	101	101

Surrogate Legend

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

Method: 8260C - 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)
410-68043-10	EB-20211221	92	98	99	101
410-68043-21	TB-20211222	93	96	98	100
LCS 410-210699/4	Lab Control Sample	93	99	98	101
MB 410-210699/6	Method Blank	93	97	98	102

Surrogate Legend

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

Surrogate Summary

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

Job ID: 410-68043-1

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BAPd12 (10-110)	MNPd10 (36-111)	FLN10 (47-128)
410-68043-1	MW-1-20211220	86	97	91
410-68043-2	MW-10S-20211220	90 cn	97 cn	93 cn
410-68043-3	MW-10D-20211220	65	88	82
410-68043-4	MW-8S-20211220	91 cn	95 cn	98 cn
410-68043-5	MW-8D-20211220	74 cn	85 cn	89 cn
410-68043-6	MW-7S-20211221	79	92	91
410-68043-6 MS	MW-7S-20211221	77	82	77
410-68043-6 MSD	MW-7S-20211221	92	94	96
410-68043-7	MW-7D-20211221	81	87	86
410-68043-8	MW-14S-20211221	91	94	91
410-68043-9	MW-14D-20211221	54 cn	95 cn	94 cn
410-68043-11	MW-12S-20211221	61 *3 cn	96 cn	92 cn
410-68043-12	MW-12D-20211221	41	94	94
410-68043-13	MW-11S-20211221	96 cn	93 cn	91 cn
410-68043-13 - DL	MW-11S-20211221	60 cn	97 cn	86 cn
410-68043-14	MW-11D-20211221	70	78	78
410-68043-15	MW-4S-20211222	71	82	79
410-68043-15 - DL	MW-4S-20211222	61	95	102
410-68043-16	MW-4D-20211222	64	85	89
410-68043-17	MW-3-20211222	77	75	87
410-68043-17 - DL	MW-3-20211222	65	81	102
410-68043-18	MW-13S-20211222	84	85	90
410-68043-19	MW-13D-20211222	72	84	92
410-68043-20	Dup-20211222	86	81	101
410-68043-20 - DL	Dup-20211222	41	95	112

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BAPd12 (10-110)	MNPd10 (36-111)	FLN10 (47-128)
410-68043-10	EB-20211221	67	70	74
LCS 410-209023/2-A	Lab Control Sample	91	94	94
LCS 410-209125/2-A	Lab Control Sample	96	90	96
MB 410-209023/1-A	Method Blank	96	92	93
MB 410-209125/1-A	Method Blank	81	66	81

Surrogate Legend

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

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

Lab Sample ID: MB 410-210699/6
Matrix: Water
Analysis Batch: 210699

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			12/30/21 17:24	1
Ethylbenzene	ND		1.0	0.40	ug/L			12/30/21 17:24	1
Toluene	ND		1.0	0.20	ug/L			12/30/21 17:24	1
Xylenes, Total	ND		1.0	0.40	ug/L			12/30/21 17:24	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			12/30/21 17:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*		*12/30/21 17:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*12/30/21 17:24*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*12/30/21 17:24*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/30/21 17:24*	*1*

Lab Sample ID: LCS 410-210699/4
Matrix: Water
Analysis Batch: 210699

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	17.7		ug/L		88	80 - 120		
Ethylbenzene			20.0	17.5		ug/L		88	80 - 120		
Toluene			20.0	17.3		ug/L		86	80 - 120		
Xylenes, Total			60.0	53.3		ug/L		89	80 - 120		
Methyl tertiary butyl ether			20.0	16.7		ug/L		84	69 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 410-68043-6 MS
Matrix: Ground Water
Analysis Batch: 210699

Client Sample ID: MW-7S-20211221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.31	J	20.0	21.6		ug/L		106	80 - 120		
Ethylbenzene	ND		20.0	21.0		ug/L		105	80 - 120		
Toluene	ND		20.0	21.2		ug/L		106	80 - 120		
Xylenes, Total	ND		60.0	64.1		ug/L		107	80 - 120		
Methyl tertiary butyl ether	ND		20.0	18.9		ug/L		94	69 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: 410-68043-6 MSD
Matrix: Ground Water
Analysis Batch: 210699

Client Sample ID: MW-7S-20211221
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.31	J	20.0	22.0		ug/L		108	80 - 120	2	30
Ethylbenzene	ND		20.0	21.7		ug/L		109	80 - 120	3	30
Toluene	ND		20.0	21.7		ug/L		108	80 - 120	2	30
Xylenes, Total	ND		60.0	65.8		ug/L		110	80 - 120	3	30
Methyl tertiary butyl ether	ND		20.0	19.4		ug/L		97	69 - 122	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 410-209023/1-A
Matrix: Water
Analysis Batch: 209113

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 209023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Acenaphthylene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Anthracene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Chrysene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		12/27/21 03:09	12/27/21 15:08	1
Fluoranthene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Fluorene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		12/27/21 03:09	12/27/21 15:08	1
Naphthalene	ND		0.070	0.030	ug/L		12/27/21 03:09	12/27/21 15:08	1
Phenanthrene	ND		0.070	0.030	ug/L		12/27/21 03:09	12/27/21 15:08	1
Pyrene	ND		0.050	0.010	ug/L		12/27/21 03:09	12/27/21 15:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*96*		*10 - 110*	*12/27/21 03:09*	*12/27/21 15:08*	*1*
1-Methylnaphthalene-d10 (Surr)	*92*		*36 - 111*	*12/27/21 03:09*	*12/27/21 15:08*	*1*
Fluoranthene-d10 (Surr)	*93*		*47 - 128*	*12/27/21 03:09*	*12/27/21 15:08*	*1*

Lab Sample ID: LCS 410-209023/2-A
Matrix: Water
Analysis Batch: 209113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 209023

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1.00	0.907		ug/L		91	42 - 120		
Acenaphthylene			1.00	0.884		ug/L		88	49 - 120		

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

Lab Sample ID: LCS 410-209023/2-A
Matrix: Water
Analysis Batch: 209113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 209023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1.00	0.934		ug/L		93	54 - 121
Benzo[a]anthracene	1.00	1.06		ug/L		106	61 - 122
Benzo[a]pyrene	1.00	1.14		ug/L		114	60 - 120
Benzo[b]fluoranthene	1.00	1.51	*+	ug/L		151	58 - 122
Benzo[g,h,i]perylene	1.00	1.26	*+	ug/L		126	50 - 120
Benzo[k]fluoranthene	1.00	1.37	*+	ug/L		137	57 - 128
Chrysene	1.00	1.06		ug/L		106	55 - 123
Dibenz(a,h)anthracene	1.00	1.37	*+	ug/L		137	50 - 121
Fluoranthene	1.00	1.03		ug/L		103	61 - 123
Fluorene	1.00	1.00		ug/L		100	55 - 120
Indeno[1,2,3-cd]pyrene	1.00	1.45	*+	ug/L		145	47 - 143
Naphthalene	1.00	0.917		ug/L		92	20 - 120
Phenanthrene	1.00	0.986		ug/L		99	59 - 120
Pyrene	1.00	0.913		ug/L		91	46 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*91*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*94*		*36 - 111*
Fluoranthene-d10 (Surr)	*94*		*47 - 128*

Lab Sample ID: 410-68043-6 MS
Matrix: Ground Water
Analysis Batch: 209113

Client Sample ID: MW-7S-20211221
Prep Type: Total/NA
Prep Batch: 209023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.087		1.04	0.920		ug/L		80	42 - 120
Acenaphthylene	0.015	J	1.04	0.879		ug/L		83	49 - 120
Anthracene	0.021	J	1.04	0.862		ug/L		81	54 - 121
Benzo[a]anthracene	ND		1.04	0.974		ug/L		94	61 - 122
Benzo[a]pyrene	ND		1.04	0.818		ug/L		79	60 - 120
Benzo[b]fluoranthene	ND	*+	1.04	0.939		ug/L		91	58 - 122
Benzo[g,h,i]perylene	ND	*+	1.04	0.645		ug/L		62	50 - 120
Benzo[k]fluoranthene	ND	*+	1.04	0.800		ug/L		77	57 - 128
Chrysene	ND		1.04	0.893		ug/L		86	55 - 123
Dibenz(a,h)anthracene	ND	*+	1.04	0.782		ug/L		75	50 - 121
Fluoranthene	ND		1.04	0.857		ug/L		83	61 - 123
Fluorene	0.017	J	1.04	0.919		ug/L		87	55 - 120
Indeno[1,2,3-cd]pyrene	ND	*+	1.04	0.796		ug/L		77	47 - 143
Naphthalene	ND		1.04	0.798		ug/L		77	20 - 120
Phenanthrene	ND		1.04	0.879		ug/L		85	59 - 120
Pyrene	ND		1.04	0.806		ug/L		78	46 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*82*		*36 - 111*
Fluoranthene-d10 (Surr)	*77*		*47 - 128*

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

Lab Sample ID: 410-68043-6 MSD
Matrix: Ground Water
Analysis Batch: 209113

Client Sample ID: MW-7S-20211221
Prep Type: Total/NA
Prep Batch: 209023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.087		1.01	1.07		ug/L		97	42 - 120	15	30
Acenaphthylene	0.015	J	1.01	1.02		ug/L		99	49 - 120	14	30
Anthracene	0.021	J	1.01	1.08		ug/L		104	54 - 121	22	30
Benzo[a]anthracene	ND		1.01	1.13		ug/L		112	61 - 122	15	30
Benzo[a]pyrene	ND		1.01	0.914		ug/L		91	60 - 120	11	30
Benzo[b]fluoranthene	ND	*+	1.01	1.04		ug/L		103	58 - 122	10	30
Benzo[g,h,i]perylene	ND	*+	1.01	0.637		ug/L		63	50 - 120	1	30
Benzo[k]fluoranthene	ND	*+	1.01	0.900		ug/L		89	57 - 128	12	30
Chrysene	ND		1.01	1.02		ug/L		101	55 - 123	14	30
Dibenz(a,h)anthracene	ND	*+	1.01	0.754		ug/L		75	50 - 121	4	30
Fluoranthene	ND		1.01	1.04		ug/L		104	61 - 123	20	30
Fluorene	0.017	J	1.01	1.06		ug/L		103	55 - 120	14	30
Indeno[1,2,3-cd]pyrene	ND	*+	1.01	0.756		ug/L		75	47 - 143	5	30
Naphthalene	ND		1.01	0.945		ug/L		94	20 - 120	17	30
Phenanthrene	ND		1.01	1.08		ug/L		107	59 - 120	20	30
Pyrene	ND		1.01	0.908		ug/L		90	46 - 122	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*92*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*94*		*36 - 111*
Fluoranthene-d10 (Surr)	*96*		*47 - 128*

Lab Sample ID: MB 410-209125/1-A
Matrix: Water
Analysis Batch: 210397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 209125

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Acenaphthylene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Anthracene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Chrysene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		12/27/21 10:30	12/30/21 06:40	1
Fluoranthene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Fluorene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		12/27/21 10:30	12/30/21 06:40	1
Naphthalene	ND		0.070	0.030	ug/L		12/27/21 10:30	12/30/21 06:40	1
Phenanthrene	ND		0.070	0.030	ug/L		12/27/21 10:30	12/30/21 06:40	1
Pyrene	ND		0.050	0.010	ug/L		12/27/21 10:30	12/30/21 06:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*81*		*10 - 110*	*12/27/21 10:30*	*12/30/21 06:40*	*1*
1-Methylnaphthalene-d10 (Surr)	*66*		*36 - 111*	*12/27/21 10:30*	*12/30/21 06:40*	*1*
Fluoranthene-d10 (Surr)	*81*		*47 - 128*	*12/27/21 10:30*	*12/30/21 06:40*	*1*

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

Lab Sample ID: LCS 410-209125/2-A
Matrix: Water
Analysis Batch: 210397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 209125

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1.00	0.992		ug/L		99	42 - 120		
Acenaphthylene			1.00	1.07		ug/L		107	49 - 120		
Anthracene			1.00	1.03		ug/L		103	54 - 121		
Benzo[a]anthracene			1.00	1.20		ug/L		120	61 - 122		
Benzo[a]pyrene			1.00	1.02		ug/L		102	60 - 120		
Benzo[b]fluoranthene			1.00	1.21		ug/L		121	58 - 122		
Benzo[g,h,i]perylene			1.00	0.940		ug/L		94	50 - 120		
Benzo[k]fluoranthene			1.00	0.989		ug/L		99	57 - 128		
Chrysene			1.00	1.02		ug/L		102	55 - 123		
Dibenz(a,h)anthracene			1.00	0.949		ug/L		95	50 - 121		
Fluoranthene			1.00	1.20		ug/L		120	61 - 123		
Fluorene			1.00	1.10		ug/L		110	55 - 120		
Indeno[1,2,3-cd]pyrene			1.00	1.04		ug/L		104	47 - 143		
Naphthalene			1.00	0.899		ug/L		90	20 - 120		
Phenanthrene			1.00	1.13		ug/L		113	59 - 120		
Pyrene			1.00	0.921		ug/L		92	46 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*96*		*10 - 110*
1-Methylnaphthalene-d10 (Surr)	*90*		*36 - 111*
Fluoranthene-d10 (Surr)	*96*		*47 - 128*

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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
cn	Refer to Case Narrative for further detail
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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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: 210699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-1	MW-1-20211220	Total/NA	Ground Water	8260C	
410-68043-2	MW-10S-20211220	Total/NA	Ground Water	8260C	
410-68043-3	MW-10D-20211220	Total/NA	Ground Water	8260C	
410-68043-4	MW-8S-20211220	Total/NA	Ground Water	8260C	
410-68043-5	MW-8D-20211220	Total/NA	Ground Water	8260C	
410-68043-6	MW-7S-20211221	Total/NA	Ground Water	8260C	
410-68043-7	MW-7D-20211221	Total/NA	Ground Water	8260C	
410-68043-8	MW-14S-20211221	Total/NA	Ground Water	8260C	
410-68043-9	MW-14D-20211221	Total/NA	Ground Water	8260C	
410-68043-10	EB-20211221	Total/NA	Water	8260C	
410-68043-11	MW-12S-20211221	Total/NA	Ground Water	8260C	
410-68043-12	MW-12D-20211221	Total/NA	Ground Water	8260C	
410-68043-13	MW-11S-20211221	Total/NA	Ground Water	8260C	
410-68043-14	MW-11D-20211221	Total/NA	Ground Water	8260C	
410-68043-15	MW-4S-20211222	Total/NA	Ground Water	8260C	
410-68043-16	MW-4D-20211222	Total/NA	Ground Water	8260C	
410-68043-17	MW-3-20211222	Total/NA	Ground Water	8260C	
410-68043-18	MW-13S-20211222	Total/NA	Ground Water	8260C	
410-68043-19	MW-13D-20211222	Total/NA	Ground Water	8260C	
410-68043-20	Dup-20211222	Total/NA	Ground Water	8260C	
410-68043-21	TB-20211222	Total/NA	Water	8260C	
MB 410-210699/6	Method Blank	Total/NA	Water	8260C	
LCS 410-210699/4	Lab Control Sample	Total/NA	Water	8260C	
410-68043-6 MS	MW-7S-20211221	Total/NA	Ground Water	8260C	
410-68043-6 MSD	MW-7S-20211221	Total/NA	Ground Water	8260C	

GC/MS Semi VOA

Prep Batch: 209023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-1	MW-1-20211220	Total/NA	Ground Water	3510C	
410-68043-2	MW-10S-20211220	Total/NA	Ground Water	3510C	
410-68043-3	MW-10D-20211220	Total/NA	Ground Water	3510C	
410-68043-4	MW-8S-20211220	Total/NA	Ground Water	3510C	
410-68043-5	MW-8D-20211220	Total/NA	Ground Water	3510C	
410-68043-6	MW-7S-20211221	Total/NA	Ground Water	3510C	
410-68043-7	MW-7D-20211221	Total/NA	Ground Water	3510C	
410-68043-8	MW-14S-20211221	Total/NA	Ground Water	3510C	
410-68043-9	MW-14D-20211221	Total/NA	Ground Water	3510C	
410-68043-10	EB-20211221	Total/NA	Water	3510C	
410-68043-11	MW-12S-20211221	Total/NA	Ground Water	3510C	
410-68043-11 - RA	MW-12S-20211221	Total/NA	Ground Water	3510C	
410-68043-12	MW-12D-20211221	Total/NA	Ground Water	3510C	
410-68043-13 - DL	MW-11S-20211221	Total/NA	Ground Water	3510C	
410-68043-13	MW-11S-20211221	Total/NA	Ground Water	3510C	
410-68043-14	MW-11D-20211221	Total/NA	Ground Water	3510C	
MB 410-209023/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-209023/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-68043-6 MS	MW-7S-20211221	Total/NA	Ground Water	3510C	
410-68043-6 MSD	MW-7S-20211221	Total/NA	Ground Water	3510C	

GC/MS Semi VOA

Analysis Batch: 209113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-1	MW-1-20211220	Total/NA	Ground Water	8270D SIM	209023
410-68043-2	MW-10S-20211220	Total/NA	Ground Water	8270D SIM	209023
410-68043-3	MW-10D-20211220	Total/NA	Ground Water	8270D SIM	209023
410-68043-4	MW-8S-20211220	Total/NA	Ground Water	8270D SIM	209023
410-68043-5	MW-8D-20211220	Total/NA	Ground Water	8270D SIM	209023
410-68043-6	MW-7S-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-7	MW-7D-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-8	MW-14S-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-9	MW-14D-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-10	EB-20211221	Total/NA	Water	8270D SIM	209023
410-68043-11	MW-12S-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-12	MW-12D-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-13	MW-11S-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-14	MW-11D-20211221	Total/NA	Ground Water	8270D SIM	209023
MB 410-209023/1-A	Method Blank	Total/NA	Water	8270D SIM	209023
LCS 410-209023/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	209023
410-68043-6 MS	MW-7S-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-6 MSD	MW-7S-20211221	Total/NA	Ground Water	8270D SIM	209023

Prep Batch: 209125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-15	MW-4S-20211222	Total/NA	Ground Water	3510C	
410-68043-15 - DL	MW-4S-20211222	Total/NA	Ground Water	3510C	
410-68043-16	MW-4D-20211222	Total/NA	Ground Water	3510C	
410-68043-17	MW-3-20211222	Total/NA	Ground Water	3510C	
410-68043-17 - DL	MW-3-20211222	Total/NA	Ground Water	3510C	
410-68043-18	MW-13S-20211222	Total/NA	Ground Water	3510C	
410-68043-19	MW-13D-20211222	Total/NA	Ground Water	3510C	
410-68043-20 - DL	Dup-20211222	Total/NA	Ground Water	3510C	
410-68043-20	Dup-20211222	Total/NA	Ground Water	3510C	
MB 410-209125/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-209125/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 209501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-11 - RA	MW-12S-20211221	Total/NA	Ground Water	8270D SIM	209023
410-68043-13 - DL	MW-11S-20211221	Total/NA	Ground Water	8270D SIM	209023

Analysis Batch: 210397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-15	MW-4S-20211222	Total/NA	Ground Water	8270D SIM	209125
410-68043-16	MW-4D-20211222	Total/NA	Ground Water	8270D SIM	209125
410-68043-17	MW-3-20211222	Total/NA	Ground Water	8270D SIM	209125
410-68043-18	MW-13S-20211222	Total/NA	Ground Water	8270D SIM	209125
410-68043-19	MW-13D-20211222	Total/NA	Ground Water	8270D SIM	209125
410-68043-20	Dup-20211222	Total/NA	Ground Water	8270D SIM	209125
MB 410-209125/1-A	Method Blank	Total/NA	Water	8270D SIM	209125
LCS 410-209125/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	209125

GC/MS Semi VOA

Prep Batch: 210459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-2 - RE	MW-10S-20211220	Total/NA	Ground Water	3510C	
410-68043-4 - RE	MW-8S-20211220	Total/NA	Ground Water	3510C	
410-68043-5 - RE	MW-8D-20211220	Total/NA	Ground Water	3510C	
410-68043-9 - RE	MW-14D-20211221	Total/NA	Ground Water	3510C	
410-68043-13 - RE	MW-11S-20211221	Total/NA	Ground Water	3510C	
MB 410-210459/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-210459/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 210855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-2 - RE	MW-10S-20211220	Total/NA	Ground Water	8270D SIM	210459
410-68043-4 - RE	MW-8S-20211220	Total/NA	Ground Water	8270D SIM	210459
410-68043-5 - RE	MW-8D-20211220	Total/NA	Ground Water	8270D SIM	210459
410-68043-9 - RE	MW-14D-20211221	Total/NA	Ground Water	8270D SIM	210459
410-68043-13 - RE	MW-11S-20211221	Total/NA	Ground Water	8270D SIM	210459
MB 410-210459/1-A	Method Blank	Total/NA	Water	8270D SIM	210459
LCS 410-210459/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	210459

Analysis Batch: 210939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-68043-15 - DL	MW-4S-20211222	Total/NA	Ground Water	8270D SIM	209125
410-68043-17 - DL	MW-3-20211222	Total/NA	Ground Water	8270D SIM	209125
410-68043-20 - DL	Dup-20211222	Total/NA	Ground Water	8270D SIM	209125

Client Sample ID: MW-1-20211220
Lab Sample ID: 410-68043-1
Date Collected: 12/20/21 13:18
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 18:24	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 17:54	UJM0	ELLE

Client Sample ID: MW-10S-20211220
Lab Sample ID: 410-68043-2
Date Collected: 12/20/21 14:47
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 18:45	USEJ	ELLE
Total/NA	Prep	3510C	RE		210459	12/30/21 09:26	XPN5	ELLE
Total/NA	Analysis	8270D SIM	RE	1	210855	12/31/21 15:43	X3ZL	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 18:22	UJM0	ELLE

Client Sample ID: MW-10D-20211220
Lab Sample ID: 410-68043-3
Date Collected: 12/20/21 15:24
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 19:05	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 18:50	UJM0	ELLE

Client Sample ID: MW-8S-20211220
Lab Sample ID: 410-68043-4
Date Collected: 12/20/21 16:18
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 19:25	USEJ	ELLE
Total/NA	Prep	3510C	RE		210459	12/30/21 09:26	XPN5	ELLE
Total/NA	Analysis	8270D SIM	RE	1	210855	12/31/21 16:13	X3ZL	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 19:18	UJM0	ELLE

Client Sample ID: MW-8D-20211220
Lab Sample ID: 410-68043-5
Date Collected: 12/20/21 16:57
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 19:45	USEJ	ELLE
Total/NA	Prep	3510C	RE		210459	12/30/21 09:26	XPN5	ELLE
Total/NA	Analysis	8270D SIM	RE	1	210855	12/31/21 16:43	X3ZL	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 19:46	UJM0	ELLE

Client Sample ID: MW-7S-20211221
Lab Sample ID: 410-68043-6

Date Collected: 12/21/21 09:16
Matrix: Ground Water

Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 20:05	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 20:13	UJM0	ELLE

Client Sample ID: MW-7D-20211221
Lab Sample ID: 410-68043-7

Date Collected: 12/21/21 10:37
Matrix: Ground Water

Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 21:26	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 21:37	UJM0	ELLE

Client Sample ID: MW-14S-20211221
Lab Sample ID: 410-68043-8

Date Collected: 12/21/21 11:33
Matrix: Ground Water

Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 21:46	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 22:05	UJM0	ELLE

Client Sample ID: MW-14D-20211221
Lab Sample ID: 410-68043-9

Date Collected: 12/21/21 12:39
Matrix: Ground Water

Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 22:07	USEJ	ELLE
Total/NA	Prep	3510C	RE		210459	12/30/21 09:26	XPN5	ELLE
Total/NA	Analysis	8270D SIM	RE	1	210855	12/31/21 17:13	X3ZL	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 22:32	UJM0	ELLE

Client Sample ID: EB-20211221
Lab Sample ID: 410-68043-10

Date Collected: 12/21/21 13:40
Matrix: Water

Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 17:44	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 23:00	UJM0	ELLE

Client Sample ID: MW-12S-20211221
Date Collected: 12/21/21 14:27
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-11
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 22:27	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 23:28	UJM0	ELLE
Total/NA	Prep	3510C	RA		209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM	RA	1	209501	12/28/21 12:34	X3ZL	ELLE

Client Sample ID: MW-12D-20211221
Date Collected: 12/21/21 15:06
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-12
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 22:47	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/27/21 23:56	UJM0	ELLE

Client Sample ID: MW-11S-20211221
Date Collected: 12/21/21 16:17
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-13
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 23:07	USEJ	ELLE
Total/NA	Prep	3510C	RE		210459	12/30/21 09:26	XPN5	ELLE
Total/NA	Analysis	8270D SIM	RE	1	210855	12/31/21 17:43	X3ZL	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/28/21 00:23	UJM0	ELLE
Total/NA	Prep	3510C	DL		209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM	DL	10	209501	12/28/21 13:02	X3ZL	ELLE

Client Sample ID: MW-11D-20211221
Date Collected: 12/21/21 17:01
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-14
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 23:27	USEJ	ELLE
Total/NA	Prep	3510C			209023	12/27/21 03:09	UKQ8	ELLE
Total/NA	Analysis	8270D SIM		1	209113	12/28/21 00:51	UJM0	ELLE

Client Sample ID: MW-4S-20211222
Date Collected: 12/22/21 09:31
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-15
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 23:47	USEJ	ELLE
Total/NA	Prep	3510C			209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	210397	12/30/21 14:33	X3ZL	ELLE

Client Sample ID: MW-4S-20211222
Lab Sample ID: 410-68043-15

Date Collected: 12/22/21 09:31
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM	DL	5	210939	01/03/22 06:52	UJM0	ELLE

Client Sample ID: MW-4D-20211222
Lab Sample ID: 410-68043-16

Date Collected: 12/22/21 10:08
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/31/21 00:08	USEJ	ELLE
Total/NA	Prep	3510C			209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	210397	12/30/21 15:01	X3ZL	ELLE

Client Sample ID: MW-3-20211222
Lab Sample ID: 410-68043-17

Date Collected: 12/22/21 10:51
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/31/21 00:28	USEJ	ELLE
Total/NA	Prep	3510C			209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	210397	12/30/21 15:28	X3ZL	ELLE
Total/NA	Prep	3510C	DL		209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM	DL	10	210939	01/03/22 07:20	UJM0	ELLE

Client Sample ID: MW-13S-20211222
Lab Sample ID: 410-68043-18

Date Collected: 12/22/21 11:32
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/31/21 00:48	USEJ	ELLE
Total/NA	Prep	3510C			209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	210397	12/30/21 15:56	X3ZL	ELLE

Client Sample ID: MW-13D-20211222
Lab Sample ID: 410-68043-19

Date Collected: 12/22/21 12:10
Matrix: Ground Water
Date Received: 12/22/21 20:49

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/31/21 01:08	USEJ	ELLE
Total/NA	Prep	3510C			209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	210397	12/30/21 16:24	X3ZL	ELLE

Lab Chronicle

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

Job ID: 410-68043-1

Client Sample ID: Dup-20211222
Date Collected: 12/22/21 00:00
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-20
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/31/21 01:29	USEJ	ELLE
Total/NA	Prep	3510C			209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM		1	210397	12/30/21 16:52	X3ZL	ELLE
Total/NA	Prep	3510C	DL		209125	12/27/21 10:30	BLX5	ELLE
Total/NA	Analysis	8270D SIM	DL	20	210939	01/03/22 07:48	UJM0	ELLE

Client Sample ID: TB-20211222
Date Collected: 12/22/21 00:00
Date Received: 12/22/21 20:49

Lab Sample ID: 410-68043-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	210699	12/30/21 18:04	USEJ	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, 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: 410-68043-1

Laboratory: Eurofins Lancaster Laboratories Env, 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	1.01	11-30-22
A2LA	ISO/IEC 17025	0001.01	11-30-22
Alaska	State	PA00009	06-30-22
Alaska (UST)	State	17-027	02-28-22
Arizona	State	AZ0780	03-12-22
Arkansas DEQ	State	88-0660	08-10-22
California	State	2792	02-02-22
Colorado	State	PA00009	06-30-22
Connecticut	State	PH-0746	06-30-23
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-22
Delaware (DW)	State	N/A	02-01-22
Florida	NELAP	E87997	06-30-22
Georgia (DW)	State	C048	01-31-22
Hawaii	State	N/A	01-31-22
Illinois	NELAP	200027	01-31-23
Iowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-22
Kentucky (DW)	State	KY90088	01-01-22 *
Kentucky (UST)	State	1.01	11-30-22
Kentucky (WW)	State	KY90088	12-31-21 *
Louisiana	NELAP	02055	06-30-22
Maine	State	2019012	03-12-22
Maryland	State	100	06-30-22
Massachusetts	State	M-PA009	06-30-22
Michigan	State	9930	01-31-22
Minnesota	NELAP	042-999-487	12-31-22
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-23
Montana (UST)	State	<cert No.>	02-01-23
Nebraska	State	NE-OS-32-17	01-31-22
New Hampshire	NELAP	2730	01-10-22
New Jersey	NELAP	PA011	06-30-22
New York	NELAP	10670	04-01-22
North Carolina (DW)	State	42705	07-31-22
North Carolina (WW/SW)	State	521	12-31-22
North Dakota	State	R-205	01-31-22
Oklahoma	NELAP	R-205	08-31-22
Oregon	NELAP	PA200001	09-11-22
PALA	Canada	1978	09-16-24
Pennsylvania	NELAP	36-00037	01-31-22
Rhode Island	State	LAO00338	01-31-22
South Carolina	State	89002	01-31-22
Tennessee	State	02838	01-31-22
Texas	NELAP	T104704194-21-40	08-31-22
Vermont	State	VT - 36037	10-28-22
Virginia	NELAP	460182	06-14-22
Washington	State	C457	04-12-22
West Virginia (DW)	State	9906 C	12-31-21 *
West Virginia DEP	State	055	02-28-22
Wyoming	State	8TMS-L	01-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Laboratory: Eurofins Lancaster Laboratories Env, 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
Wyoming (UST)	A2LA	1.01	11-30-22

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 20m ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-1-20211220	410-68043-1	97	92	101	97
MW-10S-20211220	410-68043-2	98	92	100	96
MW-10D-20211220	410-68043-3	99	93	99	95
MW-8S-20211220	410-68043-4	98	93	100	95
MW-8D-20211220	410-68043-5	97	92	101	96
MW-7S-20211221	410-68043-6	97	92	101	96
MW-7D-20211221	410-68043-7	98	92	100	98
MW-14S-20211221	410-68043-8	98	92	101	96
MW-14D-20211221	410-68043-9	98	91	101	97
EB-20211221	410-68043-10	99	92	101	98
MW-12S-20211221	410-68043-11	98	92	100	96
MW-12D-20211221	410-68043-12	99	92	101	97
MW-11S-20211221	410-68043-13	99	92	99	97
MW-11D-20211221	410-68043-14	98	91	99	95
MW-4S-20211222	410-68043-15	99	92	100	97
MW-4D-20211222	410-68043-16	99	91	100	95
MW-3-20211222	410-68043-17	100	92	99	97
MW-13S-20211222	410-68043-18	98	91	99	96
MW-13D-20211222	410-68043-19	98	93	100	96
Dup-20211222	410-68043-20	101	92	101	98
TB-20211222	410-68043-21	98	93	100	96
	MB 410-210699/6	98	93	102	97
	LCS 410-210699/4	98	93	101	99
MW-7S-20211221 MS	410-68043-6 MS	100	92	101	97
MW-7S-20211221 MSD	410-68043-6 MSD	99	92	102	98

	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 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ED30X03.D

Lab ID: LCS 410-210699/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	17.7	88	80-120	
Ethylbenzene	20.0	17.5	88	80-120	
Toluene	20.0	17.3	86	80-120	
Xylenes, Total	60.0	53.3	89	80-120	
Methyl tertiary butyl ether	20.0	16.7	84	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ED30X14.D

Lab ID: 410-68043-6 MS Client ID: MW-7S-20211221 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	20.0	0.31 J	21.6	106	80-120	
Ethylbenzene	20.0	ND	21.0	105	80-120	
Toluene	20.0	ND	21.2	106	80-120	
Xylenes, Total	60.0	ND	64.1	107	80-120	
Methyl tertiary butyl ether	20.0	ND	18.9	94	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ED30X15.D

Lab ID: 410-68043-6 MSD Client ID: MW-7S-20211221 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	22.0	108	2	30	80-120	
Ethylbenzene	20.0	21.7	109	3	30	80-120	
Toluene	20.0	21.7	108	2	30	80-120	
Xylenes, Total	60.0	65.8	110	3	30	80-120	
Methyl tertiary butyl ether	20.0	19.4	97	3	30	69-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Lab File ID: ED30X05.D Lab Sample ID: MB 410-210699/6

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

Instrument ID: 15648 Date Analyzed: 12/30/2021 17:24

GC Column: DB-624 20m ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-210699/4	ED30X03.D	12/30/2021 16:43
EB-20211221	410-68043-10	ED30X06.D	12/30/2021 17:44
TB-20211222	410-68043-21	ED30X07.D	12/30/2021 18:04
MW-1-20211220	410-68043-1	ED30X08.D	12/30/2021 18:24
MW-10S-20211220	410-68043-2	ED30X09.D	12/30/2021 18:45
MW-10D-20211220	410-68043-3	ED30X10.D	12/30/2021 19:05
MW-8S-20211220	410-68043-4	ED30X11.D	12/30/2021 19:25
MW-8D-20211220	410-68043-5	ED30X12.D	12/30/2021 19:45
MW-7S-20211221	410-68043-6	ED30X13.D	12/30/2021 20:05
MW-7S-20211221 MS	410-68043-6 MS	ED30X14.D	12/30/2021 20:25
MW-7S-20211221 MSD	410-68043-6 MSD	ED30X15.D	12/30/2021 20:46
MW-7D-20211221	410-68043-7	ED30X17.D	12/30/2021 21:26
MW-14S-20211221	410-68043-8	ED30X18.D	12/30/2021 21:46
MW-14D-20211221	410-68043-9	ED30X19.D	12/30/2021 22:07
MW-12S-20211221	410-68043-11	ED30X20.D	12/30/2021 22:27
MW-12D-20211221	410-68043-12	ED30X21.D	12/30/2021 22:47
MW-11S-20211221	410-68043-13	ED30X22.D	12/30/2021 23:07
MW-11D-20211221	410-68043-14	ED30X23.D	12/30/2021 23:27
MW-4S-20211222	410-68043-15	ED30X24.D	12/30/2021 23:47
MW-4D-20211222	410-68043-16	ED30X25.D	12/31/2021 00:08
MW-3-20211222	410-68043-17	ED30X26.D	12/31/2021 00:28
MW-13S-20211222	410-68043-18	ED30X27.D	12/31/2021 00:48
MW-13D-20211222	410-68043-19	ED30X28.D	12/31/2021 01:08
Dup-20211222	410-68043-20	ED30X29.D	12/31/2021 01:29

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: EC06T01.D BFB Injection Date: 10/06/2021

Instrument ID: 15648 BFB Injection Time: 14:08

Analysis Batch No.: 179603

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.6	(0.8) 1
174	Greater than 50% of mass 95	72.4	
175	5.0 - 9.0 % of mass 174	5.5	(7.6) 1
176	95.0 - 101.0 % of mass 174	70.3	(97.0) 1
177	5.0 - 9.0 % of mass 176	4.5	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-179603/11	EC06X11.D	10/06/2021	14:54
	IC 410-179603/12	EC06X12.D	10/06/2021	15:14
	ICIS 410-179603/13	EC06X13.D	10/06/2021	15:34
	IC 410-179603/14	EC06X14.D	10/06/2021	15:54
	IC 410-179603/15	EC06X15.D	10/06/2021	16:15
	IC 410-179603/16	EC06X16.D	10/06/2021	16:35
	IC 410-179603/17	EC06X17.D	10/06/2021	16:55
	ICV 410-179603/19	EC06X19.D	10/06/2021	17:36

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: ED30T01.D BFB Injection Date: 12/30/2021

Instrument ID: 15648 BFB Injection Time: 15:38

Analysis Batch No.: 210699

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.4	
75	30.0 - 60.0 % of mass 95	44.1	
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	0.4	(0.5) 1
174	Greater than 50% of mass 95	78.8	
175	5.0 - 9.0 % of mass 174	5.7	(7.2) 1
176	95.0 - 101.0 % of mass 174	76.2	(96.7) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-210699/3	ED30X02.D	12/30/2021	16:23
	LCS 410-210699/4	ED30X03.D	12/30/2021	16:43
	MB 410-210699/6	ED30X05.D	12/30/2021	17:24
EB-20211221	410-68043-10	ED30X06.D	12/30/2021	17:44
TB-20211222	410-68043-21	ED30X07.D	12/30/2021	18:04
MW-1-20211220	410-68043-1	ED30X08.D	12/30/2021	18:24
MW-10S-20211220	410-68043-2	ED30X09.D	12/30/2021	18:45
MW-10D-20211220	410-68043-3	ED30X10.D	12/30/2021	19:05
MW-8S-20211220	410-68043-4	ED30X11.D	12/30/2021	19:25
MW-8D-20211220	410-68043-5	ED30X12.D	12/30/2021	19:45
MW-7S-20211221	410-68043-6	ED30X13.D	12/30/2021	20:05
MW-7S-20211221 MS	410-68043-6 MS	ED30X14.D	12/30/2021	20:25
MW-7S-20211221 MSD	410-68043-6 MSD	ED30X15.D	12/30/2021	20:46
MW-7D-20211221	410-68043-7	ED30X17.D	12/30/2021	21:26
MW-14S-20211221	410-68043-8	ED30X18.D	12/30/2021	21:46
MW-14D-20211221	410-68043-9	ED30X19.D	12/30/2021	22:07
MW-12S-20211221	410-68043-11	ED30X20.D	12/30/2021	22:27
MW-12D-20211221	410-68043-12	ED30X21.D	12/30/2021	22:47
MW-11S-20211221	410-68043-13	ED30X22.D	12/30/2021	23:07
MW-11D-20211221	410-68043-14	ED30X23.D	12/30/2021	23:27
MW-4S-20211222	410-68043-15	ED30X24.D	12/30/2021	23:47
MW-4D-20211222	410-68043-16	ED30X25.D	12/31/2021	0:08
MW-3-20211222	410-68043-17	ED30X26.D	12/31/2021	0:28
MW-13S-20211222	410-68043-18	ED30X27.D	12/31/2021	0:48
MW-13D-20211222	410-68043-19	ED30X28.D	12/31/2021	1:08
Dup-20211222	410-68043-20	ED30X29.D	12/31/2021	1:29

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: ICIS 410-179603/13 Date Analyzed: 10/06/2021 15:34

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm)

Lab File ID (Standard): EC06X13.D Heated Purge: (Y/N) N

Calibration ID: 31337

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		212840	2.41	1293838	4.64	955432	7.79
UPPER LIMIT		425680	2.91	2587676	5.14	1910864	8.29
LOWER LIMIT		106420	1.91	646919	4.14	477716	7.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-179603/19		195492	2.41	1260722	4.64	942022	7.79
CCVIS 410-210699/3		222618	2.40	1413134	4.63	1057507	7.78

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 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: ICIS 410-179603/13 Date Analyzed: 10/06/2021 15:34

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm)

Lab File ID (Standard): EC06X13.D Heated Purge: (Y/N) N

Calibration ID: 31337

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		503019	9.71				
UPPER LIMIT		1006038	10.21				
LOWER LIMIT		251510	9.21				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-179603/19		494469	9.71				
CCVIS 410-210699/3		559469	9.71				

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 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210699/3 Date Analyzed: 12/30/2021 16:23

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm)

Lab File ID (Standard): ED30X02.D Heated Purge: (Y/N) N

Calibration ID: 31337

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		222618	2.40	1413134	4.63	1057507	7.78
UPPER LIMIT		445236	2.90	2826268	5.13	2115014	8.28
LOWER LIMIT		111309	1.90	706567	4.13	528754	7.28
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-210699/4		254107	2.40	1487622	4.63	1105495	7.78
MB 410-210699/6		227470	2.40	1450596	4.63	1071388	7.79
410-68043-10	EB-20211221	216684	2.41	1466908	4.63	1079617	7.79
410-68043-21	TB-20211222	208966	2.41	1451265	4.64	1081465	7.79
410-68043-1	MW-1-20211220	199663	2.40	1412312	4.63	1041500	7.79
410-68043-2	MW-10S-20211220	191817	2.40	1388761	4.63	1036136	7.79
410-68043-3	MW-10D-20211220	190505	2.41	1377173	4.63	1039723	7.79
410-68043-4	MW-8S-20211220	173443	2.41	1344137	4.63	1010993	7.79
410-68043-5	MW-8D-20211220	173313	2.40	1359063	4.63	1007072	7.79
410-68043-6	MW-7S-20211221	192901	2.41	1442887	4.63	1074761	7.79
410-68043-6 MS	MW-7S-20211221 MS	193279	2.40	1388635	4.63	1033547	7.79
410-68043-6 MSD	MW-7S-20211221 MSD	188756	2.40	1406254	4.63	1036179	7.79
410-68043-7	MW-7D-20211221	180411	2.41	1361056	4.63	1009285	7.79
410-68043-8	MW-14S-20211221	183638	2.40	1385922	4.63	1028266	7.79
410-68043-9	MW-14D-20211221	179032	2.40	1395329	4.63	1033779	7.79
410-68043-11	MW-12S-20211221	179027	2.41	1370038	4.63	1017609	7.79
410-68043-12	MW-12D-20211221	181857	2.40	1336383	4.63	989368	7.79
410-68043-13	MW-11S-20211221	189127	2.41	1376388	4.63	1031900	7.79
410-68043-14	MW-11D-20211221	186326	2.40	1372236	4.63	1032424	7.79
410-68043-15	MW-4S-20211222	189889	2.40	1380671	4.63	1031854	7.79
410-68043-16	MW-4D-20211222	192019	2.41	1371176	4.63	1017854	7.79
410-68043-17	MW-3-20211222	196442	2.40	1349660	4.63	1003841	7.79
410-68043-18	MW-13S-20211222	198818	2.41	1380705	4.63	1035808	7.79
410-68043-19	MW-13D-20211222	201064	2.40	1407328	4.63	1048796	7.79
410-68043-20	Dup-20211222	209409	2.40	1415335	4.63	1050270	7.79

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 8260C

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210699/3 Date Analyzed: 12/30/2021 16:23

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm)

Lab File ID (Standard): ED30X02.D Heated Purge: (Y/N) N

Calibration ID: 31337

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		559469	9.71				
UPPER LIMIT		1118938	10.21				
LOWER LIMIT		279735	9.21				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-210699/4		593924	9.71				
MB 410-210699/6		575384	9.71				
410-68043-10	EB-20211221	573320	9.71				
410-68043-21	TB-20211222	572942	9.71				
410-68043-1	MW-1-20211220	561477	9.71				
410-68043-2	MW-10S-20211220	546467	9.71				
410-68043-3	MW-10D-20211220	546559	9.71				
410-68043-4	MW-8S-20211220	536812	9.71				
410-68043-5	MW-8D-20211220	529215	9.71				
410-68043-6	MW-7S-20211221	568105	9.71				
410-68043-6 MS	MW-7S-20211221 MS	555541	9.71				
410-68043-6 MSD	MW-7S-20211221 MSD	564840	9.71				
410-68043-7	MW-7D-20211221	535495	9.71				
410-68043-8	MW-14S-20211221	544088	9.71				
410-68043-9	MW-14D-20211221	549241	9.71				
410-68043-11	MW-12S-20211221	535639	9.71				
410-68043-12	MW-12D-20211221	517129	9.71				
410-68043-13	MW-11S-20211221	552363	9.71				
410-68043-14	MW-11D-20211221	549082	9.71				
410-68043-15	MW-4S-20211222	555408	9.71				
410-68043-16	MW-4D-20211222	543753	9.71				
410-68043-17	MW-3-20211222	550035	9.71				
410-68043-18	MW-13S-20211222	554230	9.71				
410-68043-19	MW-13D-20211222	554791	9.71				
410-68043-20	Dup-20211222	572415	9.71				

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-1-20211220 Lab Sample ID: 410-68043-1

Matrix: Ground Water Lab File ID: ED30X08.D

Analysis Method: 8260C Date Collected: 12/20/2021 13:18

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 18:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X08.D
Lims ID: 410-68043-C-1
Client ID: MW-1-20211220
Sample Type: Client
Inject. Date: 30-Dec-2021 18:24:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-009
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:27:42 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.395	2.395	0.000	17	199663	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.968	3.968	0.000	94	308943	48.4	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	75	359767	46.0	
52 Benzene	78		4.346				ND	7
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1412312	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1385903	50.3	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1041500	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	7
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	90	509016	48.5	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	561477	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

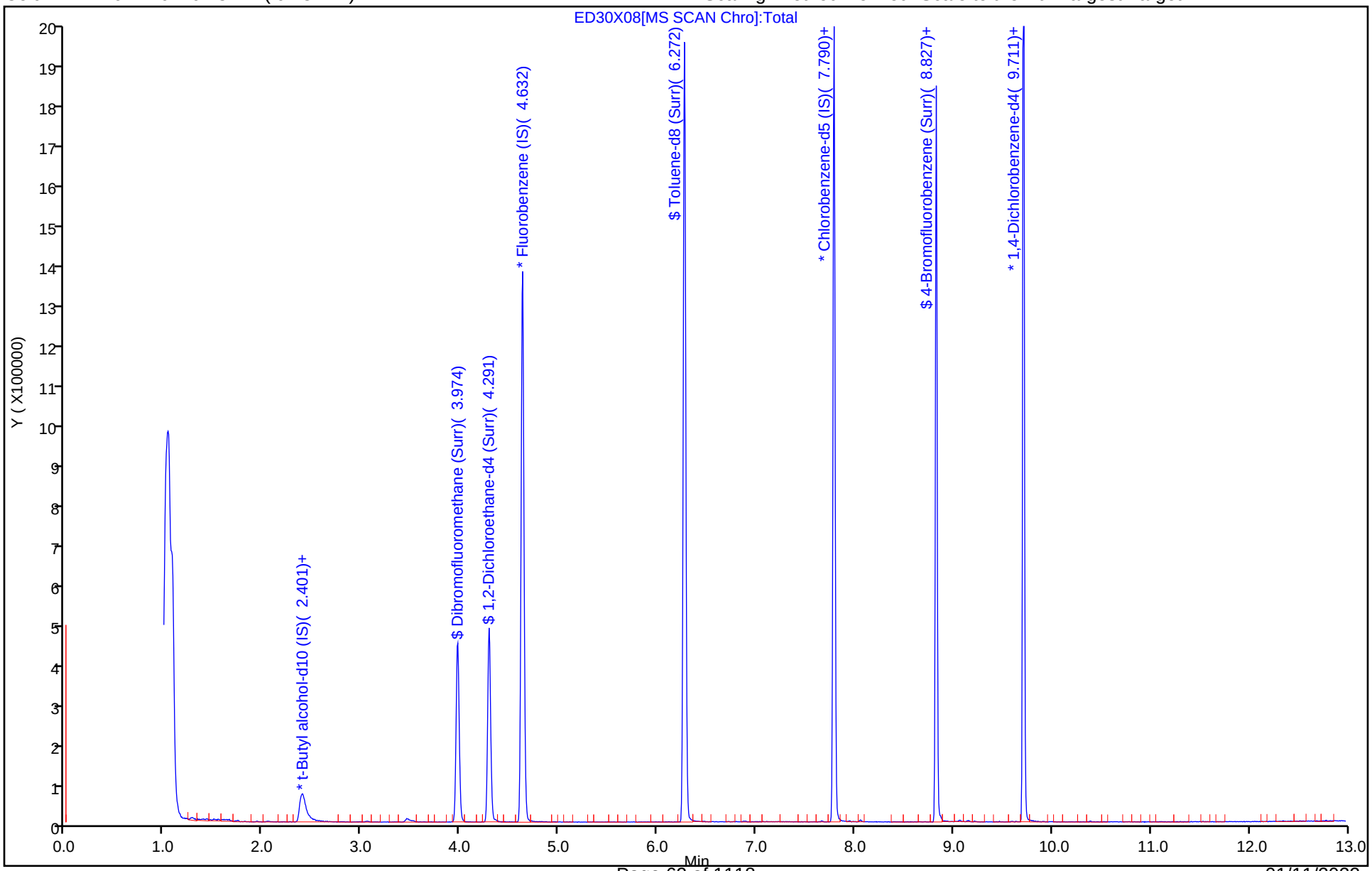
Report Date: 30-Dec-2021 19:28:30 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X08.D

Injection Date:	30-Dec-2021 18:24:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-1	Lab Sample ID:	410-68043-1	Worklist Smp#:	9
Client ID:	MW-1-20211220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-10S-20211220 Lab Sample ID: 410-68043-2

Matrix: Ground Water Lab File ID: ED30X09.D

Analysis Method: 8260C Date Collected: 12/20/2021 14:47

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 18:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X09.D
Lims ID: 410-68043-C-2
Client ID: MW-10S-20211220
Sample Type: Client
Inject. Date: 30-Dec-2021 18:45:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-010
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:27:42 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	17	191817	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.968	3.968	0.000	94	306842	48.9	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	74	354348	46.1	
52 Benzene	78		4.346				ND	7
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1388761	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1374000	50.1	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1036136	50.0	
88 Ethylbenzene	91		7.931				ND	7
89 m-Xylene & p-Xylene	106		8.040				ND	7
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	500227	47.9	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	546467	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

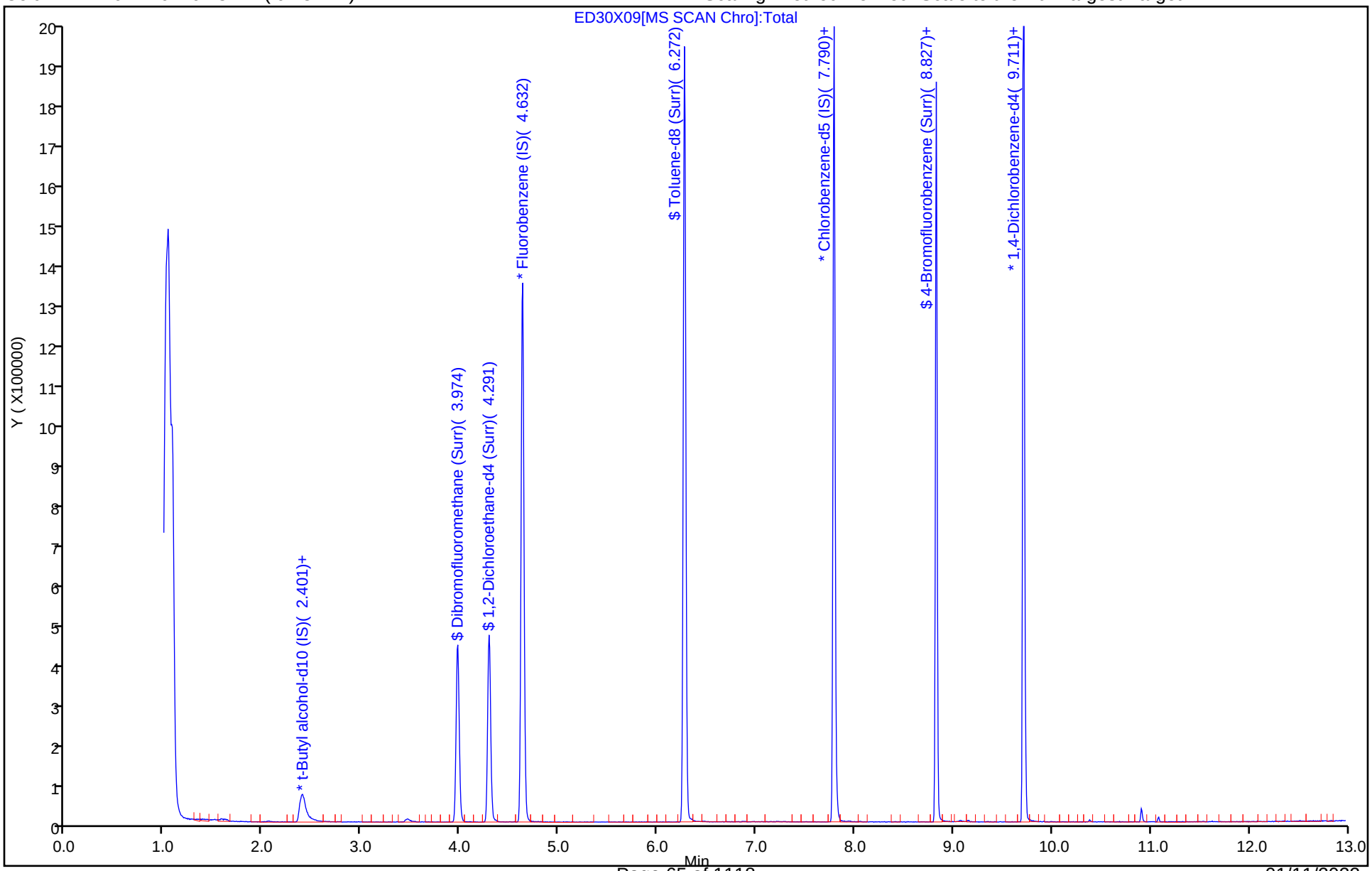
Report Date: 30-Dec-2021 19:28:31 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X09.D

Injection Date:	30-Dec-2021 18:45:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-2	Lab Sample ID:	410-68043-2	Worklist Smp#:	10
Client ID:	MW-10S-20211220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-10D-20211220 Lab Sample ID: 410-68043-3

Matrix: Ground Water Lab File ID: ED30X10.D

Analysis Method: 8260C Date Collected: 12/20/2021 15:24

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 19:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X10.D
Lims ID: 410-68043-C-3
Client ID: MW-10D-20211220
Sample Type: Client
Inject. Date: 30-Dec-2021 19:05:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-011
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:27:42 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 19:28:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	24	190505	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	308630	49.6	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	75	353837	46.4	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1377173	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1365690	49.6	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1039723	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	497512	47.5	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	546559	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

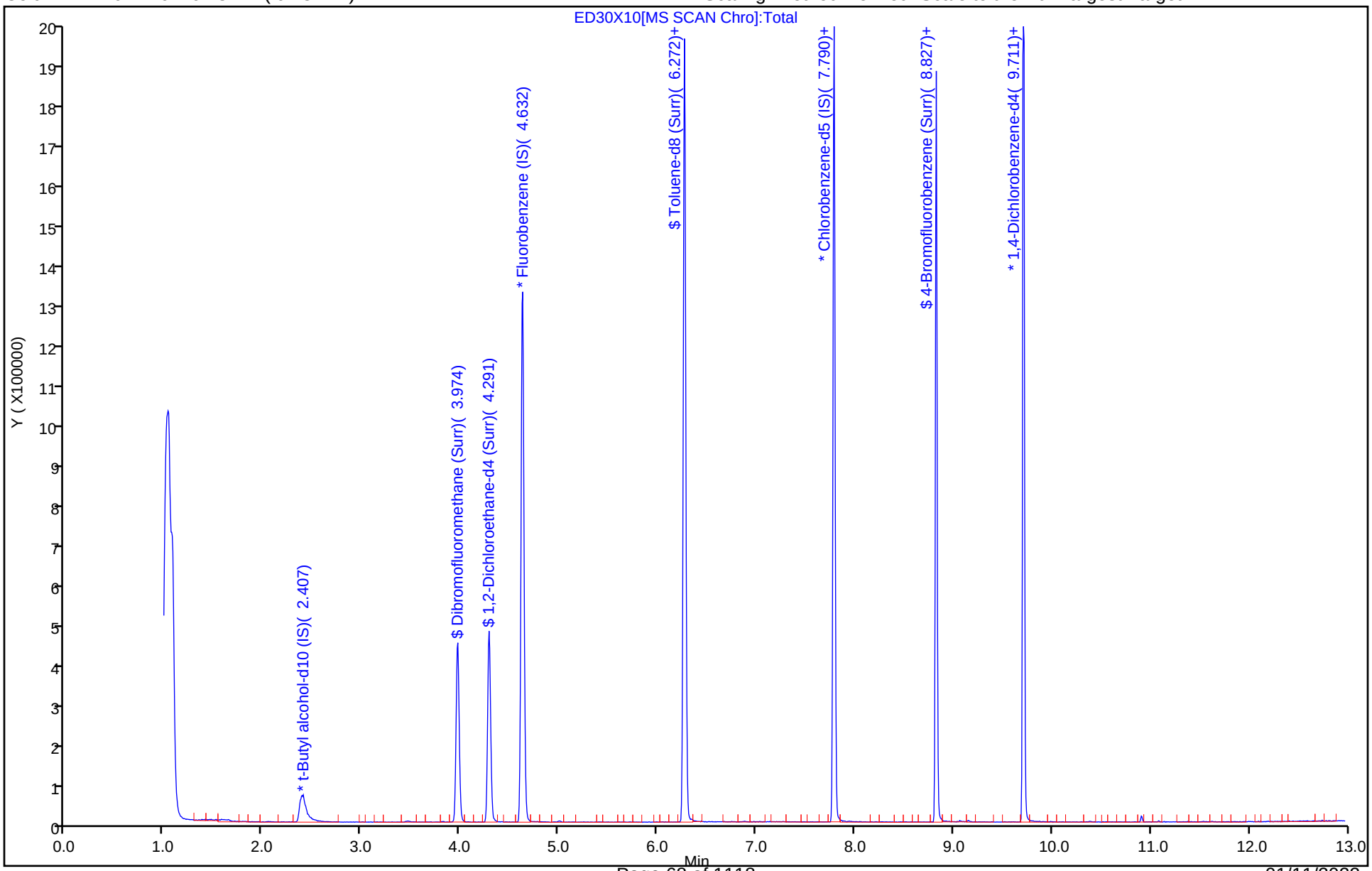
Report Date: 30-Dec-2021 19:28:32 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X10.D

Injection Date:	30-Dec-2021 19:05:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-3	Lab Sample ID:	410-68043-3	Worklist Smp#:	11
Client ID:	MW-10D-20211220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-8S-20211220 Lab Sample ID: 410-68043-4

Matrix: Ground Water Lab File ID: ED30X11.D

Analysis Method: 8260C Date Collected: 12/20/2021 16:18

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 19:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X11.D
Lims ID: 410-68043-C-4
Client ID: MW-8S-20211220
Sample Type: Client
Inject. Date: 30-Dec-2021 19:25:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-012
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 18:06:50 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 20:08:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	17	173443	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	7
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	298281	49.1	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	74	345868	46.5	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1344137	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1331890	49.8	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1010993	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	92	483423	47.5	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	536812	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

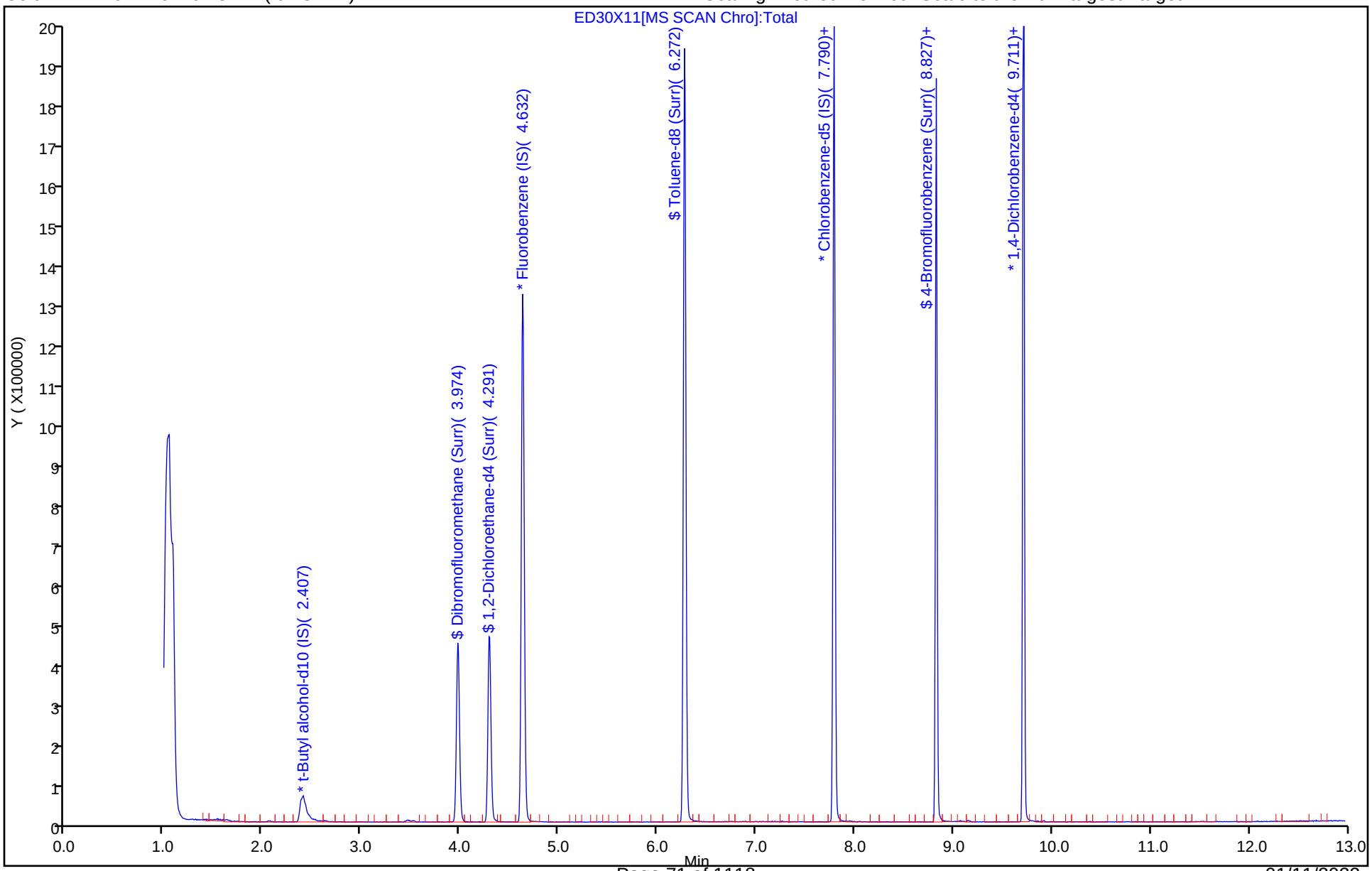
Report Date: 30-Dec-2021 20:08:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X11.D

Injection Date:	30-Dec-2021 19:25:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-4	Lab Sample ID:	410-68043-4	Worklist Smp#:	12
Client ID:	MW-8S-20211220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-8D-20211220 Lab Sample ID: 410-68043-5

Matrix: Ground Water Lab File ID: ED30X12.D

Analysis Method: 8260C Date Collected: 12/20/2021 16:57

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 19:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X12.D
Lims ID: 410-68043-C-5
Client ID: MW-8D-20211220
Sample Type: Client
Inject. Date: 30-Dec-2021 19:45:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-013
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 18:06:50 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 20:08:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	20	173313	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.968	3.968	0.000	93	299545	48.7	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	75	344563	45.8	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.626	4.626	0.000	99	1359063	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1348182	50.6	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1007072	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	92	486818	48.0	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	95	529215	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

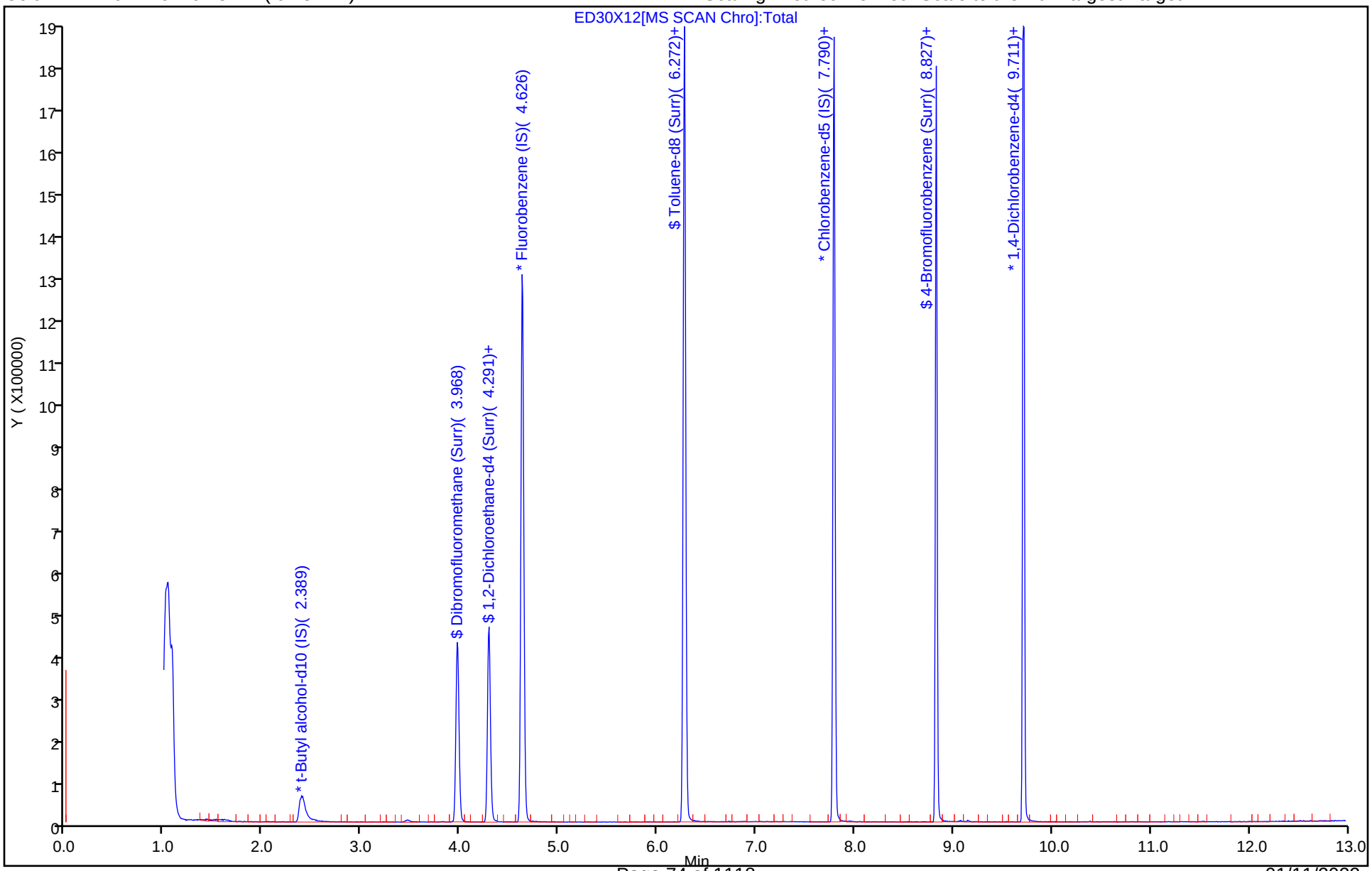
Report Date: 30-Dec-2021 20:08:51 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X12.D

Injection Date:	30-Dec-2021 19:45:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-5	Lab Sample ID:	410-68043-5	Worklist Smp#:	13
Client ID:	MW-8D-20211220				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7S-20211221 Lab Sample ID: 410-68043-6

Matrix: Ground Water Lab File ID: ED30X13.D

Analysis Method: 8260C Date Collected: 12/21/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 20:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.31	J	1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X13.D
Lims ID: 410-68043-C-6
Client ID: MW-7S-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 20:05:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-014
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 18:29:08 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 20:45:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	17	192901	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	317188	48.6	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	74	366610	45.9	
52 Benzene	78	4.358	4.346	0.012	90	13529	0.3135	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1442887	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1429841	50.3	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1074761	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	7
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	521726	48.2	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	568105	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

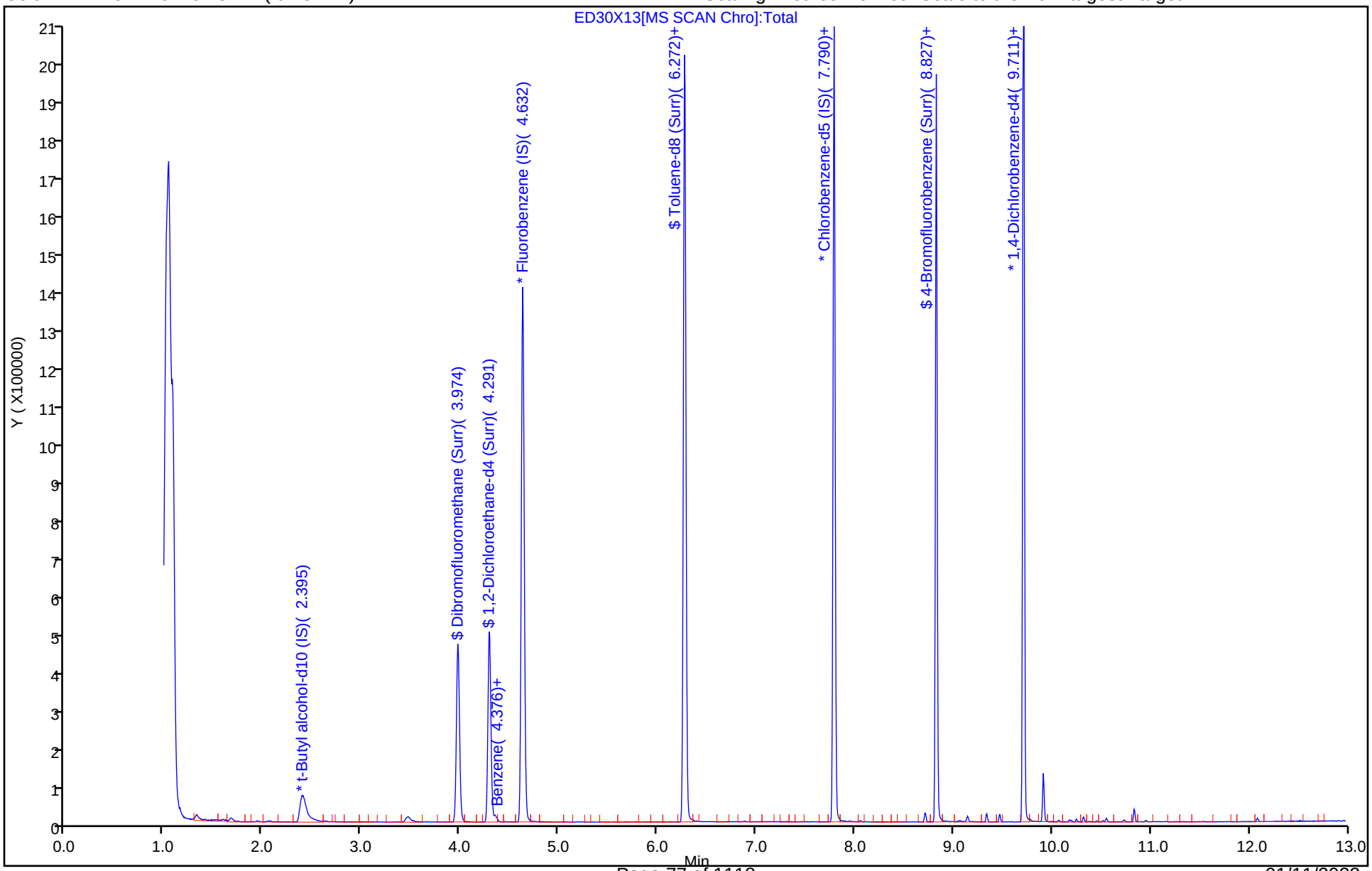
Report Date: 30-Dec-2021 20:45:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X13.D

Injection Date:	30-Dec-2021 20:05:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-6	Lab Sample ID:	410-68043-6	Worklist Smp#:	14
Client ID:	MW-7S-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

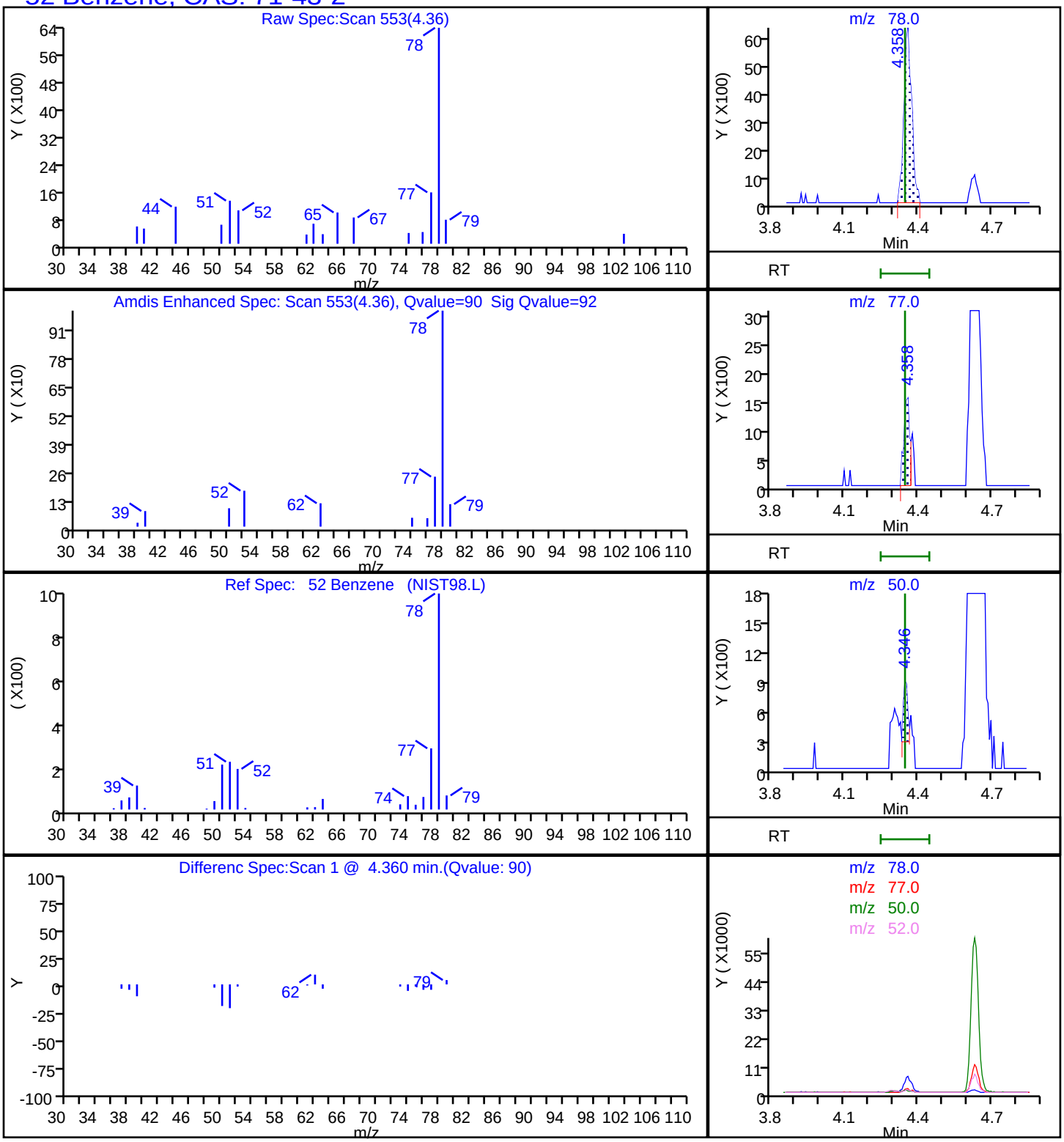
Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X13.D		
Injection Date:	30-Dec-2021 20:05:30	Instrument ID:	15648
Lims ID:	410-68043-C-6	Lab Sample ID:	410-68043-6
Client ID:	MW-7S-20211221		
Operator ID:	sej02002	ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad

52 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7D-20211221 Lab Sample ID: 410-68043-7

Matrix: Ground Water Lab File ID: ED30X17.D

Analysis Method: 8260C Date Collected: 12/21/2021 10:37

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 21:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X17.D
Lims ID: 410-68043-C-7
Client ID: MW-7D-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 21:26:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-018
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:46:52 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 21:55:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	21	180411	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.980	3.968	0.012	94	303067	49.2	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	74	347010	46.1	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1361056	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1339768	50.2	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1009285	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	498130	49.0	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	535495	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

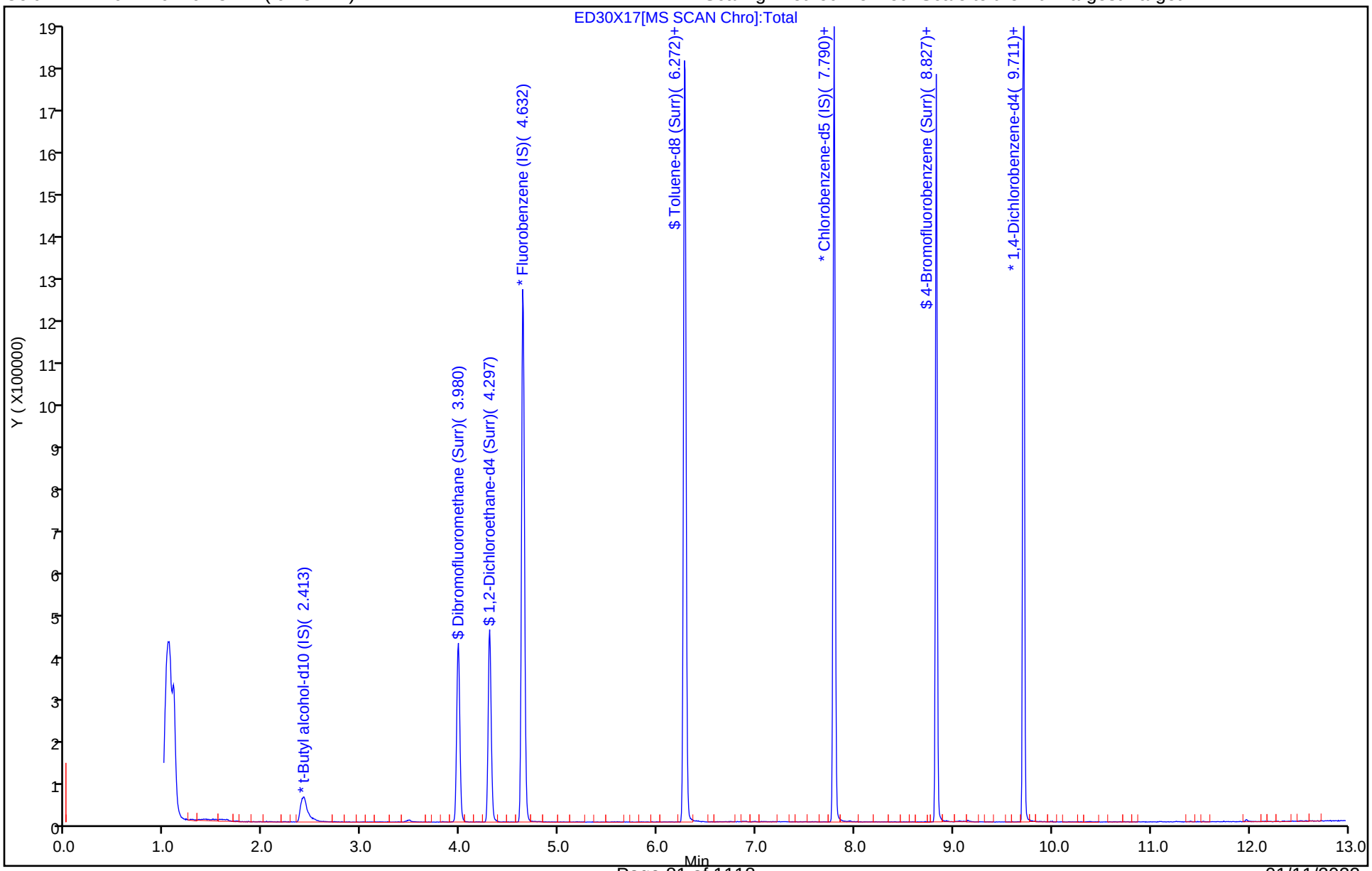
Report Date: 30-Dec-2021 21:55:25 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X17.D

Injection Date:	30-Dec-2021 21:26:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-7	Lab Sample ID:	410-68043-7	Worklist Smp#:	18
Client ID:	MW-7D-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-14S-20211221 Lab Sample ID: 410-68043-8

Matrix: Ground Water Lab File ID: ED30X18.D

Analysis Method: 8260C Date Collected: 12/21/2021 11:33

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 21:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X18.D
Lims ID: 410-68043-C-8
Client ID: MW-14S-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 21:46:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-019
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: beckerk Date: 31-Dec-2021 10:04:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	17	183638	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	306484	48.9	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	74	354630	46.2	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1385922	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1375370	50.6	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1028266	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	497806	48.0	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	544088	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

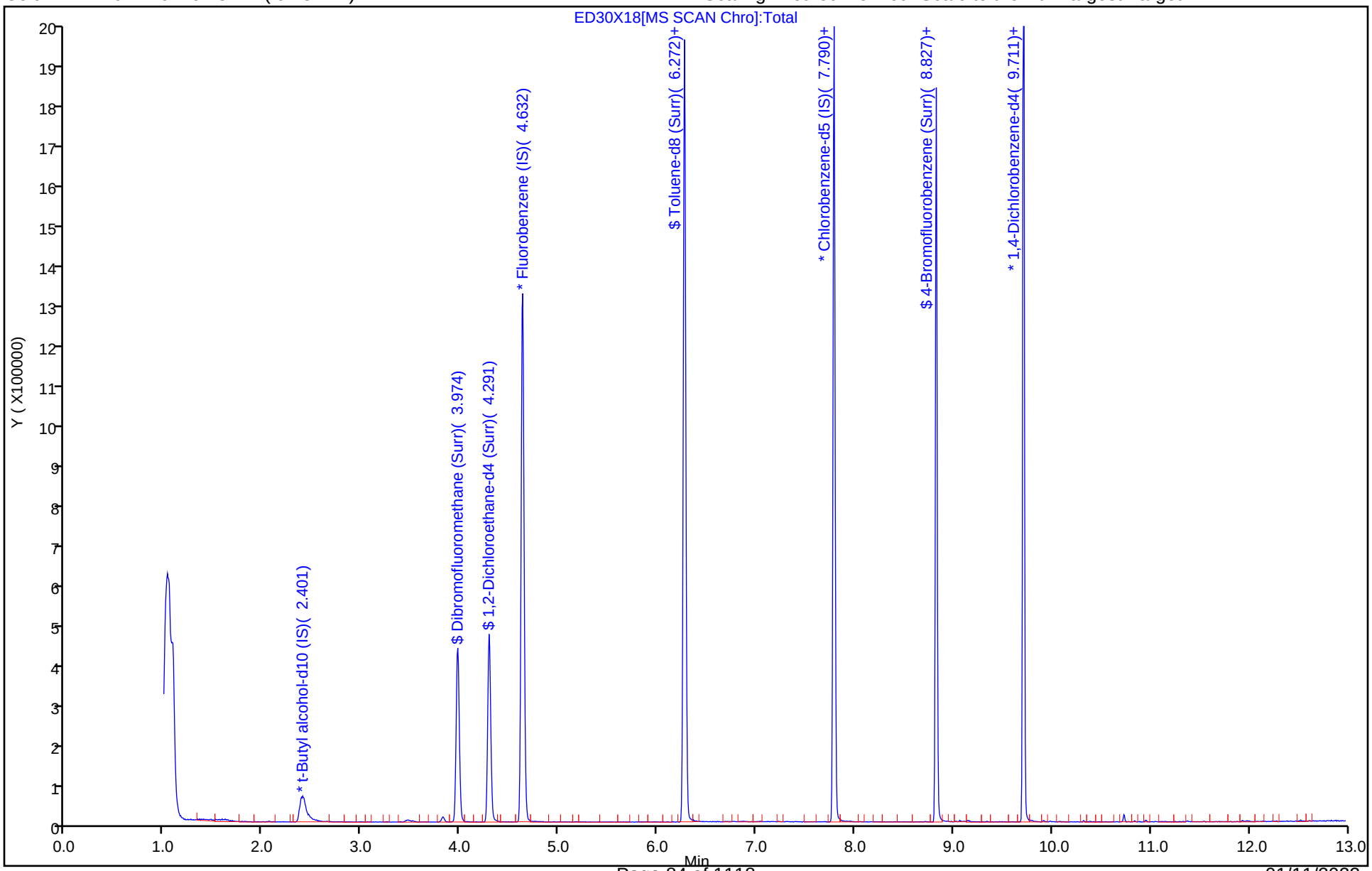
Report Date: 31-Dec-2021 10:05:55 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X18.D

Injection Date:	30-Dec-2021 21:46:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-8	Lab Sample ID:	410-68043-8	Worklist Smp#:	19
Client ID:	MW-14S-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-14D-20211221 Lab Sample ID: 410-68043-9

Matrix: Ground Water Lab File ID: ED30X19.D

Analysis Method: 8260C Date Collected: 12/21/2021 12:39

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 22:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X19.D
Lims ID: 410-68043-C-9
Client ID: MW-14D-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 22:07:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-020
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.395	2.395	0.000	17	179032	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	7
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	310153	49.1	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	74	352916	45.7	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1395329	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1378698	50.4	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1033779	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	90	504376	48.4	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	549241	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

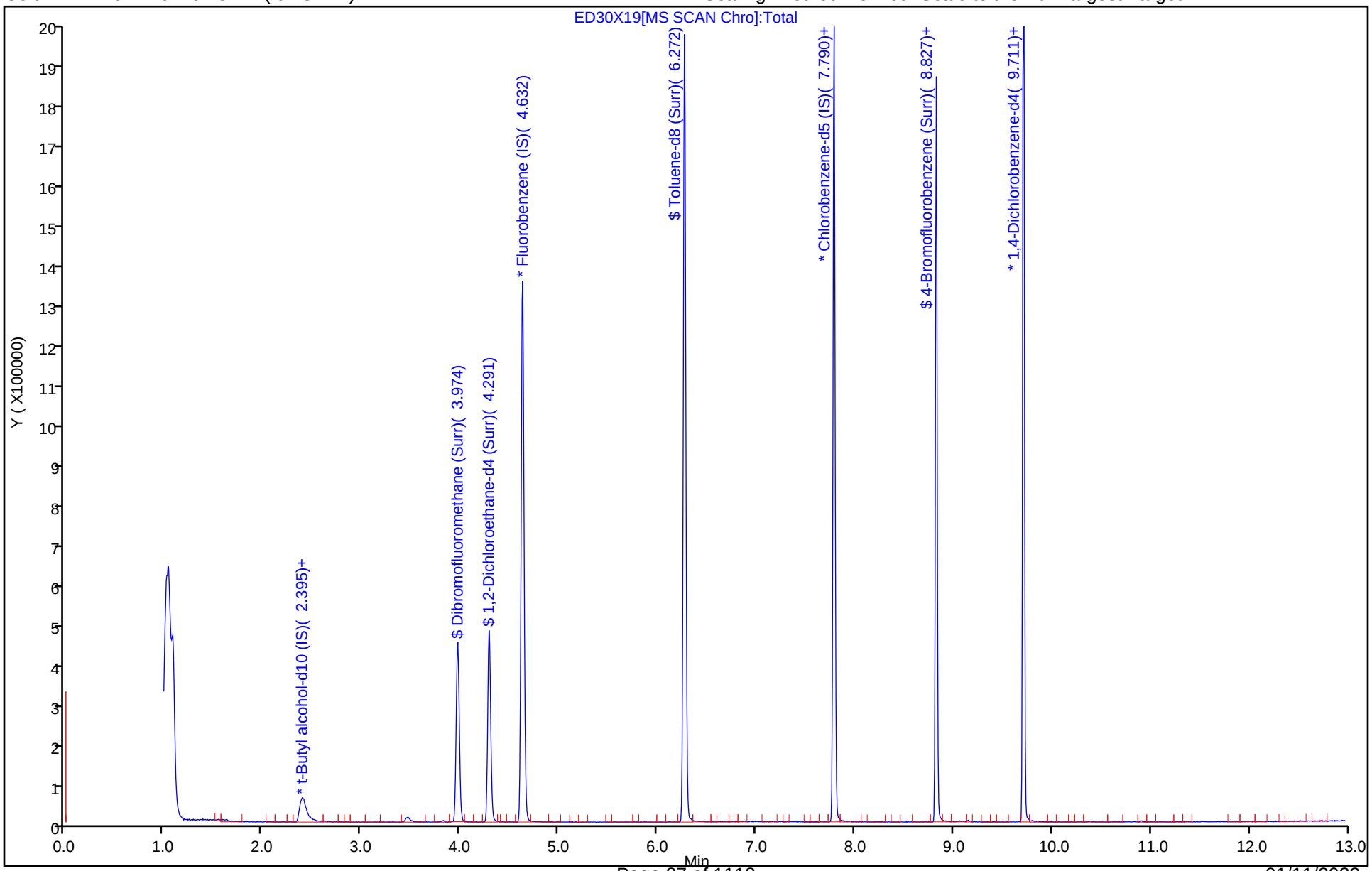
Report Date: 31-Dec-2021 10:05:55 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X19.D

Injection Date:	30-Dec-2021 22:07:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-9	Lab Sample ID:	410-68043-9	Worklist Smp#:	20
Client ID:	MW-14D-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: EB-20211221 Lab Sample ID: 410-68043-10

Matrix: Water Lab File ID: ED30X06.D

Analysis Method: 8260C Date Collected: 12/21/2021 13:40

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 17:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X06.D
Lims ID: 410-68043-C-10
Client ID: EB-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 17:44:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-007
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:27:42 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 19:28:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	25	216684	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	329302	49.6	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	75	371970	45.8	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.633	4.626	0.007	99	1466908	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1438459	50.4	
73 Toluene	92		6.340				ND	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1079617	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	7
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	530384	48.8	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	573320	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

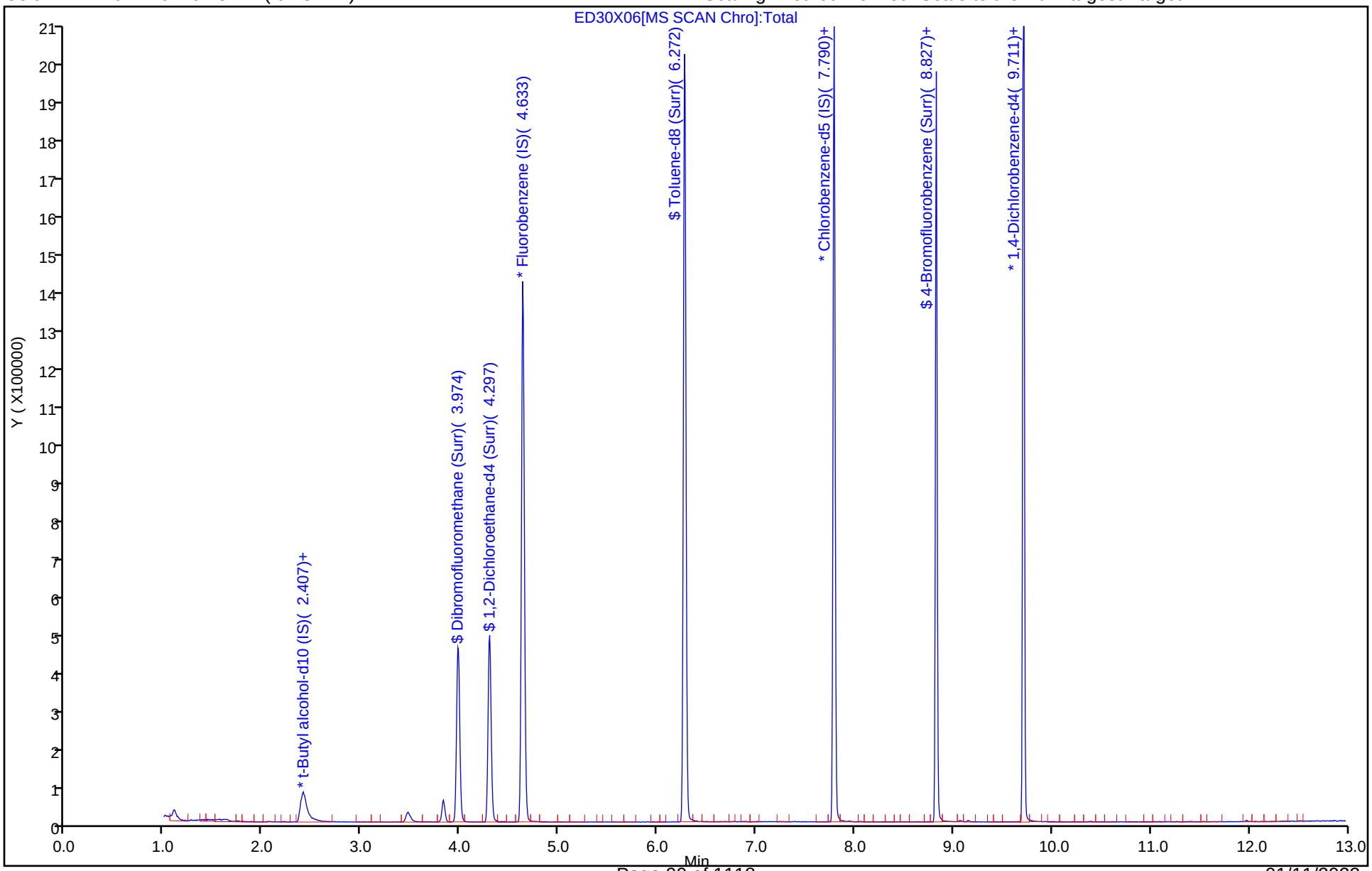
Report Date: 30-Dec-2021 19:28:29 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X06.D

Injection Date:	30-Dec-2021 17:44:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-10	Lab Sample ID:	410-68043-10	Worklist Smp#:	7
Client ID:	EB-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-12S-20211221 Lab Sample ID: 410-68043-11

Matrix: Ground Water Lab File ID: ED30X20.D

Analysis Method: 8260C Date Collected: 12/21/2021 14:27

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 22:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X20.D
Lims ID: 410-68043-C-11
Client ID: MW-12S-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 22:27:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-021
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.413	2.395	0.018	17	179027	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.980	3.968	0.012	94	302559	48.8	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	74	348573	46.0	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.633	4.626	0.006	99	1370038	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1347964	50.1	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1017609	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	490920	47.9	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	535639	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

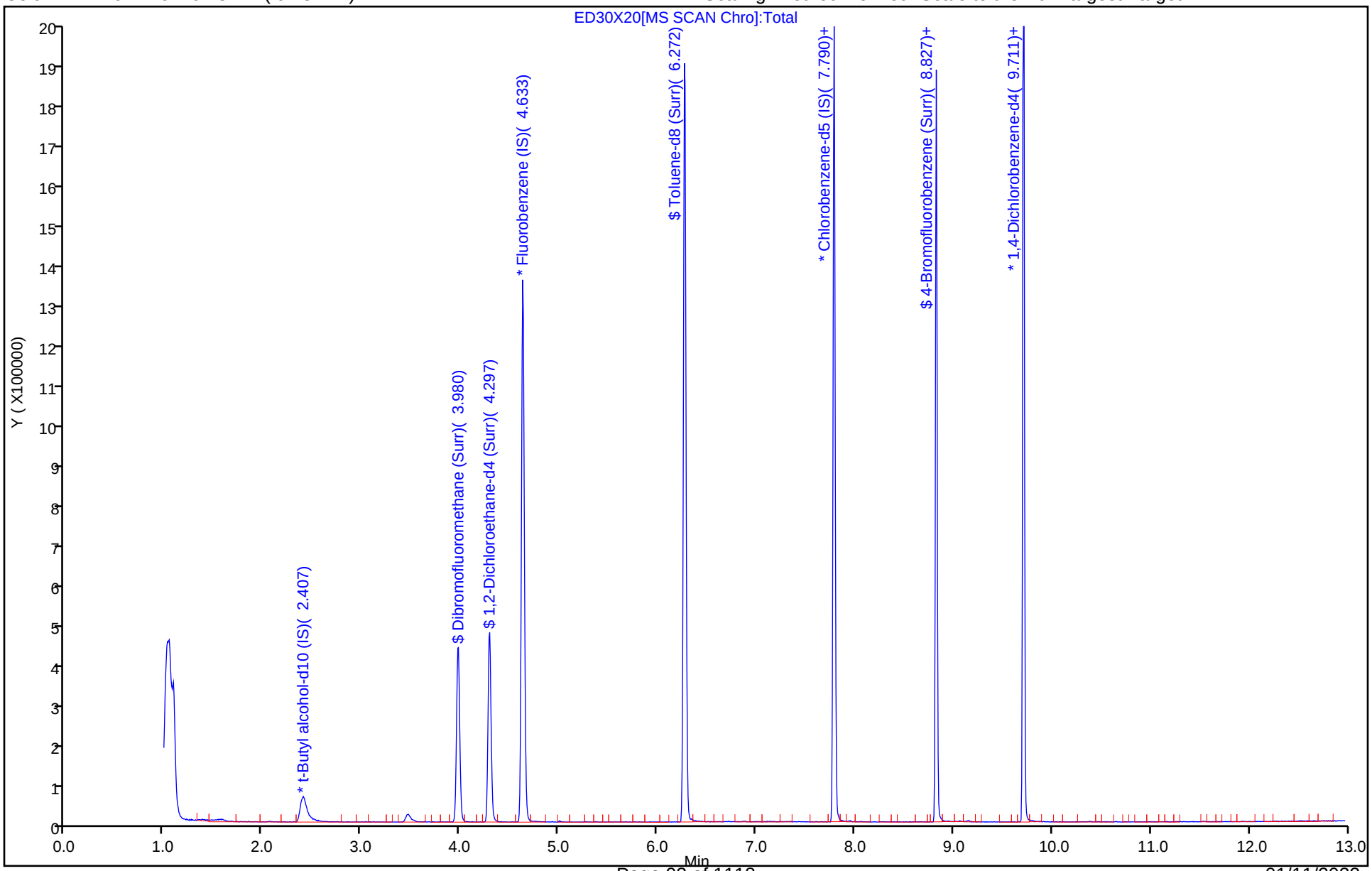
Report Date: 31-Dec-2021 10:05:56 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X20.D

Injection Date:	30-Dec-2021 22:27:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-11	Lab Sample ID:	410-68043-11	Worklist Smp#:	21
Client ID:	MW-12S-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-12D-20211221 Lab Sample ID: 410-68043-12

Matrix: Ground Water Lab File ID: ED30X21.D

Analysis Method: 8260C Date Collected: 12/21/2021 15:06

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 22:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		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)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X21.D
Lims ID: 410-68043-C-12
Client ID: MW-12D-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 22:47:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-022
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	21	181857	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	297668	49.3	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	75	339227	45.9	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1336383	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1319432	50.4	
73 Toluene	92		6.340				ND	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	989368	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	485925	48.7	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	95	517129	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

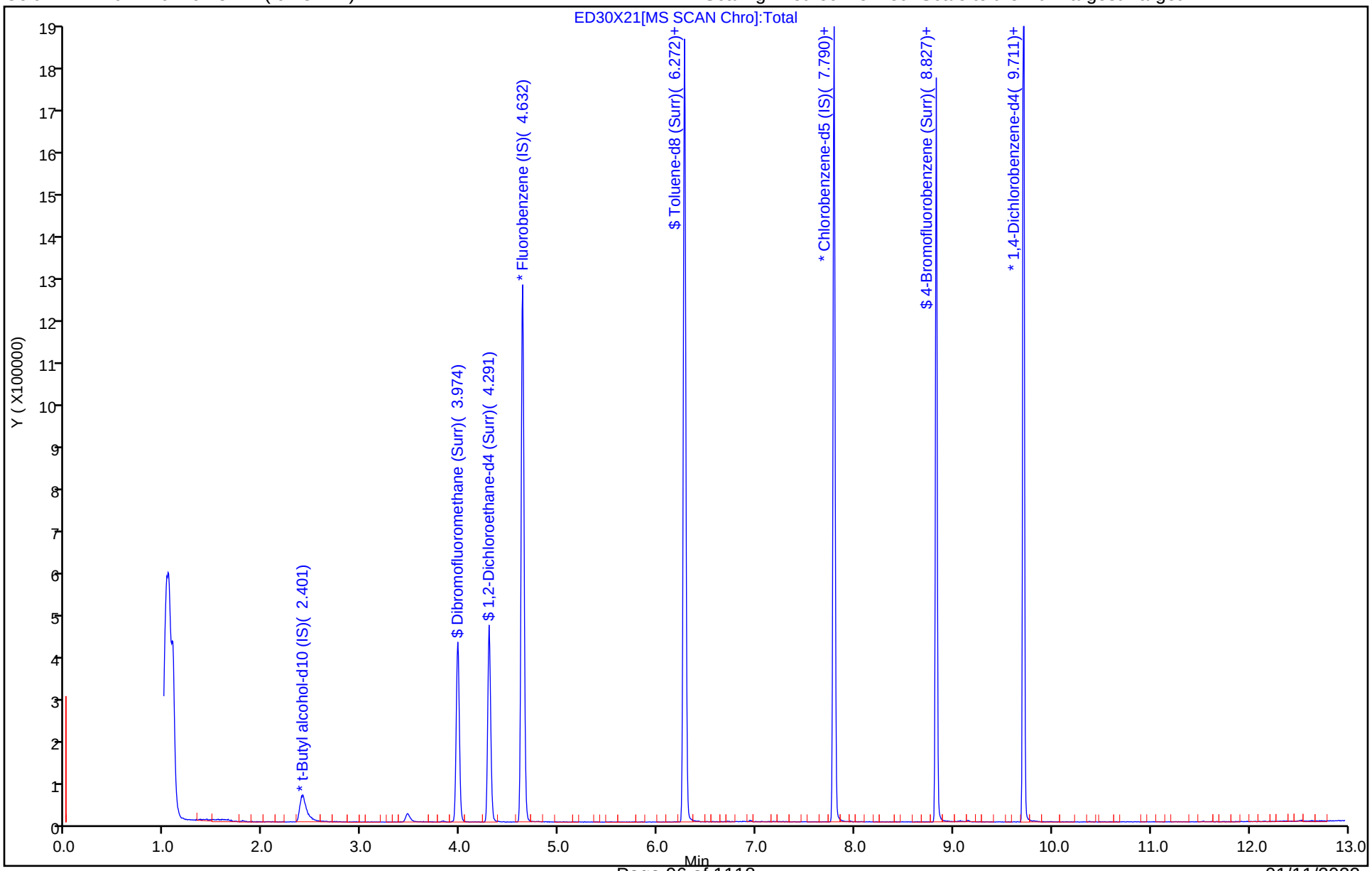
Report Date: 31-Dec-2021 10:05:57 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X21.D

Injection Date:	30-Dec-2021 22:47:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-12	Lab Sample ID:	410-68043-12	Worklist Smp#:	22
Client ID:	MW-12D-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-11S-20211221 Lab Sample ID: 410-68043-13

Matrix: Ground Water Lab File ID: ED30X22.D

Analysis Method: 8260C Date Collected: 12/21/2021 16:17

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 23:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	0.72	J	1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		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)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X22.D
Lims ID: 410-68043-C-13
Client ID: MW-11S-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 23:07:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-023
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: beckerk Date: 31-Dec-2021 10:05:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	20	189127	250.0	
28 Methyl tert-butyl ether	73	2.645	2.621	0.024	35	4712	0.1585	
$ 45 Dibromofluoromethane (Surr)	113	3.980	3.968	0.012	94	307659	49.4	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	74	349429	45.9	
52 Benzene	78	4.358	4.346	0.012	94	48638	1.18	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1376388	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1355741	49.7	
73 Toluene	92	6.351	6.340	0.011	98	3511	0.1335	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1031900	50.0	
88 Ethylbenzene	91		7.931				ND	7
89 m-Xylene & p-Xylene	106	8.052	8.040	0.012	99	27864	1.46	
91 o-Xylene	106	8.400	8.388	0.012	95	13423	0.7166	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	92	501668	48.3	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	552363	50.0	
S 125 Xylenes, Total	106				0		2.17	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

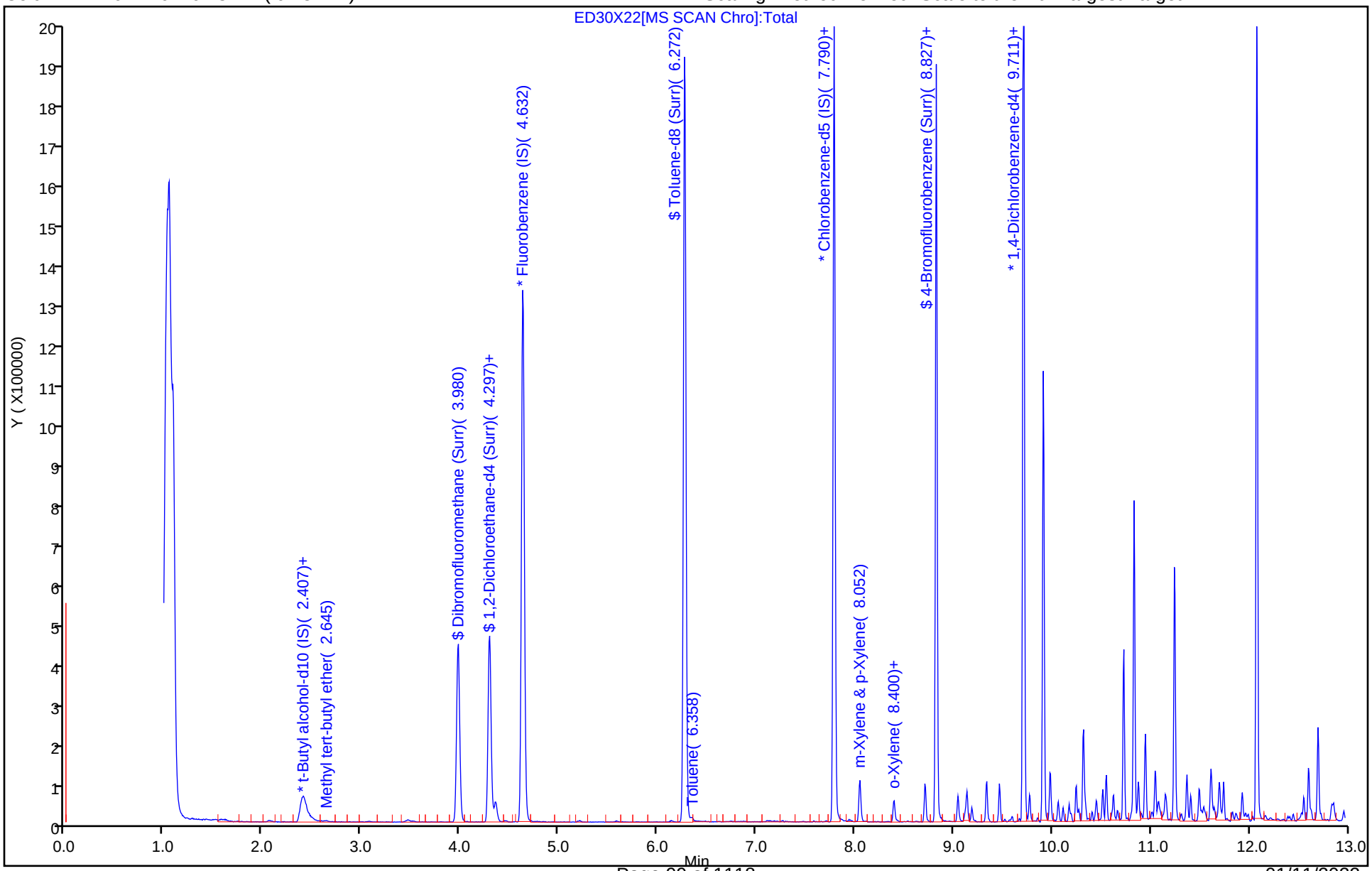
Report Date: 31-Dec-2021 10:05:57 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X22.D

Injection Date:	30-Dec-2021 23:07:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-13	Lab Sample ID:	410-68043-13	Worklist Smp#:	23
Client ID:	MW-11S-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



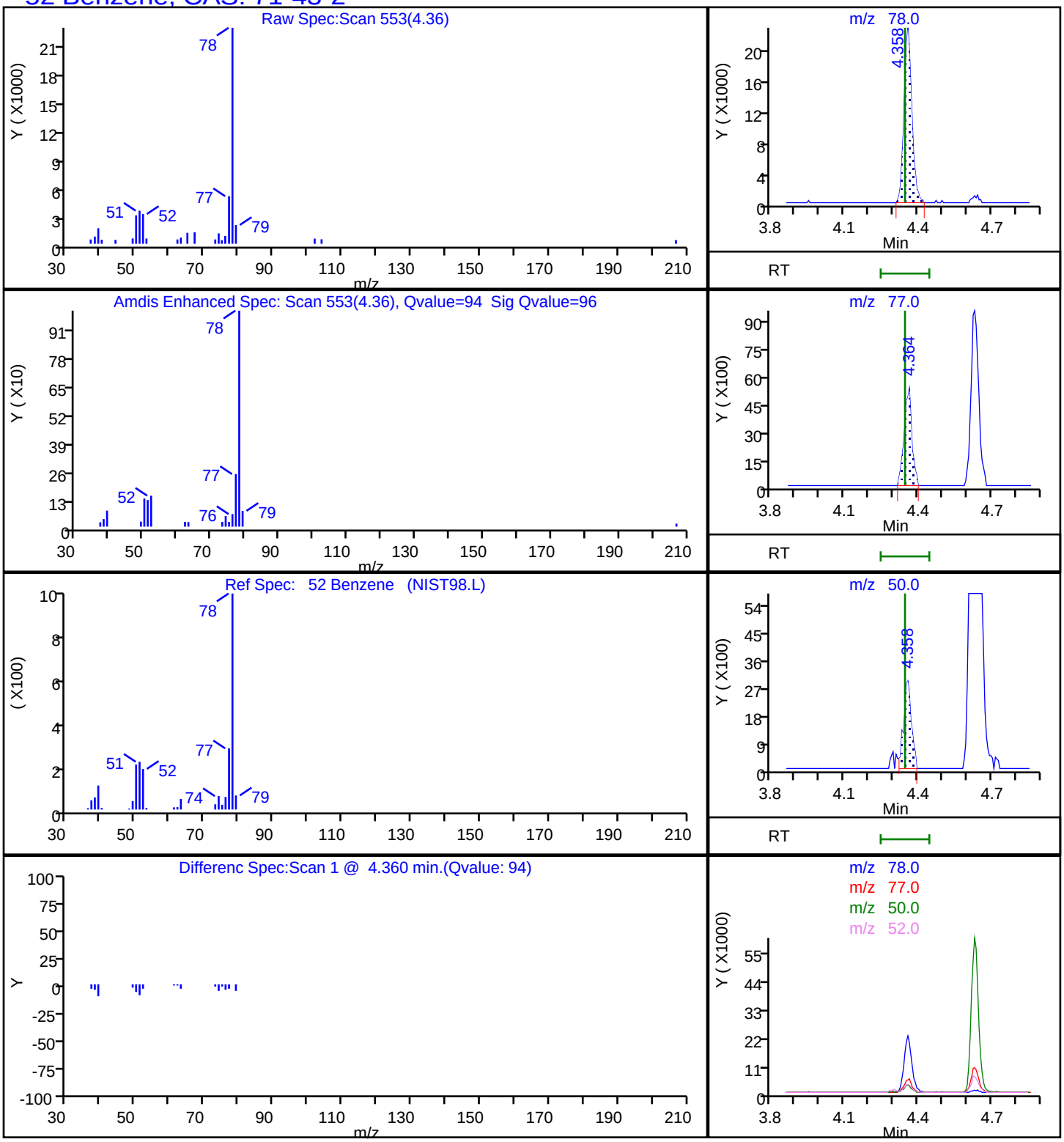
Report Date: 31-Dec-2021 10:05:57 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X22.D

Injection Date:	30-Dec-2021 23:07:30	Instrument ID:	15648		
Lims ID:	410-68043-C-13	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	sej02002	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

52 Benzene, CAS: 71-43-2

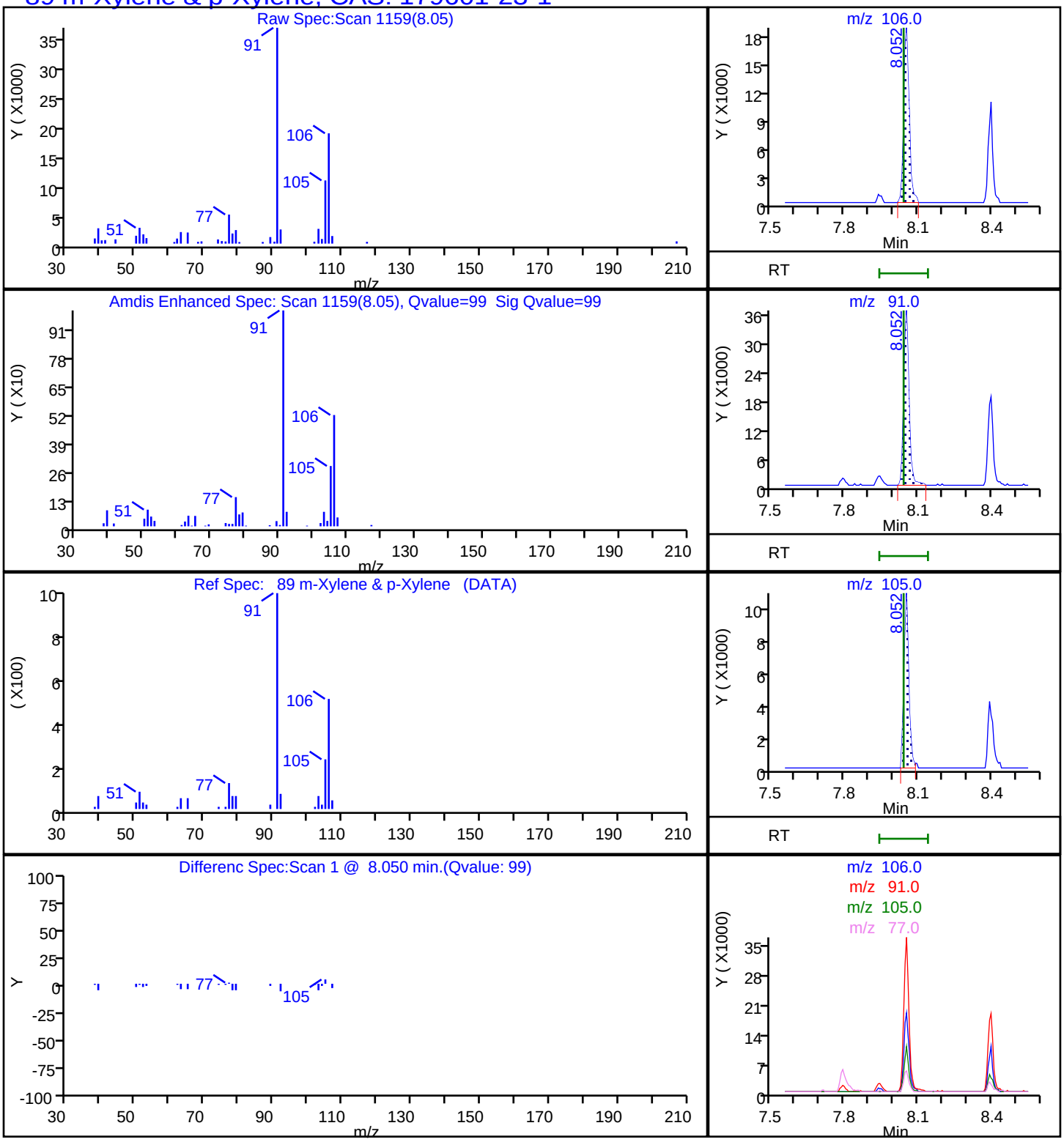


Report Date: 31-Dec-2021 10:05:57 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X22.D				
Injection Date:	30-Dec-2021 23:07:30	Instrument ID:	15648		
Lims ID:	410-68043-C-13	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	sej02002	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

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



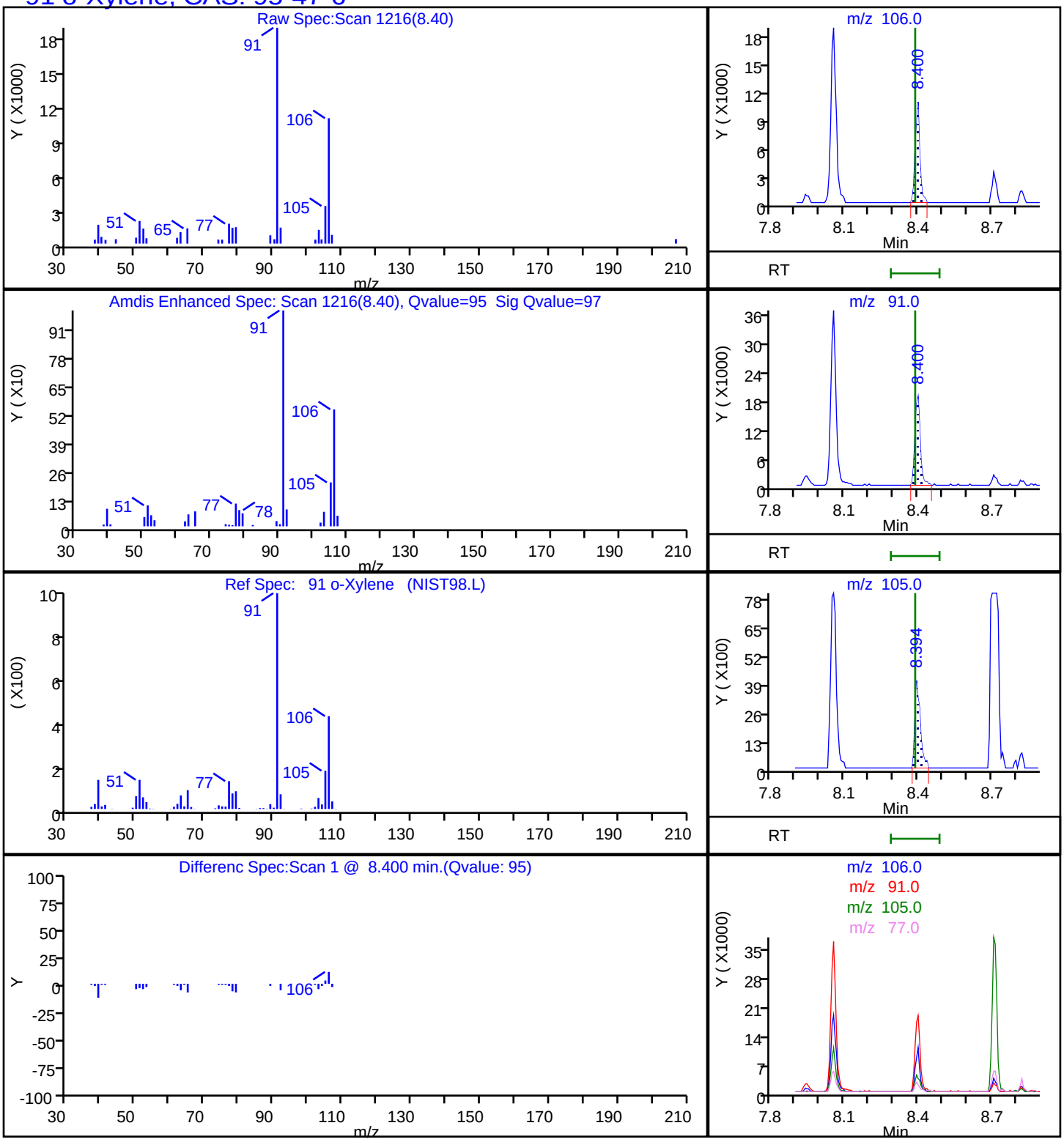
Report Date: 31-Dec-2021 10:05:57 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X22.D

Injection Date:	30-Dec-2021 23:07:30	Instrument ID:	15648		
Lims ID:	410-68043-C-13	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	sej02002	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-11D-20211221 Lab Sample ID: 410-68043-14

Matrix: Ground Water Lab File ID: ED30X23.D

Analysis Method: 8260C Date Collected: 12/21/2021 17:01

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 23:27

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X23.D
Lims ID: 410-68043-C-14
Client ID: MW-11D-20211221
Sample Type: Client
Inject. Date: 30-Dec-2021 23:27:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-024
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	17	186326	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	305391	49.2	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	74	346233	45.6	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.633	4.626	0.007	99	1372236	50.0	
$ 72 Toluene-d8 (Surr)	98	6.273	6.266	0.006	93	1355742	49.6	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.791	7.784	0.006	84	1032424	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	494037	47.5	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	549082	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

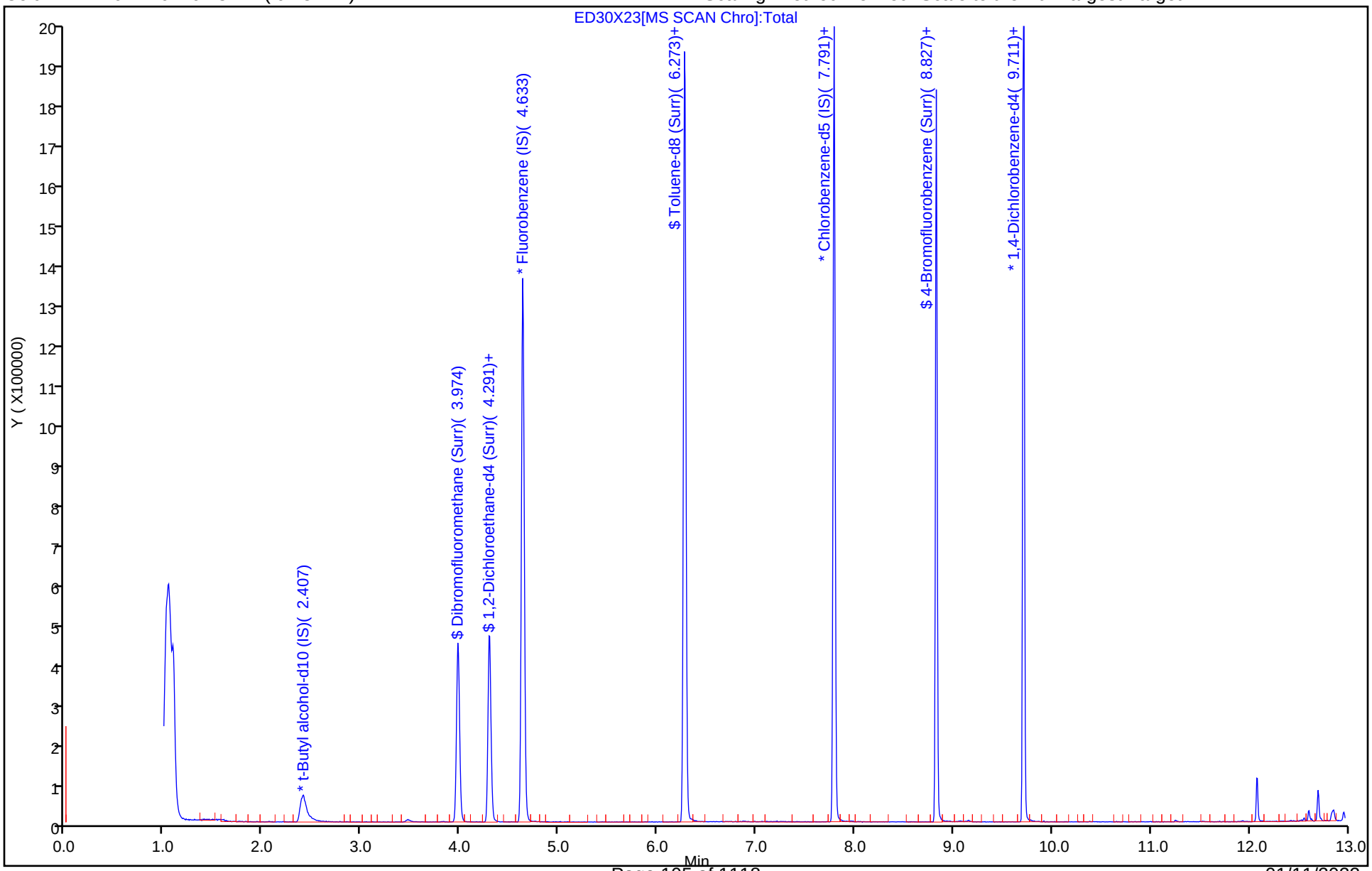
Report Date: 31-Dec-2021 10:05:58 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X23.D

Injection Date:	30-Dec-2021 23:27:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-14	Lab Sample ID:	410-68043-14	Worklist Smp#:	24
Client ID:	MW-11D-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-4S-20211222 Lab Sample ID: 410-68043-15

Matrix: Ground Water Lab File ID: ED30X24.D

Analysis Method: 8260C Date Collected: 12/22/2021 09:31

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 23:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.30	J	1.0	0.30
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		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)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X24.D
Lims ID: 410-68043-C-15
Client ID: MW-4S-20211222
Sample Type: Client
Inject. Date: 30-Dec-2021 23:47:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-025
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: beckerk Date: 31-Dec-2021 10:05:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	27	189889	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	309494	49.6	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	74	351607	46.0	
52 Benzene	78	4.352	4.346	0.006	92	12575	0.3045	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1380671	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1364993	50.0	
73 Toluene	92		6.340				ND	7
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1031854	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	7
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	506199	48.7	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	555408	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

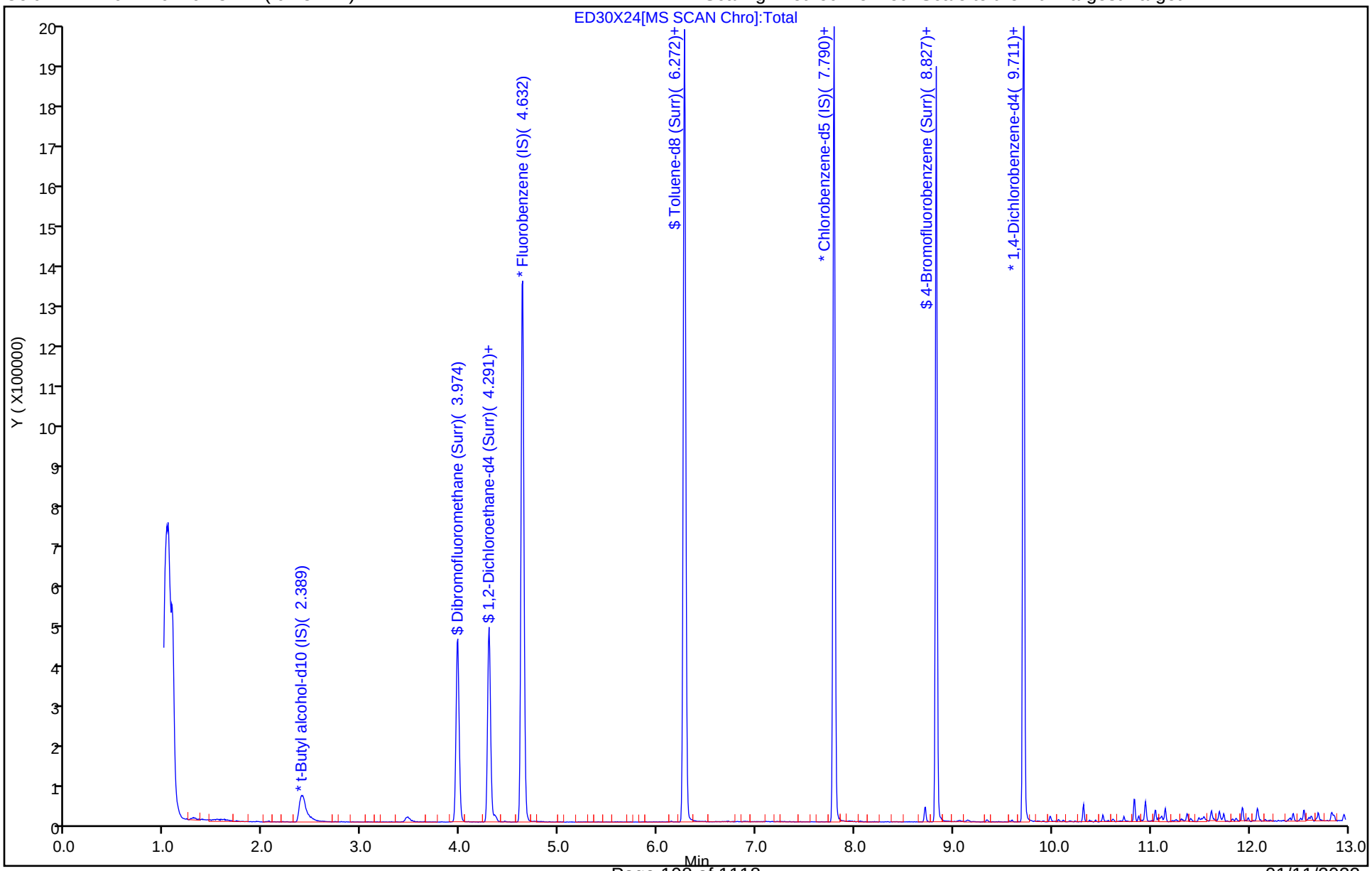
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X24.D

Injection Date:	30-Dec-2021 23:47:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-15	Lab Sample ID:	410-68043-15	Worklist Smp#:	25
Client ID:	MW-4S-20211222				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

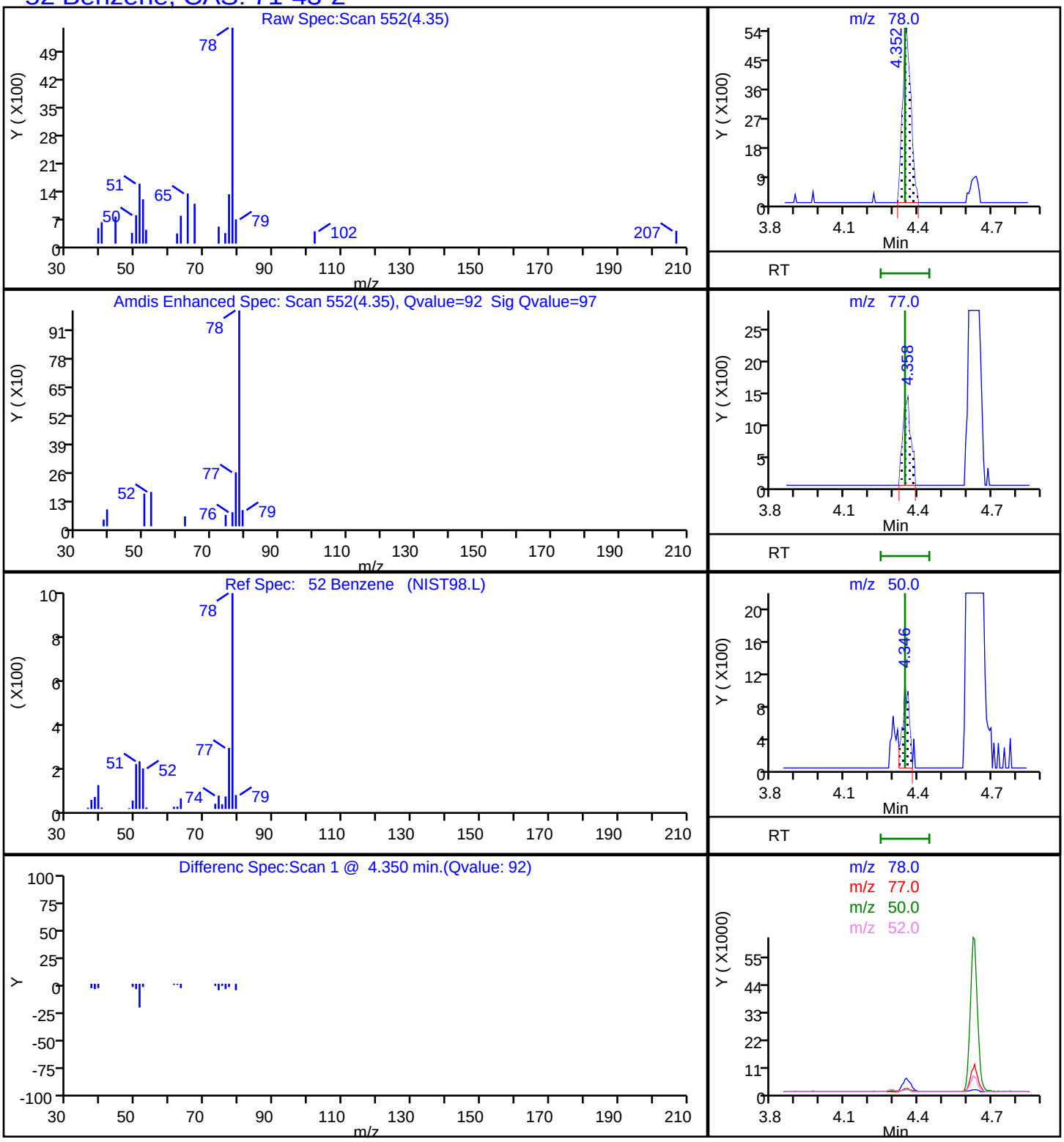


Report Date: 31-Dec-2021 10:05:59 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X24.D				
Injection Date:	30-Dec-2021 23:47:30	Instrument ID:	15648		
Lims ID:	410-68043-C-15	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	sej02002	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

52 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-4D-20211222 Lab Sample ID: 410-68043-16

Matrix: Ground Water Lab File ID: ED30X25.D

Analysis Method: 8260C Date Collected: 12/22/2021 10:08

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2021 00:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X25.D
Lims ID: 410-68043-C-16
Client ID: MW-4D-20211222
Sample Type: Client
Inject. Date: 31-Dec-2021 00:08:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-026
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	17	192019	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	7
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	93	306614	49.4	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	74	346046	45.6	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.633	4.626	0.006	99	1371176	50.0	
$ 72 Toluene-d8 (Surr)	98	6.279	6.266	0.013	92	1344680	49.9	
73 Toluene	92		6.340				ND	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1017854	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	487499	47.5	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	543753	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

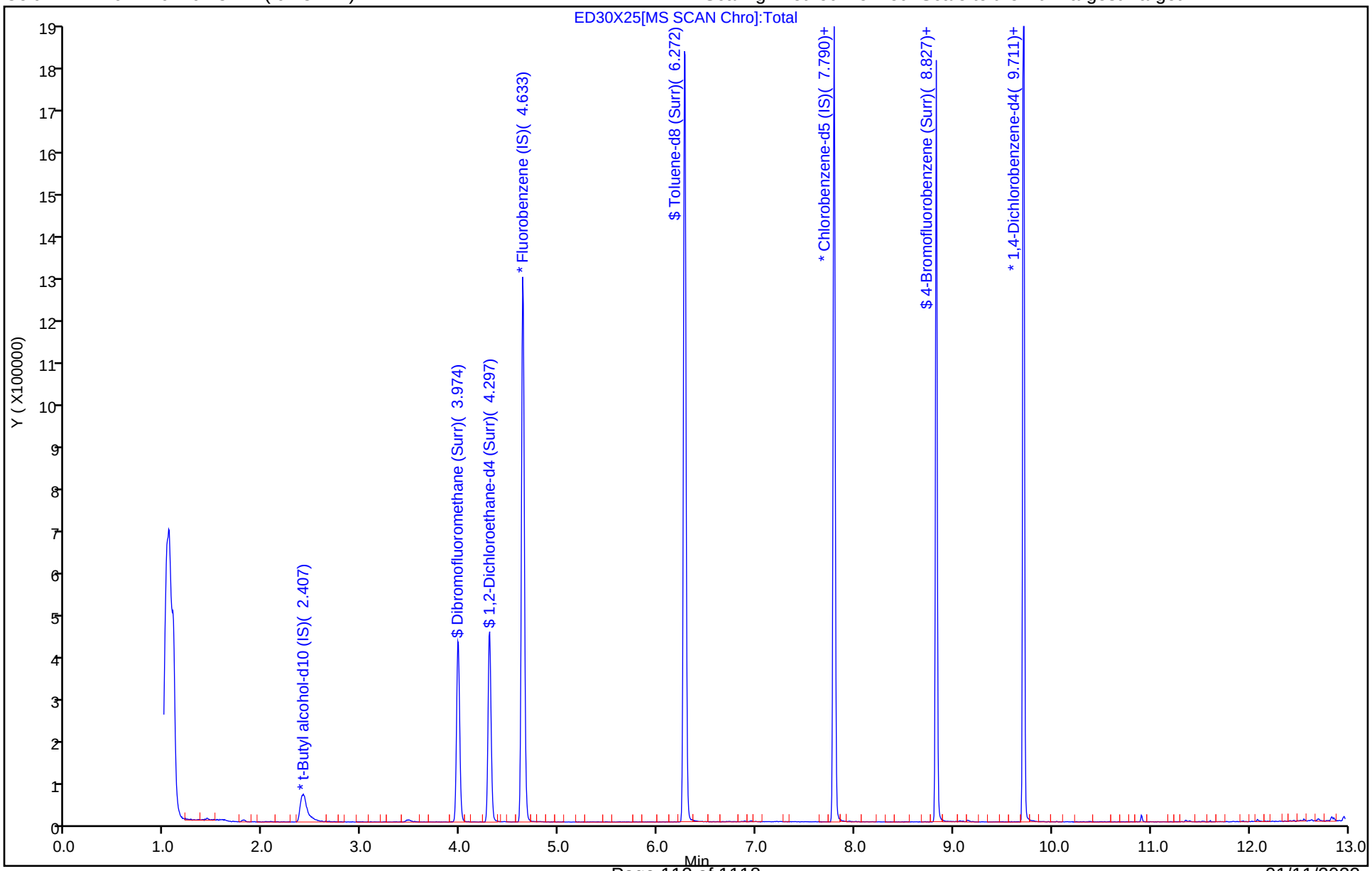
Report Date: 31-Dec-2021 10:05:59 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X25.D

Injection Date:	31-Dec-2021 00:08:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-16	Lab Sample ID:	410-68043-16	Worklist Smp#:	26
Client ID:	MW-4D-20211222				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-3-20211222 Lab Sample ID: 410-68043-17

Matrix: Ground Water Lab File ID: ED30X26.D

Analysis Method: 8260C Date Collected: 12/22/2021 10:51

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2021 00:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.64	J	1.0	0.30
100-41-4	Ethylbenzene	4.1		1.0	0.40
108-88-3	Toluene	0.76	J	1.0	0.20
1330-20-7	Xylenes, Total	6.3		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X26.D
Lims ID: 410-68043-C-17
Client ID: MW-3-20211222
Sample Type: Client
Inject. Date: 31-Dec-2021 00:28:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-027
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: beckerk Date: 31-Dec-2021 10:05:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	25	196442	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	7
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	93	303966	49.8	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	74	342668	45.9	
52 Benzene	78	4.358	4.346	0.012	91	25816	0.6396	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1349660	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1318977	49.7	
73 Toluene	92	6.345	6.340	0.005	97	19530	0.7632	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1003841	50.0	
88 Ethylbenzene	91	7.937	7.931	0.006	97	199377	4.14	
89 m-Xylene & p-Xylene	106	8.046	8.040	0.006	100	59561	3.20	
91 o-Xylene	106	8.394	8.388	0.006	96	56194	3.08	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	491093	48.6	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	550035	50.0	
S 125 Xylenes, Total	106				0		6.28	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

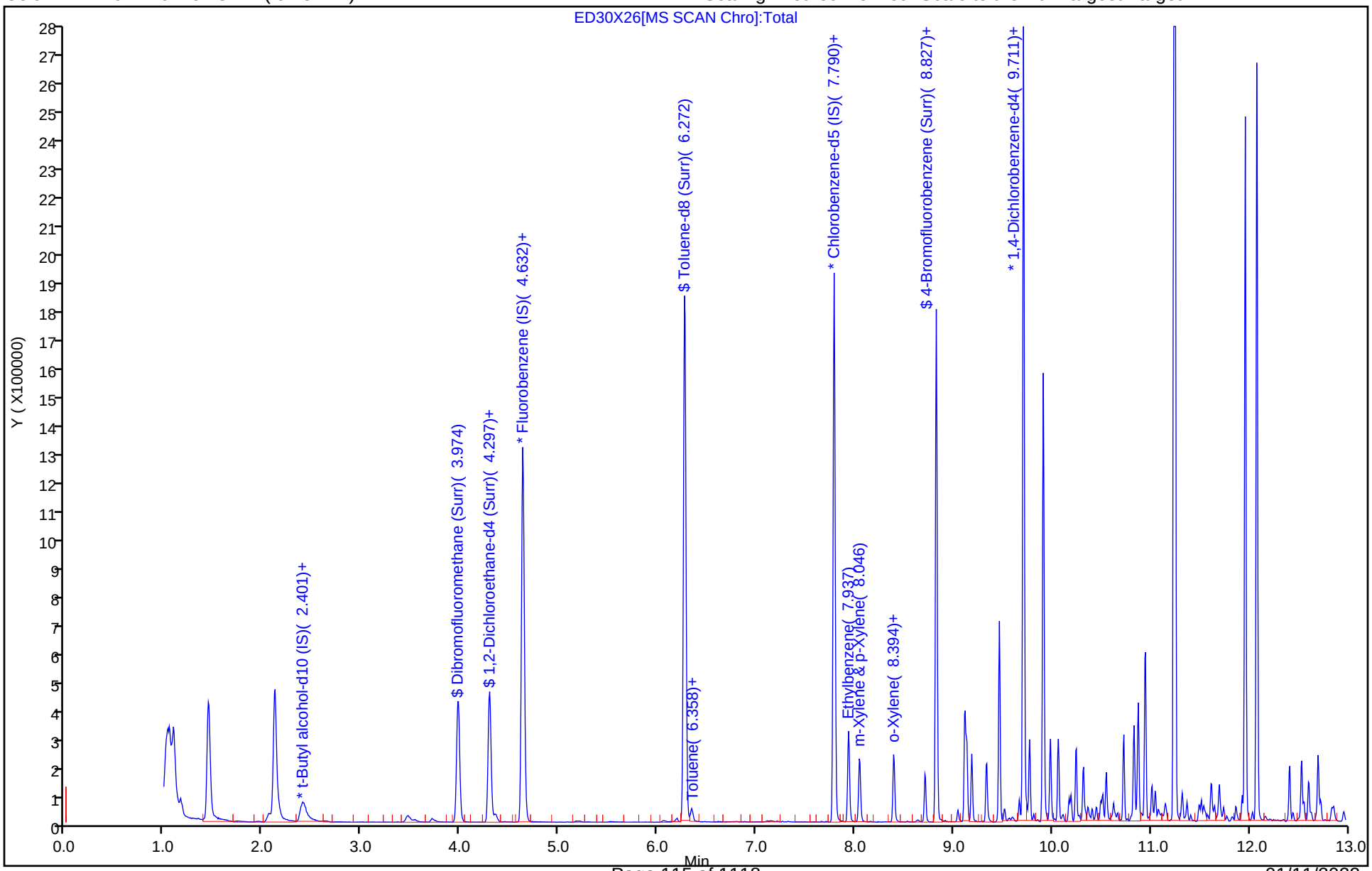
Report Date: 31-Dec-2021 10:06:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X26.D

Injection Date:	31-Dec-2021 00:28:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-17	Lab Sample ID:	410-68043-17	Worklist Smp#:	27
Client ID:	MW-3-20211222				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 31-Dec-2021 10:06:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X26.D

Injection Date: 31-Dec-2021 00:28:30 Instrument ID: 15648

Lims ID: 410-68043-C-17 Lab Sample ID: 410-68043-17

Client ID: MW-3-20211222

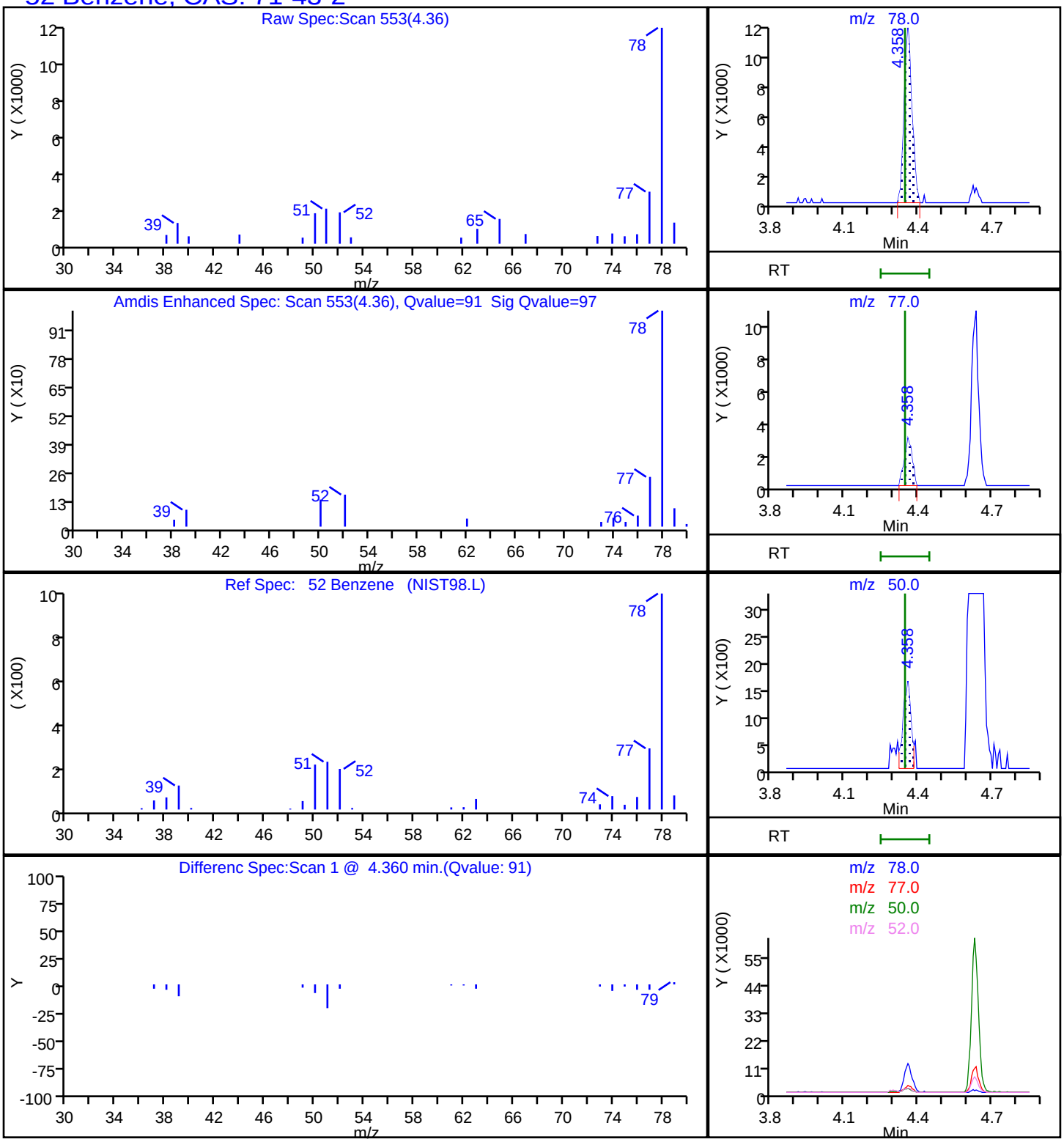
Operator ID: sej02002 ALS Bottle#: 26 Worklist Smp#: 27

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_15648 Limit Group: MSV - 8260C_D

Column: DB-624 20m 0.18mm (0.18 mm) Detector MS Quad

52 Benzene, CAS: 71-43-2

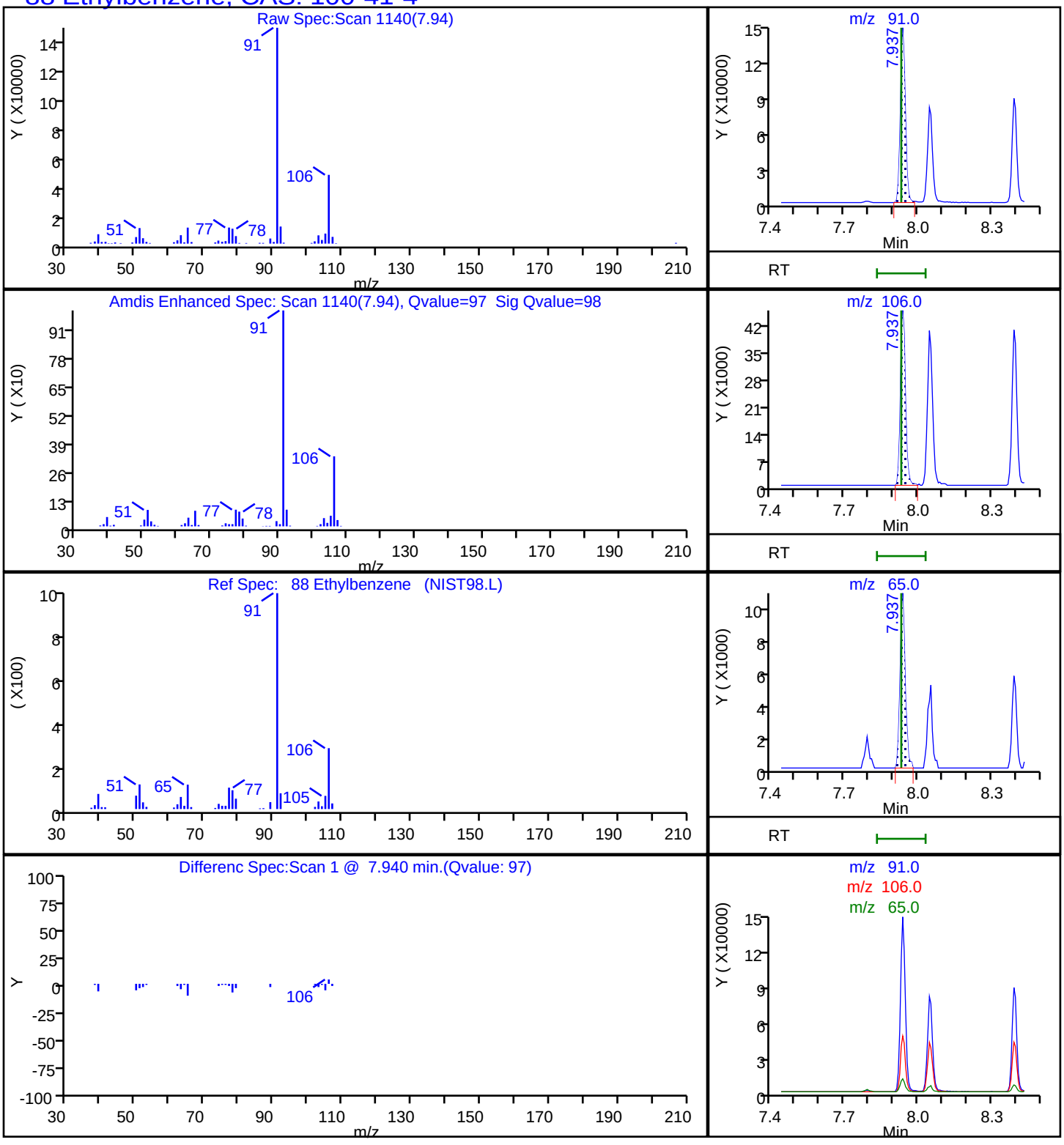


Report Date: 31-Dec-2021 10:06:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X26.D		
Injection Date:	31-Dec-2021 00:28:30	Instrument ID:	15648
Lims ID:	410-68043-C-17	Lab Sample ID:	410-68043-17
Client ID:	MW-3-20211222		
Operator ID:	sej02002	ALS Bottle#:	26 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad

88 Ethylbenzene, CAS: 100-41-4

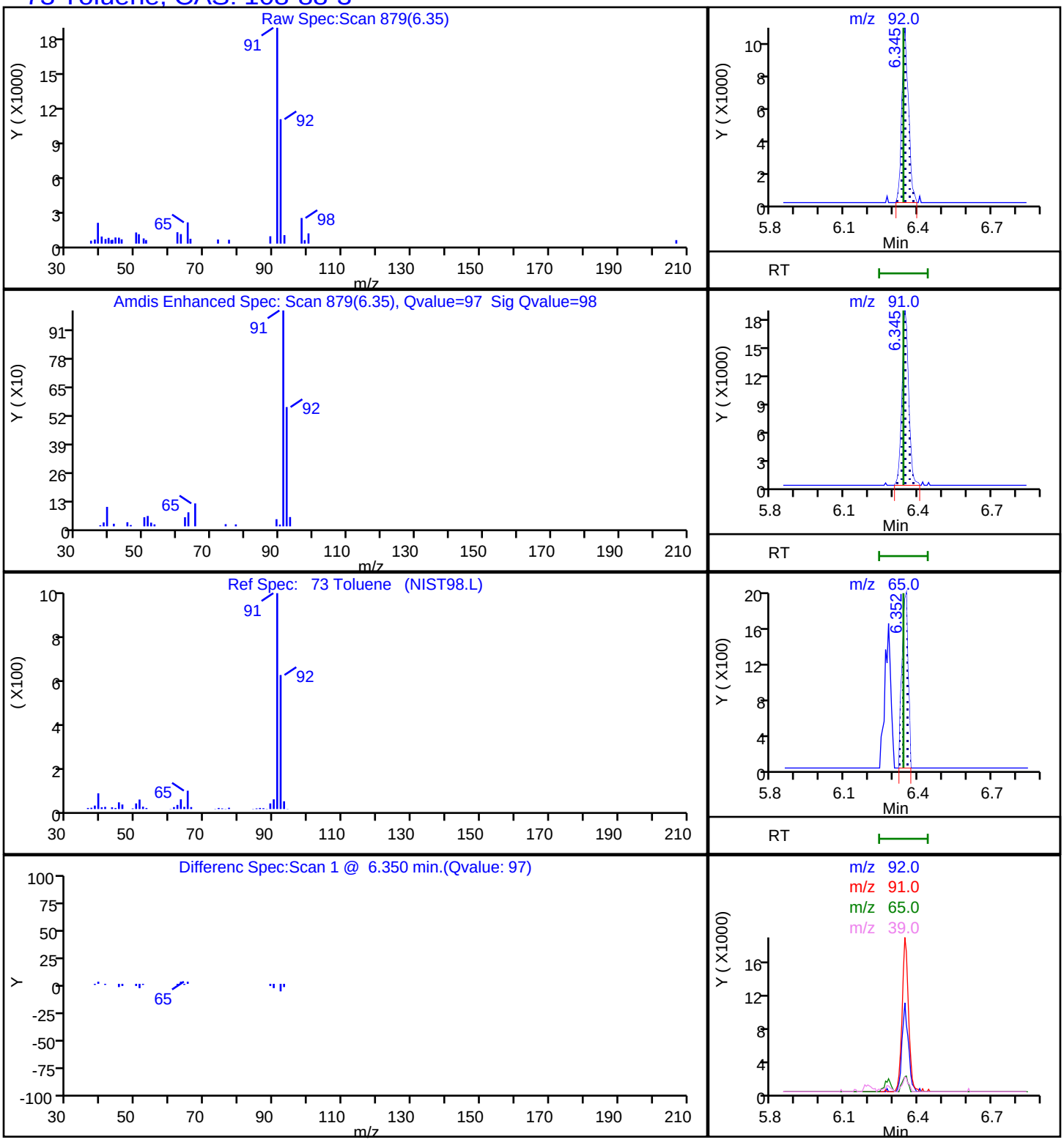


Report Date: 31-Dec-2021 10:06:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X26.D				
Injection Date:	31-Dec-2021 00:28:30	Instrument ID:	15648		
Lims ID:	410-68043-C-17	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	sej02002	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

73 Toluene, CAS: 108-88-3



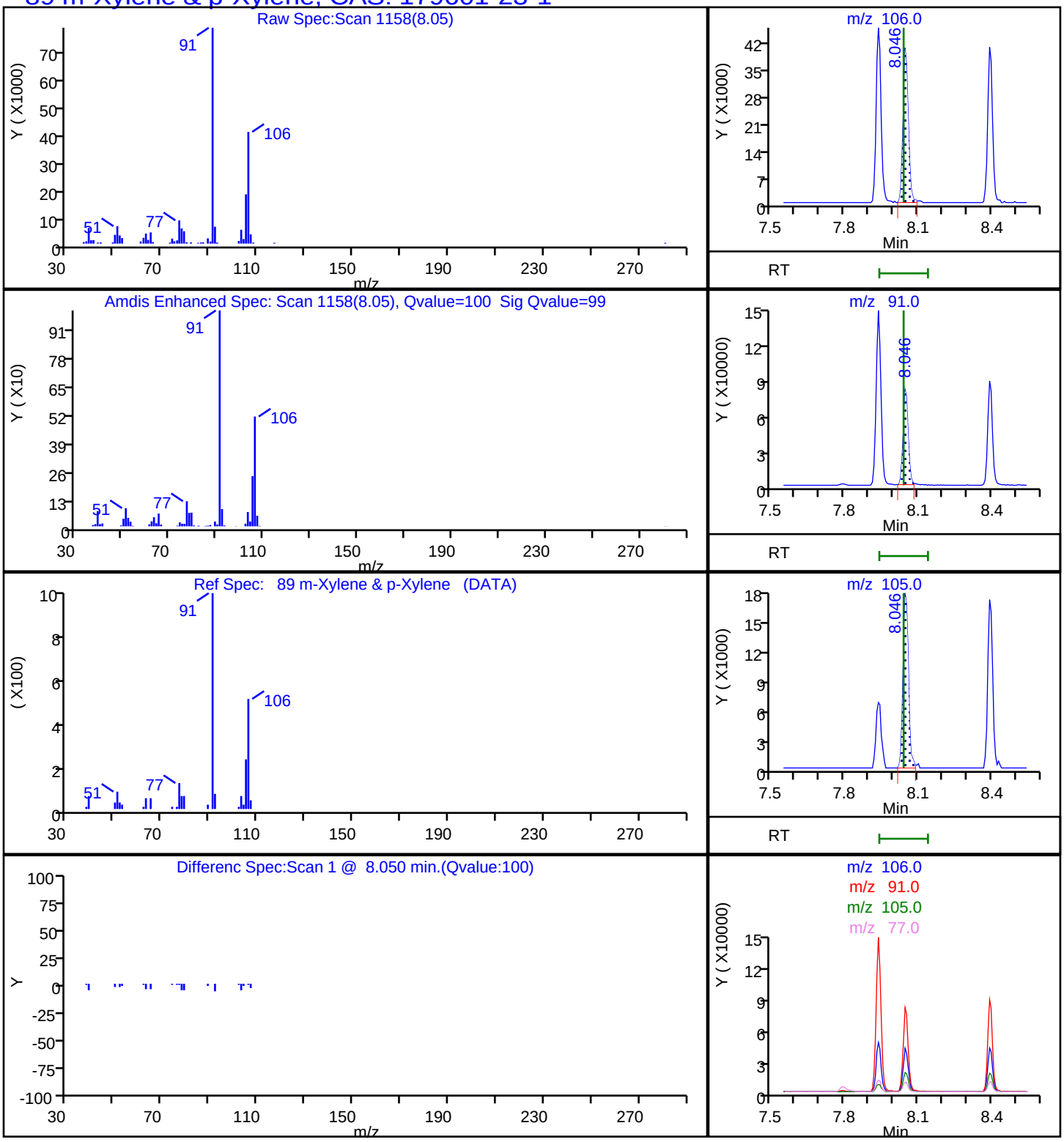
Report Date: 31-Dec-2021 10:06:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X26.D

Injection Date:	31-Dec-2021 00:28:30	Instrument ID:	15648		
Lims ID:	410-68043-C-17	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	sej02002	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

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



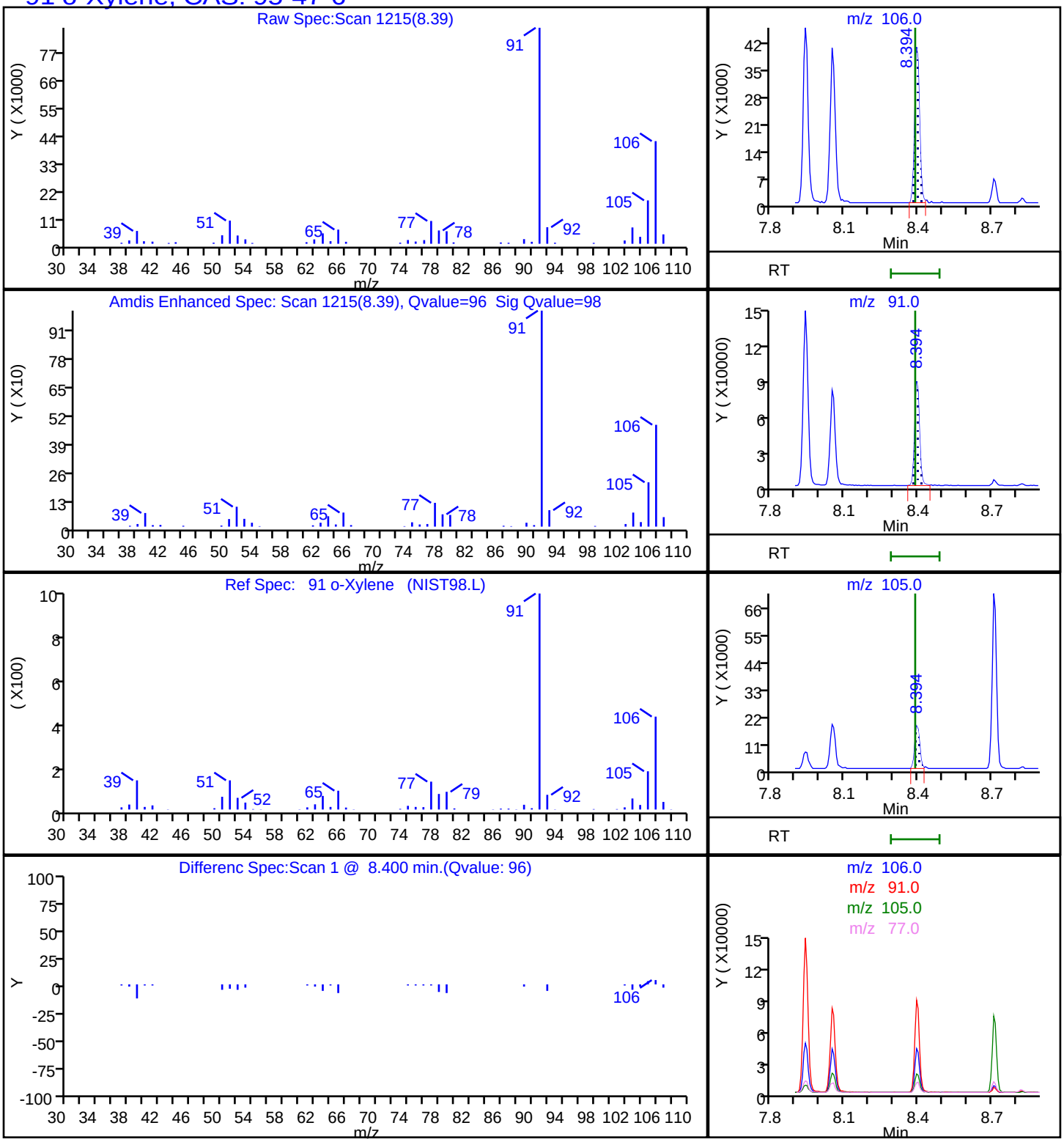
Report Date: 31-Dec-2021 10:06:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X26.D

Injection Date:	31-Dec-2021 00:28:30	Instrument ID:	15648
Lims ID:	410-68043-C-17	Lab Sample ID:	410-68043-17
Client ID:	MW-3-20211222		
Operator ID:	sej02002	ALS Bottle#:	26 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-13S-20211222 Lab Sample ID: 410-68043-18

Matrix: Ground Water Lab File ID: ED30X27.D

Analysis Method: 8260C Date Collected: 12/22/2021 11:32

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2021 00:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X27.D
Lims ID: 410-68043-C-18
Client ID: MW-13S-20211222
Sample Type: Client
Inject. Date: 31-Dec-2021 00:48:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-028
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: beckerk Date: 31-Dec-2021 10:05:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.413	2.395	0.018	16	198818	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	7
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	305828	49.0	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	75	346370	45.3	
52 Benzene	78	4.358	4.346	0.012	89	11462	0.2776	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1380705	50.0	
$ 72 Toluene-d8 (Surr)	98	6.278	6.266	0.012	93	1357465	49.5	
73 Toluene	92	6.352	6.340	0.012	96	3710	0.1405	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1035808	50.0	
88 Ethylbenzene	91	7.937	7.931	0.006	97	6453	0.1298	
89 m-Xylene & p-Xylene	106		8.040				ND	7
91 o-Xylene	106		8.388				ND	7
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	500045	47.9	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	554230	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

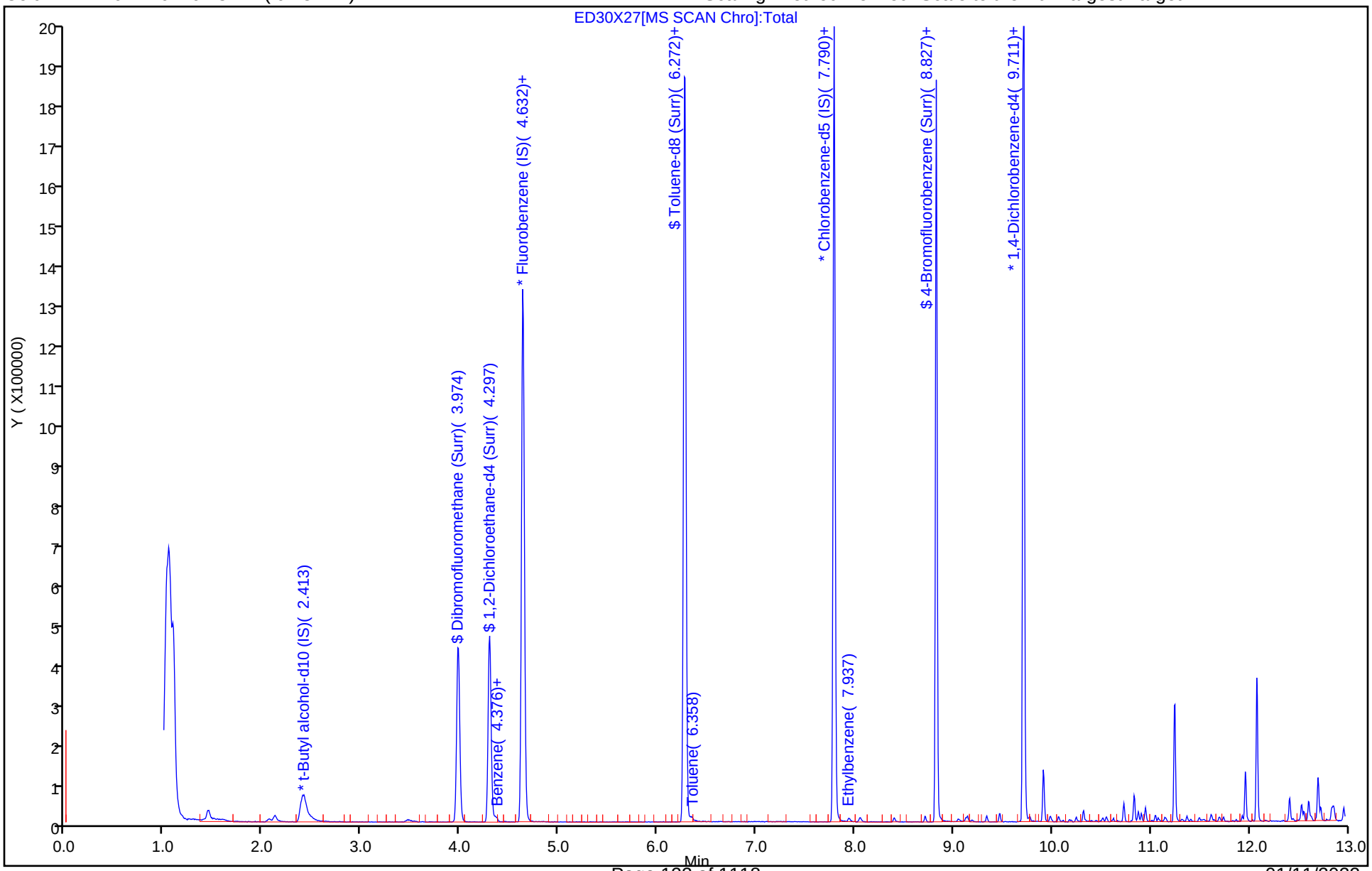
Report Date: 31-Dec-2021 10:06:01 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X27.D

Injection Date:	31-Dec-2021 00:48:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-18	Lab Sample ID:	410-68043-18	Worklist Smp#:	28
Client ID:	MW-13S-20211222				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-13D-20211222 Lab Sample ID: 410-68043-19

Matrix: Ground Water Lab File ID: ED30X28.D

Analysis Method: 8260C Date Collected: 12/22/2021 12:10

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2021 01:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X28.D
Lims ID: 410-68043-C-19
Client ID: MW-13D-20211222
Sample Type: Client
Inject. Date: 31-Dec-2021 01:08:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-029
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.395	2.395	0.000	25	201064	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.968	3.968	0.000	94	310443	48.8	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	75	363425	46.7	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.626	4.626	0.000	99	1407328	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1393498	50.2	
73 Toluene	92		6.340				ND	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1048796	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	506019	47.9	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	554791	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

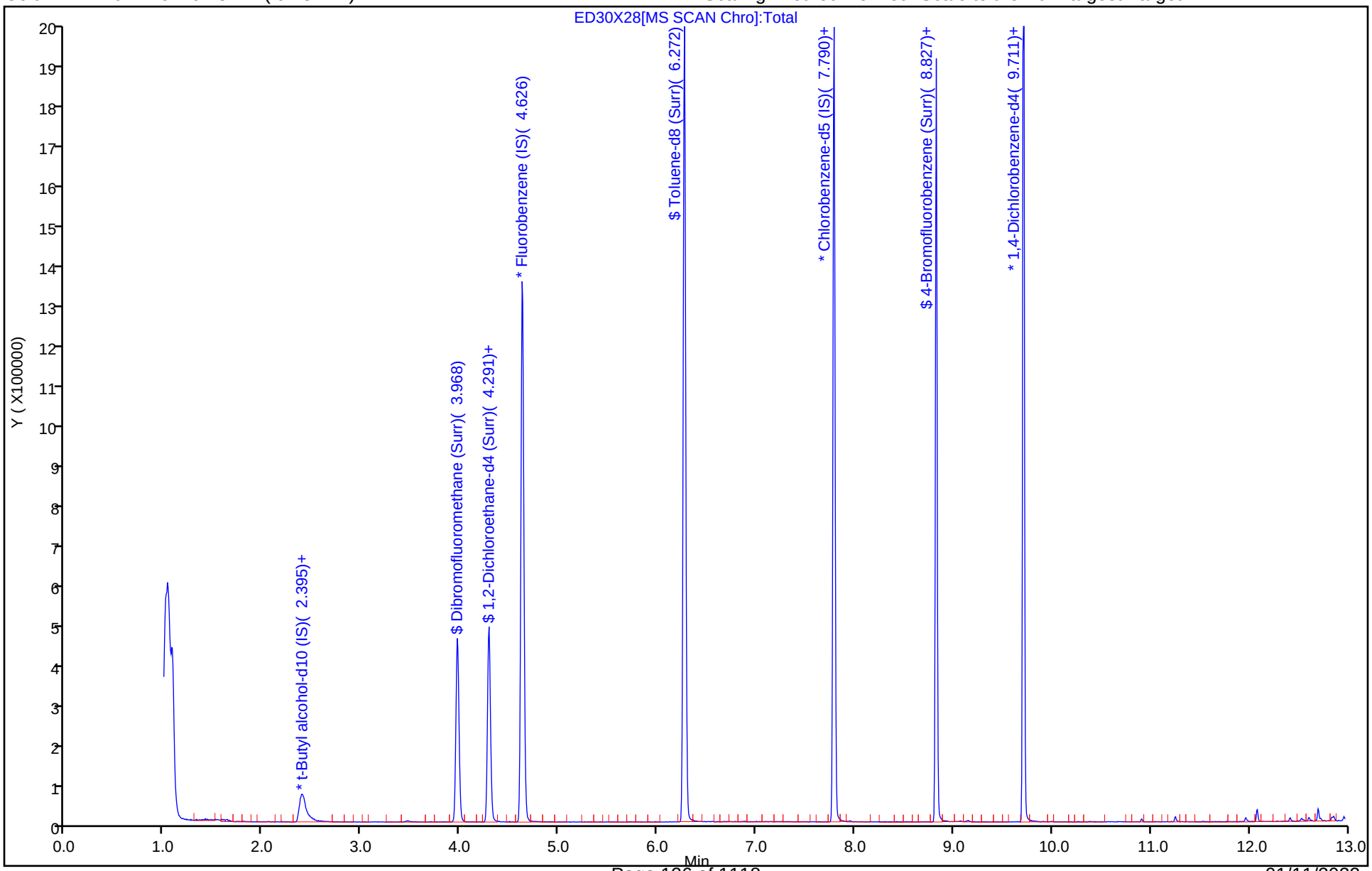
Report Date: 31-Dec-2021 10:06:02 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X28.D

Injection Date:	31-Dec-2021 01:08:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-19	Lab Sample ID:	410-68043-19	Worklist Smp#:	29
Client ID:	MW-13D-20211222				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Dup-20211222 Lab Sample ID: 410-68043-20

Matrix: Ground Water Lab File ID: ED30X29.D

Analysis Method: 8260C Date Collected: 12/22/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2021 01:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.58	J	1.0	0.30
100-41-4	Ethylbenzene	3.9		1.0	0.40
108-88-3	Toluene	0.69	J	1.0	0.20
1330-20-7	Xylenes, Total	5.7		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X29.D
Lims ID: 410-68043-C-20
Client ID: Dup-20211222
Sample Type: Client
Inject. Date: 31-Dec-2021 01:29:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-030
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 23:49:10 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: beckerk Date: 31-Dec-2021 10:05:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	17	209409	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	7
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	93	322028	50.3	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	74	361774	46.2	
52 Benzene	78	4.358	4.346	0.012	92	24741	0.5845	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1415335	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1407685	50.7	
73 Toluene	92	6.345	6.340	0.005	98	18436	0.6886	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1050270	50.0	
88 Ethylbenzene	91	7.937	7.931	0.006	97	194210	3.85	
89 m-Xylene & p-Xylene	106	8.046	8.040	0.006	100	56325	2.89	
91 o-Xylene	106	8.394	8.388	0.006	96	54097	2.84	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	517105	48.9	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	572415	50.0	
S 125 Xylenes, Total	106				0		5.73	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

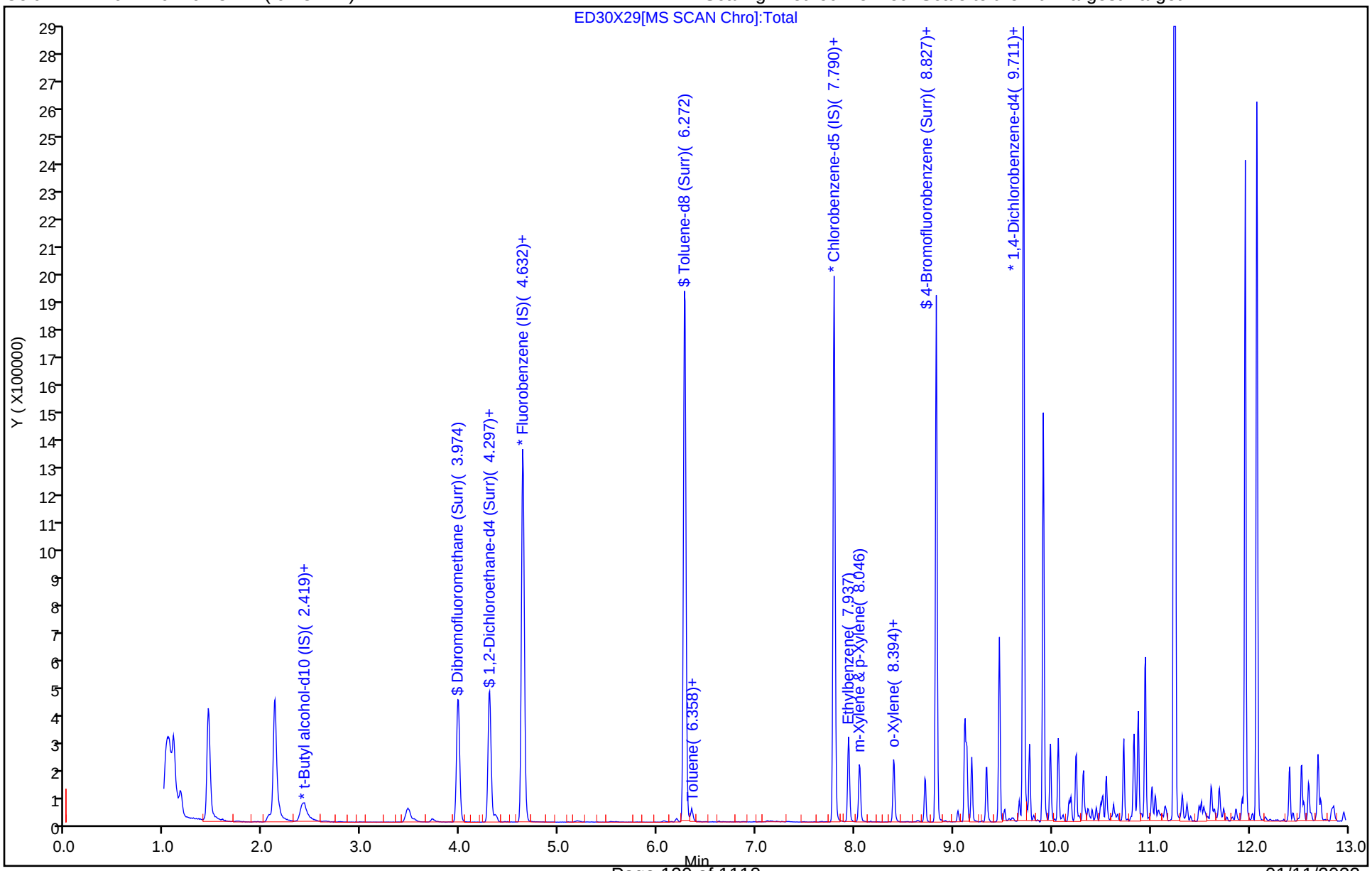
Report Date: 31-Dec-2021 10:06:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X29.D

Injection Date:	31-Dec-2021 01:29:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-20	Lab Sample ID:	410-68043-20	Worklist Smp#:	30
Client ID:	Dup-20211222				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

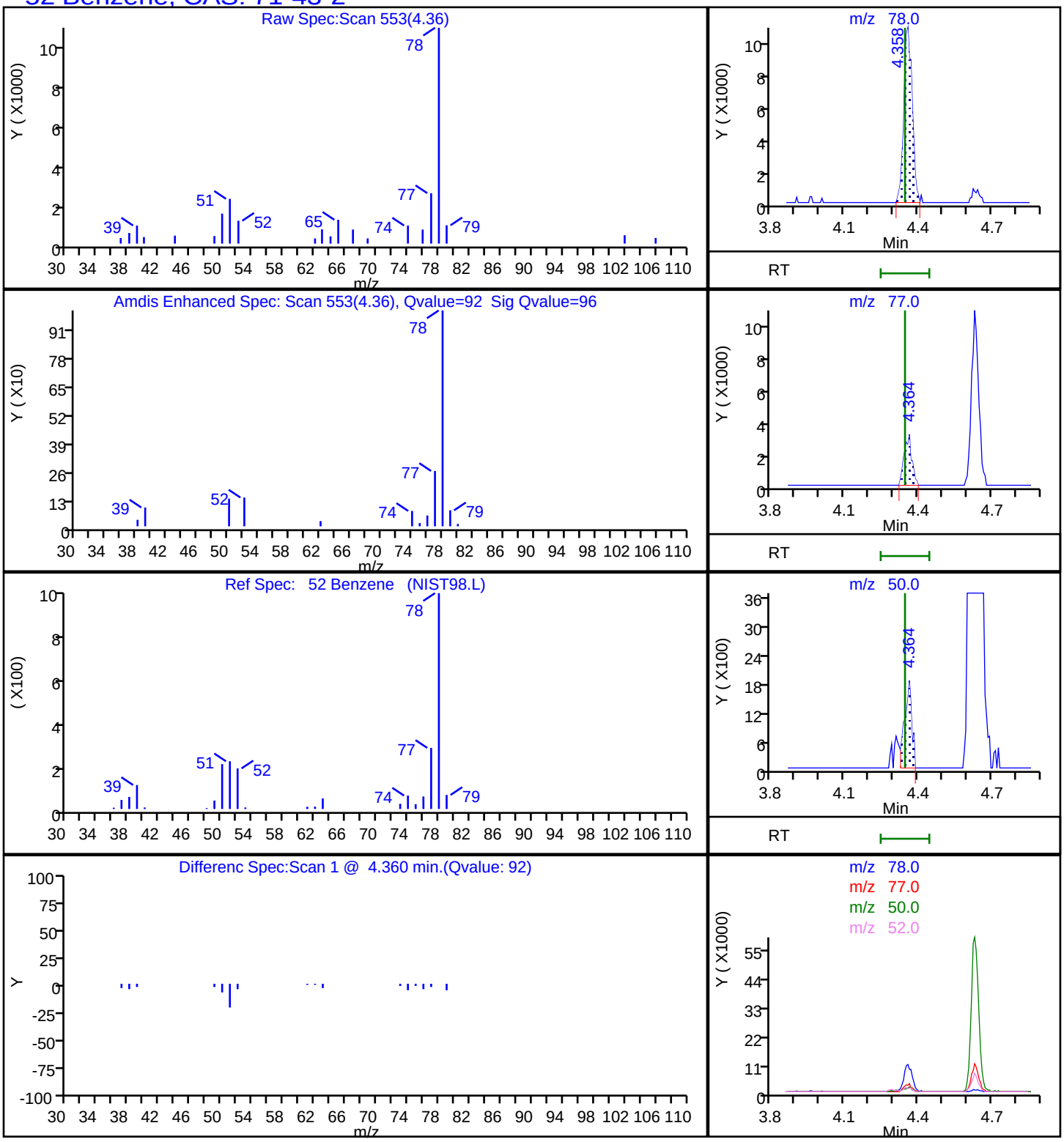
Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X29.D		
Injection Date:	31-Dec-2021 01:29:30	Instrument ID:	15648
Lims ID:	410-68043-C-20	Lab Sample ID:	410-68043-20
Client ID:	Dup-20211222		
Operator ID:	sej02002	ALS Bottle#:	29 Worklist Smp#: 30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad

52 Benzene, CAS: 71-43-2



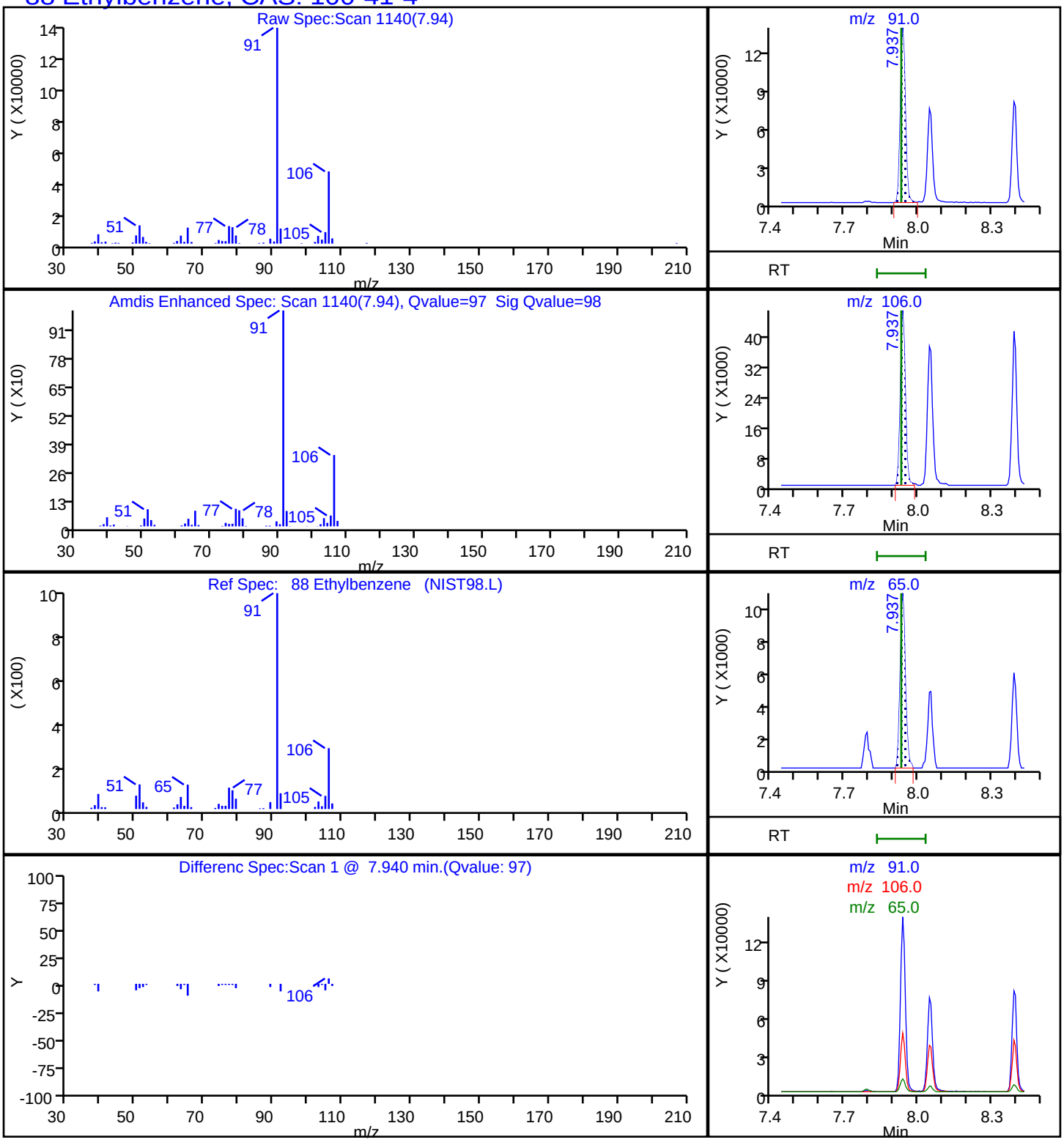
Report Date: 31-Dec-2021 10:06:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X29.D

Injection Date:	31-Dec-2021 01:29:30	Instrument ID:	15648
Lims ID:	410-68043-C-20	Lab Sample ID:	410-68043-20
Client ID:	Dup-20211222		
Operator ID:	sej02002	ALS Bottle#:	29 Worklist Smp#: 30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad

88 Ethylbenzene, CAS: 100-41-4

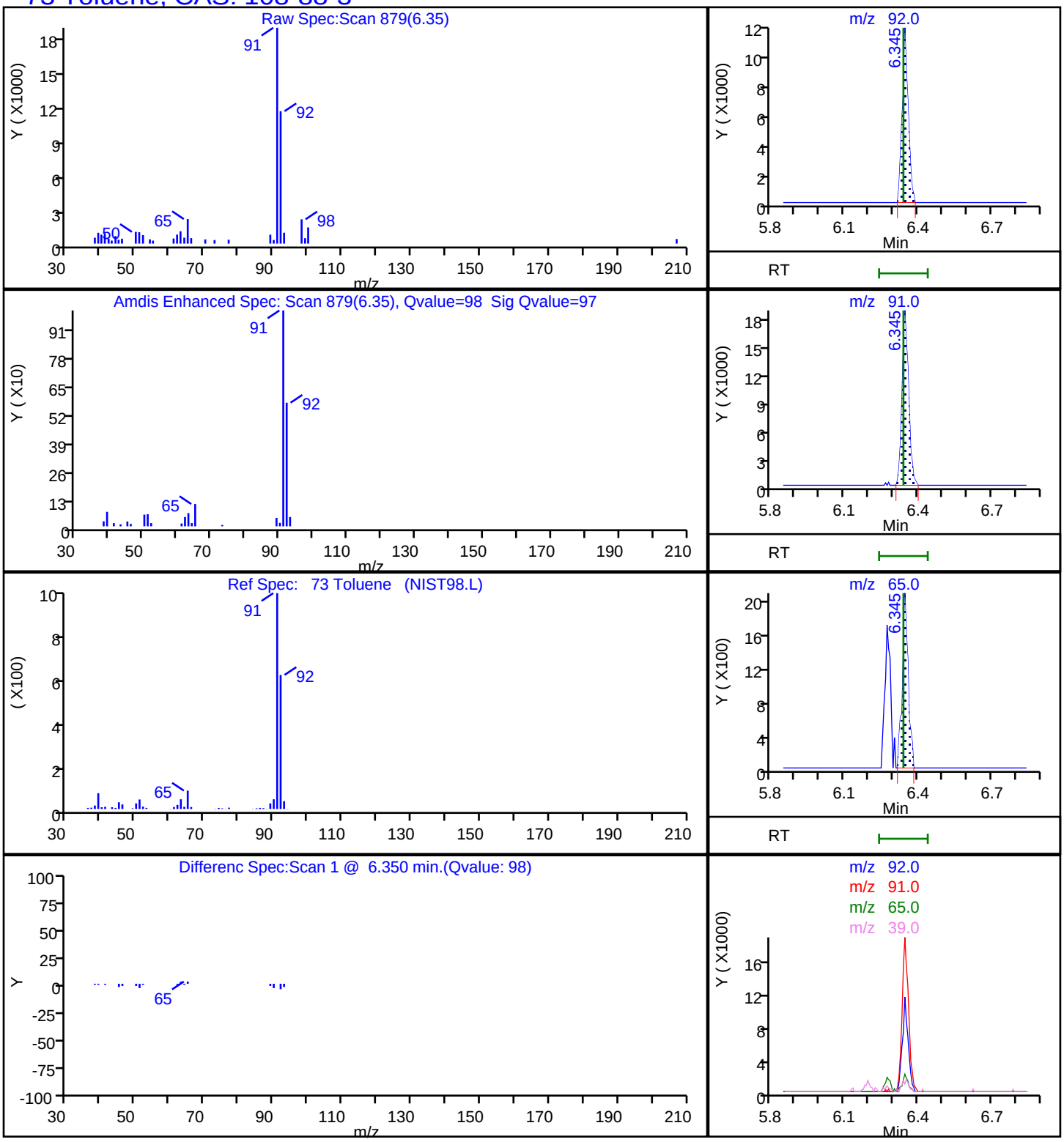


Report Date: 31-Dec-2021 10:06:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X29.D				
Injection Date:	31-Dec-2021 01:29:30	Instrument ID:	15648		
Lims ID:	410-68043-C-20	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	sej02002	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

73 Toluene, CAS: 108-88-3

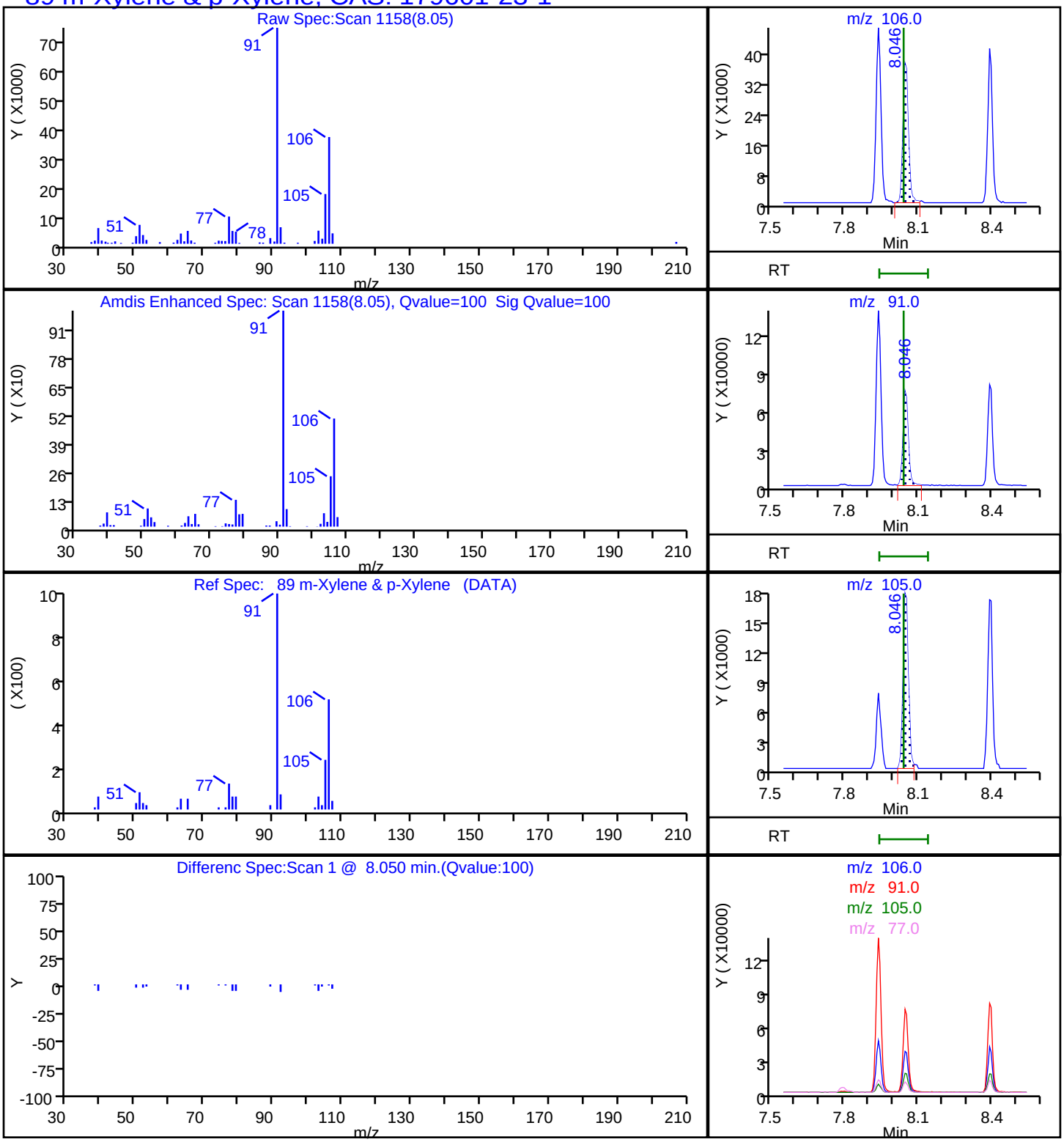


Report Date: 31-Dec-2021 10:06:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X29.D				
Injection Date:	31-Dec-2021 01:29:30	Instrument ID:	15648		
Lims ID:	410-68043-C-20	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	sej02002	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

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

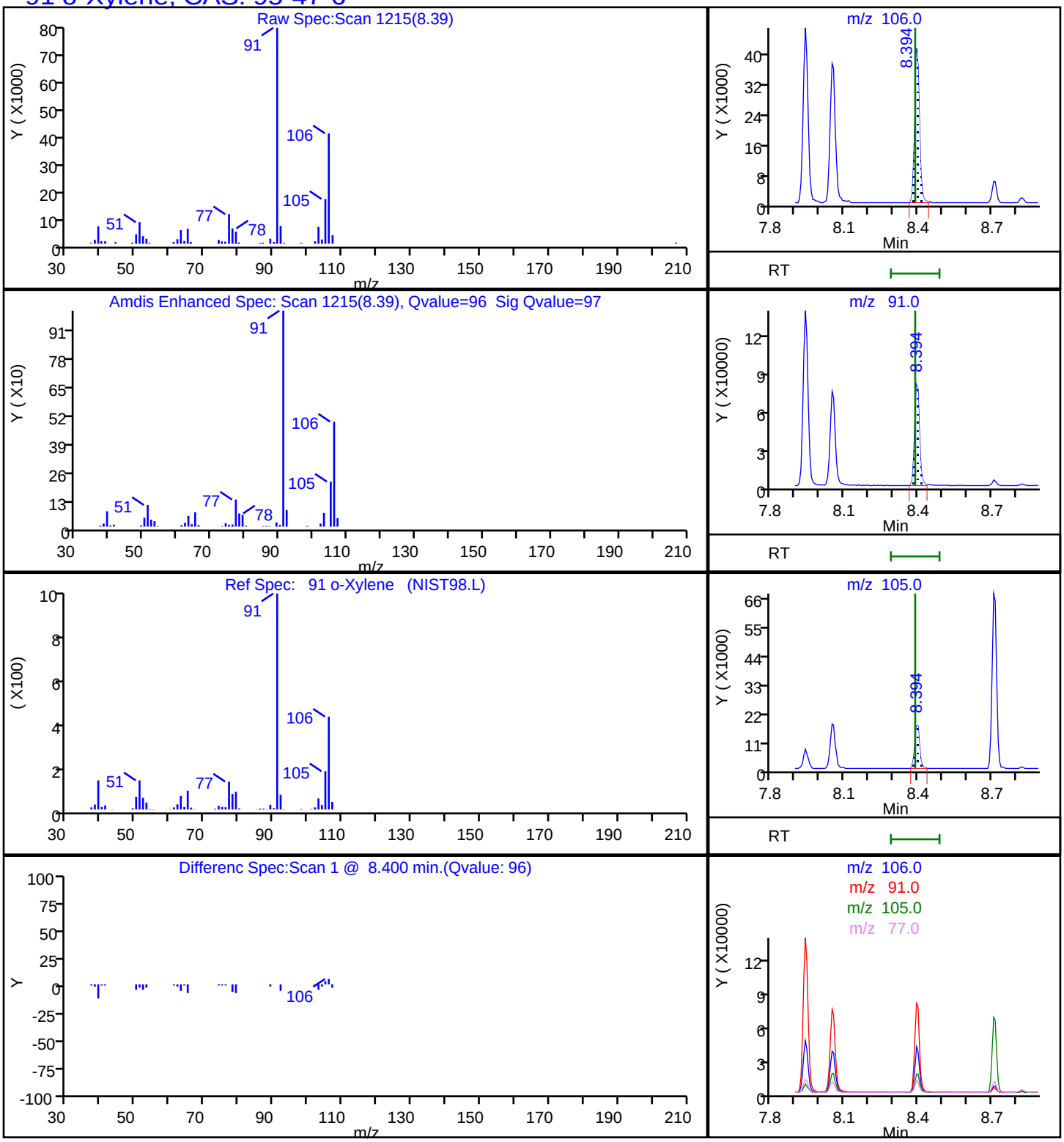


Report Date: 31-Dec-2021 10:06:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X29.D				
Injection Date:	31-Dec-2021 01:29:30	Instrument ID:	15648		
Lims ID:	410-68043-C-20	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	sej02002	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: TB-20211222 Lab Sample ID: 410-68043-21

Matrix: Water Lab File ID: ED30X07.D

Analysis Method: 8260C Date Collected: 12/22/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 18:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X07.D
Lims ID: 410-68043-A-21
Client ID: TB-20211222
Sample Type: Client
Inject. Date: 30-Dec-2021 18:04:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-008
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:27:42 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.407	2.395	0.012	17	208966	250.0	
28 Methyl tert-butyl ether	73		2.621				ND	
$ 45 Dibromofluoromethane (Surr)	113	3.980	3.968	0.012	94	322693	49.2	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	75	374139	46.6	
52 Benzene	78		4.346				ND	
* 55 Fluorobenzene (IS)	96	4.639	4.626	0.013	99	1451265	50.0	
$ 72 Toluene-d8 (Surr)	98	6.279	6.266	0.012	93	1434734	50.1	
73 Toluene	92		6.340				ND	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1081465	50.0	
88 Ethylbenzene	91		7.931				ND	
89 m-Xylene & p-Xylene	106		8.040				ND	
91 o-Xylene	106		8.388				ND	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	90	524769	48.2	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	572942	50.0	
S 125 Xylenes, Total	106		11.245				ND	7

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

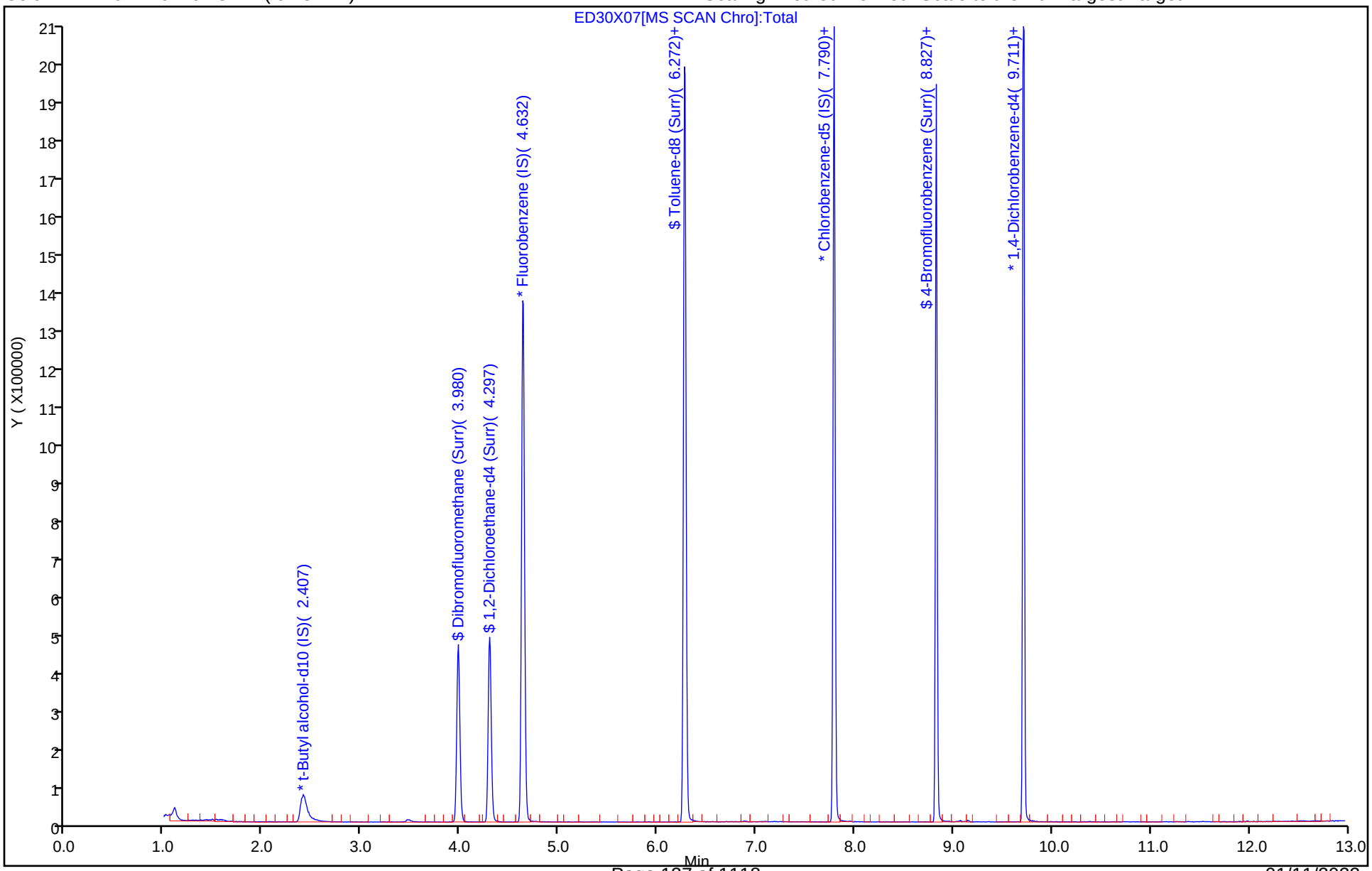
MSV_Cent_ISSS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 30-Dec-2021 19:28:29 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X07.D				
Injection Date:	30-Dec-2021 18:04:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-A-21	Lab Sample ID:	410-68043-21	Worklist Smp#:	8
Client ID:	TB-20211222				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-179603/17	EC06X17.D
Level 2	IC 410-179603/16	EC06X16.D
Level 3	IC 410-179603/15	EC06X15.D
Level 4	IC 410-179603/14	EC06X14.D
Level 5	ICIS 410-179603/13	EC06X13.D
Level 6	IC 410-179603/12	EC06X12.D
Level 7	IC 410-179603/11	EC06X11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4111 0.4308	0.4645 0.4104	0.4445	0.4738	0.4404	Ave		0.4394			0.1000	5.5		20.0			
Chloromethane	0.4729 0.4815	0.5399 0.4402	0.5025	0.4973	0.4986	Ave		0.4904			0.1000	6.2		20.0			
1,3-Butadiene	0.6170 0.4551	0.5119 0.4401	0.5195	0.5074	0.4622	Ave		0.5019				11.9		20.0			
Vinyl chloride	0.4426 0.4770	0.5210 0.4453	0.5061	0.5172	0.4791	Ave		0.4841			0.1000	6.7		20.0			
Bromomethane	0.3220 0.3060	0.3535 0.2801	0.3412	0.3319	0.3072	Ave		0.3203			0.1000	7.7		20.0			
Chloroethane	0.2794 0.2748	0.3038 0.2550	0.3034	0.3030	0.2772	Ave		0.2852			0.1000	6.6		20.0			
Dichlorofluoromethane	0.6801 0.6332	0.7091 0.5980	0.7129	0.6947	0.6275	Ave		0.6651			0.1000	6.8		20.0			
Trichlorofluoromethane	0.5802 0.5818	0.6601 0.5661	0.6345	0.6471	0.5959	Ave		0.6094			0.1000	6.1		20.0			
n-Pentane	0.5884 0.6097	0.6171 0.6098	0.5987	0.6204	0.6265	Ave		0.6101				2.1		20.0			
Ethyl ether	0.3063 0.3173	0.3101 0.2906	0.3154	0.3182	0.3126	Ave		0.3101				3.1		20.0			
Freon 123a	0.4449 0.4218	0.4797 0.4055	0.4764	0.4701	0.4236	Ave		0.4460				6.7		20.0			
Acrolein	3.2576 2.9247	3.2236 2.7282	3.1141	3.0063	2.8573	Ave		3.0160				6.5		20.0			
1,1-Dichloroethene	0.3130 0.3093	0.3162 0.3037	0.3208	0.3217	0.3176	Ave		0.3146			0.1000	2.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	1.4143 1.2625	1.4574 1.2121	1.2803	1.3671	1.2139	Ave		1.3154			0.1000	7.5		20.0			
Freon 113	0.2880 0.3312	0.3430 0.3285	0.3285	0.3454	0.3441	Ave		0.3298			0.1000	6.0		20.0			
2-Propanol	0.9569 0.8502	0.8166 0.7727	0.8461	0.7923	0.8085	Ave		0.8347				7.2		20.0			
Methyl iodide	0.5225 0.5394	0.5451 0.5167	0.5594	0.5514	0.5480	Ave		0.5403				2.9		20.0			
Carbon disulfide	0.9565 0.9363	0.9951 0.9063	0.9788	0.9648	0.9538	Ave		0.9560			0.1000	3.0		20.0			
Allyl chloride	0.5522 0.5778	0.6006 0.5625	0.5777	0.5837	0.5848	Ave		0.5771				2.7		20.0			
Methyl acetate	0.3192 0.3124	0.3075 0.3000	0.2996	0.3098	0.3077	Ave		0.3080			0.1000	2.2		20.0			
Methylene Chloride	0.3450 0.3357	0.3478 0.3228	0.3493	0.3497	0.3396	Ave		0.3414			0.1000	2.8		20.0			
t-Butyl alcohol	1.5724 1.5447	1.5245 1.4110	1.5307	1.5312	1.4835	Ave		1.5140				3.5		20.0			
Acrylonitrile	0.1576 0.1636	0.1507 0.1563	0.1620	0.1605	0.1624	Ave		0.1590				2.8		20.0			
trans-1,2-Dichloroethene	0.3661 0.3454	0.3640 0.3294	0.3543	0.3542	0.3521	Ave		0.3522			0.1000	3.5		20.0			
Methyl tertiary butyl ether	1.1151 1.0838	1.0787 1.0260	1.0898	1.0859	1.0824	Ave		1.0802			0.1000	2.5		20.0			
n-Hexane	0.4889 0.5506	0.5280 0.5603	0.5252	0.5530	0.5615	Ave		0.5382				4.9		20.0			
1,1-Dichloroethane	0.6290 0.6340	0.6560 0.6137	0.6506	0.6413	0.6397	Ave		0.6378			0.2000	2.2		20.0			
di-Isopropyl ether	1.1134 1.1478	1.1306 1.0977	1.1367	1.1525	1.1504	Ave		1.1327				1.8		20.0			
2-Chloro-1,3-butadiene	0.5079 0.5729	0.5728 0.5668	0.5651	0.5790	0.5767	Ave		0.5630				4.4		20.0			
Ethyl t-butyl ether	1.0957 1.1131	1.0907 1.0536	1.1119	1.1247	1.1117	Ave		1.1002				2.1		20.0			
cis-1,2-Dichloroethene	0.3940 0.3725	0.3849 0.3569	0.3800	0.3797	0.3771	Ave		0.3779			0.1000	3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Butanone	0.1989 0.2101	0.2031 0.2063	0.2050	0.2178	0.2032	Ave		0.2063			0.1000	2.9		20.0			
2,2-Dichloropropane	0.4980 0.5482	0.5630 0.5422	0.5566	0.5567	0.5569	Ave		0.5459				4.1		20.0			
Propionitrile	2.0036 1.9438	1.9689 1.8686	2.0150	1.9847	1.9756	Ave		1.9657				2.5		20.0			
Methacrylonitrile	0.1745 0.1863	0.1759 0.1810	0.1851	0.1879	0.1850	Ave		0.1822				2.9		20.0			
Bromochloromethane	0.1825 0.1700	0.1728 0.1603	0.1704	0.1722	0.1697	Ave		0.1711				3.8		20.0			
Tetrahydrofuran	1.7707 1.7398	1.7601 1.6272	1.7802	1.7315	1.7214	Ave		1.7330				3.0		20.0			
Chloroform	0.5495 0.5955	0.6038 0.5715	0.6095	0.6023	0.6015	Ave		0.5905			0.2000	3.7		20.0			
1,1,1-Trichloroethane	0.5415 0.5482	0.5692 0.5405	0.5646	0.5601	0.5577	Ave		0.5545			0.1000	2.0		20.0			
Cyclohexane	0.6261 0.6790	0.6854 0.6803	0.6677	0.6968	0.6934	Ave		0.6755			0.1000	3.5		20.0			
1,1-Dichloropropene	0.4635 0.4994	0.5092 0.4952	0.5083	0.5088	0.5107	Ave		0.4993				3.4		20.0			
Carbon tetrachloride	0.3868 0.4594	0.4529 0.4558	0.4604	0.4614	0.4683	Ave		0.4493			0.1000	6.2		20.0			
Isobutyl alcohol	0.4914 0.4793	0.4589 0.4606	0.4574	0.4742	0.4666	Ave		0.4698				2.7		20.0			
Benzene	1.4312 1.4963	1.5376 1.4500	1.5133	1.5193	1.5195	Ave		1.4953			0.5000	2.7		20.0			
1,2-Dichloroethane	0.5177 0.4511	0.4605 0.4375	0.4692	0.4537	0.4499	Ave		0.4628			0.1000	5.6		20.0			
t-Amyl methyl ether	1.0411 1.0925	1.0543 1.0348	1.0891	1.0888	1.0830	Ave		1.0691				2.3		20.0			
n-Heptane	0.4820 0.5363	0.4933 0.5615	0.4950	0.5294	0.5395	Ave		0.5196				5.7		20.0			
n-Butanol	0.3960 0.4012	0.3531 0.3883	0.3739	0.3869	0.3945	Ave		0.3849				4.3		20.0			
Trichloroethene	0.3548 0.3732	0.3810 0.3689	0.3827	0.3860	0.3792	Ave		0.3751			0.2000	2.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.6466 0.6950	0.6764 0.7014	0.6762	0.6989	0.7082	Ave		0.6861			0.1000	3.1		20.0			
1,2-Dichloropropane	0.3409 0.3746	0.3608 0.3645	0.3679	0.3756	0.3727	Ave		0.3653			0.1000	3.3		20.0			
t-Amyl ethyl ether	0.5310 0.5652	0.5487 0.5480	0.5609	0.5724	0.5775	Ave		0.5577				2.9		20.0			
Dibromomethane	0.2261 0.2156	0.2105 0.2064	0.2061	0.2154	0.2151	Ave		0.2136				3.2		20.0			
1,4-Dioxane	0.1574 0.1337	0.1213 0.1229	0.1367	0.1274	0.1354	Ave		0.1335			0.0050	9.1		20.0			
Methyl methacrylate	0.2563 0.3062	0.2586 0.2993	0.2803	0.2931	0.2972	Ave		0.2844				7.0		20.0			
Bromodichloromethane	0.4051 0.4436	0.4250 0.4303	0.4244	0.4307	0.4373	Ave		0.4281			0.2000	2.8		20.0			
2-Nitropropane	3.6980 3.6834	3.5246 3.5247	3.6072	3.5396	3.6496	Ave		3.6039				2.1		20.0			
2-Chloroethyl vinyl ether	0.2448 0.2669	0.2389 0.2596	0.2471	0.2604	0.2610	Ave		0.2541				4.1		20.0			
cis-1,3-Dichloropropene	0.5545 0.6030	0.5488 0.5825	0.5740	0.5827	0.5945	Ave		0.5772			0.2000	3.4		20.0			
4-Methyl-2-pentanone	0.4178 0.4571	0.4290 0.4448	0.4345	0.4534	0.4409	Ave		0.4396			0.1000	3.1		20.0			
Toluene	1.2001 1.2732	1.3076 1.2424	1.2989	1.3033	1.2959	Ave		1.2745			0.4000	3.1		20.0			
trans-1,3-Dichloropropene	0.6602 0.7370	0.6791 0.7201	0.6856	0.7130	0.7232	Ave		0.7026			0.1000	4.0		20.0			
Ethyl methacrylate	0.5989 0.7445	0.6264 0.7280	0.6669	0.7025	0.7343	Ave		0.6859				8.3		20.0			
1,1,2-Trichloroethane	0.3957 0.4259	0.4018 0.4112	0.4228	0.4326	0.4317	Ave		0.4174			0.1000	3.5		20.0			
Tetrachloroethene	0.4478 0.5037	0.5129 0.4980	0.5180	0.5129	0.5139	Ave		0.5010			0.2000	4.9		20.0			
1,3-Dichloropropane	0.7329 0.7493	0.7084 0.7224	0.7305	0.7320	0.7435	Ave		0.7313				1.8		20.0			
2-Hexanone	0.3656 0.4333	0.3972 0.4290	0.4125	0.4317	0.4183	Ave		0.4125			0.1000	5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromochloromethane	0.3919 0.4557	0.4032 0.4504	0.4223	0.4343	0.4473	Ave		0.4293				5.7		20.0			
1,2-Dibromoethane	0.4102 0.4513	0.4373 0.4384	0.4267	0.4424	0.4512	Ave		0.4368			0.1000	3.3		20.0			
Chlorobenzene	1.2543 1.3455	1.3654 1.3072	1.3554	1.3573	1.3741	Ave		1.3370			0.5000	3.2		20.0			
1-Chlorohexane	0.6547 0.7101	0.7244 0.7158	0.7144	0.7243	0.7307	Ave		0.7106				3.6		20.0			
1,1,1,2-Tetrachloroethane	0.4154 0.4545	0.4513 0.4464	0.4383	0.4480	0.4527	Ave		0.4438				3.1		20.0			
Ethylbenzene	2.2071 2.4778	2.3832 2.2415	2.4933	2.5064	2.4902	Ave		2.3999			0.1000	5.3		20.0			
m&p-Xylene	0.8478 0.9424	0.9293 0.9075	0.9491	0.9521	0.9629	Ave		0.9273			0.1000	4.2		20.0			
o-Xylene	0.8376 0.9164	0.9129 0.8875	0.9239	0.9360	0.9388	Ave		0.9076			0.3000	3.9		20.0			
Styrene	1.1905 1.5145	1.3065 1.4842	1.4011	1.4635	1.5164	Ave		1.4110			0.3000	8.7		20.0			
Bromoform	0.2486 0.3218	0.2585 0.3199	0.2778	0.2902	0.3167	Ave		0.2905			0.1000	10.4		20.0			
Isopropylbenzene	2.1127 2.4308	2.3805 2.1100	2.4281	2.4477	2.4715	Ave		2.3402			0.1000	6.8		20.0			
Cyclohexanone	0.5156 0.5864	0.4945 0.5888	0.5187	0.5562	0.5667	Ave		0.5467				6.8		20.0			
Bromobenzene	0.9160 0.9982	0.9710 0.9680	0.9888	1.0006	0.9955	Ave		0.9769				3.1		20.0			
1,1,2,2-Tetrachloroethane	1.1239 1.2584	1.1290 1.2139	1.1840	1.2199	1.2517	Ave		1.1973			0.3000	4.5		20.0			
1,2,3-Trichloropropane	0.3372 0.3613	0.3523 0.3459	0.3496	0.3589	0.3622	Ave		0.3525				2.6		20.0			
trans-1,4-Dichloro-2-butene	0.3324 0.4036	0.3554 0.3967	0.3720	0.3991	0.3944	Ave		0.3791				7.1		20.0			
N-Propylbenzene	4.5656 5.4885	5.4085 4.1430	5.3739	5.4784	5.5605	Ave		5.1455				10.8		20.0			
2-Chlorotoluene	0.9596 1.0493	1.0658 1.0262	1.0524	1.0386	1.0528	Ave		1.0350				3.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	3.2401 3.8429	3.6757 3.5214	3.6935	3.8035	3.8599	Ave		3.6624				6.0		20.0			
4-Chlorotoluene	0.9400 1.0580	1.0111 1.0228	1.0503	1.0726	1.0678	Ave		1.0318				4.5		20.0			
tert-Butylbenzene	0.7072 0.7984	0.7847 0.7981	0.7775	0.7964	0.8083	Ave		0.7815				4.4		20.0			
1,2,4-Trimethylbenzene	3.2862 3.8784	3.6132 3.4919	3.6966	3.8039	3.8813	Ave		3.6645				6.0		20.0			
sec-Butylbenzene	3.8826 4.7556	4.4926 3.9235	4.5924	4.7163	4.8500	Ave		4.4590				8.9		20.0			
1,3-Dichlorobenzene	1.8227 1.9500	1.9227 1.9017	1.9352	1.9392	1.9468	Ave		1.9169			0.6000	2.3		20.0			
p-Isopropyltoluene	3.2739 4.1033	3.8314 3.5571	3.9035	4.0352	4.1264	Ave		3.8330				8.2		20.0			
1,4-Dichlorobenzene	1.9973 1.9517	1.9355 1.9205	1.9058	1.9619	1.9589	Ave		1.9474			0.5000	1.5		20.0			
1,2,3-Trimethylbenzene	3.4342 3.9402	3.7092 3.4495	3.7759	3.8798	3.9061	Ave		3.7278				5.7		20.0			
Benzyl chloride	2.0416 2.7863	2.3042 2.7359	2.3984	2.5989	2.7044	Ave		2.5100				10.9		20.0			
1,3-Diethylbenzene	1.8999 2.4292	2.2079 2.4137	2.2998	2.3697	2.4487	Ave		2.2956				8.4		20.0			
1,4-Diethylbenzene	2.1018 2.5172	2.3069 2.4928	2.3543	2.4666	2.5459	Ave		2.3979				6.5		20.0			
1,2-Dichlorobenzene	1.7948 1.8595	1.8361 1.7840	1.8552	1.8728	1.8800	Ave		1.8404			0.4000	2.0		20.0			
n-Butylbenzene	1.5419 1.9910	1.8692 2.0187	1.8520	1.9490	2.0019	Ave		1.8891				8.8		20.0			
1,2-Diethylbenzene	1.6094 1.9942	1.8955 1.9986	1.9284	1.9803	2.0203	Ave		1.9181				7.4		20.0			
1,2-Dibromo-3-Chloropropane	0.2254 0.2763	0.2539 0.2785	0.2509	0.2650	0.2697	Ave		0.2600			0.0500	7.1		20.0			
1,3,5-Trichlorobenzene	1.2062 1.3070	1.2060 1.3407	1.2217	1.2862	1.3253	Ave		1.2704				4.6		20.0			
1,2,4-Trichlorobenzene	1.0559 1.2087	1.1073 1.2306	1.1490	1.1813	1.2123	Ave		1.1636			0.2000	5.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.4163 0.4580	0.4172 0.4797	0.4229	0.4476	0.4631	Ave		0.4435				5.7		20.0			
Naphthalene	3.9328 4.3143	3.8052 3.5937	4.0361	4.2645	4.2744	Ave		4.0316				6.8		20.0			
1,2,3-Trichlorobenzene	1.0460 1.1643	1.0831 1.1549	1.1041	1.1527	1.1658	Ave		1.1244				4.2		20.0			
2-Methylnaphthalene	1.9734 2.4012	1.8715 2.1926	2.0395	2.2145	2.3536	Ave		2.1495				9.1		20.0			
Dibromofluoromethane (Surr)	0.2252 0.2276	0.2242 0.2283	0.2255	0.2265	0.2255	Ave		0.2261				0.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2787 0.2807	0.2759 0.2776	0.2770	0.2739	0.2733	Ave		0.2767				0.9		20.0			
Toluene-d8 (Surr)	1.3165 1.3253	1.3146 1.3266	1.3263	1.3222	1.3295	Ave		1.3230				0.4		20.0			
4-Bromofluorobenzene (Surr)	0.4988 0.5013	0.5073 0.5087	0.4989	0.5060	0.5055	Ave		0.5038				0.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-179603/17	EC06X17.D
Level 2	IC 410-179603/16	EC06X16.D
Level 3	IC 410-179603/15	EC06X15.D
Level 4	IC 410-179603/14	EC06X14.D
Level 5	ICIS 410-179603/13	EC06X13.D
Level 6	IC 410-179603/12	EC06X12.D
Level 7	IC 410-179603/11	EC06X11.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	10482 1122144	48611 3324158	114602	240246	569846	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	12057 1254369	56499 3564815	129561	252139	645145	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	15731 1185555	53578 3564356	133955	257248	598055	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	11285 1242679	54525 3606662	130477	262246	619920	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	8209 797156	36998 2268363	87985	168266	397462	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	7124 715865	31798 2065283	78230	153626	358708	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	17339 1649458	74212 4842934	183819	352218	811869	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	14792 1515492	69079 4584608	163597	328067	770979	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	15001 1588298	64584 4938521	154363	314555	810581	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	7810 826764	32456 2353879	81319	161349	404505	1.00 100	4.00 300	10.0	20.0	50.0
Freon 123a	FB	Ave	11342 1098731	50207 3284096	122842	238338	548030	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd 10	Ave	25311 2496377	102599 7414028	254578	501298	1218952	10.0 1002	40.1 3007	100	200	501
1,1-Dichloroethene	FB	Ave	7979 805647	33093 2459526	82701	163114	410927	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
Acetone	TBAd10	Ave	2193 215044	9257 657359	20887	45493	103348	2.00 200	8.00 600	20.0	40.0	100
Freon 113	FB	Ave	7342 862903	35901 2660396	84688	175119	445244	1.00 100	4.00 300	10.0	20.0	50.0
2-Propanol	TBAd10	Ave	14837 362040	51865 1047638	69018	131826	172074	20.0 500	80.0 1500	100	200	250
Methyl iodide	FB	Ave	13321 1405149	57044 4185148	144225	279578	708979	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	24387 2439188	104144 7340414	252364	489172	1234039	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	14079 1505216	62856 4556049	148958	295930	756629	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	8137 813854	32183 2429480	77240	157076	398147	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	8797 874614	36400 2614580	90074	177327	439423	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	24382 657774	96831 1913016	124865	254773	315758	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	10043 1065172	39434 3165459	104449	203470	525161	2.50 250	10.0 750	25.0	50.0	125
trans-1,2-Dichloroethene	FB	Ave	9334 899766	38094 2667980	91358	179575	455550	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tertiary butyl ether	FB	Ave	28431 2823231	112890 8309570	280981	550583	1400419	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	12464 1434287	55258 4537906	135424	280396	726543	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	16037 1651594	68653 4970490	167753	325172	827616	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	28386 2990026	118320 8889973	293074	584321	1488486	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	12949 1492515	59945 4590749	145711	293539	746107	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	27934	114151	286693	570241	1438367	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
			2899723	8533570				100	300			
cis-1,2-Dichloroethene	FB	Ave	10045 970343	40284 2890187	97968	192527	487916	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	10142 1094513	42516 3341006	105721	220848	525883	2.00 200	8.00 600	20.0	40.0	100
2,2-Dichloropropane	FB	Ave	12696 1428092	58918 4390959	143510	282229	720517	1.00 100	4.00 300	10.0	20.0	50.0
Propionitrile	TBAd 10	Ave	31068 827757	125055 2533401	164369	330221	420486	20.0 500	80.0 1500	100	200	250
Methacrylonitrile	FB	Ave	44483 1213328	184072 3665796	238636	476317	598449	10.0 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	4654 442939	18084 1298024	43938	87287	219526	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd 10	Ave	6864 740868	27949 2206177	72606	144045	366382	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Ave	14009 1551201	63195 4628446	157141	305372	778300	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	13806 1428038	59570 4377188	145582	283963	721585	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	15963 1768711	71735 5509848	172156	353295	897084	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	11818 1301064	53291 4010655	131068	257993	660745	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	9861 1196829	47401 3691536	118705	233918	605862	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd 10	Ave	19050 510214	72873 1561029	93281	197253	248255	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	36488 3898009	160920 11743853	390187	770316	1966013	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	13199 1175043	48189 3543377	120983	230049	582137	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	26544 2846046	110338 8380740	280818	552011	1401209	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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-Heptane	FB	Ave	12289 1397008	51628 4547528	127620	268405	697997	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd 10	Ave	26865 427089	98121 1316268	114379	241434	209933	87.5 1250	350 3750	375	750	625
Trichloroethene	FB	Ave	9047 972290	39869 2987552	98662	195702	490654	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	16484 1810380	70793 5680827	174352	354340	916240	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	8692 975953	37756 2951826	94846	190426	482214	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	13538 1472336	57423 4437955	144618	290231	747218	1.00 100	4.00 300	10.0	20.0	50.0
Dibromomethane	FB	Ave	5765 561577	22033 1671970	53146	109215	278310	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd 10	Ave	6103 142368	19267 416441	27873	52976	72030	50.0 1250	200 3750	250	500	625
Methyl methacrylate	FB	Ave	6534 797553	27065 2424250	72267	148593	384488	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	10329 1155710	44476 3484888	109426	218386	565798	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd 10	Ave	14335 1568513	55967 4778728	147125	294468	776791	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	6240 695242	25004 2102757	63719	132049	337655	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	14137 1570786	57440 4717713	148000	295459	769183	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	21303 2381540	89805 7205258	224054	459711	1140911	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd 5	Ave	22722 2465223	100576 7459850	247311	488753	1238183	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd 5	Ave	12500	52232	130539	267371	690995	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
			1426950	4323786				100	300			
Ethyl methacrylate	CBZd 5	Ave	11340 1441591	48183 4371322	126987	263454	701569	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd 5	Ave	7491 824604	30901 2468864	80504	162236	412417	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd 5	Ave	8479 975369	39449 2990209	98623	192346	490970	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd 5	Ave	13876 1450889	54483 4337741	139081	274522	710379	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd 5	Ave	13843 1678034	61097 5152107	157069	323813	799255	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd 5	Ave	7419 882449	31011 2704260	80410	162865	427323	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd 5	Ave	7767 873838	33633 2632068	81238	165897	431053	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd 5	Ave	23747 2605219	105020 7848882	258062	509001	1312855	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd 5	Ave	12395 1374878	55718 4298014	136019	271617	698111	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	7865 879981	34714 2680231	83455	168007	432558	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd 5	Ave	41786 4797630	183303 13458881	474717	939926	2379243	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd 5	Ave	32104	142946	361411	714106	1839888	2.00	8.00	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
			3649363	10897668				200	600			
o-Xylene	CBZd 5	Ave	15858 1774447	70216 5328541	175917	350998	896936	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd 5	Ave	22540 2932420	100488 8911730	266766	548818	1448833	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd 5	Ave	4706 623176	19882 1921040	52897	108842	302594	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd 5	Ave	39999 4706623	183096 12668824	462305	917903	2361391	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd 10	Ave	19989 624329	78522 1995715	105778	231378	301540	50.0 1250	200 3750	250	500	625
Bromobenzene	DCBd 4	Ave	9123 1012464	39487 3059179	99795	197434	500742	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	11194 1276356	45913 3836040	119497	240710	629622	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	3358 366438	14325 1093021	35288	70812	182178	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	33110 1023407	144548 3134314	187714	393716	495921	10.0 250	40.0 750	50.0	100	125
N-Propylbenzene	DCBd 4	Ave	45472 5566803	219948 13092730	542356	1080959	2797015	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	9557 1064236	43341 3243152	106214	204934	529586	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	32270	149479	372764	750476	1941619	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
			3897678	11128329				100	300			
4-Chlorotoluene	DCBd 4	Ave	9362 1073095	41119 3232202	106003	211634	537142	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	7044 809745	31910 2522279	78468	157142	406600	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	32730 3933688	146939 11035039	373073	750559	1952360	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	38670 4823479	182699 12399105	463485	930580	2439632	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	18154 1977839	78191 6009780	195309	382619	979285	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd 4	Ave	32607 4161811	155812 11241317	393963	796198	2075669	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	19893 1979589	78711 6069235	192340	387111	985367	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	34204 3996363	150840 10901102	381077	765531	1964838	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd 4	Ave	20334 2826060	93705 8645880	242053	512803	1360360	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd 4	Ave	18922 2463867	89789 7627745	232110	467573	1231753	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd 4	Ave	20933 2553064	93814 7877791	237606	486690	1280613	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	17876	74669	187238	369530	945697	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
			1886041	5637767				100	300			
n-Butylbenzene	DCBd 4	Ave	15357 2019396	76013 6379423	186915	384554	1006983	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd 4	Ave	16029 2022681	77083 6316116	194622	390733	1016237	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	2245 280286	10326 879993	25320	52296	135672	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	12013 1325642	49044 4236788	123302	253783	666664	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	10516 1225911	45030 3889095	115962	233086	609801	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	4146 464537	16967 1515817	42683	88308	232937	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	39170 4375841	154746 11356975	407346	841436	2150121	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	10418 1180957	44046 3649634	111431	227438	586417	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd 4	Ave	19655 2435498	76108 6929017	205839	436944	1183910	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	287128 296464	293273 308178	290732	287072	291823	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	355300 365614	360923 374779	357074	347128	353616	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd 5	Ave	1246212 1283078	1263936 1327544	1262669	1239592	1270235	50.0 50.0	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	472185 485370	487727 509031	474943	474424	482962	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-179603/17	EC06X17.D
Level 2	IC 410-179603/16	EC06X16.D
Level 3	IC 410-179603/15	EC06X15.D
Level 4	IC 410-179603/14	EC06X14.D
Level 5	ICIS 410-179603/13	EC06X13.D
Level 6	IC 410-179603/12	EC06X12.D
Level 7	IC 410-179603/11	EC06X11.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	-6.4 -6.6	5.7	1.2	7.8	0.2	-2.0	50 30	30	30	30	30	30
Chloromethane	-3.6 -10.2	10.1	2.5	1.4	1.7	-1.8	50 30	30	30	30	30	30
1,3-Butadiene	22.9 -12.3	2.0	3.5	1.1	-7.9	-9.3	50 30	30	30	30	30	30
Vinyl chloride	-8.6 -8.0	7.6	4.5	6.9	-1.0	-1.5	50 30	30	30	30	30	30
Bromomethane	0.5 -12.6	10.4	6.5	3.6	-4.1	-4.5	50 30	30	30	30	30	30
Chloroethane	-2.0 -10.6	6.5	6.4	6.2	-2.8	-3.7	50 30	30	30	30	30	30
Dichlorofluoromethane	2.3 -10.1	6.6	7.2	4.5	-5.6	-4.8	50 30	30	30	30	30	30
Trichlorofluoromethane	-4.8 -7.1	8.3	4.1	6.2	-2.2	-4.5	50 30	30	30	30	30	30
n-Pentane	-3.6 -0.1	1.2	-1.9	1.7	2.7	-0.1	50 30	30	30	30	30	30
Ethyl ether	-1.2 -6.3	0.0	1.7	2.6	0.8	2.3	50 30	30	30	30	30	30
Freon 123a	-0.3 -9.1	7.6	6.8	5.4	-5.0	-5.4	50 30	30	30	30	30	30
Acrolein	8.0 -9.5	6.9	3.3	-0.3	-5.3	-3.0	50 30	30	30	30	30	30
1,1-Dichloroethene	-0.5 -3.5	0.5	2.0	2.3	1.0	-1.7	50 30	30	30	30	30	30
Acetone	7.5 -7.8	10.8	-2.7	3.9	-7.7	-4.0	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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
Freon 113	-12.7 -0.4	4.0	-0.4	4.7	4.3	0.4	50 30	30	30	30	30	30
2-Propanol	14.6 -7.4	-2.2	1.4	-5.1	-3.1	1.8	50 30	30	30	30	30	30
Methyl iodide	-3.3 -4.4	0.9	3.5	2.0	1.4	-0.2	50 30	30	30	30	30	30
Carbon disulfide	0.1 -5.2	4.1	2.4	0.9	-0.2	-2.1	50 30	30	30	30	30	30
Allyl chloride	-4.3 -2.5	4.1	0.1	1.1	1.3	0.1	50 30	30	30	30	30	30
Methyl acetate	3.6 -2.6	-0.2	-2.7	0.6	-0.1	1.4	50 30	30	30	30	30	30
Methylene Chloride	1.1 -5.5	1.9	2.3	2.4	-0.5	-1.7	50 30	30	30	30	30	30
t-Butyl alcohol	3.9 -6.8	0.7	1.1	1.1	-2.0	2.0	50 30	30	30	30	30	30
Acrylonitrile	-0.9 -1.7	-5.2	1.9	0.9	2.1	2.9	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	3.9 -6.5	3.3	0.6	0.6	0.0	-1.9	50 30	30	30	30	30	30
Methyl tertiary butyl ether	3.2 -5.0	-0.1	0.9	0.5	0.2	0.3	50 30	30	30	30	30	30
n-Hexane	-9.2 4.1	-1.9	-2.4	2.8	4.3	2.3	50 30	30	30	30	30	30
1,1-Dichloroethane	-1.4 -3.8	2.9	2.0	0.6	0.3	-0.6	50 30	30	30	30	30	30
di-Isopropyl ether	-1.7 -3.1	-0.2	0.4	1.7	1.6	1.3	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-9.8 0.7	1.7	0.4	2.8	2.4	1.8	50 30	30	30	30	30	30
Ethyl t-butyl ether	-0.4 -4.2	-0.9	1.1	2.2	1.0	1.2	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	4.3 -5.6	1.9	0.6	0.5	-0.2	-1.4	50 30	30	30	30	30	30
2-Butanone	-3.6 0.0	-1.6	-0.6	5.5	-1.5	1.8	50 30	30	30	30	30	30
2,2-Dichloropropane	-8.8 -0.7	3.1	2.0	2.0	2.0	0.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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	1.9 -4.9	0.2	2.5	1.0	0.5	-1.1	50 30	30	30	30	30	30
Methacrylonitrile	-4.3 -0.7	-3.5	1.6	3.1	1.5	2.2	50 30	30	30	30	30	30
Bromochloromethane	6.7 -6.3	1.0	-0.4	0.6	-0.9	-0.6	50 30	30	30	30	30	30
Tetrahydrofuran	2.2 -6.1	1.6	2.7	-0.1	-0.7	0.4	50 30	30	30	30	30	30
Chloroform	-6.9 -3.2	2.3	3.2	2.0	1.9	0.8	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-2.3 -2.5	2.6	1.8	1.0	0.6	-1.1	50 30	30	30	30	30	30
Cyclohexane	-7.3 0.7	1.5	-1.2	3.2	2.6	0.5	50 30	30	30	30	30	30
1,1-Dichloropropene	-7.2 -0.8	2.0	1.8	1.9	2.3	0.0	50 30	30	30	30	30	30
Carbon tetrachloride	-13.9 1.5	0.8	2.5	2.7	4.2	2.3	50 30	30	30	30	30	30
Isobutyl alcohol	4.6 -2.0	-2.3	-2.6	0.9	-0.7	2.0	50 30	30	30	30	30	30
Benzene	-4.3 -3.0	2.8	1.2	1.6	1.6	0.1	50 30	30	30	30	30	30
1,2-Dichloroethane	11.9 -5.5	-0.5	1.4	-2.0	-2.8	-2.5	50 30	30	30	30	30	30
t-Amyl methyl ether	-2.6 -3.2	-1.4	1.9	1.8	1.3	2.2	50 30	30	30	30	30	30
n-Heptane	-7.2 8.1	-5.1	-4.7	1.9	3.8	3.2	50 30	30	30	30	30	30
n-Butanol	2.9 0.9	-8.3	-2.8	0.5	2.5	4.2	50 30	30	30	30	30	30
Trichloroethene	-5.4 -1.7	1.6	2.0	2.9	1.1	-0.5	50 30	30	30	30	30	30
Methylcyclohexane	-5.8 2.2	-1.4	-1.4	1.9	3.2	1.3	50 30	30	30	30	30	30
1,2-Dichloropropane	-6.7 -0.2	-1.2	0.7	2.8	2.0	2.6	50 30	30	30	30	30	30
t-Amyl ethyl ether	-4.8 -1.7	-1.6	0.6	2.6	3.6	1.3	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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	5.9 -3.4	-1.4	-3.5	0.8	0.7	0.9	50 30	30	30	30	30	30
1,4-Dioxane	17.9 -8.0	-9.1	2.4	-4.6	1.4	0.1	50 30	30	30	30	30	30
Methyl methacrylate	-9.9 5.2	-9.1	-1.5	3.0	4.5	7.6	50 30	30	30	30	30	30
Bromodichloromethane	-5.4 0.5	-0.7	-0.9	0.6	2.2	3.6	50 30	30	30	30	30	30
2-Nitropropane	2.6 -2.2	-2.2	0.1	-1.8	1.3	2.2	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-3.7 2.2	-6.0	-2.7	2.5	2.7	5.0	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-3.9 0.9	-4.9	-0.5	1.0	3.0	4.5	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-5.0 1.2	-2.4	-1.2	3.1	0.3	4.0	50 30	30	30	30	30	30
Toluene	-5.8 -2.5	2.6	1.9	2.3	1.7	-0.1	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-6.0 2.5	-3.3	-2.4	1.5	2.9	4.9	50 30	30	30	30	30	30
Ethyl methacrylate	-12.7 6.1	-8.7	-2.8	2.4	7.0	8.5	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-5.2 -1.5	-3.7	1.3	3.7	3.4	2.0	50 30	30	30	30	30	30
Tetrachloroethene	-10.6 -0.6	2.4	3.4	2.4	2.6	0.5	50 30	30	30	30	30	30
1,3-Dichloropropane	0.2 -1.2	-3.1	-0.1	0.1	1.7	2.5	50 30	30	30	30	30	30
2-Hexanone	-11.4 4.0	-3.7	0.0	4.7	1.4	5.0	50 30	30	30	30	30	30
Dibromochloromethane	-8.7 4.9	-6.1	-1.6	1.2	4.2	6.2	50 30	30	30	30	30	30
1,2-Dibromoethane	-6.1 0.4	0.1	-2.3	1.3	3.3	3.3	50 30	30	30	30	30	30
Chlorobenzene	-6.2 -2.2	2.1	1.4	1.5	2.8	0.6	50 30	30	30	30	30	30
1-Chlorohexane	-7.9 0.7	1.9	0.5	1.9	2.8	-0.1	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 Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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	-6.4 0.6	1.7	-1.2	0.9	2.0	2.4	50 30	30	30	30	30	30
Ethylbenzene	-8.0 -6.6	-0.7	3.9	4.4	3.8	3.2	50 30	30	30	30	30	30
m&p-Xylene	-8.6 -2.1	0.2	2.4	2.7	3.8	1.6	50 30	30	30	30	30	30
o-Xylene	-7.7 -2.2	0.6	1.8	3.1	3.4	1.0	50 30	30	30	30	30	30
Styrene	-15.6 5.2	-7.4	-0.7	3.7	7.5	7.3	50 30	30	30	30	30	30
Bromoform	-14.4 10.1	-11.0	-4.4	-0.1	9.0	10.8	50 30	30	30	30	30	30
Isopropylbenzene	-9.7 -9.8	1.7	3.8	4.6	5.6	3.9	50 30	30	30	30	30	30
Cyclohexanone	-5.7 7.7	-9.6	-5.1	1.7	3.7	7.3	50 30	30	30	30	30	30
Bromobenzene	-6.2 -0.9	-0.6	1.2	2.4	1.9	2.2	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-6.1 1.4	-5.7	-1.1	1.9	4.5	5.1	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-4.3 -1.9	-0.1	-0.8	1.8	2.8	2.5	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-12.3 4.7	-6.2	-1.9	5.3	4.0	6.5	50 30	30	30	30	30	30
N-Propylbenzene	-11.3 -19.5	5.1	4.4	6.5	8.1	6.7	50 30	30	30	30	30	30
2-Chlorotoluene	-7.3 -0.8	3.0	1.7	0.4	1.7	1.4	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-11.5 -3.9	0.4	0.8	3.9	5.4	4.9	50 30	30	30	30	30	30
4-Chlorotoluene	-8.9 -0.9	-2.0	1.8	4.0	3.5	2.5	50 30	30	30	30	30	30
tert-Butylbenzene	-9.5 2.1	0.4	-0.5	1.9	3.4	2.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-10.3 -4.7	-1.4	0.9	3.8	5.9	5.8	50 30	30	30	30	30	30
sec-Butylbenzene	-12.9 -12.0	0.8	3.0	5.8	8.8	6.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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	-4.9 -0.8	0.3	1.0	1.2	1.6	1.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-14.6 -7.2	0.0	1.8	5.3	7.7	7.1	50 30	30	30	30	30	30
1,4-Dichlorobenzene	2.6 -1.4	-0.6	-2.1	0.7	0.6	0.2	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-7.9 -7.5	-0.5	1.3	4.1	4.8	5.7	50 30	30	30	30	30	30
Benzyl chloride	-18.7 9.0	-8.2	-4.4	3.5	7.7	11.0	50 30	30	30	30	30	30
1,3-Diethylbenzene	-17.2 5.1	-3.8	0.2	3.2	6.7	5.8	50 30	30	30	30	30	30
1,4-Diethylbenzene	-12.4 4.0	-3.8	-1.8	2.9	6.2	5.0	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-2.5 -3.1	-0.2	0.8	1.8	2.2	1.0	50 30	30	30	30	30	30
n-Butylbenzene	-18.4 6.9	-1.1	-2.0	3.2	6.0	5.4	50 30	30	30	30	30	30
1,2-Diethylbenzene	-16.1 4.2	-1.2	0.5	3.2	5.3	4.0	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-13.3 7.1	-2.3	-3.5	2.0	3.7	6.3	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-5.1 5.5	-5.1	-3.8	1.2	4.3	2.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-9.3 5.8	-4.8	-1.3	1.5	4.2	3.9	50 30	30	30	30	30	30
Hexachlorobutadiene	-6.1 8.1	-5.9	-4.6	0.9	4.4	3.3	50 30	30	30	30	30	30
Naphthalene	-2.4 -10.9	-5.6	0.1	5.8	6.0	7.0	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-7.0 2.7	-3.7	-1.8	2.5	3.7	3.6	50 30	30	30	30	30	30
2-Methylnaphthalene	-8.2 2.0	-12.9	-5.1	3.0	9.5	11.7	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.4 1.0	-0.9	-0.3	0.2	-0.3	0.7	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.7 0.3	-0.3	0.1	-1.0	-1.2	1.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 179603

SDG No.:

Instrument ID: 15648 GC Column: DB-624 20m ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/06/2021 14:54 Calibration End Date: 10/06/2021 16:55 Calibration ID: 31337

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)	-0.5 0.3	-0.6	0.3	-0.1	0.5	0.2	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.0 1.0	0.7	-1.0	0.4	0.3	-0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X11.D
Lims ID: IC v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 06-Oct-2021 14:54:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-011
Misc. Info.: LG 300
Operator ID: jml01693 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub39

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 06:58:40 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 06:51:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.176	1.164	0.012	99	3324158	300.0	280.2	
2 Chloromethane	50	1.298	1.285	0.013	98	3564815	300.0	269.3	M
3 Butadiene	39	1.346	1.334	0.012	91	3564356	300.0	263.1	
4 Vinyl chloride	62	1.359	1.352	0.007	98	3606662	300.0	276.0	
5 Bromomethane	94	1.542	1.535	0.007	90	2268363	300.0	262.3	
6 Chloroethane	64	1.572	1.560	0.012	100	2065283	300.0	268.2	
7 Dichlorofluoromethane	67	1.700	1.688	0.012	97	4842934	300.0	269.7	
9 Pentane	43	1.749	1.737	0.012	97	4938521	300.0	299.8	
8 Trichlorofluoromethane	101	1.761	1.749	0.012	98	4584608	300.0	278.7	
12 Ethyl ether	59	1.877	1.865	0.012	92	2353879	300.0	281.2	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.895	1.877	0.018	93	3284096	300.0	272.8	
14 Acrolein	56	1.962	1.956	0.006	99	7414028	3006.6	2719.8	
15 1,1-Dichloroethene	96	2.048	2.041	0.007	98	2459526	300.0	289.6	
17 Acetone	58	2.066	2.060	0.006	100	657359	600.0	552.9	
16 112TCTFE	101	2.084	2.072	0.012	93	2660396	300.0	298.8	
18 Isopropyl alcohol	45	2.157	2.145	0.012	97	1047638	1500.0	1388.5	
19 Iodomethane	142	2.163	2.157	0.006	98	4185148	300.0	286.9	
21 Carbon disulfide	76	2.218	2.212	0.006	99	7340414	300.0	284.4	
22 3-Chloro-1-propene	41	2.310	2.304	0.006	91	4556049	300.0	292.5	
23 Methyl acetate	43	2.310	2.304	0.006	97	2429480	300.0	292.2	
24 Methylene Chloride	84	2.407	2.401	0.006	93	2614580	300.0	283.6	
* 25 t-Butyl alcohol-d10 (IS)	65	2.419	2.413	0.006	97	225963	250.0	250.0	
26 2-Methyl-2-propanol	59	2.493	2.480	0.013	100	1913016	1500.0	1397.9	
27 Acrylonitrile	53	2.596	2.590	0.006	99	3165459	750.0	737.4	
29 trans-1,2-Dichloroethene	96	2.639	2.633	0.006	98	2667980	300.0	280.6	
28 Methyl tert-butyl ether	73	2.645	2.639	0.006	95	8309570	300.0	284.9	
30 Hexane	57	2.883	2.870	0.013	93	4537906	300.0	312.3	
32 1,1-Dichloroethane	63	3.005	2.999	0.007	96	4970490	300.0	288.7	
34 Isopropyl ether	45	3.084	3.072	0.012	94	8889973	300.0	290.7	
35 2-Chloro-1,3-butadiene	53	3.090	3.084	0.006	91	4590749	300.0	302.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.419	3.407	0.012	98	8533570	300.0	287.3	
37 cis-1,2-Dichloroethene	96	3.535	3.529	0.006	82	2890187	300.0	283.3	
38 2-Butanone (MEK)	43	3.541	3.529	0.012	99	3341006	600.0	599.8	
39 2,2-Dichloropropane	77	3.553	3.541	0.012	91	4390959	300.0	297.9	
40 Propionitrile	54	3.590	3.578	0.012	99	2533401	1500.0	1425.9	
41 Methacrylonitrile	67	3.736	3.730	0.006	93	3665796	750.0	745.1	
42 Chlorobromomethane	128	3.755	3.748	0.007	96	1298024	300.0	281.0	
43 Tetrahydrofuran	71	3.797	3.785	0.012	93	2206177	1500.0	1408.5	
44 Chloroform	83	3.834	3.834	0.000	93	4628446	300.0	290.3	
$ 45 Dibromofluoromethane (Surr)	113	3.986	3.980	0.006	93	308178	50.0	50.5	
46 1,1,1-Trichloroethane	97	4.017	4.011	0.006	98	4377188	300.0	292.4	
47 Cyclohexane	56	4.078	4.071	0.007	91	5509848	300.0	302.1	
48 1,1-Dichloropropene	75	4.169	4.163	0.006	97	4010655	300.0	297.5	
49 Carbon tetrachloride	117	4.181	4.175	0.006	97	3691536	300.0	304.4	
50 Isobutyl alcohol	41	4.291	4.285	0.006	95	1561029	3750.0	3676.5	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.309	4.297	0.012	76	374779	50.0	50.2	
52 Benzene	78	4.370	4.364	0.006	96	11743853	300.0	290.9	
53 1,2-Dichloroethane	62	4.382	4.376	0.006	97	3543377	300.0	283.6	
54 Tert-amyl methyl ether	73	4.498	4.492	0.006	98	8380740	300.0	290.4	
* 55 Fluorobenzene (IS)	96	4.645	4.638	0.007	99	1349847	50.0	50.0	
56 n-Heptane	43	4.657	4.651	0.006	93	4547528	300.0	324.2	
57 n-Butanol	56	4.956	4.955	0.001	89	1316268	3750.0	3783.9	
59 Trichloroethene	95	5.010	5.010	0.000	99	2987552	300.0	295.0	
60 Methylcyclohexane	83	5.218	5.211	0.007	93	5680827	300.0	306.7	
61 1,2-Dichloropropane	63	5.230	5.224	0.006	97	2951826	300.0	299.3	
131 2-ethoxy-2-methyl butane	87	5.303	5.297	0.006	93	4437955	300.0	294.8	
62 Dibromomethane	93	5.346	5.340	0.006	97	1671970	300.0	289.9	
64 Methyl methacrylate	69	5.376	5.376	0.000	92	2424250	300.0	315.7	
63 1,4-Dioxane	88	5.370	5.376	-0.006	92	416441	3750.0	3450.2	M
65 Dichlorobromomethane	83	5.522	5.516	0.006	100	3484888	300.0	301.6	
67 2-Nitropropane	41	5.754	5.748	0.006	97	4778728	1500.0	1467.1	
68 2-Chloroethyl vinyl ether	63	5.852	5.852	0.000	92	2102757	300.0	306.5	
69 cis-1,3-Dichloropropene	75	5.992	5.992	0.000	95	4717713	300.0	302.8	
S 70 1,2-Dichloroethene, Total	100				0			563.9	
71 4-Methyl-2-pentanone (MIBK)	43	6.175	6.169	0.006	97	7205258	600.0	607.1	
$ 72 Toluene-d8 (Surr)	98	6.278	6.278	0.000	93	1327544	50.0	50.1	
73 Toluene	92	6.352	6.345	0.007	98	7459850	300.0	292.4	
74 trans-1,3-Dichloropropene	75	6.595	6.595	0.000	94	4323786	300.0	307.5	
75 Ethyl methacrylate	69	6.730	6.723	0.007	89	4371322	300.0	318.4	
76 1,1,2-Trichloroethane	97	6.784	6.784	0.000	90	2468864	300.0	295.6	
77 Tetrachloroethene	166	6.943	6.943	0.000	97	2990209	300.0	298.2	
78 1,3-Dichloropropane	76	6.967	6.961	0.006	92	4337741	300.0	296.4	
80 2-Hexanone	43	7.083	7.083	0.000	97	5152107	600.0	624.0	
81 Chlorodibromomethane	129	7.205	7.205	0.000	90	2704260	300.0	314.7	
82 Ethylene Dibromide	107	7.315	7.315	0.000	98	2632068	300.0	301.1	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	86	1000716	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	94	7848882	300.0	293.3	
86 1-Chlorohexane	91	7.827	7.821	0.006	98	4298014	300.0	302.2	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	96	2680231	300.0	301.7	
88 Ethylbenzene	91	7.931	7.937	-0.006	98	13458881	300.0	280.2	e
89 m-Xylene & p-Xylene	106	8.046	8.046	0.000	88	10897668	600.0	587.2	
91 o-Xylene	106	8.394	8.394	0.000	96	5328541	300.0	293.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
92 Styrene	104	8.406	8.406	0.000	94	8911730	300.0	315.6	
93 Bromoform	173	8.540	8.540	0.000	96	1921040	300.0	330.4	
94 Isopropylbenzene	105	8.705	8.711	-0.006	97	12668824	300.0	270.5	e
95 Cyclohexanone	55	8.760	8.760	0.000	92	1995715	3750.1	4038.7	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	87	509031	50.0	50.5	
97 Bromobenzene	156	8.936	8.936	0.000	94	3059179	300.0	297.3	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	92	3836040	300.0	304.2	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	86	1093021	300.0	294.4	
100 trans-1,4-Dichloro-2-butene	53	8.997	8.991	0.006	95	3134314	750.0	784.9	
101 N-Propylbenzene	91	9.034	9.040	-0.006	99	13092730	300.0	241.6	e
102 2-Chlorotoluene	126	9.101	9.095	0.006	97	3243152	300.0	297.5	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	89	11128329	300.0	288.4	e
104 4-Chlorotoluene	126	9.180	9.180	0.000	98	3232202	300.0	297.4	
105 tert-Butylbenzene	134	9.424	9.424	0.000	93	2522279	300.0	306.4	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	97	11035039	300.0	285.9	e
108 sec-Butylbenzene	105	9.589	9.589	0.000	95	12399105	300.0	264.0	e
109 1,3-Dichlorobenzene	146	9.656	9.656	0.000	98	6009780	300.0	297.6	
110 4-Isopropyltoluene	119	9.698	9.698	0.000	94	11241317	300.0	278.4	e
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	91	526702	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	95	6069235	300.0	295.9	
113 1,2,3-Trimethylbenzene	105	9.766	9.765	0.001	97	10901102	300.0	277.6	e
114 Benzyl chloride	91	9.820	9.820	0.000	99	8645880	300.0	327.0	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	94	7627745	300.0	315.4	
116 p-Diethylbenzene	119	9.973	9.973	0.000	95	7877791	300.0	311.9	
119 1,2-Dichlorobenzene	146	9.985	9.985	0.000	95	5637767	300.0	290.8	
118 n-Butylbenzene	92	9.991	9.991	0.000	94	6379423	300.0	320.6	
120 o-diethylbenzene	119	10.052	10.052	0.000	96	6316116	300.0	312.6	
S 117 1,3-Dichloropropene, Total	100				0			610.3	
122 1,2-Dibromo-3-Chloropropane	75	10.522	10.521	0.001	86	879993	300.0	321.3	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	97	4236788	300.0	316.6	
124 1,2,4-Trichlorobenzene	180	11.076	11.076	0.000	94	3889095	300.0	317.3	
126 Hexachlorobutadiene	225	11.192	11.192	0.000	98	1515817	300.0	324.4	
127 Naphthalene	128	11.235	11.235	0.000	99	11356975	300.0	267.4	e
S 125 Xylenes, Total	106				0			880.5	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	96	3649634	300.0	308.1	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	92	6929017	300.0	306.0	
S 154 Total Diethylbenzene	1				0			939.9	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00023	Amount Added:	15.00	Units: uL	
MSV_VCYC_00007	Amount Added:	30.00	Units: uL	
MSV_CCV_GASES_00086	Amount Added:	7.50	Units: uL	
MSV_CCV_VOC#3_00022	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00021	Amount Added:	15.00	Units: uL	
MSV_V_EE_00005	Amount Added:	15.00	Units: uL	
MSV_Cent_ISSS_00001	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 07-Oct-2021 06:58:40 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X11.D

Injection Date: 06-Oct-2021 14:54:30 Instrument ID: 15648 Operator ID: jml01693

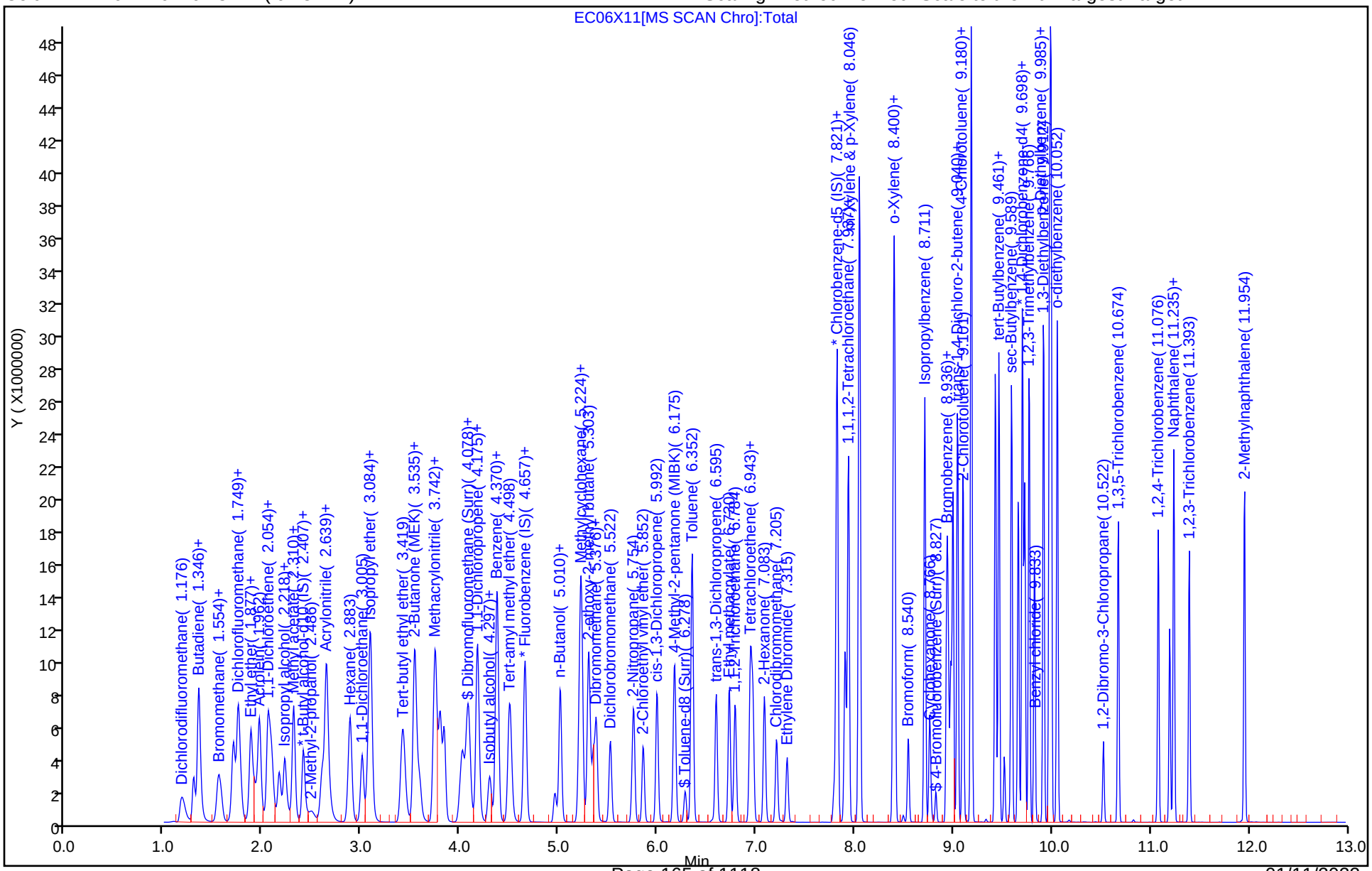
Lims ID: IC v300 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_15648 Limit Group: MSV - 8260C_D

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

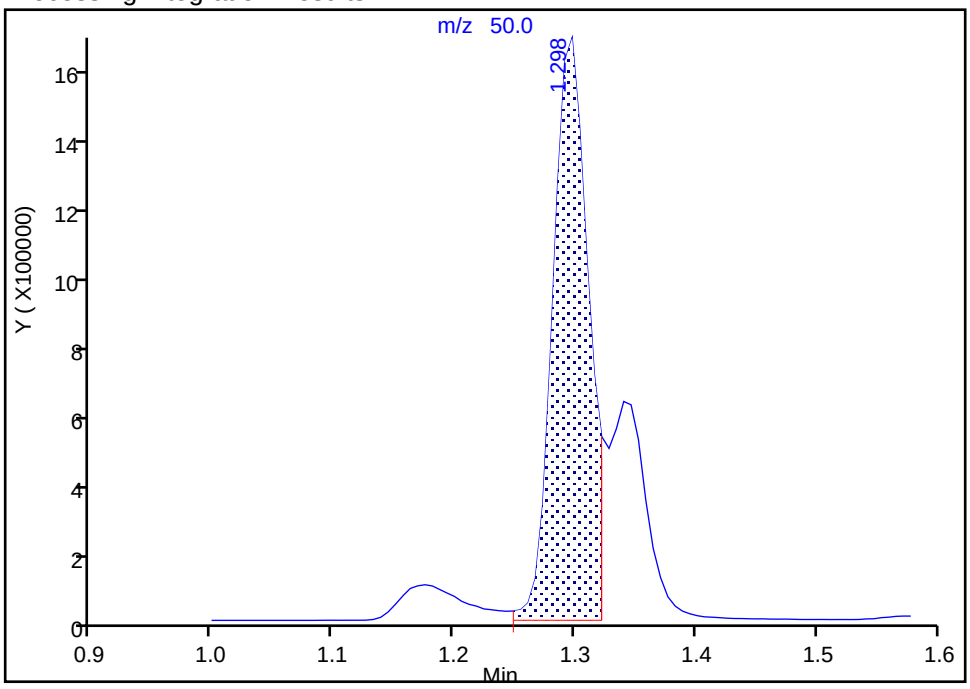
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Injection Date: 06-Oct-2021 14:54:30 Instrument ID: 15648
Lims ID: IC v300
Client ID:
Operator ID: jml01693 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_15648 Limit Group: MSV - 8260C_D
Column: DB-624 20m 0.18mm (0.18 mm) Detector MS Quad

2 Chloromethane, CAS: 74-87-3

Signal: 1

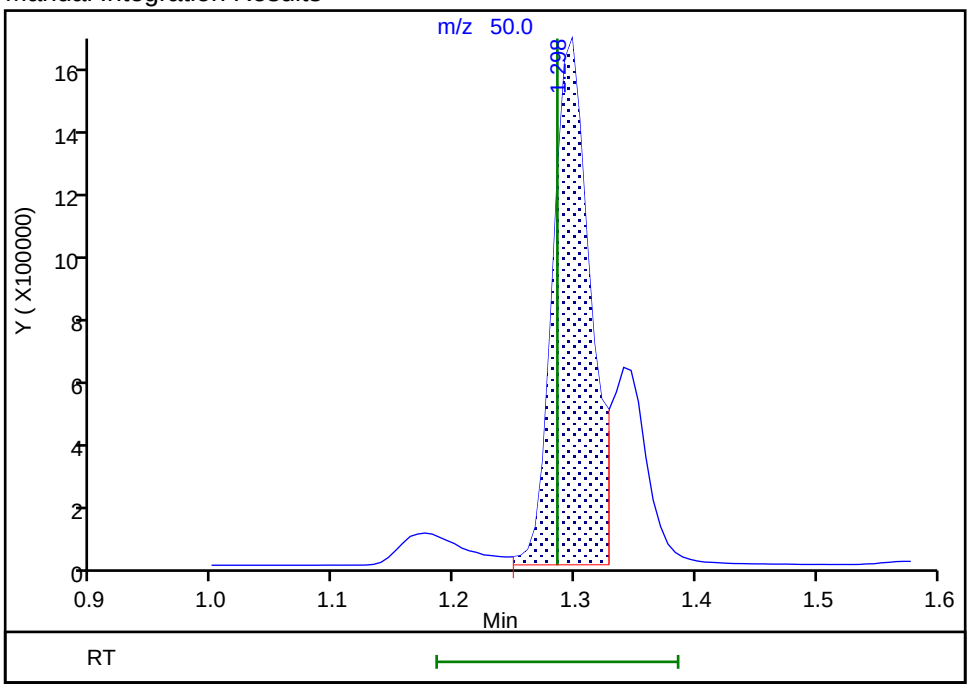
Processing Integration Results

RT: 1.30
Area: 3393678
Amount: 257.9169
Amount Units: ug/l



Manual Integration Results

RT: 1.30
Area: 3564815
Amount: 269.2556
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:50:58
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

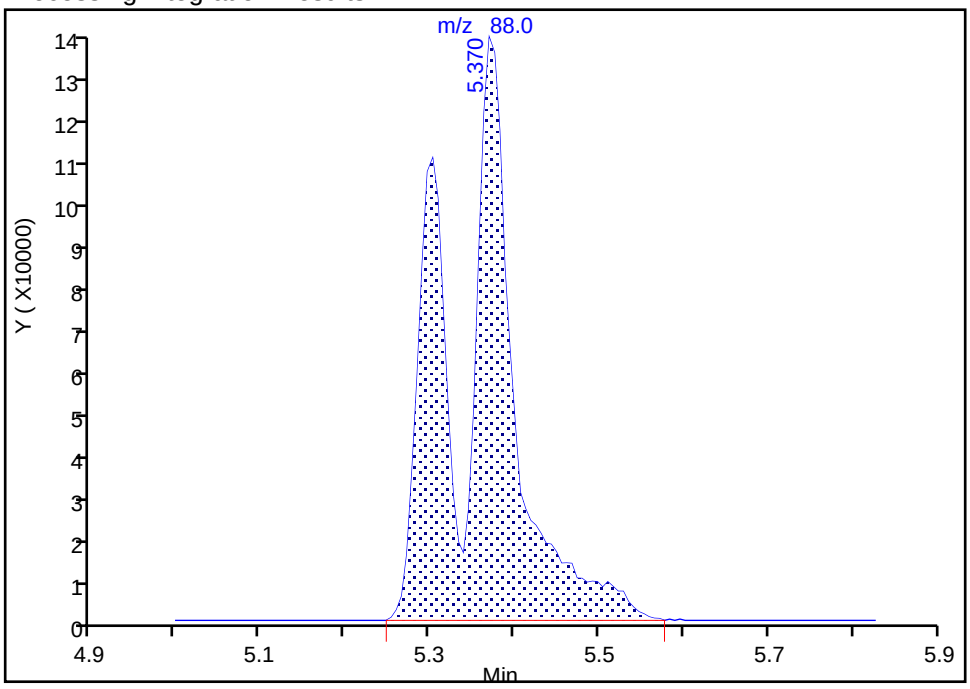
Data File:	\\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X11.D				
Injection Date:	06-Oct-2021 14:54:30	Instrument ID:	15648		
Lims ID:	IC v300				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

63 1,4-Dioxane, CAS: 123-91-1

Signal: 1

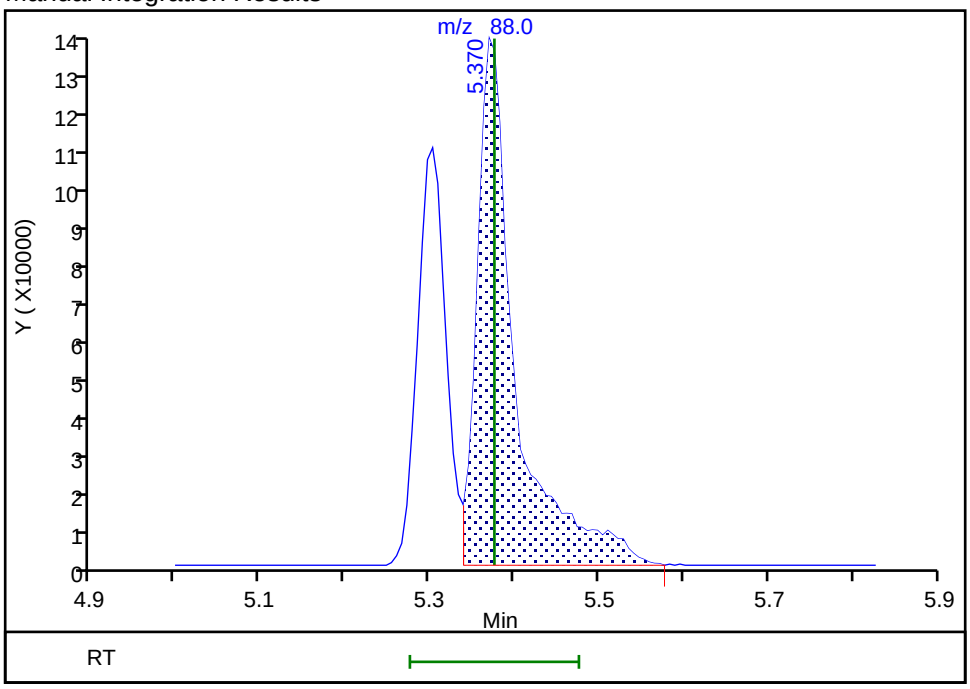
Processing Integration Results

RT: 5.37
Area: 656441
Amount: 4703.6505
Amount Units: ug/l



Manual Integration Results

RT: 5.37
Area: 416441
Amount: 3450.2223
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:50:25
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X12.D
Lims ID: IC v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Oct-2021 15:14:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-012
Misc. Info.: LG 100
Operator ID: jml01693 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub39

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 06:58:44 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 06:49:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.170	1.164	0.006	99	1122144	100.0	98.0	
2 Chloromethane	50	1.298	1.285	0.013	98	1254369	100.0	98.2	M
3 Butadiene	39	1.347	1.334	0.012	91	1185555	100.0	90.7	
4 Vinyl chloride	62	1.359	1.352	0.007	98	1242679	100.0	98.5	
5 Bromomethane	94	1.542	1.535	0.007	90	797156	100.0	95.5	
6 Chloroethane	64	1.572	1.560	0.012	100	715865	100.0	96.3	
7 Dichlorofluoromethane	67	1.700	1.688	0.012	97	1649458	100.0	95.2	
9 Pentane	43	1.749	1.737	0.012	97	1588298	100.0	99.9	
8 Trichlorofluoromethane	101	1.761	1.749	0.012	98	1515492	100.0	95.5	
12 Ethyl ether	59	1.877	1.865	0.012	92	826764	100.0	102.4	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.889	1.877	0.012	93	1098731	100.0	94.6	
14 Acrolein	56	1.962	1.956	0.006	100	2496377	1002.2	971.9	
15 1,1-Dichloroethene	96	2.048	2.041	0.007	98	805647	100.0	98.3	
17 Acetone	58	2.066	2.060	0.006	100	215044	200.0	192.0	
16 112TCTFE	101	2.084	2.072	0.012	93	862903	100.0	100.4	
18 Isopropyl alcohol	45	2.157	2.145	0.012	96	362040	500.0	509.2	
19 Iodomethane	142	2.163	2.157	0.006	97	1405149	100.0	99.8	
21 Carbon disulfide	76	2.224	2.212	0.012	99	2439188	100.0	97.9	
22 3-Chloro-1-propene	41	2.310	2.304	0.006	91	1505216	100.0	100.1	
23 Methyl acetate	43	2.310	2.304	0.006	56	813854	100.0	101.4	
24 Methylene Chloride	84	2.407	2.401	0.006	93	874614	100.0	98.3	
* 25 t-Butyl alcohol-d10 (IS)	65	2.426	2.413	0.013	99	212919	250.0	250.0	
26 2-Methyl-2-propanol	59	2.493	2.480	0.013	100	657774	500.0	510.1	
27 Acrylonitrile	53	2.596	2.590	0.006	99	1065172	250.0	257.1	
29 trans-1,2-Dichloroethene	96	2.639	2.633	0.006	99	899766	100.0	98.1	
28 Methyl tert-butyl ether	73	2.645	2.639	0.006	95	2823231	100.0	100.3	
30 Hexane	57	2.883	2.870	0.013	93	1434287	100.0	102.3	
32 1,1-Dichloroethane	63	3.005	2.999	0.007	96	1651594	100.0	99.4	
34 Isopropyl ether	45	3.078	3.072	0.006	94	2990026	100.0	101.3	
35 2-Chloro-1,3-butadiene	53	3.090	3.084	0.006	91	1492515	100.0	101.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.413	3.407	0.006	98	2899723	100.0	101.2	
37 cis-1,2-Dichloroethene	96	3.535	3.529	0.006	82	970343	100.0	98.6	
38 2-Butanone (MEK)	43	3.535	3.529	0.006	81	1094513	200.0	203.6	
39 2,2-Dichloropropane	77	3.547	3.541	0.006	87	1428092	100.0	100.4	
40 Propionitrile	54	3.584	3.578	0.006	99	827757	500.0	494.4	
41 Methacrylonitrile	67	3.736	3.730	0.006	91	1213328	250.0	255.6	
42 Chlorobromomethane	128	3.755	3.748	0.007	97	442939	100.0	99.4	
43 Tetrahydrofuran	71	3.797	3.785	0.012	93	740868	500.0	502.0	
44 Chloroform	83	3.834	3.834	0.000	93	1551201	100.0	100.8	
$ 45 Dibromofluoromethane (Surr)	113	3.986	3.980	0.006	93	296464	50.0	50.3	
46 1,1,1-Trichloroethane	97	4.017	4.011	0.006	98	1428038	100.0	98.9	
47 Cyclohexane	56	4.078	4.071	0.007	91	1768711	100.0	100.5	
48 1,1-Dichloropropene	75	4.169	4.163	0.006	97	1301064	100.0	100.0	
49 Carbon tetrachloride	117	4.181	4.175	0.006	98	1196829	100.0	102.3	
50 Isobutyl alcohol	41	4.291	4.285	0.006	95	510214	1250.0	1275.3	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.303	4.297	0.006	86	365614	50.0	50.7	
52 Benzene	78	4.364	4.364	0.000	96	3898009	100.0	100.1	
53 1,2-Dichloroethane	62	4.376	4.376	0.000	97	1175043	100.0	97.5	
54 Tert-amyl methyl ether	73	4.498	4.492	0.006	98	2846046	100.0	102.2	
* 55 Fluorobenzene (IS)	96	4.645	4.638	0.007	96	1302525	50.0	50.0	
56 n-Heptane	43	4.657	4.651	0.006	92	1397008	100.0	103.2	
57 n-Butanol	56	4.962	4.955	0.007	89	427089	1250.0	1303.0	
59 Trichloroethene	95	5.010	5.010	0.000	99	972290	100.0	99.5	
60 Methylcyclohexane	83	5.212	5.211	0.001	92	1810380	100.0	101.3	
61 1,2-Dichloropropane	63	5.230	5.224	0.006	97	975953	100.0	102.6	
131 2-ethoxy-2-methyl butane	87	5.303	5.297	0.006	94	1472336	100.0	101.3	
62 Dibromomethane	93	5.346	5.340	0.006	97	561577	100.0	100.9	
64 Methyl methacrylate	69	5.376	5.376	0.000	92	797553	100.0	107.6	
63 1,4-Dioxane	88	5.370	5.376	-0.006	94	142368	1250.0	1251.8	M
65 Dichlorobromomethane	83	5.516	5.516	0.000	100	1155710	100.0	103.6	
67 2-Nitropropane	41	5.754	5.748	0.006	97	1568513	500.0	511.0	
68 2-Chloroethyl vinyl ether	63	5.852	5.852	0.000	92	695242	100.0	105.0	
69 cis-1,3-Dichloropropene	75	5.992	5.992	0.000	95	1570786	100.0	104.5	
S 70 1,2-Dichloroethene, Total	100				0			196.6	
71 4-Methyl-2-pentanone (MIBK)	43	6.169	6.169	0.000	97	2381540	200.0	207.9	
$ 72 Toluene-d8 (Surr)	98	6.278	6.278	0.000	93	1283078	50.0	50.1	
73 Toluene	92	6.352	6.345	0.007	98	2465223	100.0	99.9	
74 trans-1,3-Dichloropropene	75	6.595	6.595	0.000	93	1426950	100.0	104.9	
75 Ethyl methacrylate	69	6.730	6.723	0.007	89	1441591	100.0	108.5	
76 1,1,2-Trichloroethane	97	6.784	6.784	0.000	90	824604	100.0	102.0	
77 Tetrachloroethene	166	6.943	6.943	0.000	97	975369	100.0	100.5	
78 1,3-Dichloropropane	76	6.967	6.961	0.006	91	1450889	100.0	102.5	
80 2-Hexanone	43	7.083	7.083	0.000	97	1678034	200.0	210.1	
81 Chlorodibromomethane	129	7.205	7.205	0.000	90	882449	100.0	106.2	
82 Ethylene Dibromide	107	7.315	7.315	0.000	99	873838	100.0	103.3	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	84	968138	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	95	2605219	100.0	100.6	
86 1-Chlorohexane	91	7.827	7.821	0.006	98	1374878	100.0	99.9	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	96	879981	100.0	102.4	
88 Ethylbenzene	91	7.937	7.937	0.000	98	4797630	100.0	103.2	
89 m-Xylene & p-Xylene	106	8.046	8.046	0.000	100	3649363	200.0	203.3	
91 o-Xylene	106	8.394	8.394	0.000	97	1774447	100.0	101.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
92 Styrene	104	8.406	8.406	0.000	95	2932420	100.0	107.3	
93 Bromoform	173	8.540	8.540	0.000	96	623176	100.0	110.8	
94 Isopropylbenzene	105	8.711	8.711	0.000	96	4706623	100.0	103.9	
95 Cyclohexanone	55	8.760	8.760	0.000	93	624329	1250.0	1340.9	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	87	485370	50.0	49.8	
97 Bromobenzene	156	8.936	8.936	0.000	94	1012464	100.0	102.2	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	93	1276356	100.0	105.1	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	86	366438	100.0	102.5	
100 trans-1,4-Dichloro-2-butene	53	8.991	8.991	0.000	91	1023407	250.0	266.2	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	5566803	100.0	106.7	
102 2-Chlorotoluene	126	9.095	9.095	0.000	96	1064236	100.0	101.4	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	88	3897678	100.0	104.9	
104 4-Chlorotoluene	126	9.180	9.180	0.000	95	1073095	100.0	102.5	
105 tert-Butylbenzene	134	9.424	9.424	0.000	94	809745	100.0	102.2	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	97	3933688	100.0	105.8	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	4823479	100.0	106.7	
109 1,3-Dichlorobenzene	146	9.656	9.656	0.000	98	1977839	100.0	101.7	
110 4-Isopropyltoluene	119	9.699	9.698	0.001	97	4161811	100.0	107.1	
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	95	507132	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	94	1979589	100.0	100.2	
113 1,2,3-Trimethylbenzene	105	9.766	9.765	0.001	99	3996363	100.0	105.7	
114 Benzyl chloride	91	9.820	9.820	0.000	98	2826060	100.0	111.0	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	95	2463867	100.0	105.8	
116 p-Diethylbenzene	119	9.973	9.973	0.000	95	2553064	100.0	105.0	
119 1,2-Dichlorobenzene	146	9.985	9.985	0.000	94	1886041	100.0	101.0	
118 n-Butylbenzene	92	9.991	9.991	0.000	98	2019396	100.0	105.4	
120 o-diethylbenzene	119	10.052	10.052	0.000	96	2022681	100.0	104.0	
S 117 1,3-Dichloropropene, Total	100				0			209.4	
122 1,2-Dibromo-3-Chloropropane	75	10.522	10.521	0.001	86	280286	100.0	106.3	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	97	1325642	100.0	102.9	
124 1,2,4-Trichlorobenzene	180	11.076	11.076	0.000	94	1225911	100.0	103.9	
126 Hexachlorobutadiene	225	11.192	11.192	0.000	99	464537	100.0	103.3	
127 Naphthalene	128	11.235	11.235	0.000	97	4375841	100.0	107.0	
S 125 Xylenes, Total	106				0			304.2	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	96	1180957	100.0	103.6	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	93	2435498	100.0	111.7	
S 154 Total Diethylbenzene	1				0			314.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00023	Amount Added:	5.00	Units: uL	
MSV_VCYC_00007	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00086	Amount Added:	2.50	Units: uL	
MSV_CCV_VOC#3_00022	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00021	Amount Added:	5.00	Units: uL	
MSV_V_EE_00005	Amount Added:	5.00	Units: uL	
MSV_Cent_ISSS_00001	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 07-Oct-2021 06:58:44 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X12.D

Injection Date: 06-Oct-2021 15:14:30 Instrument ID: 15648 Operator ID: jml01693

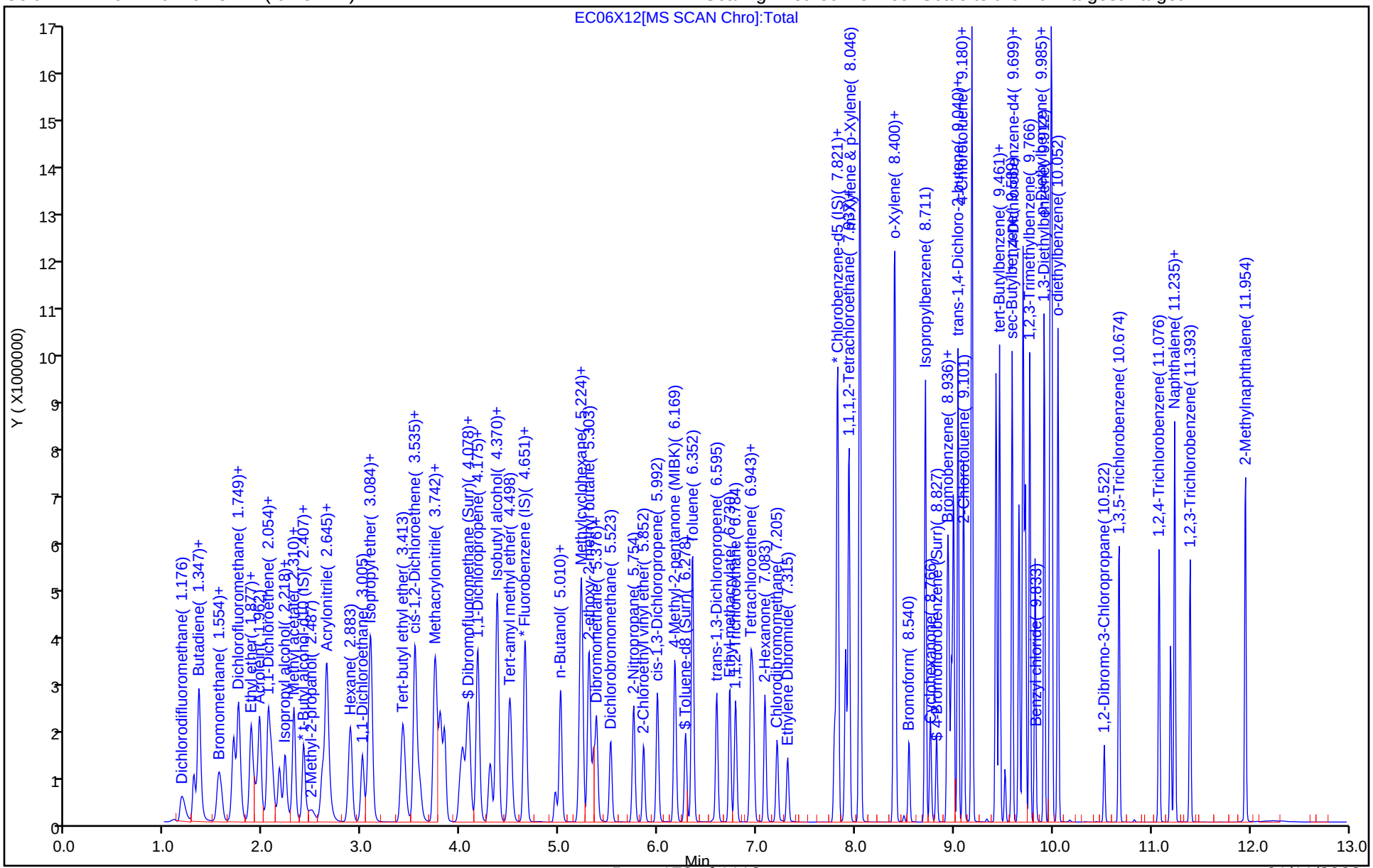
Lims ID: IC v100 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_15648 Limit Group: MSV - 8260C_D

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

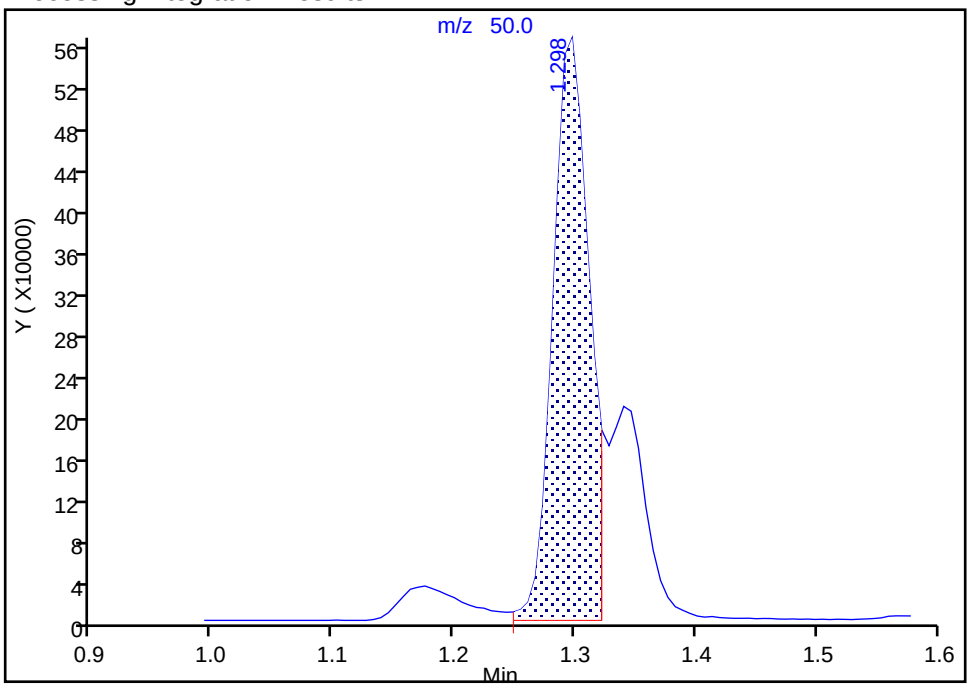
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Injection Date: 06-Oct-2021 15:14:30 Instrument ID: 15648
Lims ID: IC v100
Client ID:
Operator ID: jml01693 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_15648 Limit Group: MSV - 8260C_D
Column: DB-624 20m 0.18mm (0.18 mm) Detector MS Quad

2 Chloromethane, CAS: 74-87-3

Signal: 1

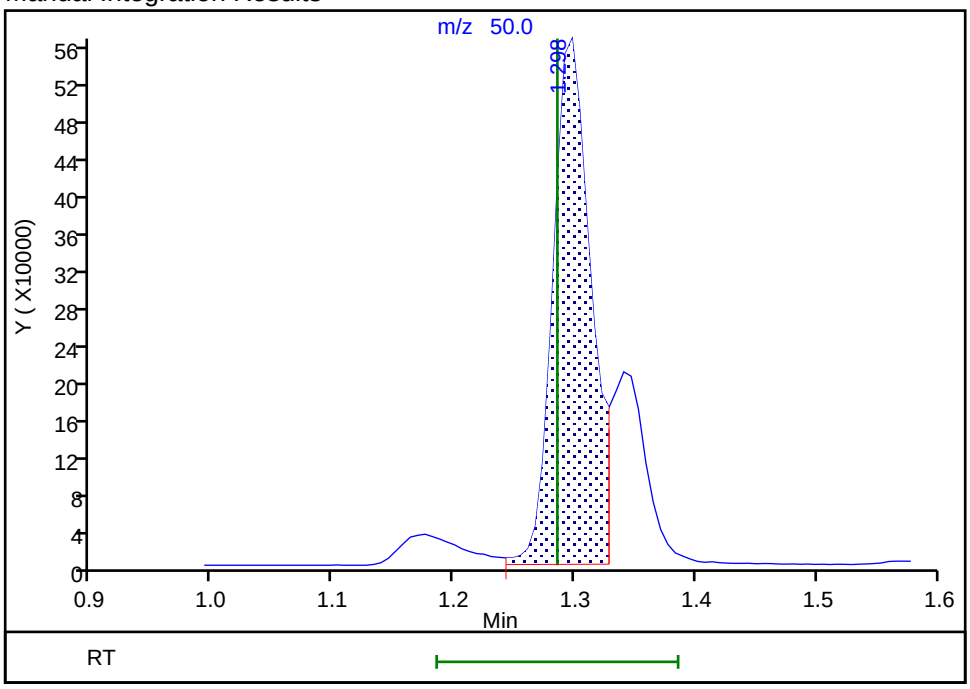
Processing Integration Results

RT: 1.30
Area: 1194474
Amount: 94.715485
Amount Units: ug/l



Manual Integration Results

RT: 1.30
Area: 1254369
Amount: 98.186427
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:48:49
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

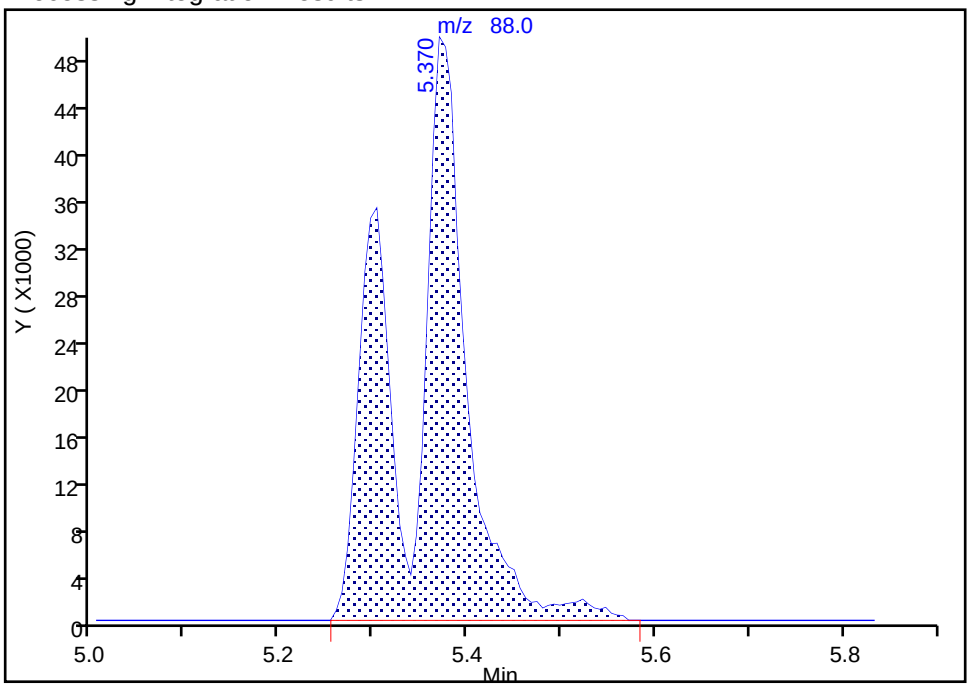
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Injection Date:	06-Oct-2021 15:14:30	Instrument ID:	15648		
Lims ID:	IC v100				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

63 1,4-Dioxane, CAS: 123-91-1

Signal: 1

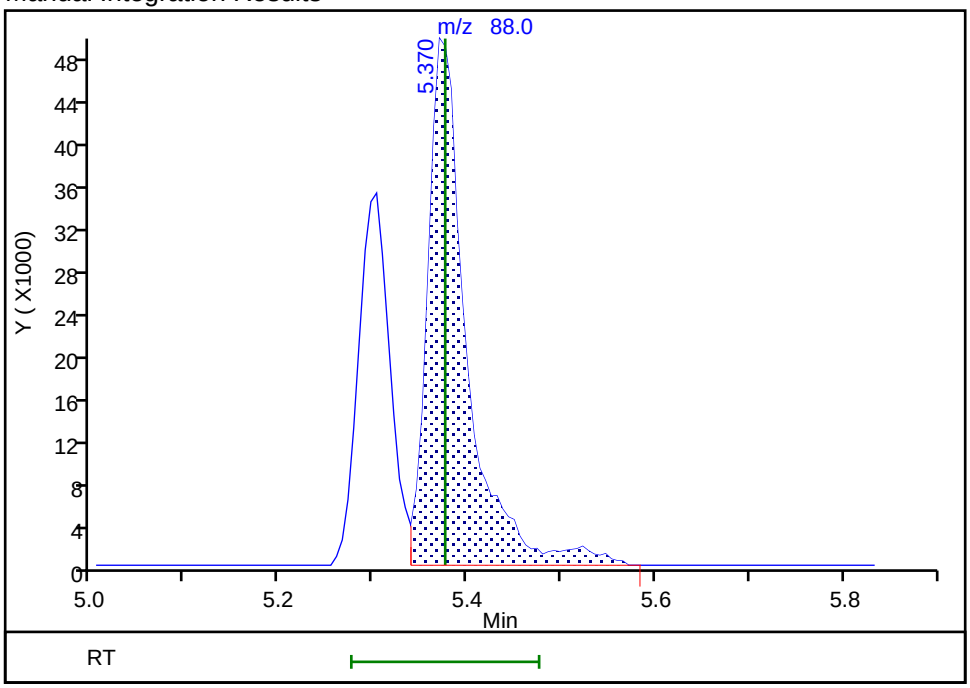
Processing Integration Results

RT: 5.37
Area: 222486
Amount: 1810.4697
Amount Units: ug/l



Manual Integration Results

RT: 5.37
Area: 142368
Amount: 1251.7826
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:52:24

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X13.D
Lims ID: ICIS v50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 06-Oct-2021 15:34:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-013
Misc. Info.: LG 50
Operator ID: jml01693 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub39

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 06:58:48 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 06:40:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.164	1.164	0.000	99	569846	50.0	50.1	
2 Chloromethane	50	1.285	1.285	0.000	99	645145	50.0	50.8	
3 Butadiene	39	1.334	1.334	0.000	91	598055	50.0	46.0	
4 Vinyl chloride	62	1.352	1.352	0.000	98	619920	50.0	49.5	
5 Bromomethane	94	1.535	1.535	0.000	90	397462	50.0	48.0	
6 Chloroethane	64	1.560	1.560	0.000	100	358708	50.0	48.6	
7 Dichlorofluoromethane	67	1.688	1.688	0.000	97	811869	50.0	47.2	
9 Pentane	43	1.737	1.737	0.000	97	810581	50.0	51.3	
8 Trichlorofluoromethane	101	1.749	1.749	0.000	97	770979	50.0	48.9	
12 Ethyl ether	59	1.865	1.865	0.000	92	404505	50.0	50.4	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.877	1.877	0.000	92	548030	50.0	47.5	
14 Acrolein	56	1.956	1.956	0.000	100	1218952	501.1	474.7	
15 1,1-Dichloroethene	96	2.041	2.041	0.000	98	410927	50.0	50.5	
17 Acetone	58	2.060	2.060	0.000	100	103348	100.0	92.3	
16 112TCTFE	101	2.072	2.072	0.000	93	445244	50.0	52.2	
18 Isopropyl alcohol	45	2.145	2.145	0.000	39	172074	250.0	242.1	
19 Iodomethane	142	2.157	2.157	0.000	97	708979	50.0	50.7	
21 Carbon disulfide	76	2.212	2.212	0.000	99	1234039	50.0	49.9	
22 3-Chloro-1-propene	41	2.304	2.304	0.000	91	756629	50.0	50.7	
23 Methyl acetate	43	2.304	2.304	0.000	54	398147	50.0	50.0	
24 Methylene Chloride	84	2.401	2.401	0.000	93	439423	50.0	49.7	
* 25 t-Butyl alcohol-d10 (IS)	65	2.413	2.413	0.000	99	212840	250.0	250.0	
26 2-Methyl-2-propanol	59	2.480	2.480	0.000	99	315758	250.0	245.0	
27 Acrylonitrile	53	2.590	2.590	0.000	99	525161	125.0	127.6	
29 trans-1,2-Dichloroethene	96	2.633	2.633	0.000	99	455550	50.0	50.0	
28 Methyl tert-butyl ether	73	2.639	2.639	0.000	95	1400419	50.0	50.1	
30 Hexane	57	2.870	2.870	0.000	93	726543	50.0	52.2	
32 1,1-Dichloroethane	63	2.999	2.999	0.000	96	827616	50.0	50.1	
34 Isopropyl ether	45	3.072	3.072	0.000	94	1488486	50.0	50.8	
35 2-Chloro-1,3-butadiene	53	3.084	3.084	0.000	91	746107	50.0	51.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.407	3.407	0.000	98	1438367	50.0	50.5	
37 cis-1,2-Dichloroethene	96	3.529	3.529	0.000	82	487916	50.0	49.9	
38 2-Butanone (MEK)	43	3.529	3.529	0.000	79	525883	100.0	98.5	
39 2,2-Dichloropropane	77	3.541	3.541	0.000	88	720517	50.0	51.0	
40 Propionitrile	54	3.578	3.578	0.000	99	420486	250.0	251.3	
41 Methacrylonitrile	67	3.730	3.730	0.000	91	598449	125.0	126.9	
42 Chlorobromomethane	128	3.748	3.748	0.000	97	219526	50.0	49.6	
43 Tetrahydrofuran	71	3.785	3.785	0.000	92	366382	250.0	248.3	
44 Chloroform	83	3.834	3.834	0.000	93	778300	50.0	50.9	
$ 45 Dibromofluoromethane (Surr)	113	3.980	3.980	0.000	93	291823	50.0	49.9	
46 1,1,1-Trichloroethane	97	4.011	4.011	0.000	98	721585	50.0	50.3	
47 Cyclohexane	56	4.071	4.071	0.000	91	897084	50.0	51.3	
48 1,1-Dichloropropene	75	4.163	4.163	0.000	96	660745	50.0	51.1	
49 Carbon tetrachloride	117	4.175	4.175	0.000	98	605862	50.0	52.1	
50 Isobutyl alcohol	41	4.285	4.285	0.000	94	248255	625.0	620.7	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.297	0.000	97	353616	50.0	49.4	
52 Benzene	78	4.364	4.364	0.000	96	1966013	50.0	50.8	
53 1,2-Dichloroethane	62	4.376	4.376	0.000	93	582137	50.0	48.6	
54 Tert-amyl methyl ether	73	4.492	4.492	0.000	98	1401209	50.0	50.7	
* 55 Fluorobenzene (IS)	96	4.638	4.638	0.000	99	1293838	50.0	50.0	
56 n-Heptane	43	4.651	4.651	0.000	92	697997	50.0	51.9	
57 n-Butanol	56	4.955	4.955	0.000	88	209933	625.0	640.7	
59 Trichloroethene	95	5.010	5.010	0.000	99	490654	50.0	50.5	
60 Methylcyclohexane	83	5.211	5.211	0.000	92	916240	50.0	51.6	
61 1,2-Dichloropropane	63	5.224	5.224	0.000	96	482214	50.0	51.0	
131 2-ethoxy-2-methyl butane	87	5.297	5.297	0.000	96	747218	50.0	51.8	
62 Dibromomethane	93	5.340	5.340	0.000	96	278310	50.0	50.3	
64 Methyl methacrylate	69	5.376	5.376	0.000	91	384488	50.0	52.2	
63 1,4-Dioxane	88	5.376	5.376	0.000	31	72030	625.0	633.6	M
65 Dichlorobromomethane	83	5.516	5.516	0.000	100	565798	50.0	51.1	
67 2-Nitropropane	41	5.748	5.748	0.000	98	776791	250.0	253.2	
68 2-Chloroethyl vinyl ether	63	5.852	5.852	0.000	92	337655	50.0	51.4	
69 cis-1,3-Dichloropropene	75	5.992	5.992	0.000	95	769183	50.0	51.5	
71 4-Methyl-2-pentanone (MIBK)	43	6.169	6.169	0.000	97	1140911	100.0	100.3	
$ 72 Toluene-d8 (Surr)	98	6.278	6.278	0.000	93	1270235	50.0	50.2	
73 Toluene	92	6.345	6.345	0.000	98	1238183	50.0	50.8	
74 trans-1,3-Dichloropropene	75	6.595	6.595	0.000	94	690995	50.0	51.5	
75 Ethyl methacrylate	69	6.723	6.723	0.000	90	701569	50.0	53.5	
76 1,1,2-Trichloroethane	97	6.784	6.784	0.000	90	412417	50.0	51.7	
77 Tetrachloroethene	166	6.943	6.943	0.000	97	490970	50.0	51.3	
78 1,3-Dichloropropane	76	6.961	6.961	0.000	91	710379	50.0	50.8	
80 2-Hexanone	43	7.083	7.083	0.000	96	799255	100.0	101.4	
81 Chlorodibromomethane	129	7.205	7.205	0.000	90	427323	50.0	52.1	
82 Ethylene Dibromide	107	7.315	7.315	0.000	98	431053	50.0	51.6	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	84	955432	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	94	1312855	50.0	51.4	
86 1-Chlorohexane	91	7.821	7.821	0.000	98	698111	50.0	51.4	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	96	432558	50.0	51.0	
88 Ethylbenzene	91	7.937	7.937	0.000	98	2379243	50.0	51.9	
89 m-Xylene & p-Xylene	106	8.046	8.046	0.000	100	1839888	100.0	103.8	
91 o-Xylene	106	8.394	8.394	0.000	97	896936	50.0	51.7	
92 Styrene	104	8.406	8.406	0.000	95	1448833	50.0	53.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
93 Bromoform	173	8.540	8.540	0.000	96	302594	50.0	54.5	
94 Isopropylbenzene	105	8.711	8.711	0.000	96	2361391	50.0	52.8	
95 Cyclohexanone	55	8.760	8.760	0.000	92	301540	625.0	647.9	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	87	482962	50.0	50.2	
97 Bromobenzene	156	8.936	8.936	0.000	94	500742	50.0	51.0	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	94	629622	50.0	52.3	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	86	182178	50.0	51.4	
100 trans-1,4-Dichloro-2-butene	53	8.991	8.991	0.000	92	495921	125.0	130.0	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	2797015	50.0	54.0	
102 2-Chlorotoluene	126	9.095	9.095	0.000	96	529586	50.0	50.9	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	89	1941619	50.0	52.7	
104 4-Chlorotoluene	126	9.180	9.180	0.000	94	537142	50.0	51.7	
105 tert-Butylbenzene	134	9.424	9.424	0.000	93	406600	50.0	51.7	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	98	1952360	50.0	53.0	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	2439632	50.0	54.4	
109 1,3-Dichlorobenzene	146	9.656	9.656	0.000	98	979285	50.0	50.8	
110 4-Isopropyltoluene	119	9.698	9.698	0.000	96	2075669	50.0	53.8	
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	96	503019	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	94	985367	50.0	50.3	
113 1,2,3-Trimethylbenzene	105	9.765	9.765	0.000	98	1964838	50.0	52.4	
114 Benzyl chloride	91	9.820	9.820	0.000	99	1360360	50.0	53.9	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	95	1231753	50.0	53.3	
116 p-Diethylbenzene	119	9.973	9.973	0.000	94	1280613	50.0	53.1	
119 1,2-Dichlorobenzene	146	9.985	9.985	0.000	93	945697	50.0	51.1	
118 n-Butylbenzene	92	9.991	9.991	0.000	98	1006983	50.0	53.0	
120 o-diethylbenzene	119	10.052	10.052	0.000	96	1016237	50.0	52.7	
122 1,2-Dibromo-3-Chloropropane	75	10.521	10.521	0.000	85	135672	50.0	51.9	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	98	666664	50.0	52.2	
124 1,2,4-Trichlorobenzene	180	11.076	11.076	0.000	94	609801	50.0	52.1	
126 Hexachlorobutadiene	225	11.192	11.192	0.000	98	232937	50.0	52.2	
127 Naphthalene	128	11.235	11.235	0.000	97	2150121	50.0	53.0	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	96	586417	50.0	51.8	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	93	1183910	50.0	54.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00023	Amount Added:	5.00	Units: uL	
MSV_VCYC_00007	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00086	Amount Added:	2.50	Units: uL	
MSV_CCV_VOC#3_00022	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00021	Amount Added:	5.00	Units: uL	
MSV_V_EE_00005	Amount Added:	5.00	Units: uL	
MSV_Cent_ISSS_00001	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 07-Oct-2021 06:58:48 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X13.D

Injection Date: 06-Oct-2021 15:34:30 Instrument ID: 15648 Operator ID: jml01693

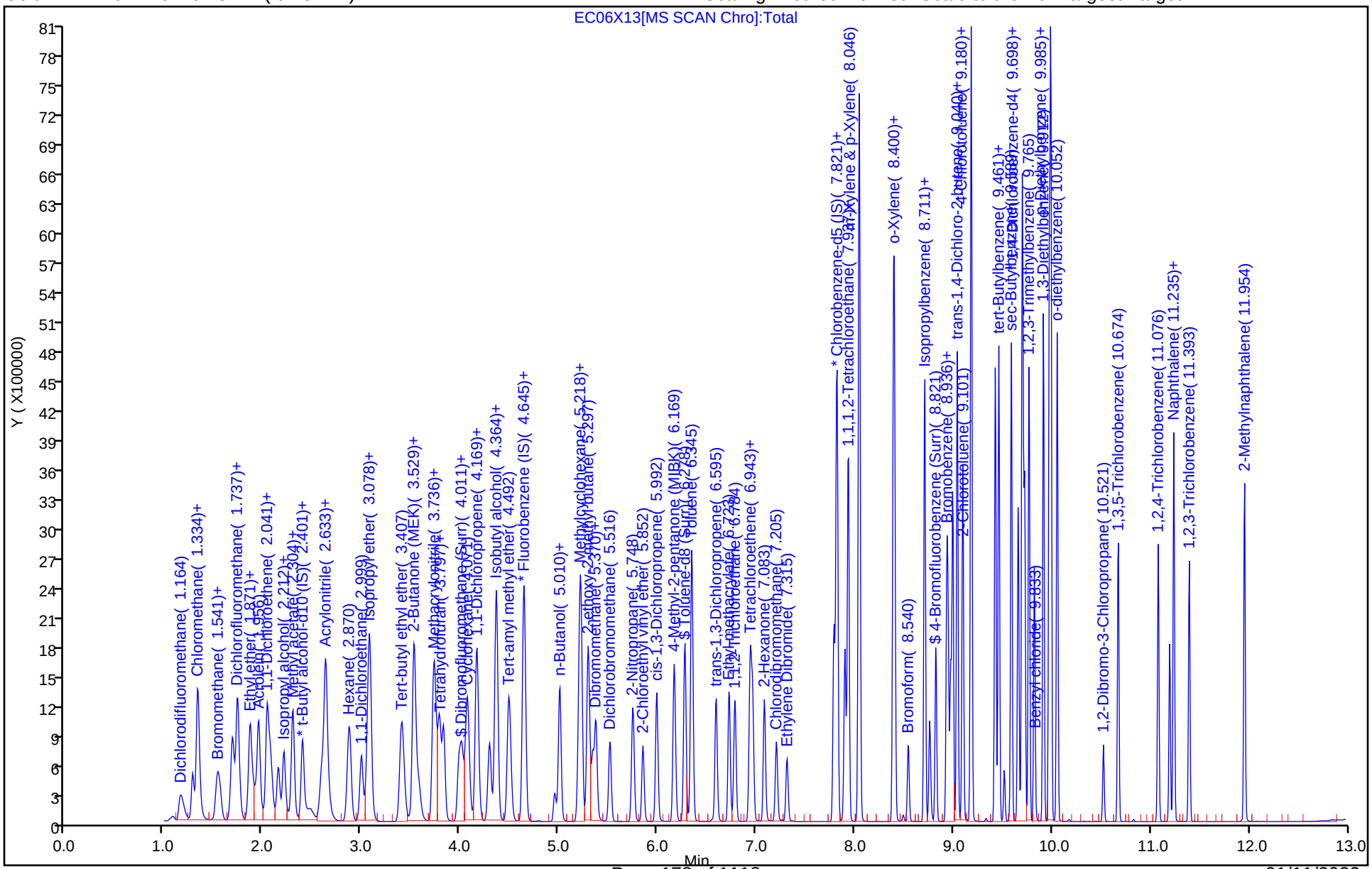
Lims ID: ICIS v50 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSVoa_15648 Limit Group: MSV - 8260C_D

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

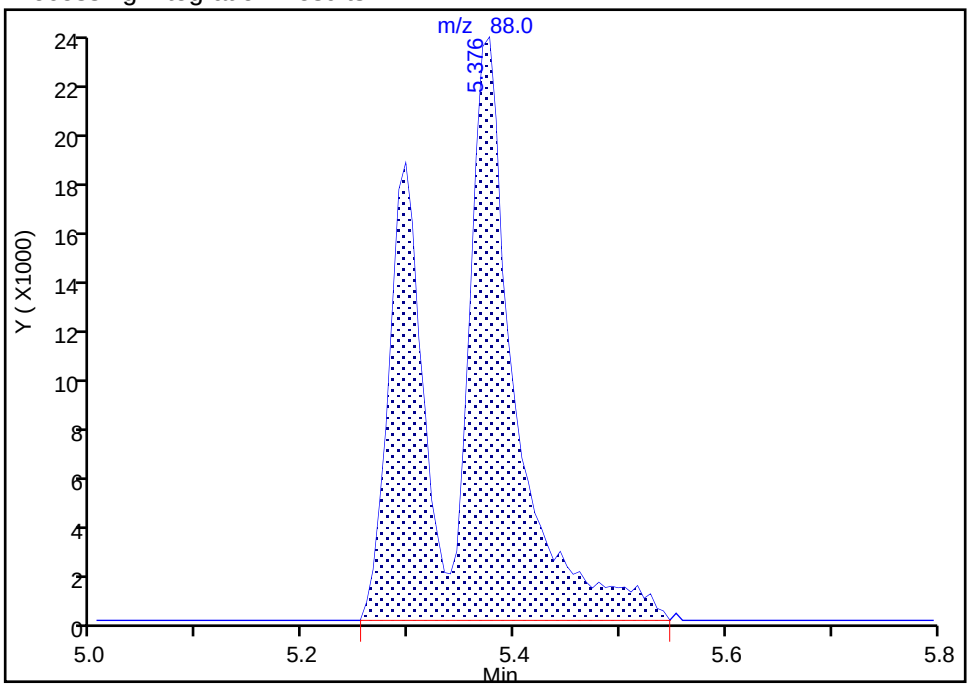
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Injection Date:	06-Oct-2021 15:34:30	Instrument ID:	15648		
Lims ID:	ICIS v50				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

63 1,4-Dioxane, CAS: 123-91-1

Signal: 1

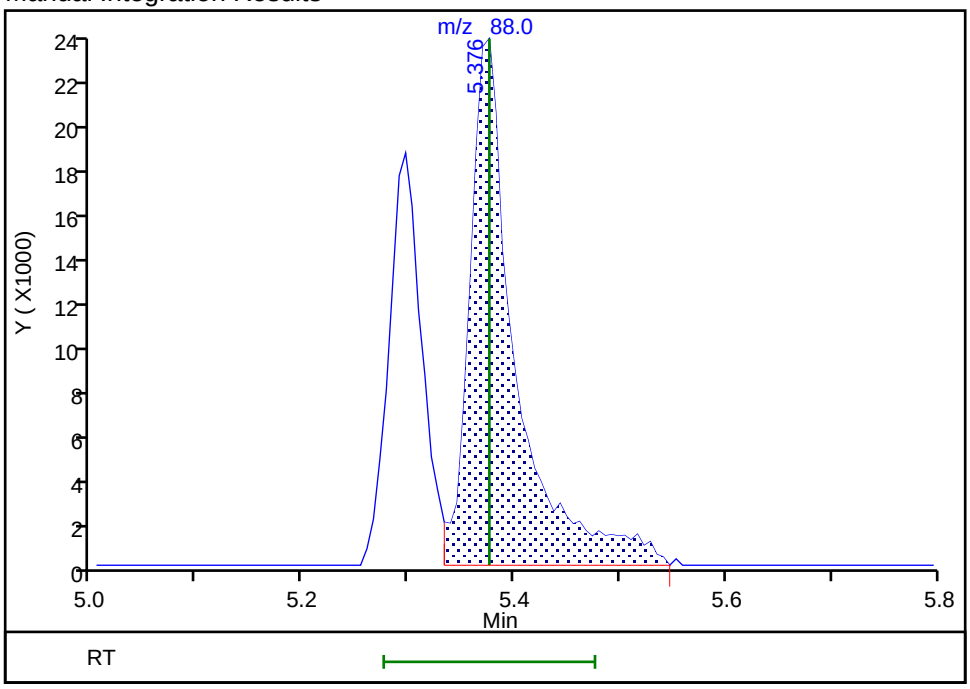
Processing Integration Results

RT: 5.38
Area: 111913
Amount: 795.4137
Amount Units: ug/l



Manual Integration Results

RT: 5.38
Area: 72030
Amount: 633.5649
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:40:06
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X14.D
Lims ID: IC v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Oct-2021 15:54:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-014
Misc. Info.: LG 20
Operator ID: jml01693 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub39

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 06:58:52 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 06:47:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.170	1.170	0.000	99	240246	20.0	21.6	
2 Chloromethane	50	1.292	1.292	0.000	99	252139	20.0	20.3	
3 Butadiene	39	1.341	1.341	0.000	91	257248	20.0	20.2	
4 Vinyl chloride	62	1.359	1.359	0.000	98	262246	20.0	21.4	
5 Bromomethane	94	1.542	1.542	0.000	91	168266	20.0	20.7	
6 Chloroethane	64	1.572	1.572	0.000	100	153626	20.0	21.2	
7 Dichlorofluoromethane	67	1.694	1.694	0.000	97	352218	20.0	20.9	
9 Pentane	43	1.749	1.749	0.000	96	314555	20.0	20.3	
8 Trichlorofluoromethane	101	1.755	1.755	0.000	51	328067	20.0	21.2	
12 Ethyl ether	59	1.877	1.877	0.000	92	161349	20.0	20.5	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.883	1.883	0.000	92	238338	20.0	21.1	
14 Acrolein	56	1.962	1.962	0.000	99	501298	200.4	199.8	
15 1,1-Dichloroethene	96	2.048	2.048	0.000	98	163114	20.0	20.5	
17 Acetone	58	2.066	2.066	0.000	100	45493	40.0	41.6	
16 112TCTFE	101	2.078	2.078	0.000	93	175119	20.0	20.9	
18 Isopropyl alcohol	45	2.164	2.164	0.000	46	131826	200.0	189.8	
19 Iodomethane	142	2.164	2.164	0.000	97	279578	20.0	20.4	
21 Carbon disulfide	76	2.218	2.218	0.000	99	489172	20.0	20.2	
22 3-Chloro-1-propene	41	2.310	2.310	0.000	90	295930	20.0	20.2	
23 Methyl acetate	43	2.316	2.316	0.000	56	157076	20.0	20.1	
24 Methylene Chloride	84	2.407	2.407	0.000	92	177327	20.0	20.5	
* 25 t-Butyl alcohol-d10 (IS)	65	2.420	2.420	0.000	98	207982	250.0	250.0	
26 2-Methyl-2-propanol	59	2.493	2.493	0.000	100	254773	200.0	202.3	
27 Acrylonitrile	53	2.602	2.602	0.000	98	203470	50.0	50.5	
29 trans-1,2-Dichloroethene	96	2.645	2.645	0.000	99	179575	20.0	20.1	
28 Methyl tert-butyl ether	73	2.645	2.645	0.000	95	550583	20.0	20.1	
30 Hexane	57	2.883	2.883	0.000	93	280396	20.0	20.6	
32 1,1-Dichloroethane	63	3.005	3.005	0.000	96	325172	20.0	20.1	
34 Isopropyl ether	45	3.078	3.078	0.000	94	584321	20.0	20.3	
35 2-Chloro-1,3-butadiene	53	3.090	3.090	0.000	91	293539	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.413	3.413	0.000	98	570241	20.0	20.4	
37 cis-1,2-Dichloroethene	96	3.535	3.535	0.000	81	192527	20.0	20.1	
38 2-Butanone (MEK)	43	3.541	3.541	0.000	98	220848	40.0	42.2	
39 2,2-Dichloropropane	77	3.541	3.541	0.000	91	282229	20.0	20.4	
40 Propionitrile	54	3.584	3.584	0.000	99	330221	200.0	201.9	
41 Methacrylonitrile	67	3.736	3.736	0.000	92	476317	100.0	103.1	
42 Chlorobromomethane	128	3.755	3.755	0.000	96	87287	20.0	20.1	
43 Tetrahydrofuran	71	3.791	3.791	0.000	91	144045	100.0	99.9	
44 Chloroform	83	3.840	3.840	0.000	93	305372	20.0	20.4	
$ 45 Dibromofluoromethane (Surr)	113	3.986	3.986	0.000	93	287072	50.0	50.1	
46 1,1,1-Trichloroethane	97	4.017	4.017	0.000	98	283963	20.0	20.2	
47 Cyclohexane	56	4.078	4.078	0.000	91	353295	20.0	20.6	
48 1,1-Dichloropropene	75	4.169	4.169	0.000	97	257993	20.0	20.4	
49 Carbon tetrachloride	117	4.181	4.181	0.000	97	233918	20.0	20.5	
50 Isobutyl alcohol	41	4.297	4.297	0.000	94	197253	500.0	504.7	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.303	4.303	0.000	99	347128	50.0	49.5	
52 Benzene	78	4.364	4.364	0.000	96	770316	20.0	20.3	
53 1,2-Dichloroethane	62	4.377	4.377	0.000	97	230049	20.0	19.6	
54 Tert-amyl methyl ether	73	4.498	4.498	0.000	99	552011	20.0	20.4	
* 55 Fluorobenzene (IS)	96	4.645	4.645	0.000	98	1267533	50.0	50.0	
56 n-Heptane	43	4.657	4.657	0.000	85	268405	20.0	20.4	
57 n-Butanol	56	4.962	4.962	0.000	90	241434	750.0	754.1	
59 Trichloroethene	95	5.011	5.011	0.000	99	195702	20.0	20.6	
60 Methylcyclohexane	83	5.218	5.218	0.000	92	354340	20.0	20.4	
61 1,2-Dichloropropane	63	5.230	5.230	0.000	97	190426	20.0	20.6	
131 2-ethoxy-2-methyl butane	87	5.303	5.303	0.000	95	290231	20.0	20.5	
62 Dibromomethane	93	5.346	5.346	0.000	97	109215	20.0	20.2	
64 Methyl methacrylate	69	5.376	5.376	0.000	92	148593	20.0	20.6	
63 1,4-Dioxane	88	5.382	5.382	0.000	40	52976	500.0	476.9	
65 Dichlorobromomethane	83	5.523	5.523	0.000	99	218386	20.0	20.1	
67 2-Nitropropane	41	5.754	5.754	0.000	99	294468	100.0	98.2	
68 2-Chloroethyl vinyl ether	63	5.858	5.858	0.000	92	132049	20.0	20.5	
69 cis-1,3-Dichloropropene	75	5.992	5.992	0.000	95	295459	20.0	20.2	
S 70 1,2-Dichloroethene, Total	100				0			40.2	
71 4-Methyl-2-pentanone (MIBK)	43	6.169	6.169	0.000	97	459711	40.0	41.2	
$ 72 Toluene-d8 (Surr)	98	6.279	6.279	0.000	93	1239592	50.0	50.0	
73 Toluene	92	6.352	6.352	0.000	98	488753	20.0	20.5	
74 trans-1,3-Dichloropropene	75	6.596	6.596	0.000	93	267371	20.0	20.3	
75 Ethyl methacrylate	69	6.730	6.730	0.000	89	263454	20.0	20.5	
76 1,1,2-Trichloroethane	97	6.785	6.785	0.000	90	162236	20.0	20.7	
77 Tetrachloroethene	166	6.943	6.943	0.000	97	192346	20.0	20.5	
78 1,3-Dichloropropane	76	6.967	6.967	0.000	92	274522	20.0	20.0	
80 2-Hexanone	43	7.083	7.083	0.000	97	323813	40.0	41.9	
81 Chlorodibromomethane	129	7.205	7.205	0.000	90	162865	20.0	20.2	
82 Ethylene Dibromide	107	7.315	7.315	0.000	98	165897	20.0	20.3	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	85	937533	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	94	509001	20.0	20.3	
86 1-Chlorohexane	91	7.827	7.827	0.000	97	271617	20.0	20.4	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	95	168007	20.0	20.2	
88 Ethylbenzene	91	7.937	7.937	0.000	98	939926	20.0	20.9	
89 m-Xylene & p-Xylene	106	8.047	8.047	0.000	100	714106	40.0	41.1	
91 o-Xylene	106	8.394	8.394	0.000	97	350998	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
92 Styrene	104	8.406	8.406	0.000	95	548818	20.0	20.7	
93 Bromoform	173	8.546	8.546	0.000	97	108842	20.0	20.0	
94 Isopropylbenzene	105	8.711	8.711	0.000	96	917903	20.0	20.9	
95 Cyclohexanone	55	8.760	8.760	0.000	92	231378	500.0	508.7	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	87	474424	50.0	50.2	
97 Bromobenzene	156	8.937	8.937	0.000	94	197434	20.0	20.5	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	93	240710	20.0	20.4	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	84	70812	20.0	20.4	
100 trans-1,4-Dichloro-2-butene	53	8.991	8.991	0.000	95	393716	100.0	105.3	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	1080959	20.0	21.3	
102 2-Chlorotoluene	126	9.095	9.095	0.000	96	204934	20.0	20.1	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	88	750476	20.0	20.8	
104 4-Chlorotoluene	126	9.180	9.180	0.000	96	211634	20.0	20.8	
105 tert-Butylbenzene	134	9.424	9.424	0.000	93	157142	20.0	20.4	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	98	750559	20.0	20.8	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	930580	20.0	21.2	
109 1,3-Dichlorobenzene	146	9.656	9.656	0.000	98	382619	20.0	20.2	
110 4-Isopropyltoluene	119	9.699	9.699	0.000	97	796198	20.0	21.1	
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	96	493281	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	94	387111	20.0	20.1	
113 1,2,3-Trimethylbenzene	105	9.766	9.766	0.000	99	765531	20.0	20.8	
114 Benzyl chloride	91	9.821	9.821	0.000	99	512803	20.0	20.7	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	95	467573	20.0	20.6	
116 p-Diethylbenzene	119	9.973	9.973	0.000	95	486690	20.0	20.6	
119 1,2-Dichlorobenzene	146	9.985	9.985	0.000	80	369530	20.0	20.4	
118 n-Butylbenzene	92	9.991	9.991	0.000	97	384554	20.0	20.6	
120 o-diethylbenzene	119	10.052	10.052	0.000	96	390733	20.0	20.6	
S 117 1,3-Dichloropropene, Total	100				0			40.5	
122 1,2-Dibromo-3-Chloropropane	75	10.522	10.522	0.000	84	52296	20.0	20.4	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	98	253783	20.0	20.2	
124 1,2,4-Trichlorobenzene	180	11.076	11.076	0.000	94	233086	20.0	20.3	
126 Hexachlorobutadiene	225	11.192	11.192	0.000	98	88308	20.0	20.2	
127 Naphthalene	128	11.235	11.235	0.000	97	841436	20.0	21.2	
S 125 Xylenes, Total	106				0			61.7	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	96	227438	20.0	20.5	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	92	436944	20.0	20.6	
S 154 Total Diethylbenzene	1				0			61.9	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_VOC#1_00023	Amount Added:	4.00	Units: uL	
MSV_VCYC_00007	Amount Added:	16.00	Units: uL	
MSV_CCV_GASES_00086	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00022	Amount Added:	3.20	Units: uL	
MSV_V_VOA2_00108	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00021	Amount Added:	4.00	Units: uL	
MSV_V_EE_00005	Amount Added:	4.00	Units: uL	
MSV_Cent_ISSS_00001	Amount Added:	5.00	Units: uL	Run Reagent

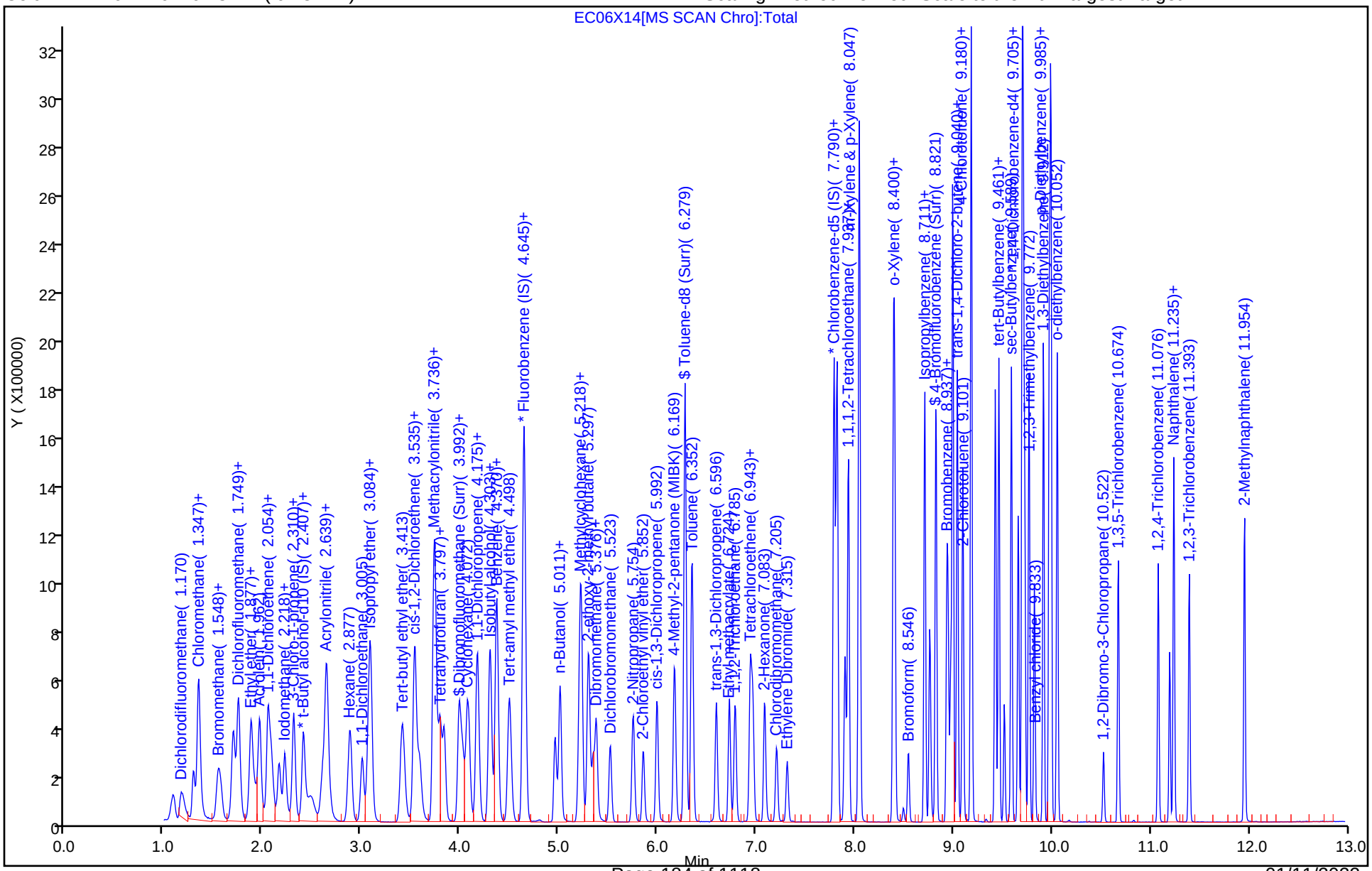
Report Date: 07-Oct-2021 06:58:53 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X14.D

Injection Date:	06-Oct-2021 15:54:30	Instrument ID:	15648	Operator ID:	jml01693
Lims ID:	IC v20			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X15.D
Lims ID: IC v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 06-Oct-2021 16:15:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-015
Misc. Info.: LG 10
Operator ID: jml01693 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub39

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 06:58:56 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 06:46:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.170	1.170	0.000	99	114602	10.0	10.1	
2 Chloromethane	50	1.292	1.292	0.000	99	129561	10.0	10.2	
3 Butadiene	39	1.346	1.341	0.005	93	133955	10.0	10.4	
4 Vinyl chloride	62	1.359	1.359	0.000	98	130477	10.0	10.5	
5 Bromomethane	94	1.542	1.542	0.000	92	87985	10.0	10.7	
6 Chloroethane	64	1.572	1.572	0.000	100	78230	10.0	10.6	
7 Dichlorofluoromethane	67	1.694	1.694	0.000	97	183819	10.0	10.7	
9 Pentane	43	1.749	1.749	0.000	97	154363	10.0	9.81	
8 Trichlorofluoromethane	101	1.761	1.755	0.006	62	163597	10.0	10.4	
12 Ethyl ether	59	1.877	1.877	0.000	92	81319	10.0	10.2	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.883	1.883	0.000	93	122842	10.0	10.7	
14 Acrolein	56	1.968	1.962	0.006	100	254578	100.2	103.5	
15 1,1-Dichloroethene	96	2.054	2.048	0.006	98	82701	10.0	10.2	
17 Acetone	58	2.072	2.066	0.006	100	20887	20.0	19.5	
16 112TCTFE	101	2.084	2.078	0.006	92	84688	10.0	9.96	
18 Isopropyl alcohol	45	2.163	2.164	-0.001	46	69018	100.0	101.4	
19 Iodomethane	142	2.163	2.164	-0.001	97	144225	10.0	10.4	
21 Carbon disulfide	76	2.224	2.218	0.006	99	252364	10.0	10.2	
22 3-Chloro-1-propene	41	2.310	2.310	0.000	91	148958	10.0	10.0	
23 Methyl acetate	43	2.316	2.316	0.000	55	77240	10.0	9.73	
24 Methylene Chloride	84	2.413	2.407	0.006	92	90074	10.0	10.2	
* 25 t-Butyl alcohol-d10 (IS)	65	2.419	2.420	-0.001	95	203930	250.0	250.0	
26 2-Methyl-2-propanol	59	2.493	2.493	0.000	100	124865	100.0	101.1	
27 Acrylonitrile	53	2.602	2.602	0.000	99	104449	25.0	25.5	
29 trans-1,2-Dichloroethene	96	2.645	2.645	0.000	98	91358	10.0	10.1	
28 Methyl tert-butyl ether	73	2.651	2.645	0.006	95	280981	10.0	10.1	
30 Hexane	57	2.883	2.883	0.000	92	135424	10.0	9.76	
32 1,1-Dichloroethane	63	3.005	3.005	0.000	96	167753	10.0	10.2	
34 Isopropyl ether	45	3.078	3.078	0.000	94	293074	10.0	10.0	
35 2-Chloro-1,3-butadiene	53	3.090	3.090	0.000	91	145711	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.407	3.413	-0.006	97	286693	10.0	10.1	
37 cis-1,2-Dichloroethene	96	3.535	3.535	0.000	82	97968	10.0	10.1	
38 2-Butanone (MEK)	43	3.535	3.541	-0.006	76	105721	20.0	19.9	
39 2,2-Dichloropropane	77	3.547	3.541	0.006	74	143510	10.0	10.2	
40 Propionitrile	54	3.590	3.584	0.006	99	164369	100.0	102.5	
41 Methacrylonitrile	67	3.736	3.736	0.000	91	238636	50.0	50.8	
42 Chlorobromomethane	128	3.755	3.755	0.000	95	43938	10.0	9.96	
43 Tetrahydrofuran	71	3.797	3.791	0.006	92	72606	50.0	51.4	
44 Chloroform	83	3.840	3.840	0.000	93	157141	10.0	10.3	
$ 45 Dibromofluoromethane (Surr)	113	3.986	3.986	0.000	93	290732	50.0	49.9	
46 1,1,1-Trichloroethane	97	4.023	4.017	0.006	99	145582	10.0	10.2	
47 Cyclohexane	56	4.078	4.078	0.000	91	172156	10.0	9.88	
48 1,1-Dichloropropene	75	4.169	4.169	0.000	96	131068	10.0	10.2	
49 Carbon tetrachloride	117	4.181	4.181	0.000	96	118705	10.0	10.2	
50 Isobutyl alcohol	41	4.291	4.297	-0.006	94	93281	250.0	243.4	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.303	4.303	0.000	88	357074	50.0	50.0	
52 Benzene	78	4.364	4.364	0.000	96	390187	10.0	10.1	
53 1,2-Dichloroethane	62	4.376	4.377	-0.001	97	120983	10.0	10.1	
54 Tert-amyl methyl ether	73	4.498	4.498	0.000	99	280818	10.0	10.2	
* 55 Fluorobenzene (IS)	96	4.645	4.645	0.000	98	1289171	50.0	50.0	
56 n-Heptane	43	4.657	4.657	0.000	93	127620	10.0	9.53	
57 n-Butanol	56	4.962	4.962	0.000	88	114379	375.0	364.3	
59 Trichloroethene	95	5.010	5.011	-0.001	99	98662	10.0	10.2	
60 Methylcyclohexane	83	5.218	5.218	0.000	92	174352	10.0	9.86	
61 1,2-Dichloropropane	63	5.230	5.230	0.000	96	94846	10.0	10.1	
131 2-ethoxy-2-methyl butane	87	5.297	5.303	-0.006	95	144618	10.0	10.1	
62 Dibromomethane	93	5.346	5.346	0.000	97	53146	10.0	9.65	
64 Methyl methacrylate	69	5.382	5.376	0.006	92	72267	10.0	9.85	
63 1,4-Dioxane	88	5.382	5.382	0.000	41	27873	250.0	255.9	
65 Dichlorobromomethane	83	5.523	5.523	-0.001	99	109426	10.0	9.91	
67 2-Nitropropane	41	5.754	5.754	0.000	99	147125	50.0	50.0	
68 2-Chloroethyl vinyl ether	63	5.858	5.858	0.000	91	63719	10.0	9.73	
69 cis-1,3-Dichloropropene	75	5.992	5.992	0.000	95	148000	10.0	9.95	
S 70 1,2-Dichloroethene, Total	100				0			20.1	
71 4-Methyl-2-pentanone (MIBK)	43	6.175	6.169	0.006	97	224054	20.0	19.8	
$ 72 Toluene-d8 (Surr)	98	6.278	6.279	-0.001	93	1262669	50.0	50.1	
73 Toluene	92	6.352	6.352	0.000	98	247311	10.0	10.2	
74 trans-1,3-Dichloropropene	75	6.595	6.596	-0.001	94	130539	10.0	9.76	
75 Ethyl methacrylate	69	6.730	6.730	0.000	89	126987	10.0	9.72	
76 1,1,2-Trichloroethane	97	6.784	6.785	-0.001	90	80504	10.0	10.1	
77 Tetrachloroethene	166	6.943	6.943	0.000	97	98623	10.0	10.3	
78 1,3-Dichloropropane	76	6.967	6.967	0.000	91	139081	10.0	9.99	
80 2-Hexanone	43	7.089	7.083	0.006	97	157069	20.0	20.0	
81 Chlorodibromomethane	129	7.205	7.205	0.000	91	80410	10.0	9.84	
82 Ethylene Dibromide	107	7.315	7.315	0.000	99	81238	10.0	9.77	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	85	951996	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	94	258062	10.0	10.1	
86 1-Chlorohexane	91	7.827	7.827	0.000	98	136019	10.0	10.1	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	96	83455	10.0	9.88	
88 Ethylbenzene	91	7.937	7.937	0.000	98	474717	10.0	10.4	
89 m-Xylene & p-Xylene	106	8.046	8.047	-0.001	100	361411	20.0	20.5	
91 o-Xylene	106	8.394	8.394	0.000	96	175917	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
92 Styrene	104	8.406	8.406	0.000	95	266766	10.0	9.93	
93 Bromoform	173	8.546	8.546	0.000	96	52897	10.0	9.56	
94 Isopropylbenzene	105	8.711	8.711	0.000	95	462305	10.0	10.4	
95 Cyclohexanone	55	8.760	8.760	0.000	92	105778	250.0	237.2	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	88	474943	50.0	49.5	
97 Bromobenzene	156	8.936	8.937	-0.001	94	99795	10.0	10.1	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	93	119497	10.0	9.89	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	84	35288	10.0	9.92	
100 trans-1,4-Dichloro-2-butene	53	8.991	8.991	0.000	95	187714	50.0	49.1	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	542356	10.0	10.4	
102 2-Chlorotoluene	126	9.095	9.095	0.000	96	106214	10.0	10.2	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	88	372764	10.0	10.1	
104 4-Chlorotoluene	126	9.180	9.180	0.000	95	106003	10.0	10.2	
105 tert-Butylbenzene	134	9.424	9.424	0.000	93	78468	10.0	9.95	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	98	373073	10.0	10.1	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	463485	10.0	10.3	
109 1,3-Dichlorobenzene	146	9.662	9.656	0.006	97	195309	10.0	10.1	
110 4-Isopropyltoluene	119	9.699	9.699	0.000	97	393963	10.0	10.2	
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	97	504622	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	95	192340	10.0	9.79	
113 1,2,3-Trimethylbenzene	105	9.766	9.766	0.000	98	381077	10.0	10.1	
114 Benzyl chloride	91	9.820	9.821	-0.001	99	242053	10.0	9.56	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	95	232110	10.0	10.0	
116 p-Diethylbenzene	119	9.973	9.973	0.000	95	237606	10.0	9.82	
119 1,2-Dichlorobenzene	146	9.991	9.985	0.006	73	187238	10.0	10.1	
118 n-Butylbenzene	92	9.991	9.991	0.000	97	186915	10.0	9.80	
120 o-diethylbenzene	119	10.052	10.052	0.000	96	194622	10.0	10.1	
S 117 1,3-Dichloropropene, Total	100				0			19.7	
122 1,2-Dibromo-3-Chloropropane	75	10.522	10.522	0.000	88	25320	10.0	9.65	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	97	123302	10.0	9.62	
124 1,2,4-Trichlorobenzene	180	11.076	11.076	0.000	94	115962	10.0	9.87	
126 Hexachlorobutadiene	225	11.192	11.192	0.000	98	42683	10.0	9.54	
127 Naphthalene	128	11.235	11.235	0.000	97	407346	10.0	10.0	
S 125 Xylenes, Total	106				0			30.7	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	96	111431	10.0	9.82	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	92	205839	10.0	9.49	
S 154 Total Diethylbenzene	1				0			29.9	

QC Flag Legend

Processing Flags

Reagents:

MSV_CCV_VOC#1_00023	Amount Added:	2.00	Units: uL	
MSV_VCYC_00007	Amount Added:	8.00	Units: uL	
MSV_CCV_GASES_00086	Amount Added:	1.00	Units: uL	
MSV_CCV_VOC#3_00022	Amount Added:	1.60	Units: uL	
MSV_V_VOA2_00108	Amount Added:	2.00	Units: uL	
MSV_CCV_2CEVE_00021	Amount Added:	2.00	Units: uL	
MSV_V_EE_00005	Amount Added:	2.00	Units: uL	
MSV_Cent_ISSS_00001	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 07-Oct-2021 06:58:57 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X15.D

Injection Date: 06-Oct-2021 16:15:30 Instrument ID: 15648 Operator ID: jml01693

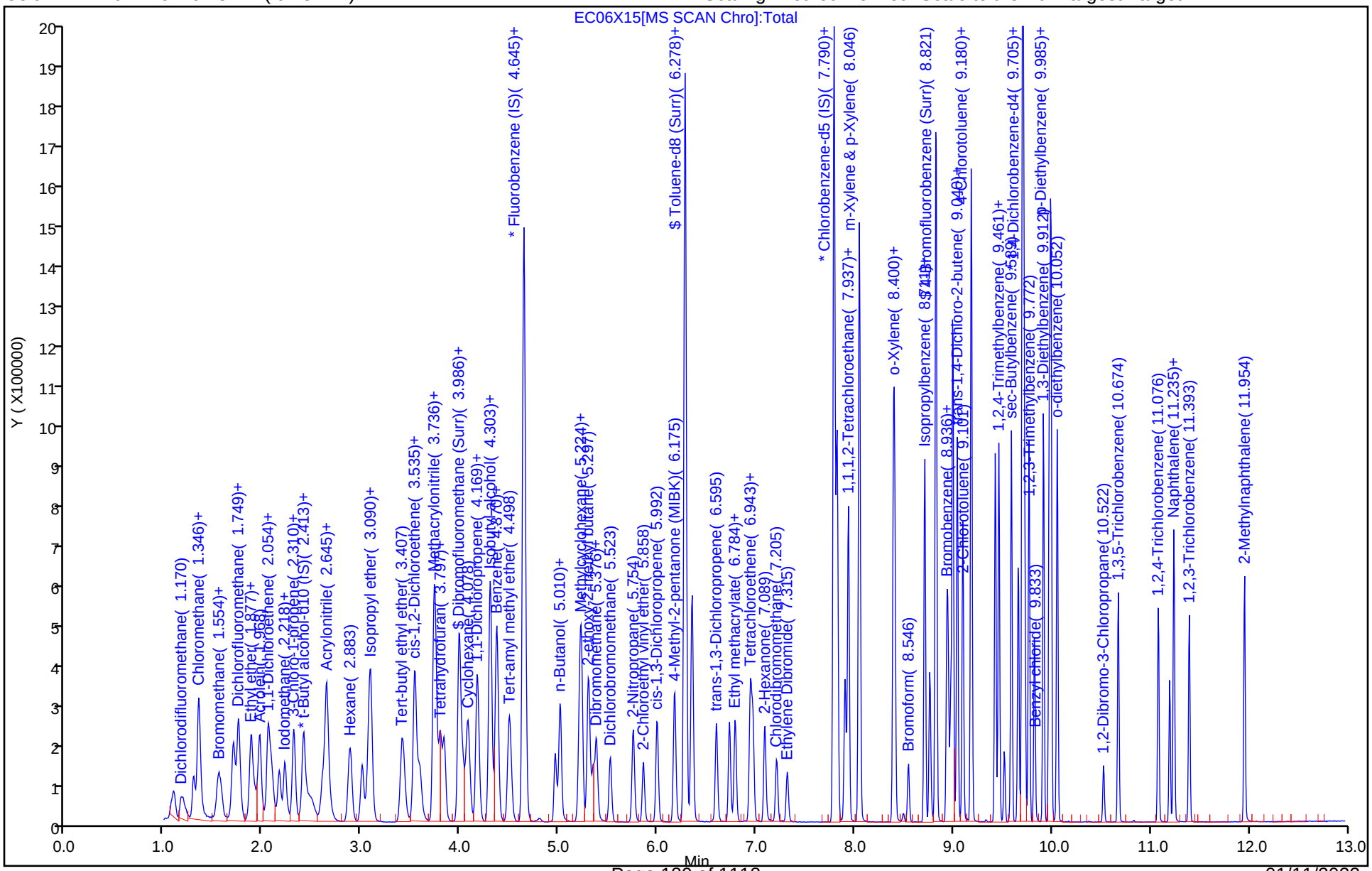
Lims ID: IC v10 Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: MSVoa_15648 Limit Group: MSV - 8260C_D

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X16.D
Lims ID: IC v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Oct-2021 16:35:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-016
Misc. Info.: LG 4
Operator ID: jml01693 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub39

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 06:59:02 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 06:45:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.176	1.170	0.006	99	48611	4.00	4.23	
2 Chloromethane	50	1.292	1.292	0.000	99	56499	4.00	4.40	M
3 Butadiene	39	1.341	1.341	0.000	89	53578	4.00	4.08	
4 Vinyl chloride	62	1.359	1.359	0.000	97	54525	4.00	4.31	
5 Bromomethane	94	1.542	1.542	0.000	91	36998	4.00	4.42	
6 Chloroethane	64	1.572	1.572	0.000	98	31798	4.00	4.26	
7 Dichlorofluoromethane	67	1.694	1.694	0.000	97	74212	4.00	4.26	
9 Pentane	43	1.743	1.749	-0.006	97	64584	4.00	4.05	
8 Trichlorofluoromethane	101	1.700	1.755	-0.055	52	69079	4.00	4.33	
12 Ethyl ether	59	1.877	1.877	0.000	93	32456	4.00	4.00	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.883	1.883	0.000	81	50207	4.00	4.30	
14 Acrolein	56	1.962	1.962	0.000	99	102599	40.1	42.8	
15 1,1-Dichloroethene	96	2.048	2.048	0.000	98	33093	4.00	4.02	
17 Acetone	58	2.066	2.066	0.000	84	9257	8.00	8.86	
16 112TCTFE	101	2.078	2.078	0.000	91	35901	4.00	4.16	
18 Isopropyl alcohol	45	2.157	2.164	-0.007	70	51865	80.0	78.3	
19 Iodomethane	142	2.164	2.164	0.000	98	57044	4.00	4.03	
21 Carbon disulfide	76	2.218	2.218	0.000	99	104144	4.00	4.16	
22 3-Chloro-1-propene	41	2.310	2.310	0.000	91	62856	4.00	4.16	
23 Methyl acetate	43	2.322	2.316	0.006	65	32183	4.00	3.99	
24 Methylene Chloride	84	2.407	2.407	0.000	92	36400	4.00	4.07	
* 25 t-Butyl alcohol-d10 (IS)	65	2.420	2.420	0.000	75	198486	250.0	250.0	
26 2-Methyl-2-propanol	59	2.481	2.493	-0.012	100	96831	80.0	80.6	
27 Acrylonitrile	53	2.602	2.602	0.000	99	39434	10.0	9.48	
29 trans-1,2-Dichloroethene	96	2.645	2.645	0.000	98	38094	4.00	4.13	
28 Methyl tert-butyl ether	73	2.639	2.645	-0.006	95	112890	4.00	3.99	
30 Hexane	57	2.877	2.883	-0.006	92	55258	4.00	3.92	
32 1,1-Dichloroethane	63	3.005	3.005	0.000	96	68653	4.00	4.11	
34 Isopropyl ether	45	3.072	3.078	-0.006	95	118320	4.00	3.99	
35 2-Chloro-1,3-butadiene	53	3.090	3.090	0.000	90	59945	4.00	4.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.413	3.413	0.000	98	114151	4.00	3.97	
37 cis-1,2-Dichloroethene	96	3.535	3.535	0.000	82	40284	4.00	4.07	
38 2-Butanone (MEK)	43	3.541	3.541	0.000	72	42516	8.00	7.88	
39 2,2-Dichloropropane	77	3.547	3.541	0.006	78	58918	4.00	4.12	
40 Propionitrile	54	3.590	3.584	0.006	99	125055	80.0	80.1	
41 Methacrylonitrile	67	3.736	3.736	0.000	91	184072	40.0	38.6	
42 Chlorobromomethane	128	3.755	3.755	0.000	96	18084	4.00	4.04	
43 Tetrahydrofuran	71	3.803	3.791	0.012	83	27949	20.0	20.3	
44 Chloroform	83	3.840	3.840	0.000	93	63195	4.00	4.09	
$ 45 Dibromofluoromethane (Surr)	113	3.986	3.986	0.000	93	293273	50.0	49.6	
46 1,1,1-Trichloroethane	97	4.017	4.017	0.000	98	59570	4.00	4.11	
47 Cyclohexane	56	4.078	4.078	0.000	91	71735	4.00	4.06	
48 1,1-Dichloropropene	75	4.169	4.169	0.000	95	53291	4.00	4.08	
49 Carbon tetrachloride	117	4.175	4.181	-0.006	94	47401	4.00	4.03	
50 Isobutyl alcohol	41	4.291	4.297	-0.006	93	72873	200.0	195.4	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.303	4.303	0.000	85	360923	50.0	49.8	
52 Benzene	78	4.364	4.364	0.000	96	160920	4.00	4.11	
53 1,2-Dichloroethane	62	4.377	4.377	0.000	97	48189	4.00	3.98	
54 Tert-amyl methyl ether	73	4.492	4.498	-0.006	98	110338	4.00	3.94	
* 55 Fluorobenzene (IS)	96	4.645	4.645	0.000	99	1308203	50.0	50.0	
56 n-Heptane	43	4.651	4.657	-0.006	92	51628	4.00	3.80	
57 n-Butanol	56	4.962	4.962	0.000	89	98121	350.0	321.1	
59 Trichloroethene	95	5.011	5.011	0.000	98	39869	4.00	4.06	
60 Methylcyclohexane	83	5.212	5.218	-0.006	93	70793	4.00	3.94	
61 1,2-Dichloropropane	63	5.230	5.230	0.000	96	37756	4.00	3.95	
131 2-ethoxy-2-methyl butane	87	5.297	5.303	-0.006	94	57423	4.00	3.94	
62 Dibromomethane	93	5.346	5.346	0.000	97	22033	4.00	3.94	
64 Methyl methacrylate	69	5.382	5.376	0.006	93	27065	4.00	3.64	
63 1,4-Dioxane	88	5.376	5.382	-0.006	57	19267	200.0	181.7	
65 Dichlorobromomethane	83	5.517	5.523	-0.006	98	44476	4.00	3.97	
67 2-Nitropropane	41	5.754	5.754	0.000	99	55967	20.0	19.6	
68 2-Chloroethyl vinyl ether	63	5.858	5.858	0.000	91	25004	4.00	3.76	
69 cis-1,3-Dichloropropene	75	5.998	5.992	0.006	95	57440	4.00	3.80	
S 70 1,2-Dichloroethene, Total	100				0			8.21	
71 4-Methyl-2-pentanone (MIBK)	43	6.175	6.169	0.006	97	89805	8.00	7.81	
$ 72 Toluene-d8 (Surr)	98	6.279	6.279	0.000	93	1263936	50.0	49.7	
73 Toluene	92	6.352	6.352	0.000	98	100576	4.00	4.10	
74 trans-1,3-Dichloropropene	75	6.596	6.596	0.000	94	52232	4.00	3.87	
75 Ethyl methacrylate	69	6.730	6.730	0.000	90	48183	4.00	3.65	
76 1,1,2-Trichloroethane	97	6.785	6.785	0.000	92	30901	4.00	3.85	
77 Tetrachloroethene	166	6.943	6.943	0.000	96	39449	4.00	4.09	
78 1,3-Dichloropropane	76	6.967	6.967	0.000	92	54483	4.00	3.87	
80 2-Hexanone	43	7.089	7.083	0.006	97	61097	8.00	7.70	
81 Chlorodibromomethane	129	7.211	7.205	0.006	90	31011	4.00	3.76	
82 Ethylene Dibromide	107	7.315	7.315	0.000	96	33633	4.00	4.00	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	86	961429	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	95	105020	4.00	4.08	
86 1-Chlorohexane	91	7.827	7.827	0.000	98	55718	4.00	4.08	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	94	34714	4.00	4.07	
88 Ethylbenzene	91	7.937	7.937	0.000	98	183303	4.00	3.97	
89 m-Xylene & p-Xylene	106	8.047	8.047	0.000	100	142946	8.00	8.02	
91 o-Xylene	106	8.394	8.394	0.000	96	70216	4.00	4.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
92 Styrene	104	8.406	8.406	0.000	93	100488	4.00	3.70	
93 Bromoform	173	8.546	8.546	0.000	95	19882	4.00	3.56	
94 Isopropylbenzene	105	8.711	8.711	0.000	96	183096	4.00	4.07	
95 Cyclohexanone	55	8.760	8.760	0.000	91	78522	200.0	180.9	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	87	487727	50.0	50.3	
97 Bromobenzene	156	8.937	8.937	0.000	95	39487	4.00	3.98	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	94	45913	4.00	3.77	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	84	14325	4.00	4.00	
100 trans-1,4-Dichloro-2-butene	53	8.991	8.991	0.000	95	144548	40.0	37.5	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	219948	4.00	4.20	
102 2-Chlorotoluene	126	9.095	9.095	0.000	97	43341	4.00	4.12	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	88	149479	4.00	4.01	
104 4-Chlorotoluene	126	9.180	9.180	0.000	96	41119	4.00	3.92	
105 tert-Butylbenzene	134	9.424	9.424	0.000	93	31910	4.00	4.02	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	97	146939	4.00	3.94	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	182699	4.00	4.03	
109 1,3-Dichlorobenzene	146	9.662	9.656	0.006	98	78191	4.00	4.01	
110 4-Isopropyltoluene	119	9.699	9.699	0.000	97	155812	4.00	4.00	
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	96	508335	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	94	78711	4.00	3.98	
113 1,2,3-Trimethylbenzene	105	9.766	9.766	0.000	98	150840	4.00	3.98	
114 Benzyl chloride	91	9.821	9.821	0.000	98	93705	4.00	3.67	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	94	89789	4.00	3.85	
116 p-Diethylbenzene	119	9.973	9.973	0.000	96	93814	4.00	3.85	
119 1,2-Dichlorobenzene	146	9.991	9.985	0.006	78	74669	4.00	3.99	
118 n-Butylbenzene	92	9.991	9.991	0.000	97	76013	4.00	3.96	
120 o-diethylbenzene	119	10.052	10.052	0.000	95	77083	4.00	3.95	
S 117 1,3-Dichloropropene, Total	100				0			7.67	
122 1,2-Dibromo-3-Chloropropane	75	10.522	10.522	0.000	79	10326	4.00	3.91	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	97	49044	4.00	3.80	
124 1,2,4-Trichlorobenzene	180	11.083	11.076	0.007	94	45030	4.00	3.81	
126 Hexachlorobutadiene	225	11.192	11.192	0.000	97	16967	4.00	3.76	
127 Naphthalene	128	11.235	11.235	0.000	97	154746	4.00	3.78	
S 125 Xylenes, Total	106				0			12.0	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	96	44046	4.00	3.85	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	92	76108	4.00	3.48	
S 154 Total Diethylbenzene	1				0			11.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00023	Amount Added:	4.00	Units: uL	
MSV_VCYC_00007	Amount Added:	32.00	Units: uL	
MSV_CCV_GASES_00086	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00022	Amount Added:	3.20	Units: uL	
MSV_V_VOA2_00108	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00021	Amount Added:	4.00	Units: uL	
MSV_V_EE_00005	Amount Added:	4.00	Units: uL	
MSV_Cent_ISSS_00001	Amount Added:	5.00	Units: uL	Run Reagent

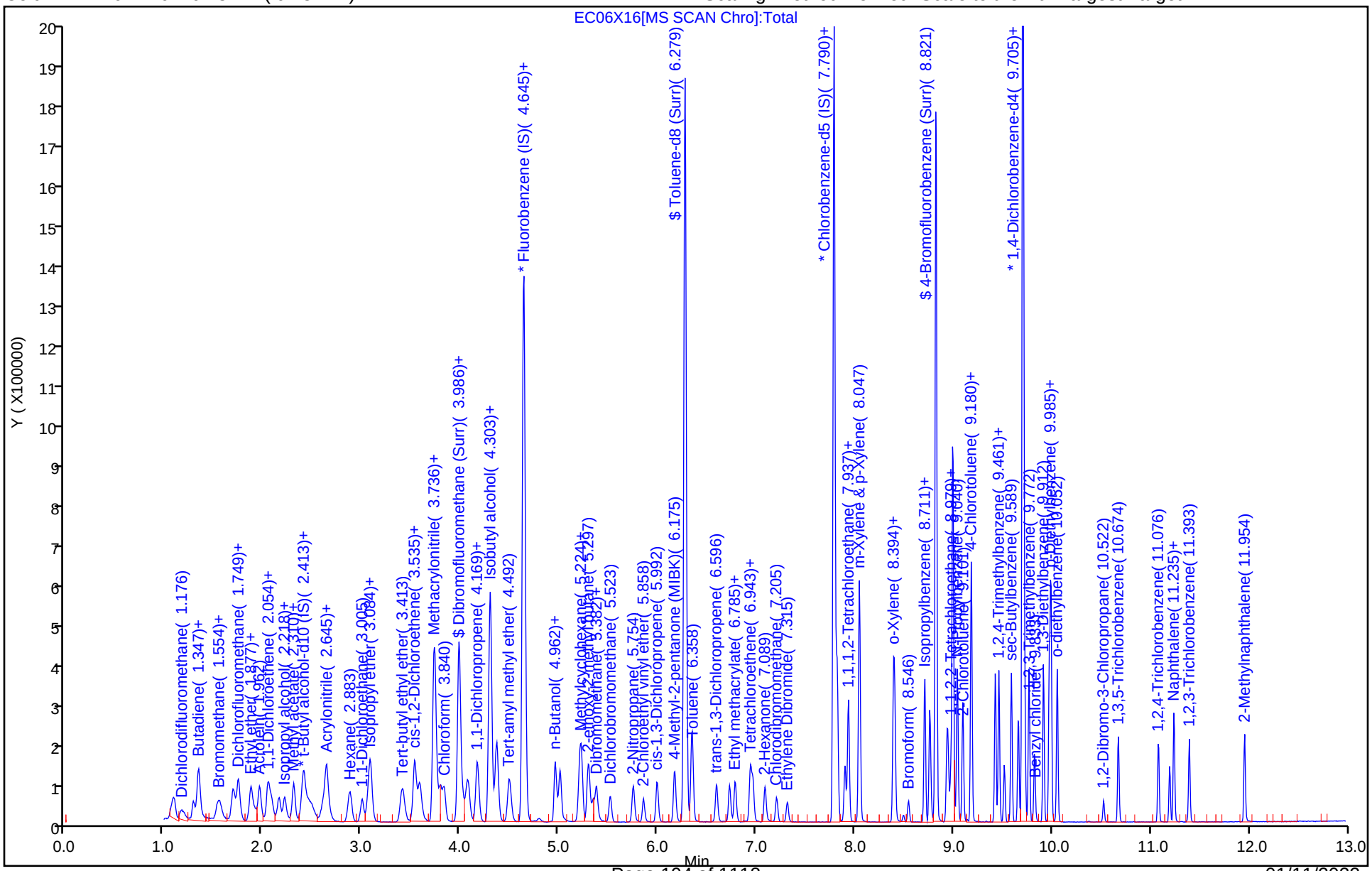
Report Date: 07-Oct-2021 06:59:03 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X16.D

Injection Date:	06-Oct-2021 16:35:30	Instrument ID:	15648	Operator ID:	jml01693
Lims ID:	IC v4			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

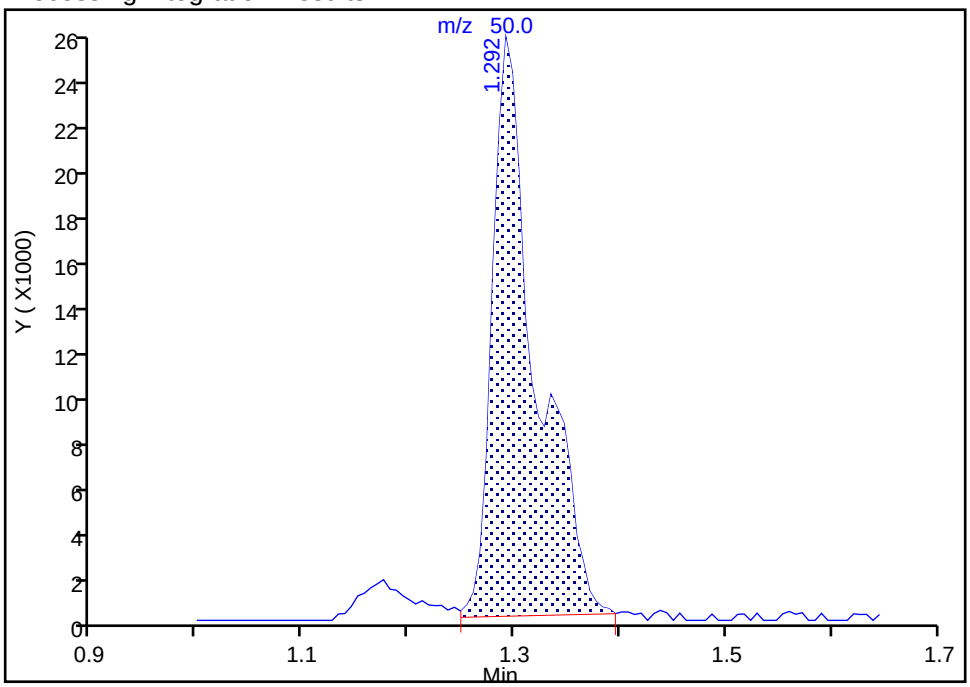
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Injection Date:	06-Oct-2021 16:35:30	Instrument ID:	15648		
Lims ID:	IC v4				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

2 Chloromethane, CAS: 74-87-3

Signal: 1

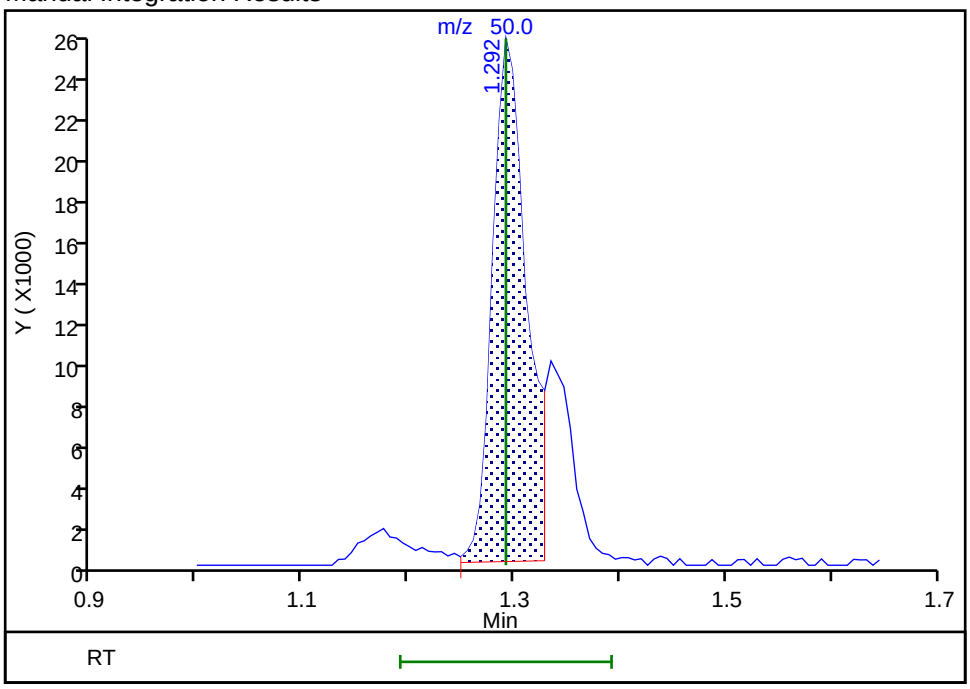
Processing Integration Results

RT: 1.29
Area: 71344
Amount: 5.406350
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 56499
Amount: 4.403296
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:45:49
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D
Lims ID: IC v1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Oct-2021 16:55:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-017
Misc. Info.: LG 1
Operator ID: jml01693 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub39

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 06:59:08 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 06:42:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.176	1.170	0.006	97	10482	1.00	0.9357	
2 Chloromethane	50	1.285	1.292	-0.007	96	12057	1.00	0.9643	M
3 Butadiene	39	1.340	1.341	-0.001	89	15731	1.00	1.23	M
4 Vinyl chloride	62	1.365	1.359	0.006	94	11285	1.00	0.9144	
5 Bromomethane	94	1.535	1.542	-0.007	90	8209	1.00	1.01	
6 Chloroethane	64	1.566	1.572	-0.006	61	7124	1.00	0.9796	
7 Dichlorofluoromethane	67	1.700	1.694	0.006	96	17339	1.00	1.02	
9 Pentane	43	1.749	1.749	0.000	97	15001	1.00	0.9644	
8 Trichlorofluoromethane	101	1.700	1.755	-0.055	54	14792	1.00	0.9521	
12 Ethyl ether	59	1.877	1.877	0.000	92	7810	1.00	0.9879	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.889	1.883	0.006	77	11342	1.00	1.00	
14 Acrolein	56	1.968	1.962	0.006	97	25311	10.0	10.8	
15 1,1-Dichloroethene	96	2.047	2.048	-0.001	98	7979	1.00	0.99	
17 Acetone	58	2.078	2.066	0.012	96	2193	2.00	2.15	
16 112TCTFE	101	2.084	2.078	0.006	92	7342	1.00	0.8731	
18 Isopropyl alcohol	45	2.157	2.164	-0.007	52	14837	20.0	22.9	
19 Iodomethane	142	2.163	2.164	-0.001	98	13321	1.00	0.9669	
21 Carbon disulfide	76	2.224	2.218	0.006	99	24387	1.00	1.00	
22 3-Chloro-1-propene	41	2.310	2.310	0.000	93	14079	1.00	0.9570	
23 Methyl acetate	43	2.322	2.316	0.006	63	8137	1.00	1.04	
24 Methylene Chloride	84	2.407	2.407	0.000	51	8797	1.00	1.01	
* 25 t-Butyl alcohol-d10 (IS)	65	2.419	2.420	-0.001	38	193822	250.0	250.0	
26 2-Methyl-2-propanol	59	2.493	2.493	0.000	99	24382	20.0	20.8	
27 Acrylonitrile	53	2.608	2.602	0.006	99	10043	2.50	2.48	
29 trans-1,2-Dichloroethene	96	2.645	2.645	0.000	87	9334	1.00	1.04	
28 Methyl tert-butyl ether	73	2.639	2.645	-0.006	94	28431	1.00	1.03	
30 Hexane	57	2.871	2.883	-0.013	93	12464	1.00	0.9083	
32 1,1-Dichloroethane	63	3.005	3.005	0.000	95	16037	1.00	0.9863	
34 Isopropyl ether	45	3.078	3.078	0.000	94	28386	1.00	0.9829	
35 2-Chloro-1,3-butadiene	53	3.084	3.090	-0.006	80	12949	1.00	0.9021	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.407	3.413	-0.006	97	27934	1.00	1.00	
37 cis-1,2-Dichloroethene	96	3.535	3.535	0.000	82	10045	1.00	1.04	
38 2-Butanone (MEK)	43	3.559	3.541	0.018	87	10142	2.00	1.93	
39 2,2-Dichloropropane	77	3.541	3.541	0.000	63	12696	1.00	0.9122	
40 Propionitrile	54	3.596	3.584	0.012	98	31068	20.0	20.4	
41 Methacrylonitrile	67	3.736	3.736	0.000	93	44483	10.0	9.57	
42 Chlorobromomethane	128	3.761	3.755	0.006	93	4654	1.00	1.07	
43 Tetrahydrofuran	71	3.797	3.791	0.006	92	6864	5.00	5.11	
44 Chloroform	83	3.840	3.840	0.000	94	14009	1.00	0.9305	
$ 45 Dibromofluoromethane (Surr)	113	3.986	3.986	0.000	93	287128	50.0	49.8	
46 1,1,1-Trichloroethane	97	4.017	4.017	0.000	97	13806	1.00	0.9765	
47 Cyclohexane	56	4.071	4.078	-0.007	90	15963	1.00	0.9269	
48 1,1-Dichloropropene	75	4.169	4.169	0.000	94	11818	1.00	0.9283	
49 Carbon tetrachloride	117	4.175	4.181	-0.006	70	9861	1.00	0.8609	
50 Isobutyl alcohol	41	4.291	4.297	-0.006	32	19050	50.0	52.3	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.303	4.303	0.000	77	355300	50.0	50.4	
52 Benzene	78	4.364	4.364	0.000	95	36488	1.00	0.9571	
53 1,2-Dichloroethane	62	4.376	4.377	-0.001	96	13199	1.00	1.12	
54 Tert-amyl methyl ether	73	4.492	4.498	-0.006	99	26544	1.00	0.9739	
* 55 Fluorobenzene (IS)	96	4.645	4.645	0.000	99	1274764	50.0	50.0	
56 n-Heptane	43	4.651	4.657	-0.006	36	12289	1.00	0.9277	
57 n-Butanol	56	4.974	4.962	0.012	91	26865	87.5	90.0	
59 Trichloroethene	95	5.010	5.011	-0.001	97	9047	1.00	0.9460	
60 Methylcyclohexane	83	5.218	5.218	0.000	89	16484	1.00	0.9424	
61 1,2-Dichloropropane	63	5.230	5.230	0.000	96	8692	1.00	0.9333	
131 2-ethoxy-2-methyl butane	87	5.303	5.303	0.000	94	13538	1.00	0.9522	
62 Dibromomethane	93	5.346	5.346	0.000	92	5765	1.00	1.06	
64 Methyl methacrylate	69	5.382	5.376	0.006	90	6534	1.00	0.9011	
63 1,4-Dioxane	88	5.394	5.382	0.012	57	6103	50.0	58.9	
65 Dichlorobromomethane	83	5.522	5.523	-0.001	98	10329	1.00	0.9464	
67 2-Nitropropane	41	5.754	5.754	0.000	97	14335	5.00	5.13	
68 2-Chloroethyl vinyl ether	63	5.864	5.858	0.006	94	6240	1.00	0.9632	
69 cis-1,3-Dichloropropene	75	5.998	5.992	0.006	94	14137	1.00	0.9607	
S 70 1,2-Dichloroethene, Total	100				0			2.08	
71 4-Methyl-2-pentanone (MIBK)	43	6.175	6.169	0.006	98	21303	2.00	1.90	
$ 72 Toluene-d8 (Surr)	98	6.278	6.279	-0.001	93	1246212	50.0	49.8	
73 Toluene	92	6.352	6.352	0.000	97	22722	1.00	0.9417	
74 trans-1,3-Dichloropropene	75	6.595	6.596	-0.001	94	12500	1.00	0.9397	
75 Ethyl methacrylate	69	6.736	6.730	0.006	89	11340	1.00	0.8732	
76 1,1,2-Trichloroethane	97	6.790	6.785	0.005	90	7491	1.00	0.9480	
77 Tetrachloroethene	166	6.943	6.943	0.000	95	8479	1.00	0.8938	
78 1,3-Dichloropropane	76	6.967	6.967	0.000	90	13876	1.00	1.00	
80 2-Hexanone	43	7.095	7.083	0.012	94	13843	2.00	1.77	
81 Chlorodibromomethane	129	7.211	7.205	0.006	89	7419	1.00	0.9128	
82 Ethylene Dibromide	107	7.321	7.315	0.006	98	7767	1.00	0.9393	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	85	946638	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	97	23747	1.00	0.9381	
86 1-Chlorohexane	91	7.821	7.827	-0.006	91	12395	1.00	0.9213	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	92	7865	1.00	0.9360	
88 Ethylbenzene	91	7.937	7.937	0.000	98	41786	1.00	0.9196	
89 m-Xylene & p-Xylene	106	8.046	8.047	-0.001	100	32104	2.00	1.83	
91 o-Xylene	106	8.394	8.394	0.000	97	15858	1.00	0.9229	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
92 Styrene	104	8.406	8.406	0.000	93	22540	1.00	0.8438	
93 Bromoform	173	8.546	8.546	0.000	94	4706	1.00	0.8556	
94 Isopropylbenzene	105	8.711	8.711	0.000	95	39999	1.00	0.9028	
95 Cyclohexanone	55	8.766	8.760	0.006	92	19989	50.0	47.2	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	88	472185	50.0	49.5	
97 Bromobenzene	156	8.936	8.937	-0.001	95	9123	1.00	0.9377	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	94	11194	1.00	0.9387	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	81	3358	1.00	0.9566	
100 trans-1,4-Dichloro-2-butene	53	8.997	8.991	0.006	95	33110	10.0	8.77	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	45472	1.00	0.8873	
102 2-Chlorotoluene	126	9.095	9.095	0.000	97	9557	1.00	0.9272	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	89	32270	1.00	0.8847	
104 4-Chlorotoluene	126	9.186	9.180	0.006	94	9362	1.00	0.9110	
105 tert-Butylbenzene	134	9.424	9.424	0.000	93	7044	1.00	0.9050	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	96	32730	1.00	0.8968	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	38670	1.00	0.8707	
109 1,3-Dichlorobenzene	146	9.662	9.656	0.006	98	18154	1.00	0.9509	
110 4-Isopropyltoluene	119	9.698	9.699	-0.001	96	32607	1.00	0.8541	
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	96	497986	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	93	19893	1.00	1.03	
113 1,2,3-Trimethylbenzene	105	9.766	9.766	0.000	98	34204	1.00	0.9212	
114 Benzyl chloride	91	9.826	9.821	0.005	98	20334	1.00	0.8134	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	94	18922	1.00	0.8276	
116 p-Diethylbenzene	119	9.973	9.973	0.000	95	20933	1.00	0.8765	
119 1,2-Dichlorobenzene	146	9.991	9.985	0.006	75	17876	1.00	0.9753	
118 n-Butylbenzene	92	9.991	9.991	0.000	96	15357	1.00	0.8162	
120 o-diethylbenzene	119	10.052	10.052	0.000	94	16029	1.00	0.8391	
S 117 1,3-Dichloropropene, Total	100				0			1.90	
122 1,2-Dibromo-3-Chloropropane	75	10.528	10.522	0.006	77	2245	1.00	0.8671	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	95	12013	1.00	0.9494	
124 1,2,4-Trichlorobenzene	180	11.082	11.076	0.006	95	10516	1.00	0.9074	
126 Hexachlorobutadiene	225	11.198	11.192	0.006	95	4146	1.00	0.9386	
127 Naphthalene	128	11.241	11.235	0.006	97	39170	1.00	0.9755	
S 125 Xylenes, Total	106				0			2.75	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	94	10418	1.00	0.9303	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	93	19655	1.00	0.9181	
S 154 Total Diethylbenzene	1				0			2.54	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_4ppbEE_00262	Amount Added: 12.50	Units: mL	
MSV_Cent_ISSS_00001	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 07-Oct-2021 06:59:08 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Injection Date:	06-Oct-2021 16:55:30	Instrument ID:	15648	Operator ID:	jml01693
Lims ID:	IC v1			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

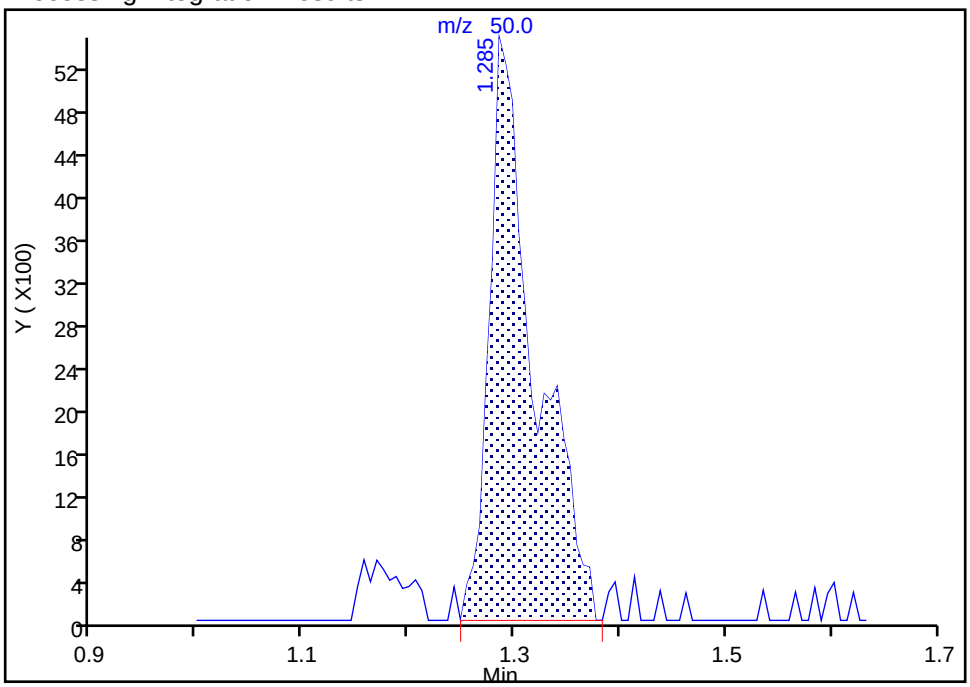
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Injection Date:	06-Oct-2021 16:55:30	Instrument ID:	15648		
Lims ID:	IC v1				
Client ID:					
Operator ID:	jml01693	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

2 Chloromethane, CAS: 74-87-3

Signal: 1

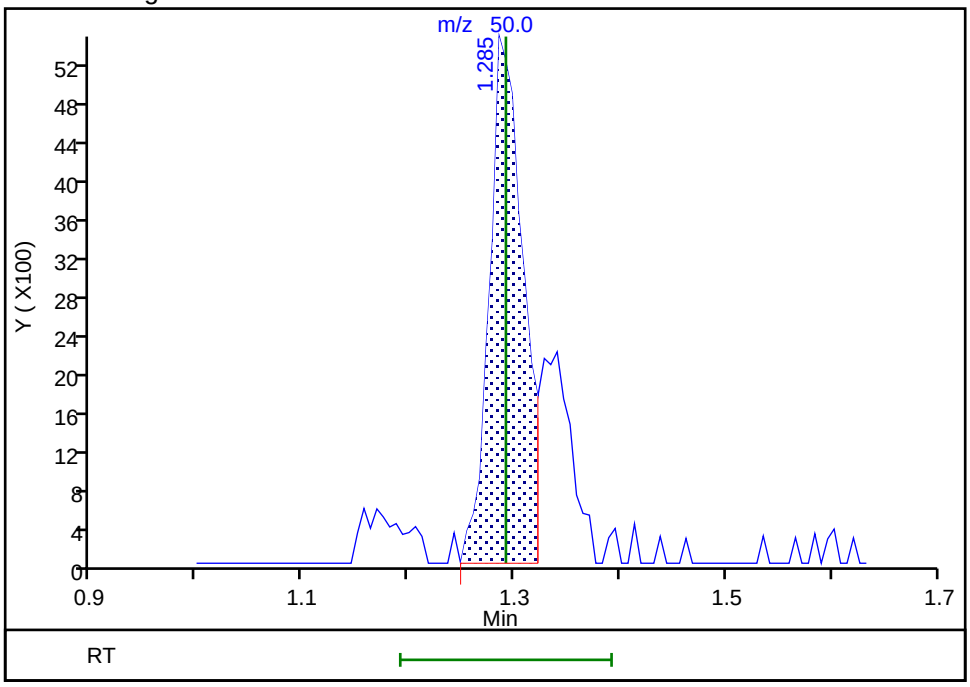
Processing Integration Results

RT: 1.29
Area: 16128
Amount: 1.199947
Amount Units: ug/l



Manual Integration Results

RT: 1.29
Area: 12057
Amount: 0.964321
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:42:45

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC

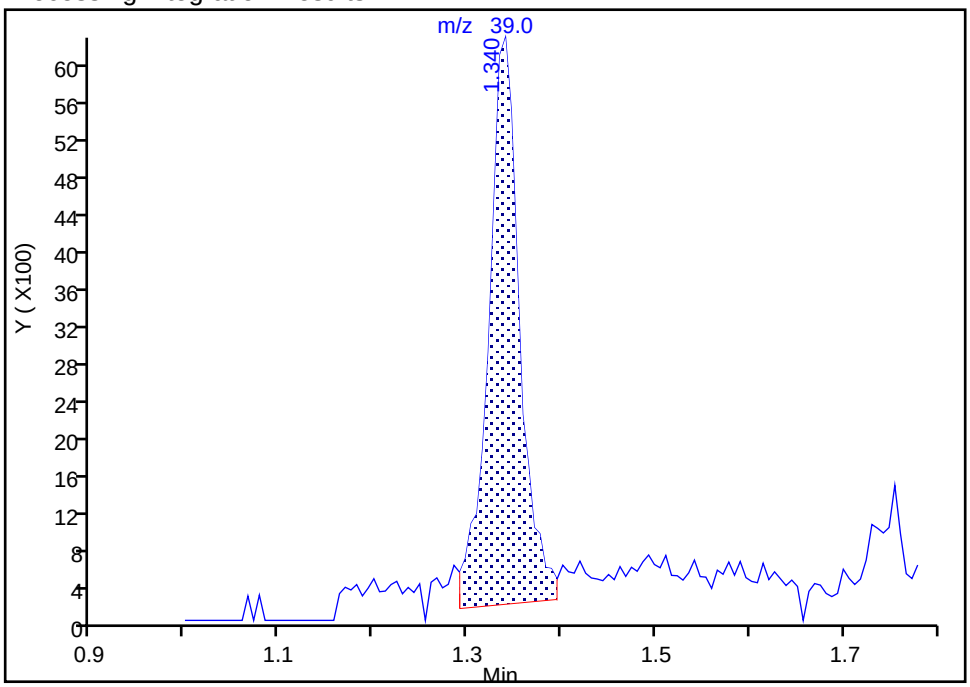
Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D
Injection Date: 06-Oct-2021 16:55:30 Instrument ID: 15648
Lims ID: IC v1
Client ID:
Operator ID: jml01693 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_15648 Limit Group: MSV - 8260C_D
Column: DB-624 20m 0.18mm (0.18 mm) Detector MS Quad

3 Butadiene, CAS: 106-99-0

Signal: 1

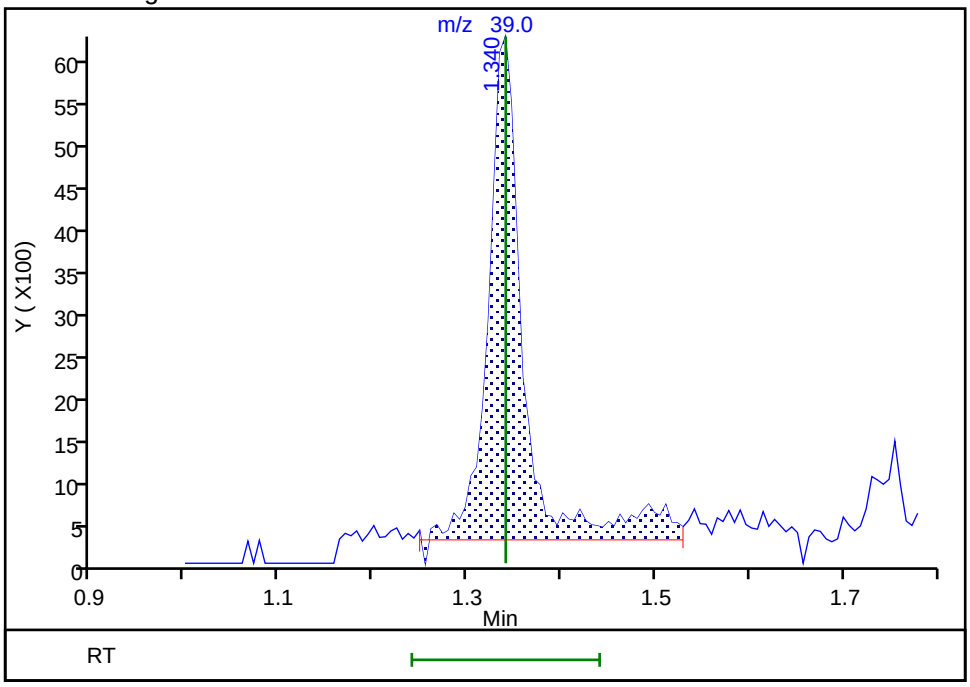
Processing Integration Results

RT: 1.34
Area: 14097
Amount: 1.122135
Amount Units: ug/l



Manual Integration Results

RT: 1.34
Area: 15731
Amount: 1.229360
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:42:58
Audit Action: Manually Integrated Audit Reason: Baseline

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

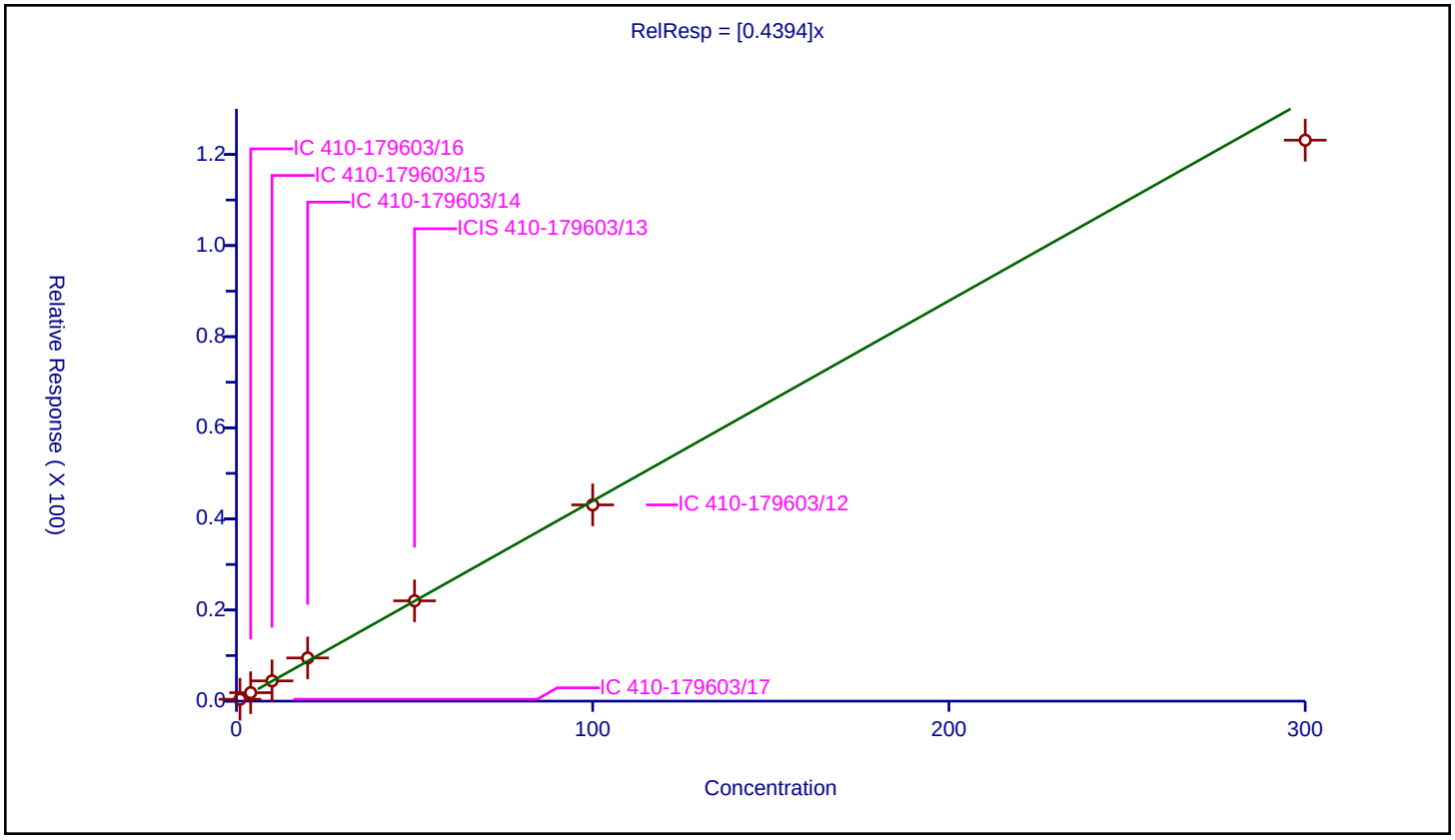
Curve Coefficients

Intercept:	0
Slope:	0.4394

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.411135	50.0	1274764.0	0.411135	Y
2	IC 410-179603/16	4.0	1.85793	50.0	1308203.0	0.464483	Y
3	IC 410-179603/15	10.0	4.444794	50.0	1289171.0	0.444479	Y
4	IC 410-179603/14	20.0	9.476913	50.0	1267533.0	0.473846	Y
5	ICIS 410-179603/13	50.0	22.021536	50.0	1293838.0	0.440431	Y
6	IC 410-179603/12	100.0	43.075718	50.0	1302525.0	0.430757	Y
7	IC 410-179603/11	300.0	123.130918	50.0	1349847.0	0.410436	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

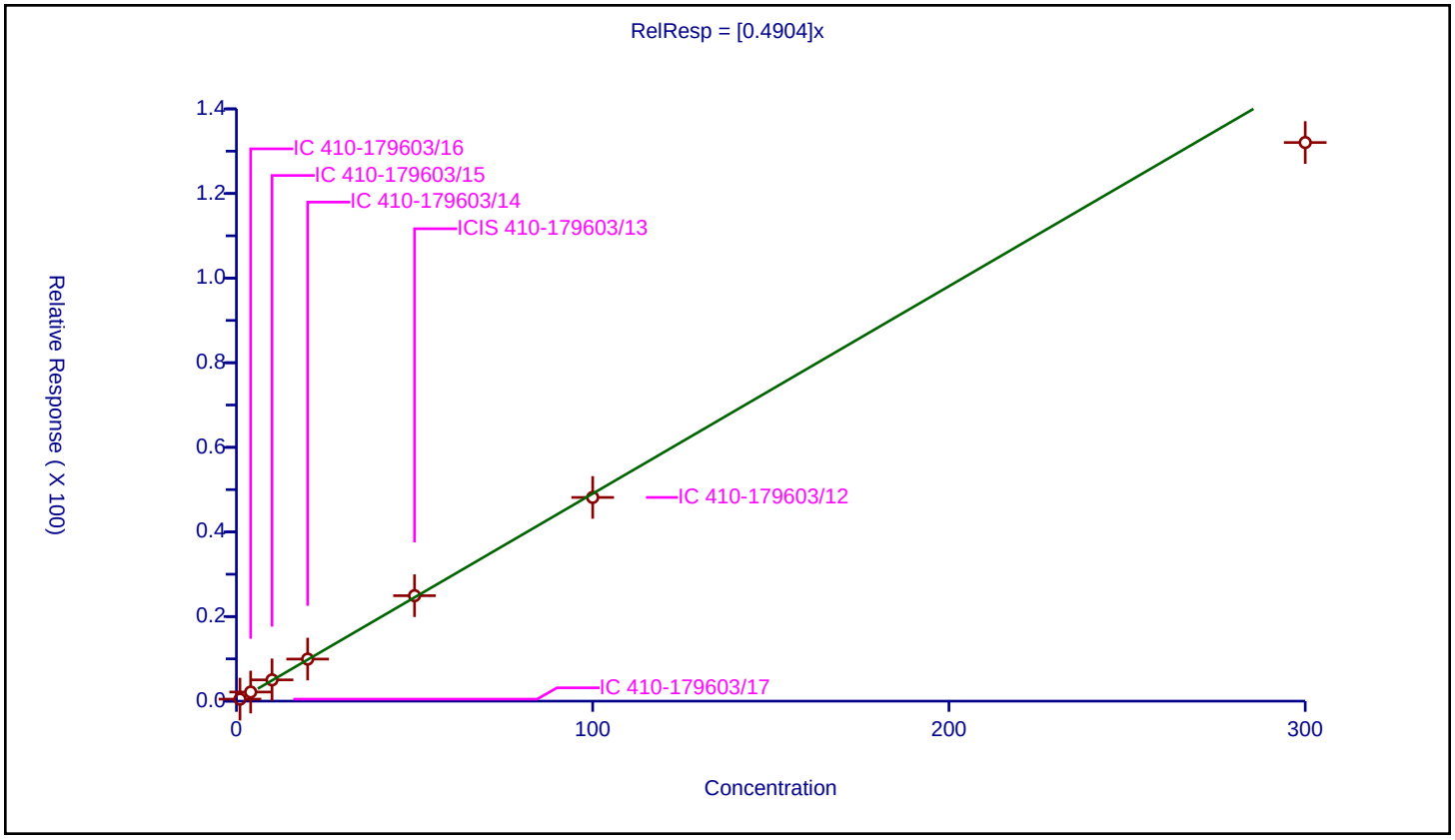
Curve Coefficients

Intercept:	0
Slope:	0.4904

Error Coefficients

Standard Error:	1570000
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 410-179603/17	1.0	0.472911	50.0	1274764.0	0.472911	Y
2	IC 410-179603/16	4.0	2.159413	50.0	1308203.0	0.539853	Y
3	IC 410-179603/15	10.0	5.024973	50.0	1289171.0	0.502497	Y
4	IC 410-179603/14	20.0	9.946053	50.0	1267533.0	0.497303	Y
5	ICIS 410-179603/13	50.0	24.931444	50.0	1293838.0	0.498629	Y
6	IC 410-179603/12	100.0	48.151437	50.0	1302525.0	0.481514	Y
7	IC 410-179603/11	300.0	132.04515	50.0	1349847.0	0.440151	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

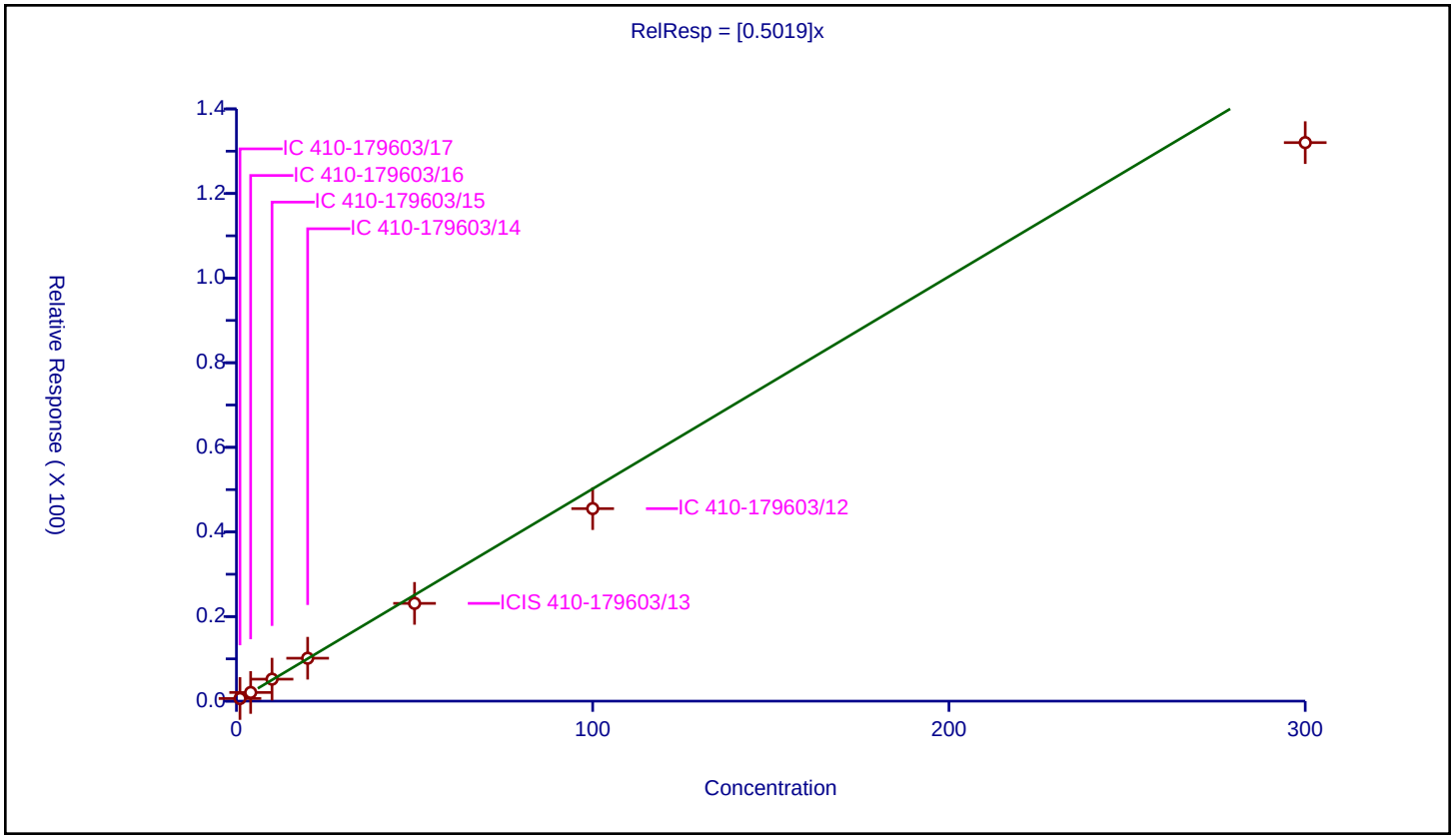
Curve Coefficients

Intercept:	0
Slope:	0.5019

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.617016	50.0	1274764.0	0.617016	Y
2	IC 410-179603/16	4.0	2.047771	50.0	1308203.0	0.511943	Y
3	IC 410-179603/15	10.0	5.195393	50.0	1289171.0	0.519539	Y
4	IC 410-179603/14	20.0	10.147586	50.0	1267533.0	0.507379	Y
5	ICIS 410-179603/13	50.0	23.111665	50.0	1293838.0	0.462233	Y
6	IC 410-179603/12	100.0	45.509875	50.0	1302525.0	0.455099	Y
7	IC 410-179603/11	300.0	132.028148	50.0	1349847.0	0.440094	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

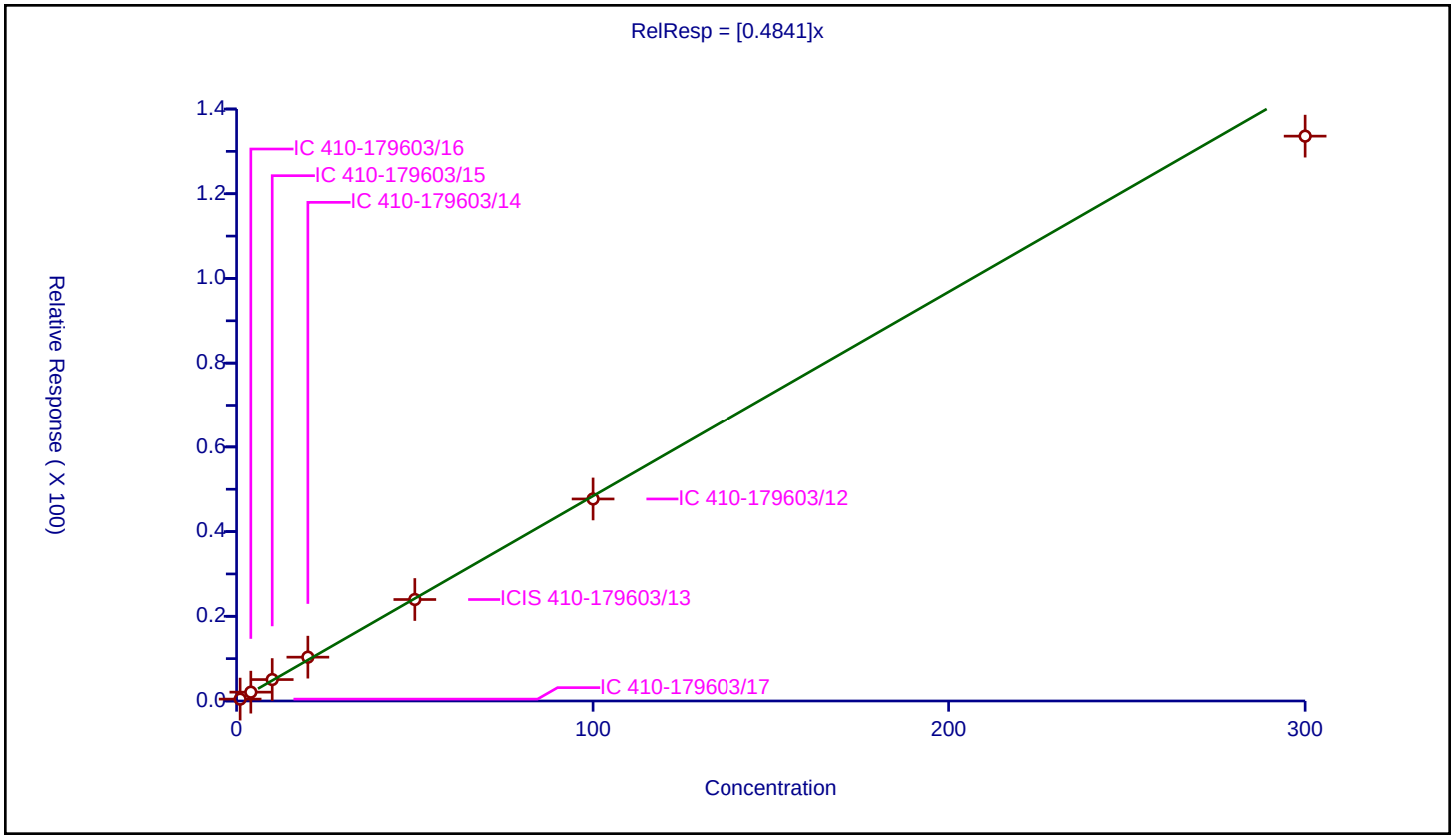
Curve Coefficients

Intercept:	0
Slope:	0.4841

Error Coefficients

Standard Error:	1580000
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 410-179603/17	1.0	0.442631	50.0	1274764.0	0.442631	Y
2	IC 410-179603/16	4.0	2.083966	50.0	1308203.0	0.520991	Y
3	IC 410-179603/15	10.0	5.0605	50.0	1289171.0	0.50605	Y
4	IC 410-179603/14	20.0	10.344741	50.0	1267533.0	0.517237	Y
5	ICIS 410-179603/13	50.0	23.956631	50.0	1293838.0	0.479133	Y
6	IC 410-179603/12	100.0	47.702693	50.0	1302525.0	0.477027	Y
7	IC 410-179603/11	300.0	133.595215	50.0	1349847.0	0.445317	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

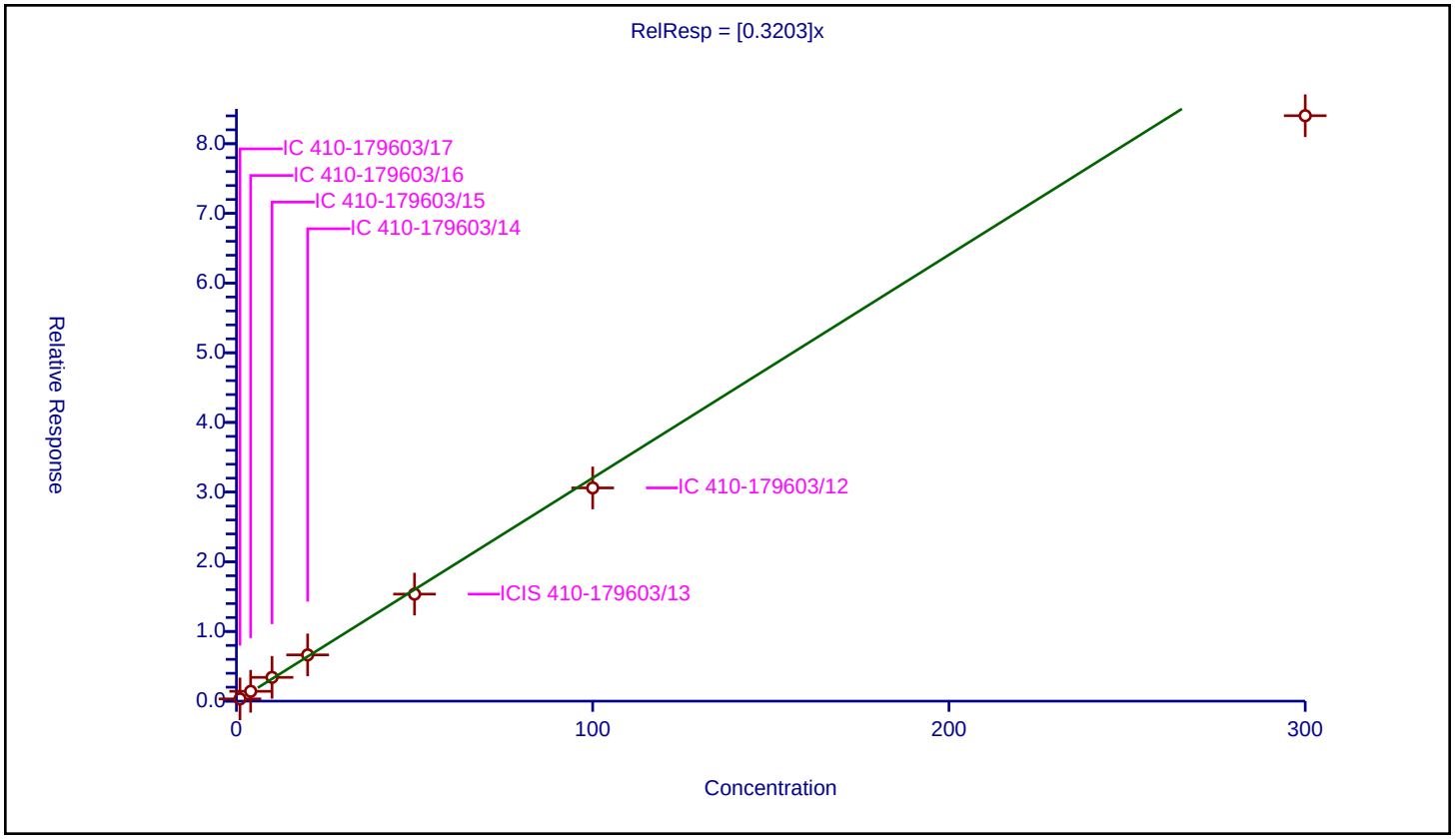
Curve Coefficients

Intercept:	0
Slope:	0.3203

Error Coefficients

Standard Error:	998000
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 410-179603/17	1.0	0.321981	50.0	1274764.0	0.321981	Y
2	IC 410-179603/16	4.0	1.414077	50.0	1308203.0	0.353519	Y
3	IC 410-179603/15	10.0	3.412464	50.0	1289171.0	0.341246	Y
4	IC 410-179603/14	20.0	6.637539	50.0	1267533.0	0.331877	Y
5	ICIS 410-179603/13	50.0	15.359805	50.0	1293838.0	0.307196	Y
6	IC 410-179603/12	100.0	30.600411	50.0	1302525.0	0.306004	Y
7	IC 410-179603/11	300.0	84.022967	50.0	1349847.0	0.280077	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

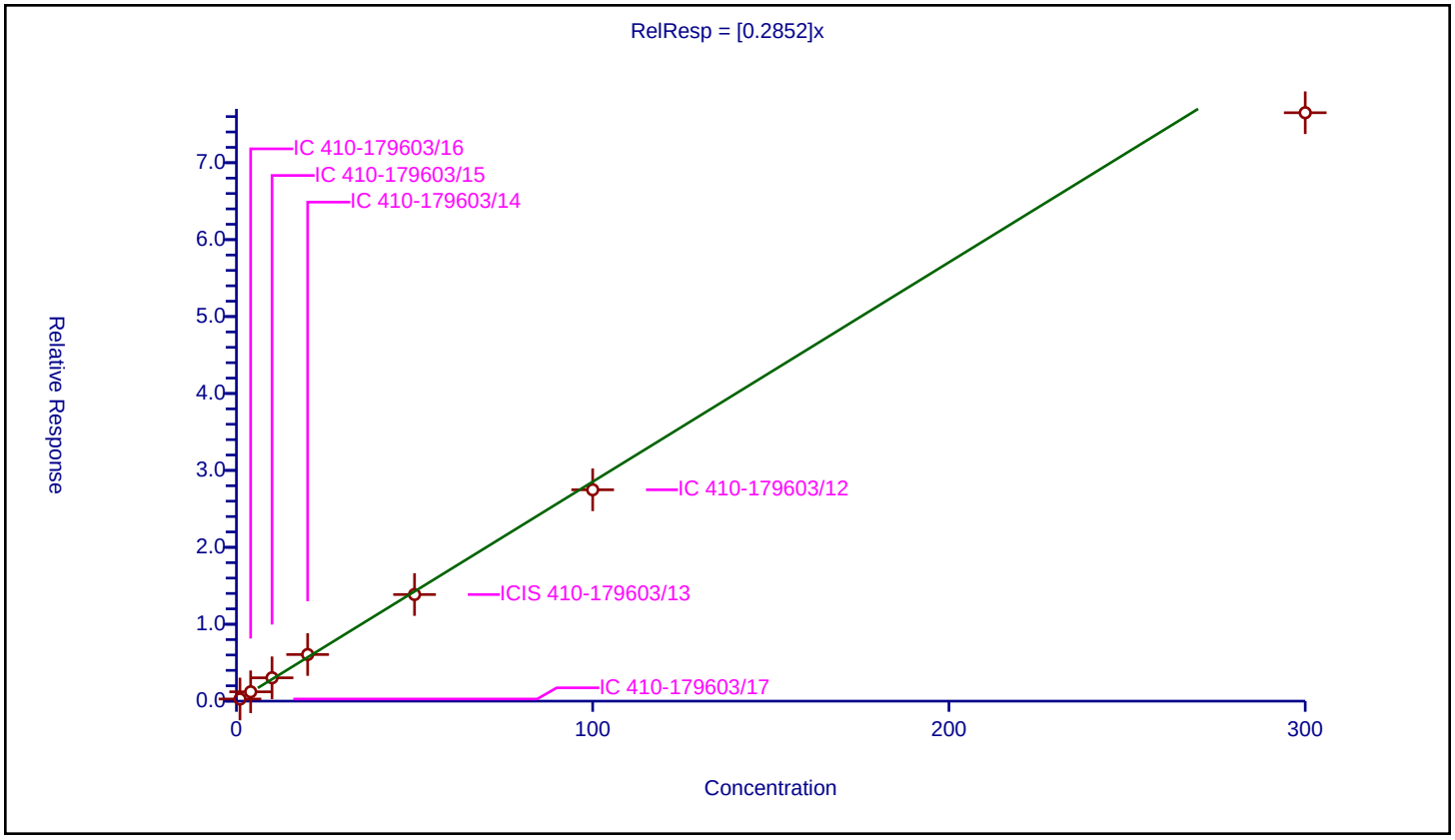
Curve Coefficients

Intercept:	0
Slope:	0.2852

Error Coefficients

Standard Error:	907000
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 410-179603/17	1.0	0.279424	50.0	1274764.0	0.279424	Y
2	IC 410-179603/16	4.0	1.215331	50.0	1308203.0	0.303833	Y
3	IC 410-179603/15	10.0	3.03412	50.0	1289171.0	0.303412	Y
4	IC 410-179603/14	20.0	6.060039	50.0	1267533.0	0.303002	Y
5	ICIS 410-179603/13	50.0	13.862168	50.0	1293838.0	0.277243	Y
6	IC 410-179603/12	100.0	27.479895	50.0	1302525.0	0.274799	Y
7	IC 410-179603/11	300.0	76.500633	50.0	1349847.0	0.255002	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

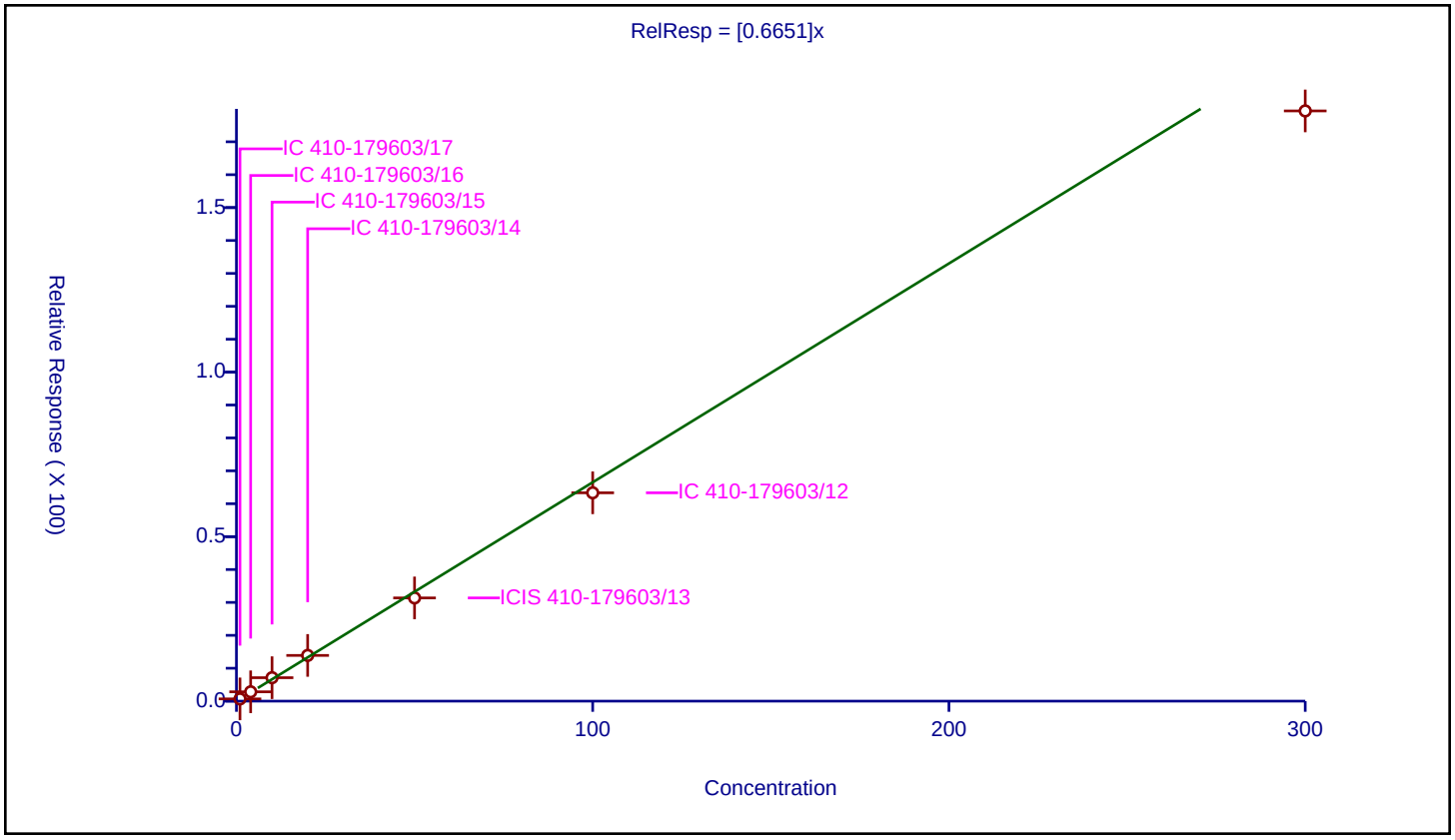
Curve Coefficients

Intercept:	0
Slope:	0.6651

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.680087	50.0	1274764.0	0.680087	Y
2	IC 410-179603/16	4.0	2.83641	50.0	1308203.0	0.709102	Y
3	IC 410-179603/15	10.0	7.129349	50.0	1289171.0	0.712935	Y
4	IC 410-179603/14	20.0	13.893839	50.0	1267533.0	0.694692	Y
5	ICIS 410-179603/13	50.0	31.374446	50.0	1293838.0	0.627489	Y
6	IC 410-179603/12	100.0	63.31771	50.0	1302525.0	0.633177	Y
7	IC 410-179603/11	300.0	179.388257	50.0	1349847.0	0.597961	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

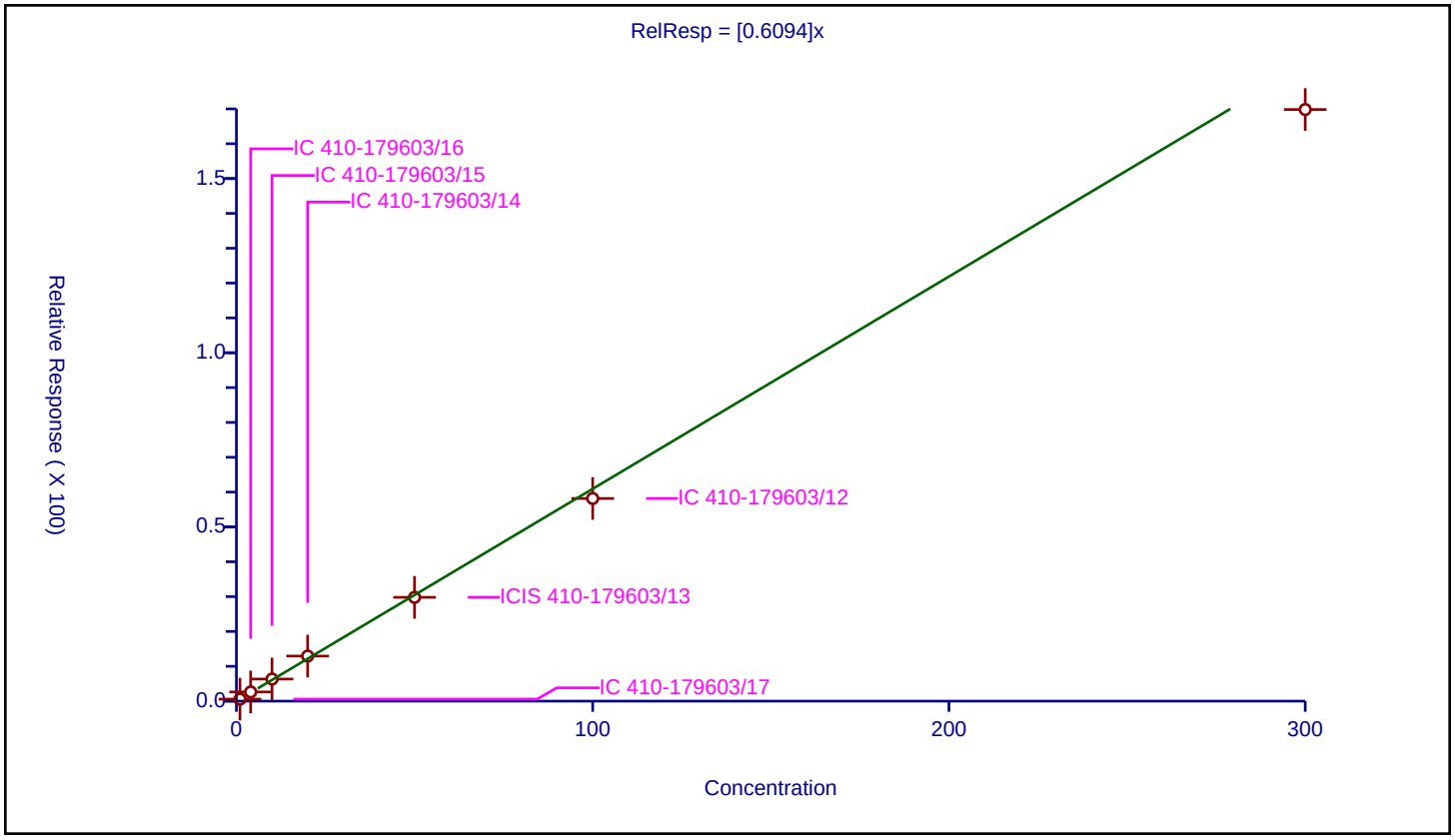
Curve Coefficients

Intercept:	0
Slope:	0.6094

Error Coefficients

Standard Error:	2000000
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 410-179603/17	1.0	0.580186	50.0	1274764.0	0.580186	Y
2	IC 410-179603/16	4.0	2.640225	50.0	1308203.0	0.660056	Y
3	IC 410-179603/15	10.0	6.345047	50.0	1289171.0	0.634505	Y
4	IC 410-179603/14	20.0	12.941162	50.0	1267533.0	0.647058	Y
5	ICIS 410-179603/13	50.0	29.794263	50.0	1293838.0	0.595885	Y
6	IC 410-179603/12	100.0	58.17516	50.0	1302525.0	0.581752	Y
7	IC 410-179603/11	300.0	169.819543	50.0	1349847.0	0.566065	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

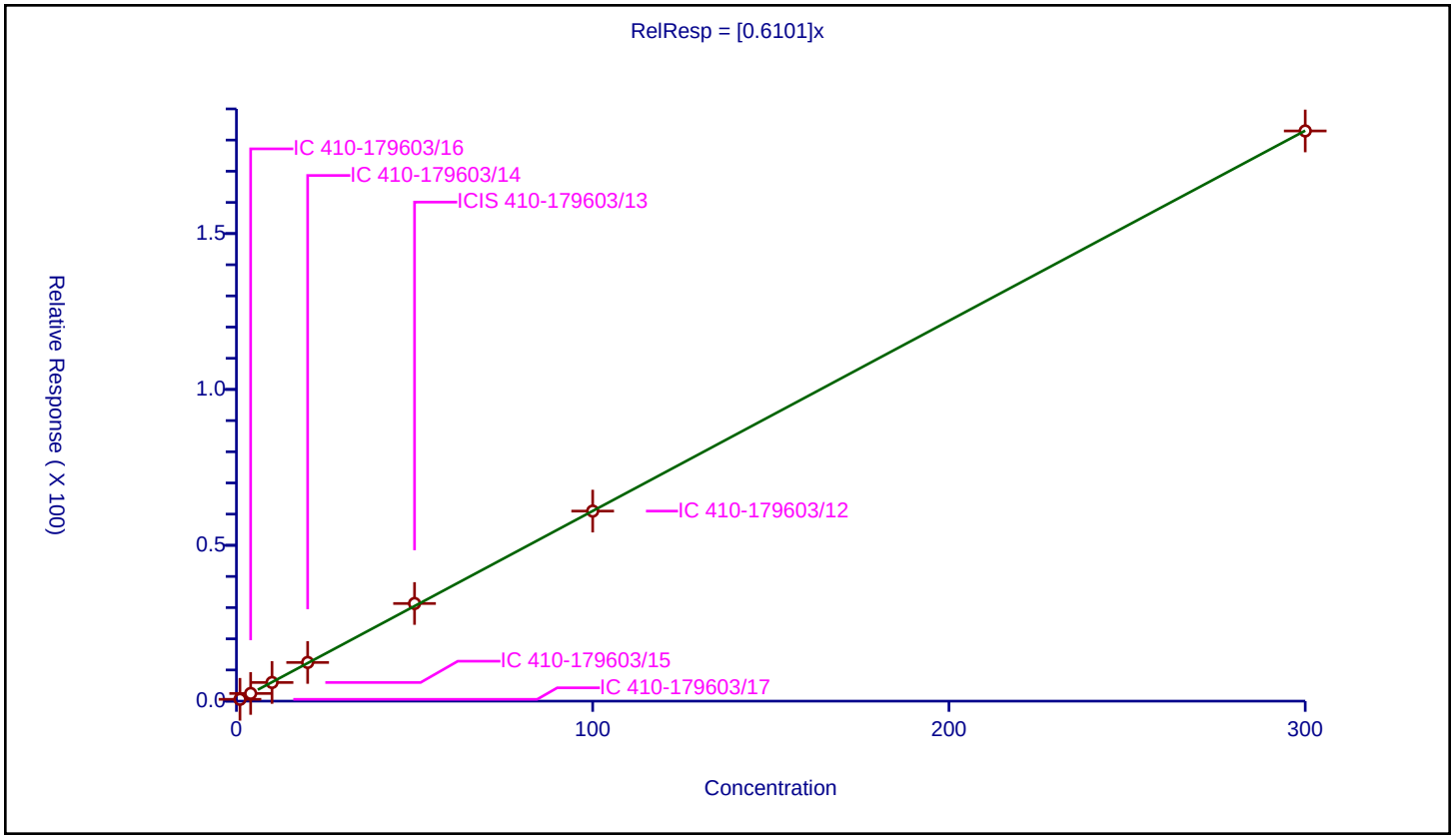
Curve Coefficients

Intercept:	0
Slope:	0.6101

Error Coefficients

Standard Error:	2150000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.588383	50.0	1274764.0	0.588383	Y
2	IC 410-179603/16	4.0	2.468424	50.0	1308203.0	0.617106	Y
3	IC 410-179603/15	10.0	5.986909	50.0	1289171.0	0.598691	Y
4	IC 410-179603/14	20.0	12.408158	50.0	1267533.0	0.620408	Y
5	ICIS 410-179603/13	50.0	31.324671	50.0	1293838.0	0.626493	Y
6	IC 410-179603/12	100.0	60.969962	50.0	1302525.0	0.6097	Y
7	IC 410-179603/11	300.0	182.928917	50.0	1349847.0	0.609763	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

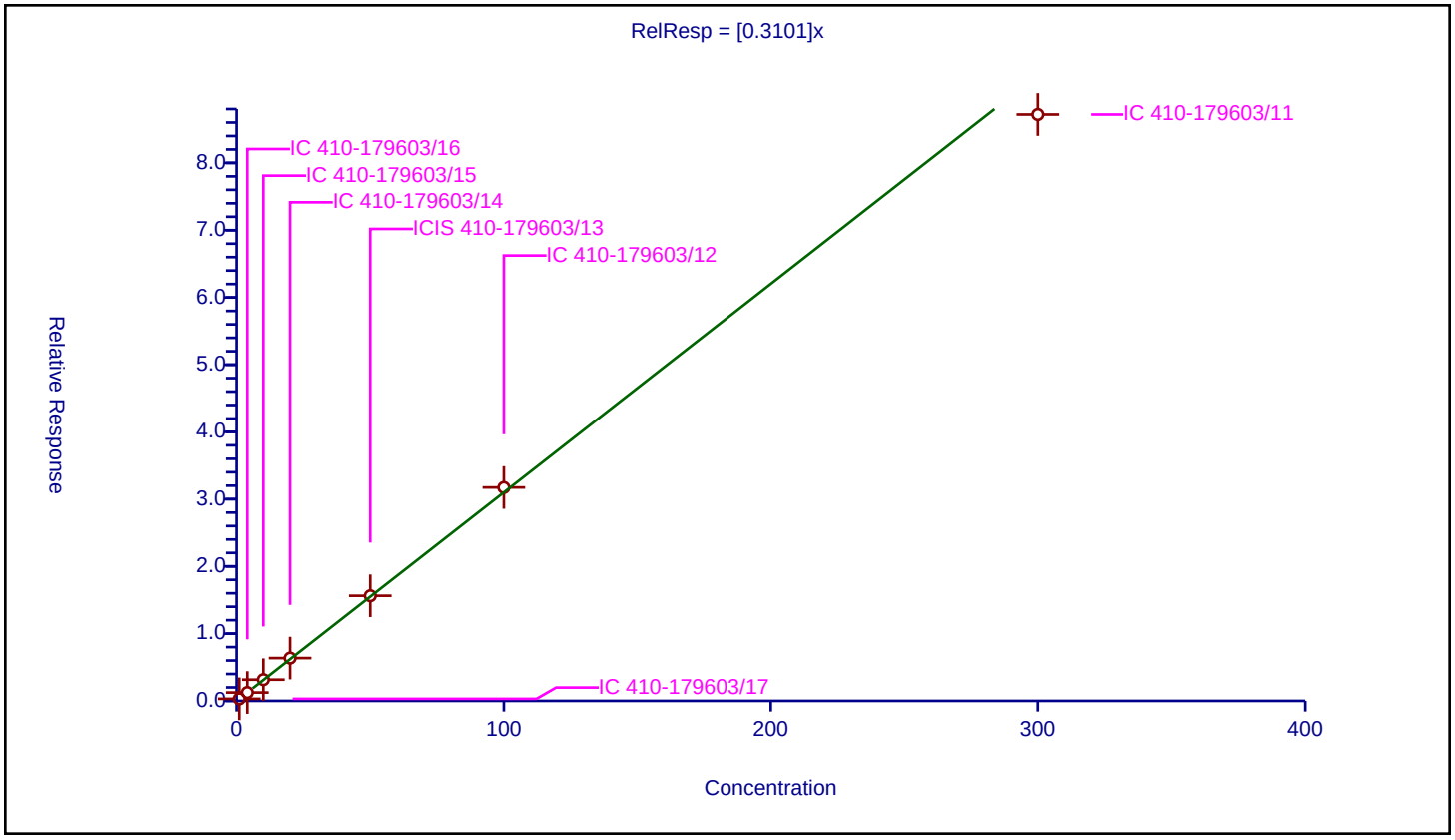
Curve Coefficients

Intercept:	0
Slope:	0.3101

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.000069	0.306331	50.0	1274764.0	0.30631	Y
2	IC 410-179603/16	4.000277	1.24048	50.0	1308203.0	0.310099	Y
3	IC 410-179603/15	10.000692	3.153926	50.0	1289171.0	0.315371	Y
4	IC 410-179603/14	20.001384	6.364686	50.0	1267533.0	0.318212	Y
5	ICIS 410-179603/13	50.00346	15.63198	50.0	1293838.0	0.312618	Y
6	IC 410-179603/12	100.00692	31.736972	50.0	1302525.0	0.317348	Y
7	IC 410-179603/11	300.02076	87.190585	50.0	1349847.0	0.290615	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

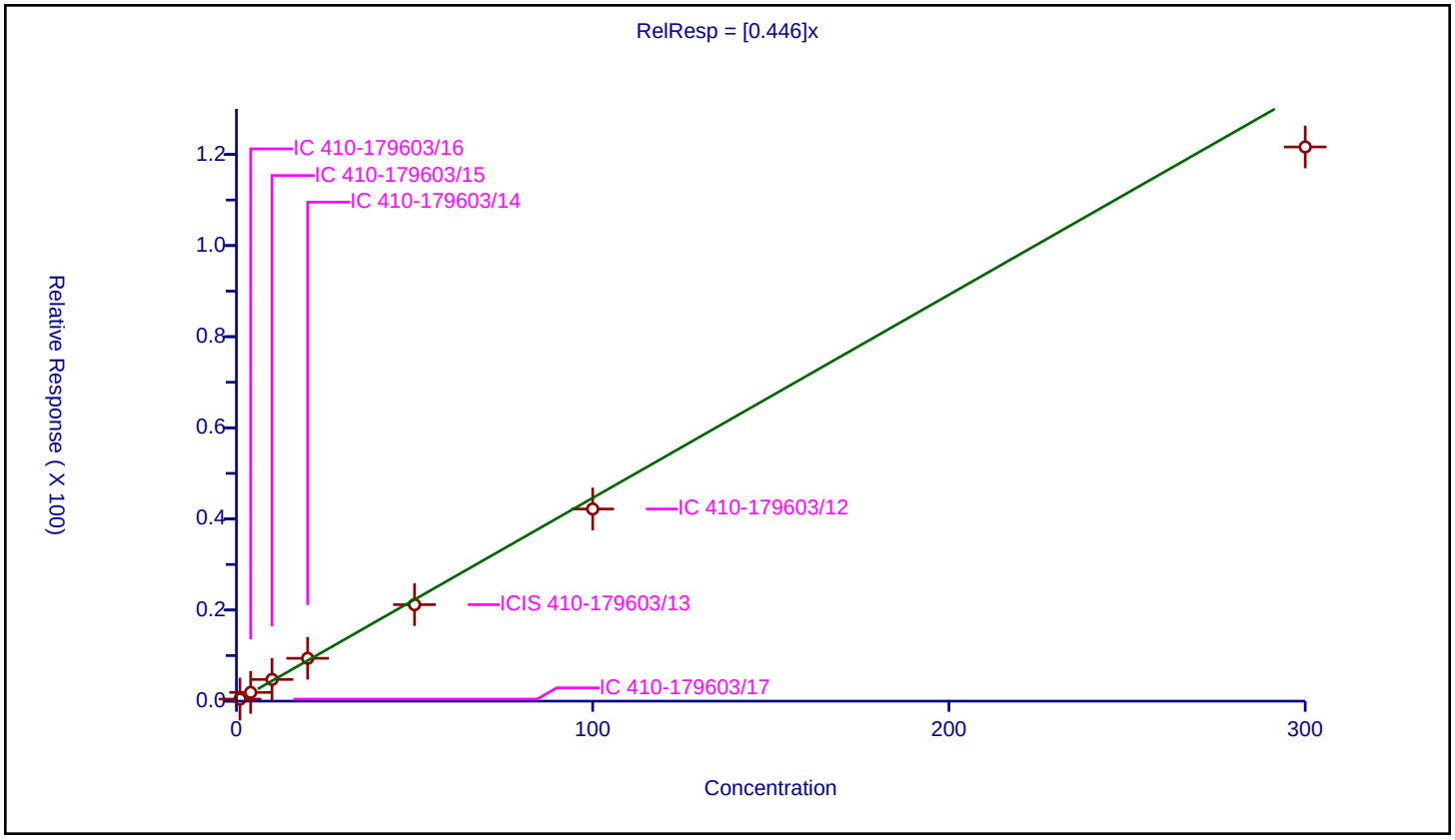
Curve Coefficients

Intercept:	0
Slope:	0.446

Error Coefficients

Standard Error:	1440000
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 410-179603/17	1.0	0.444867	50.0	1274764.0	0.444867	Y
2	IC 410-179603/16	4.0	1.91893	50.0	1308203.0	0.479733	Y
3	IC 410-179603/15	10.0	4.76438	50.0	1289171.0	0.476438	Y
4	IC 410-179603/14	20.0	9.401649	50.0	1267533.0	0.470082	Y
5	ICIS 410-179603/13	50.0	21.178463	50.0	1293838.0	0.423569	Y
6	IC 410-179603/12	100.0	42.176964	50.0	1302525.0	0.42177	Y
7	IC 410-179603/11	300.0	121.646972	50.0	1349847.0	0.40549	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

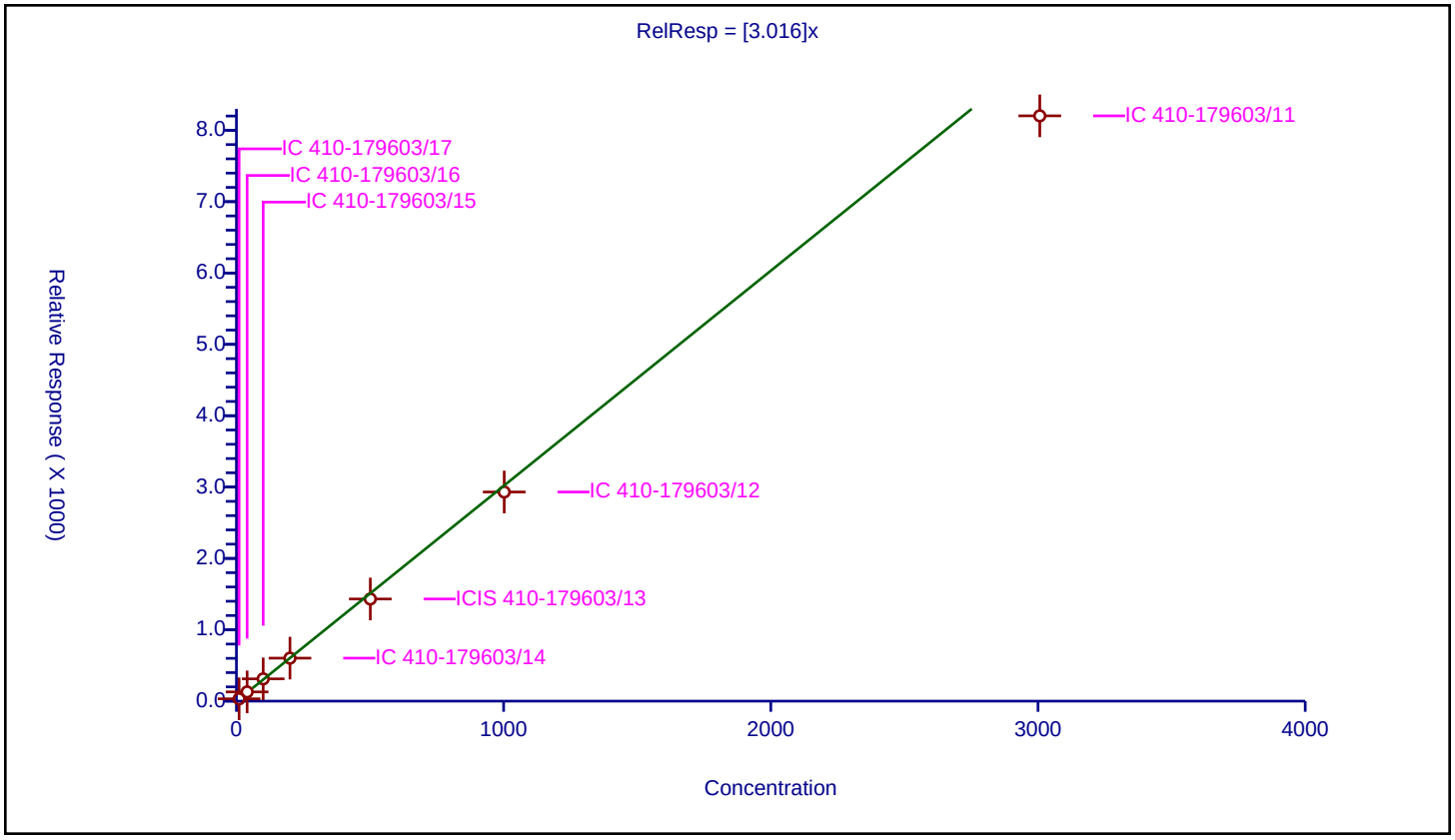
Curve Coefficients

Intercept:	0
Slope:	3.016

Error Coefficients

Standard Error:	3240000
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 410-179603/17	10.021945	32.647223	250.0	193822.0	3.257574	Y
2	IC 410-179603/16	40.087779	129.226998	250.0	198486.0	3.223601	Y
3	IC 410-179603/15	100.219447	312.089933	250.0	203930.0	3.114066	Y
4	IC 410-179603/14	200.438893	602.57378	250.0	207982.0	3.006272	Y
5	ICIS 410-179603/13	501.097233	1431.770344	250.0	212840.0	2.857271	Y
6	IC 410-179603/12	1002.194466	2931.13461	250.0	212919.0	2.924716	Y
7	IC 410-179603/11	3006.583398	8202.701327	250.0	225963.0	2.728247	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

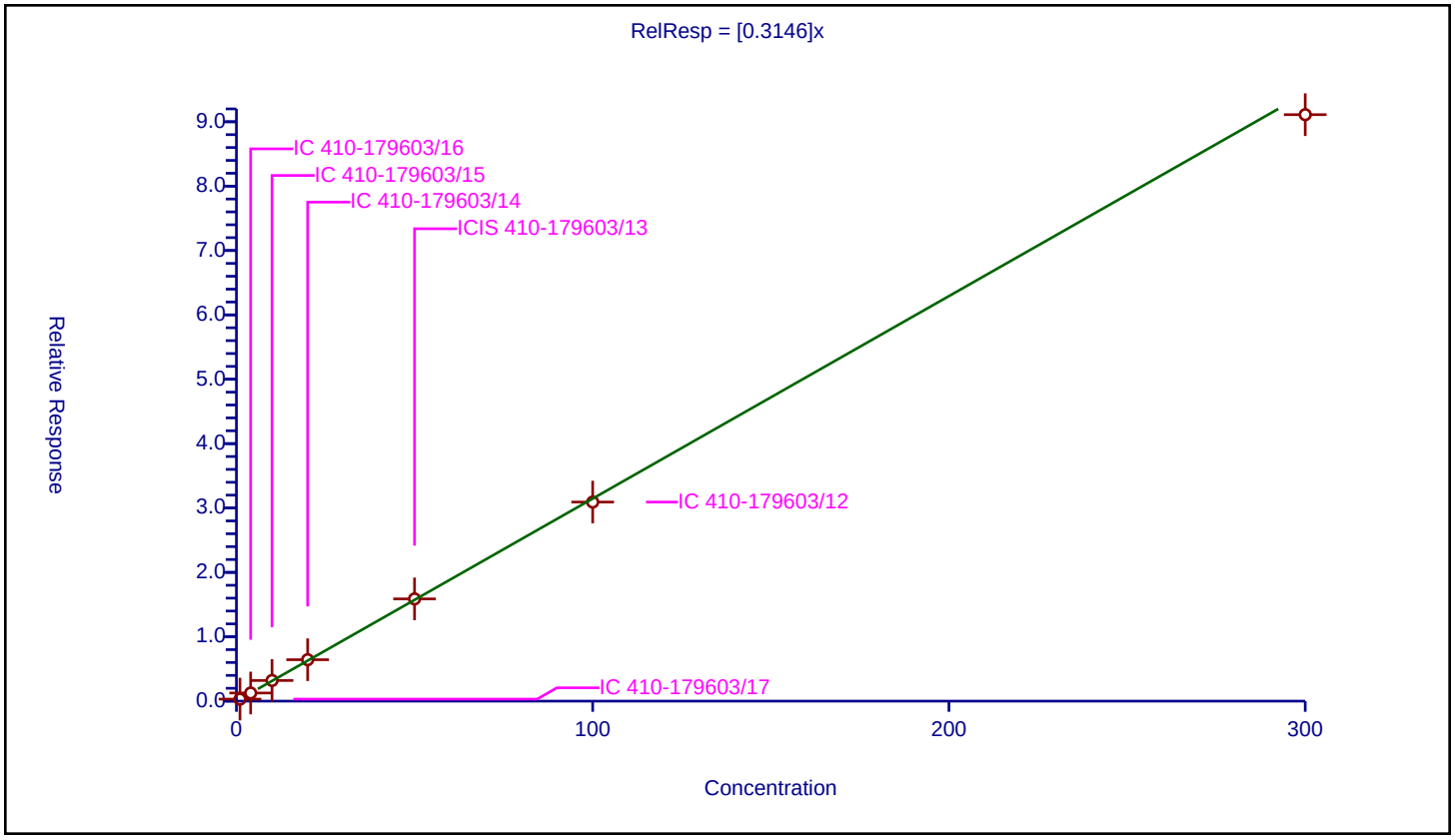
Curve Coefficients

Intercept:	0
Slope:	0.3146

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.31296	50.0	1274764.0	0.31296	Y
2	IC 410-179603/16	4.0	1.264827	50.0	1308203.0	0.316207	Y
3	IC 410-179603/15	10.0	3.207526	50.0	1289171.0	0.320753	Y
4	IC 410-179603/14	20.0	6.43431	50.0	1267533.0	0.321715	Y
5	ICIS 410-179603/13	50.0	15.880157	50.0	1293838.0	0.317603	Y
6	IC 410-179603/12	100.0	30.926355	50.0	1302525.0	0.309264	Y
7	IC 410-179603/11	300.0	91.103881	50.0	1349847.0	0.30368	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

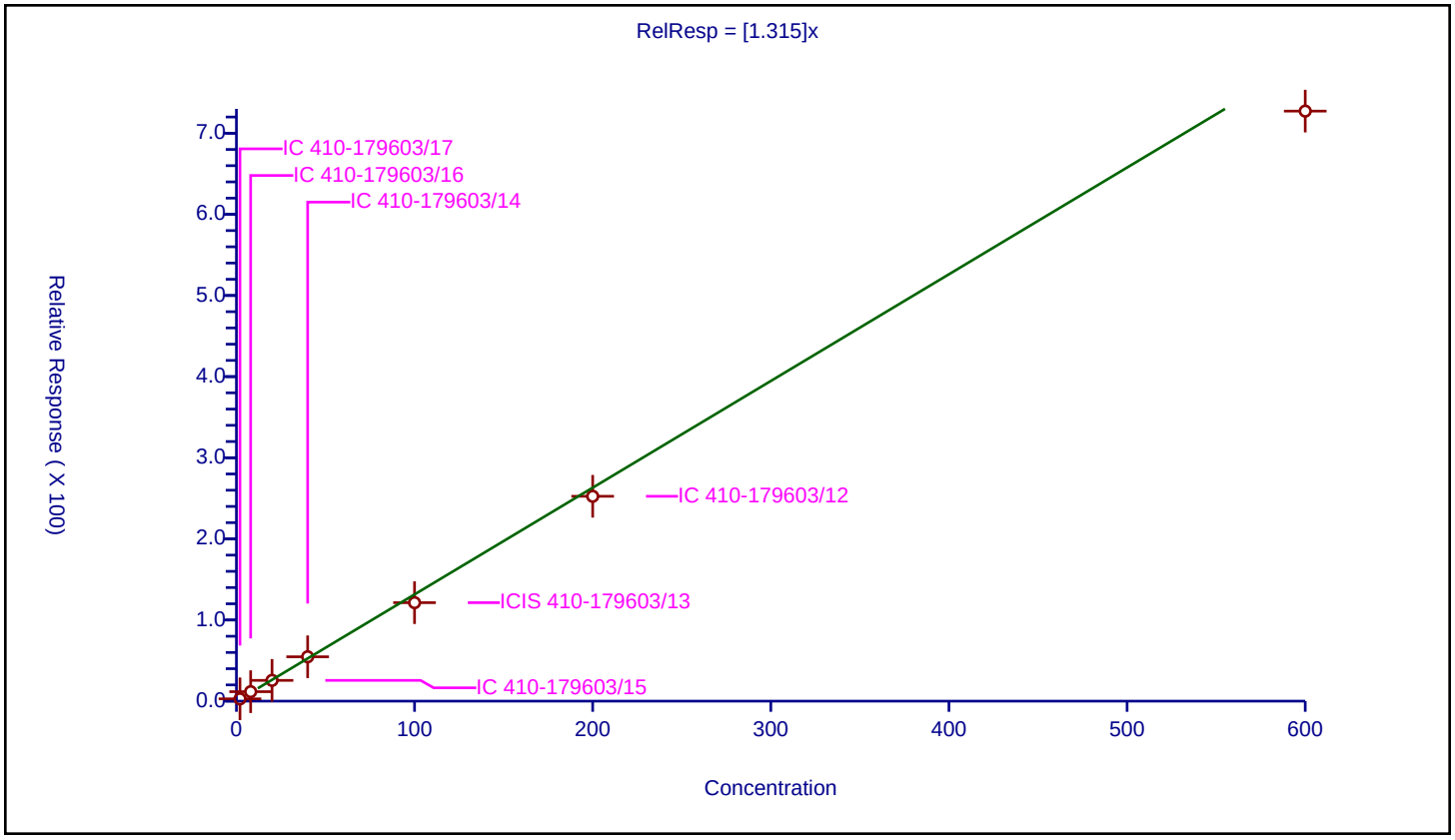
Curve Coefficients

Intercept:	0
Slope:	1.315

Error Coefficients

Standard Error:	286000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	2.0	2.828626	250.0	193822.0	1.414313	Y
2	IC 410-179603/16	8.0	11.659513	250.0	198486.0	1.457439	Y
3	IC 410-179603/15	20.0	25.6056	250.0	203930.0	1.28028	Y
4	IC 410-179603/14	40.0	54.683819	250.0	207982.0	1.367095	Y
5	ICIS 410-179603/13	100.0	121.391656	250.0	212840.0	1.213917	Y
6	IC 410-179603/12	200.0	252.49508	250.0	212919.0	1.262475	Y
7	IC 410-179603/11	600.0	727.286104	250.0	225963.0	1.212144	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

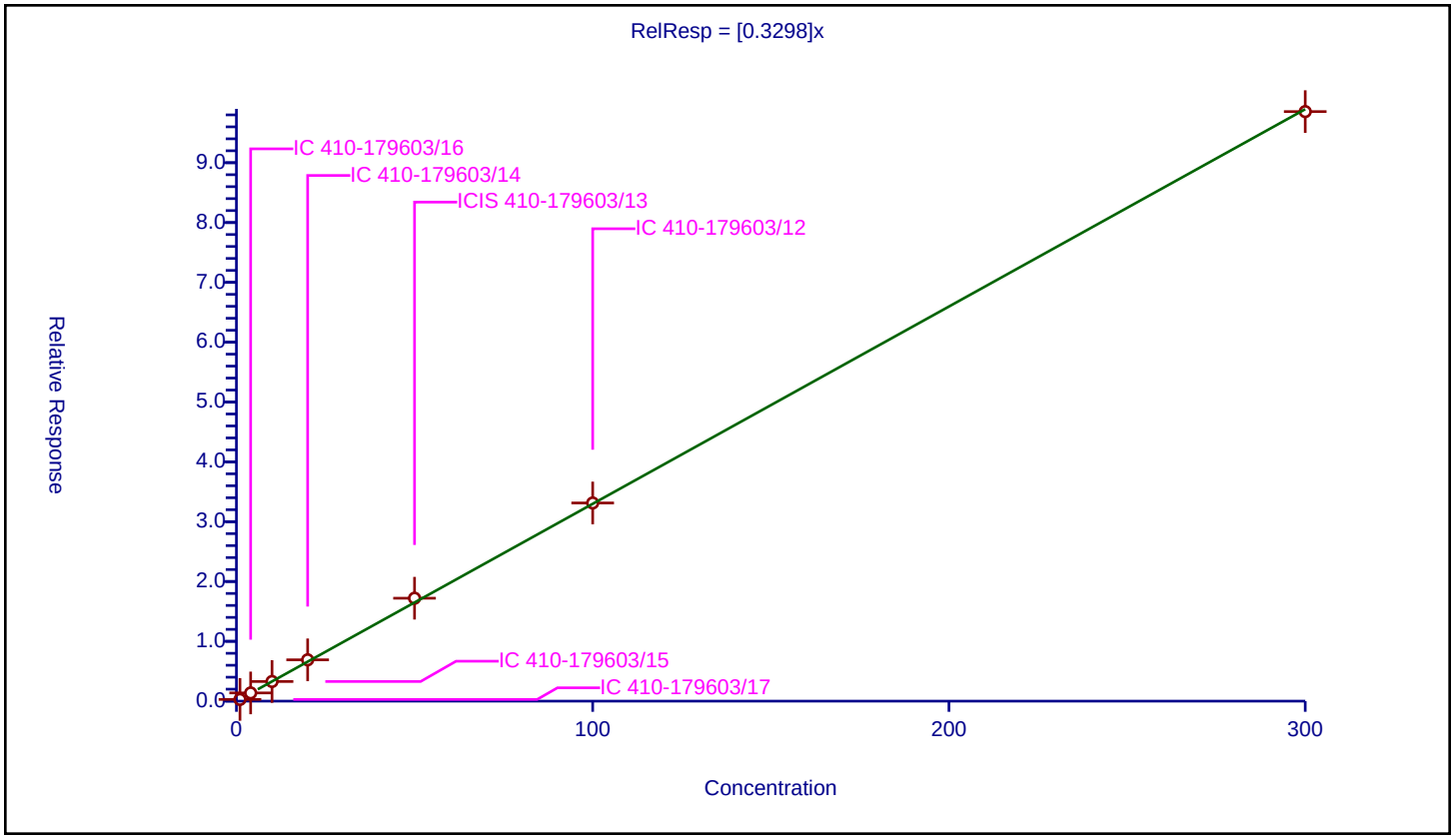
Curve Coefficients

Intercept:	0
Slope:	0.3298

Error Coefficients

Standard Error:	1160000
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 410-179603/17	1.0	0.287975	50.0	1274764.0	0.287975	Y
2	IC 410-179603/16	4.0	1.372149	50.0	1308203.0	0.343037	Y
3	IC 410-179603/15	10.0	3.284591	50.0	1289171.0	0.328459	Y
4	IC 410-179603/14	20.0	6.907867	50.0	1267533.0	0.345393	Y
5	ICIS 410-179603/13	50.0	17.206327	50.0	1293838.0	0.344127	Y
6	IC 410-179603/12	100.0	33.124239	50.0	1302525.0	0.331242	Y
7	IC 410-179603/11	300.0	98.544354	50.0	1349847.0	0.328481	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

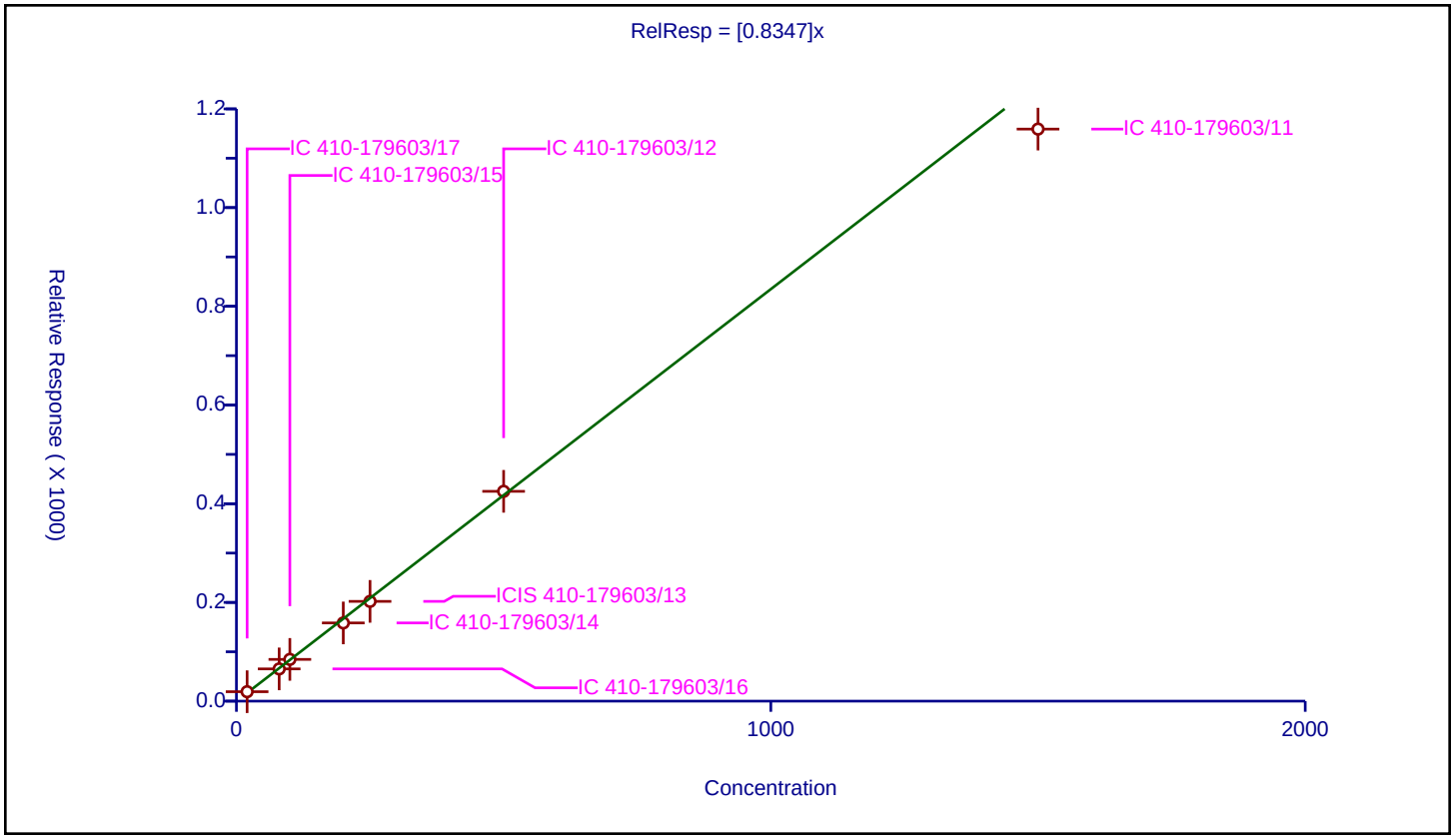
Curve Coefficients

Intercept:	0
Slope:	0.8347

Error Coefficients

Standard Error:	462000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	20.0	19.137404	250.0	193822.0	0.95687	Y
2	IC 410-179603/16	80.0	65.325766	250.0	198486.0	0.816572	Y
3	IC 410-179603/15	100.0	84.609915	250.0	203930.0	0.846099	Y
4	IC 410-179603/14	200.0	158.458424	250.0	207982.0	0.792292	Y
5	ICIS 410-179603/13	250.0	202.116613	250.0	212840.0	0.808466	Y
6	IC 410-179603/12	500.0	425.091232	250.0	212919.0	0.850182	Y
7	IC 410-179603/11	1500.0	1159.081354	250.0	225963.0	0.772721	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

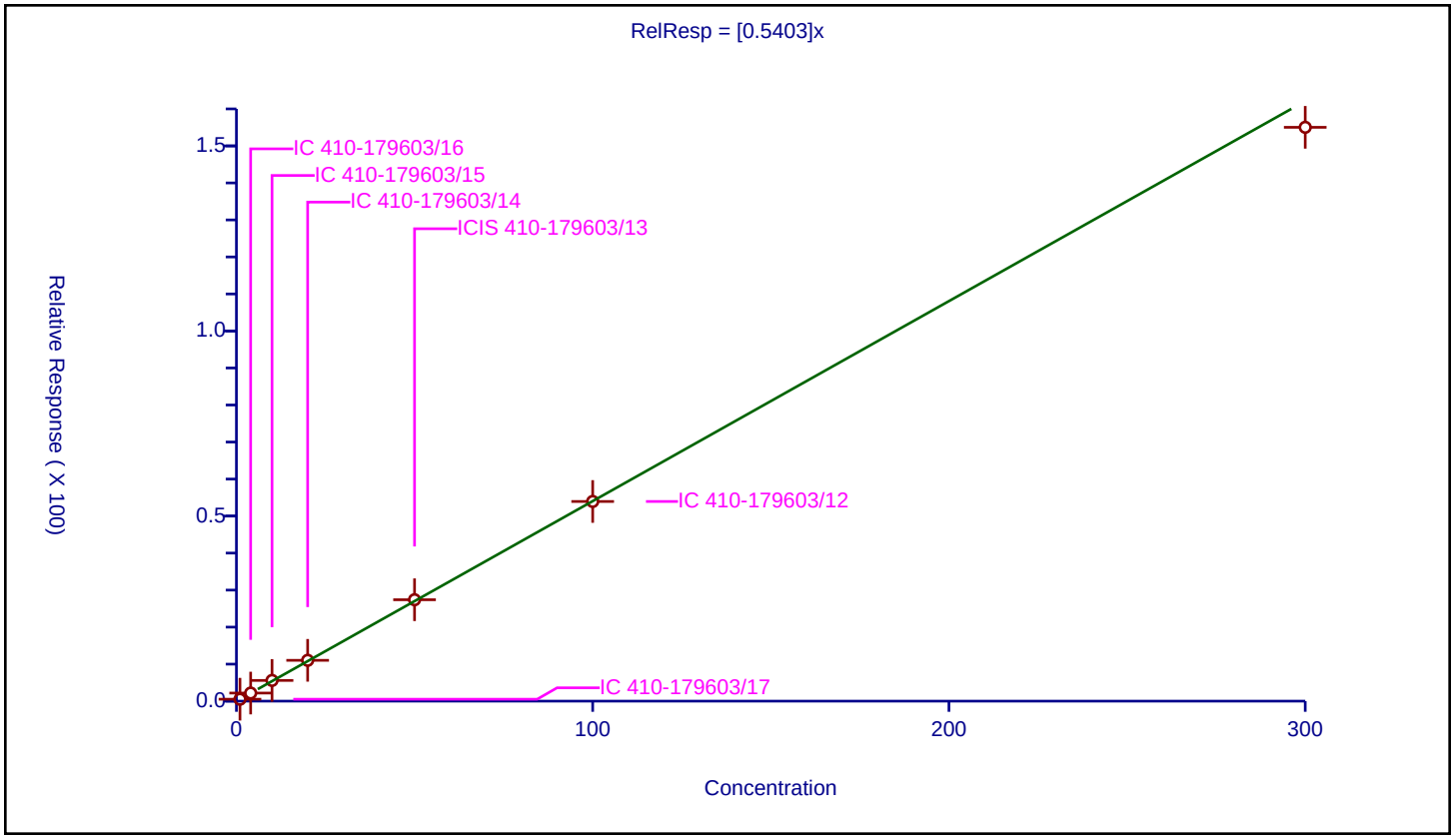
Curve Coefficients

Intercept:	0
Slope:	0.5403

Error Coefficients

Standard Error:	1830000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.522489	50.0	1274764.0	0.522489	Y
2	IC 410-179603/16	4.0	2.180243	50.0	1308203.0	0.545061	Y
3	IC 410-179603/15	10.0	5.593711	50.0	1289171.0	0.559371	Y
4	IC 410-179603/14	20.0	11.028431	50.0	1267533.0	0.551422	Y
5	ICIS 410-179603/13	50.0	27.398291	50.0	1293838.0	0.547966	Y
6	IC 410-179603/12	100.0	53.939425	50.0	1302525.0	0.539394	Y
7	IC 410-179603/11	300.0	155.023051	50.0	1349847.0	0.516744	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

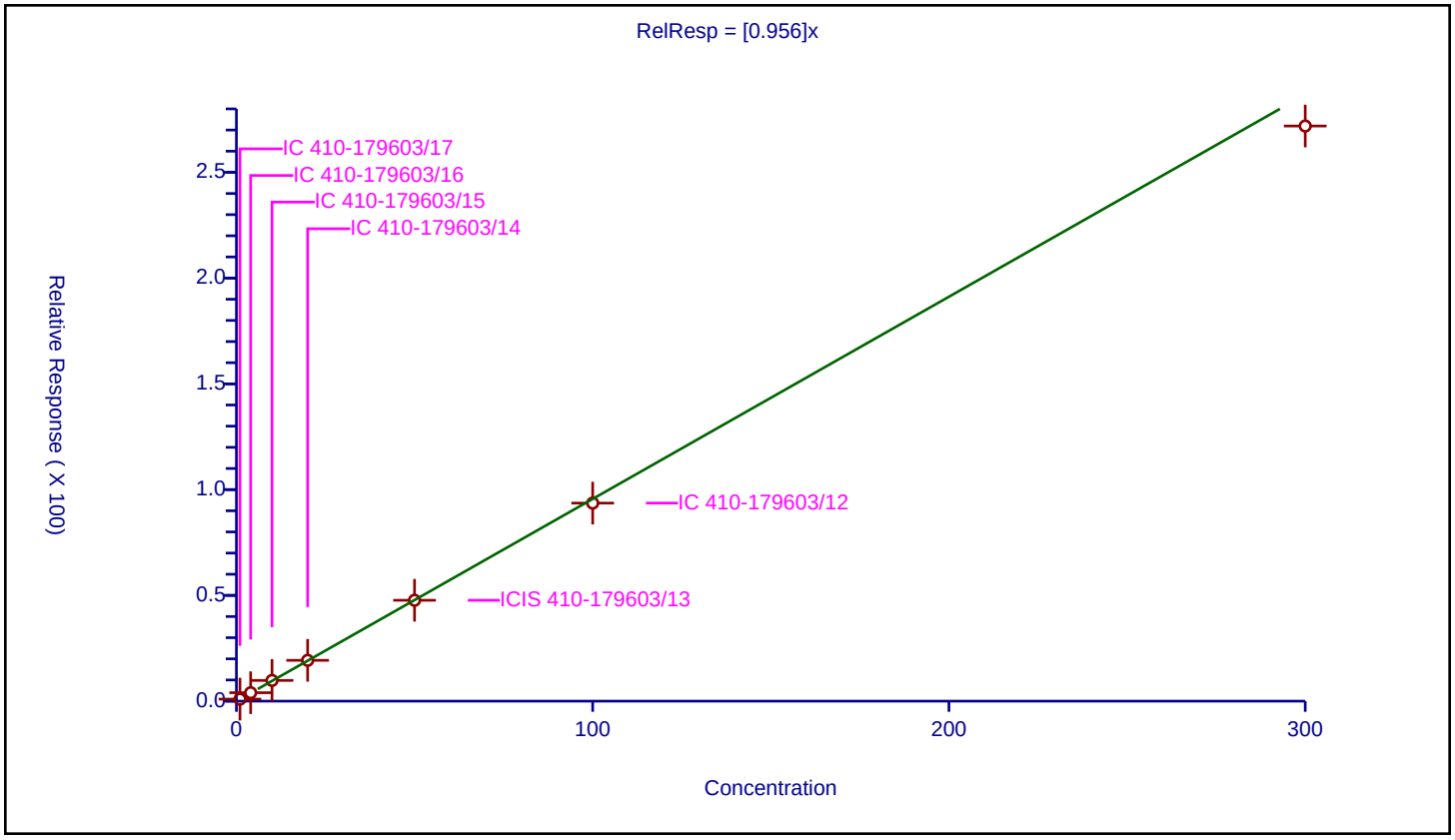
Curve Coefficients

Intercept:	0
Slope:	0.956

Error Coefficients

Standard Error:	3210000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.95653	50.0	1274764.0	0.95653	Y
2	IC 410-179603/16	4.0	3.980422	50.0	1308203.0	0.995105	Y
3	IC 410-179603/15	10.0	9.78784	50.0	1289171.0	0.978784	Y
4	IC 410-179603/14	20.0	19.296223	50.0	1267533.0	0.964811	Y
5	ICIS 410-179603/13	50.0	47.689085	50.0	1293838.0	0.953782	Y
6	IC 410-179603/12	100.0	93.633059	50.0	1302525.0	0.936331	Y
7	IC 410-179603/11	300.0	271.898	50.0	1349847.0	0.906327	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

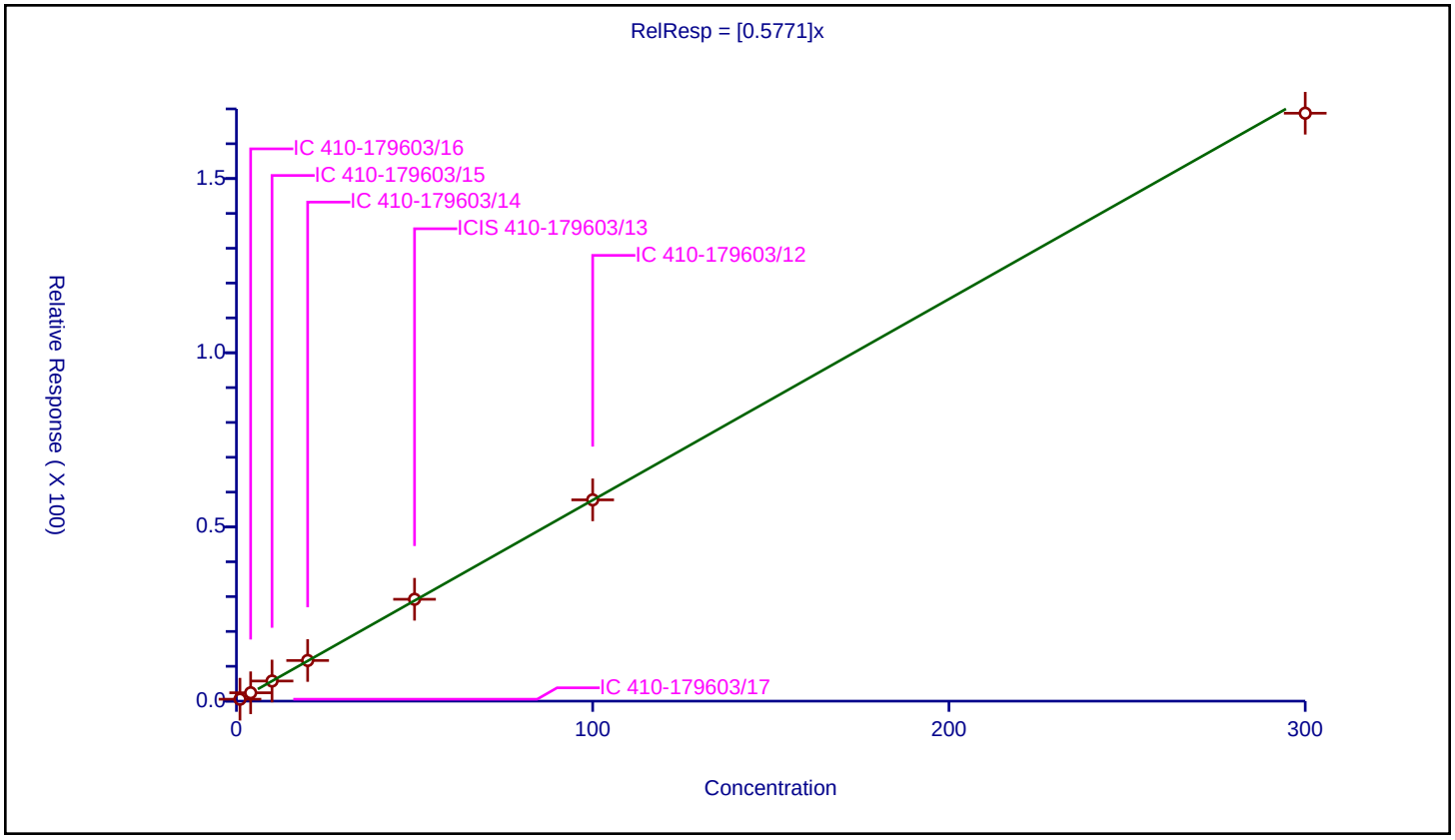
Curve Coefficients

Intercept:	0
Slope:	0.5771

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.55222	50.0	1274764.0	0.55222	Y
2	IC 410-179603/16	4.0	2.402379	50.0	1308203.0	0.600595	Y
3	IC 410-179603/15	10.0	5.777279	50.0	1289171.0	0.577728	Y
4	IC 410-179603/14	20.0	11.673463	50.0	1267533.0	0.583673	Y
5	ICIS 410-179603/13	50.0	29.239712	50.0	1293838.0	0.584794	Y
6	IC 410-179603/12	100.0	57.780695	50.0	1302525.0	0.577807	Y
7	IC 410-179603/11	300.0	168.761682	50.0	1349847.0	0.562539	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

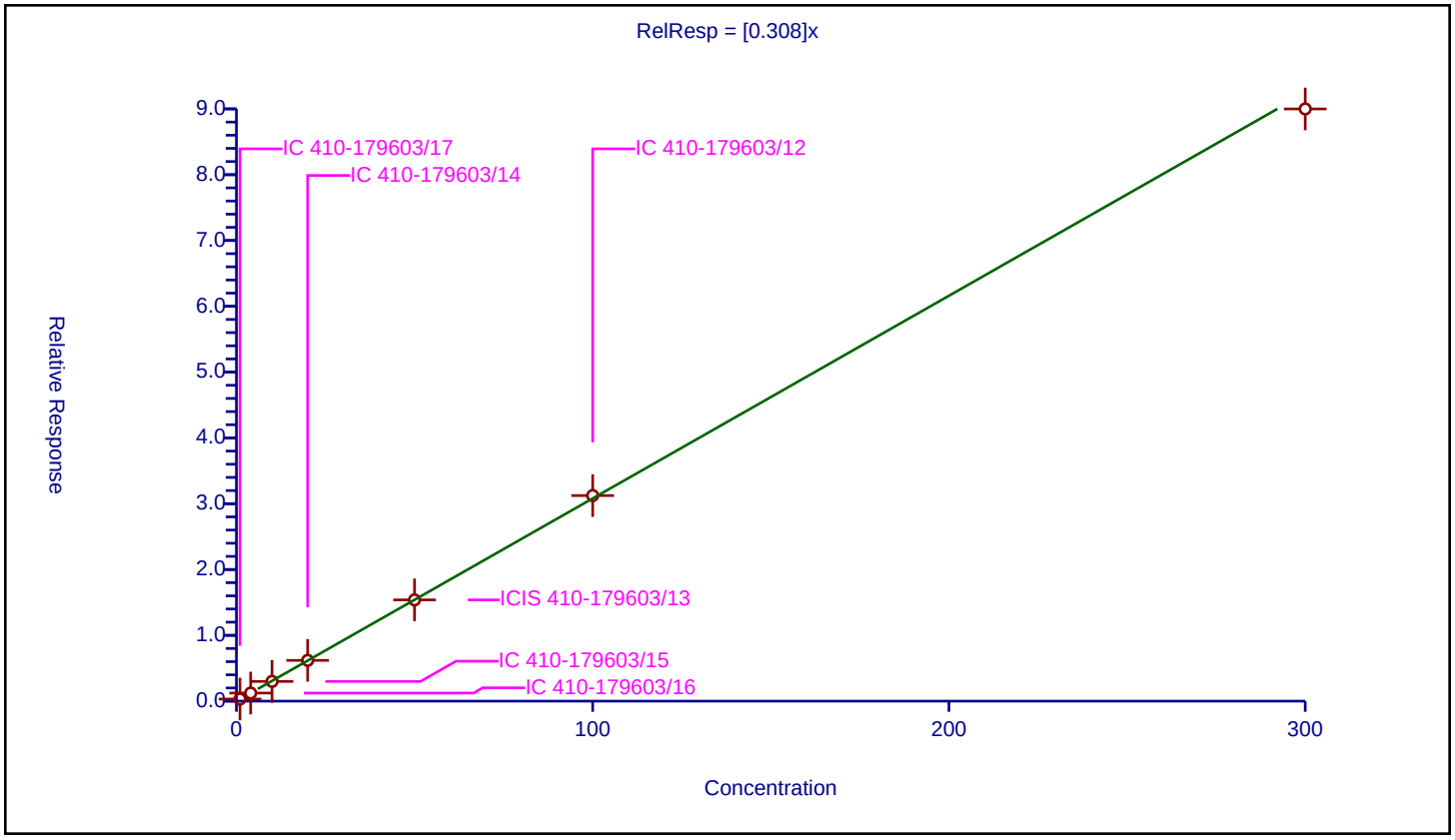
Curve Coefficients

Intercept:	0
Slope:	0.308

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.319157	50.0	1274764.0	0.319157	Y
2	IC 410-179603/16	4.0	1.230046	50.0	1308203.0	0.307512	Y
3	IC 410-179603/15	10.0	2.995724	50.0	1289171.0	0.299572	Y
4	IC 410-179603/14	20.0	6.196131	50.0	1267533.0	0.309807	Y
5	ICIS 410-179603/13	50.0	15.386277	50.0	1293838.0	0.307726	Y
6	IC 410-179603/12	100.0	31.241397	50.0	1302525.0	0.312414	Y
7	IC 410-179603/11	300.0	89.99094	50.0	1349847.0	0.29997	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

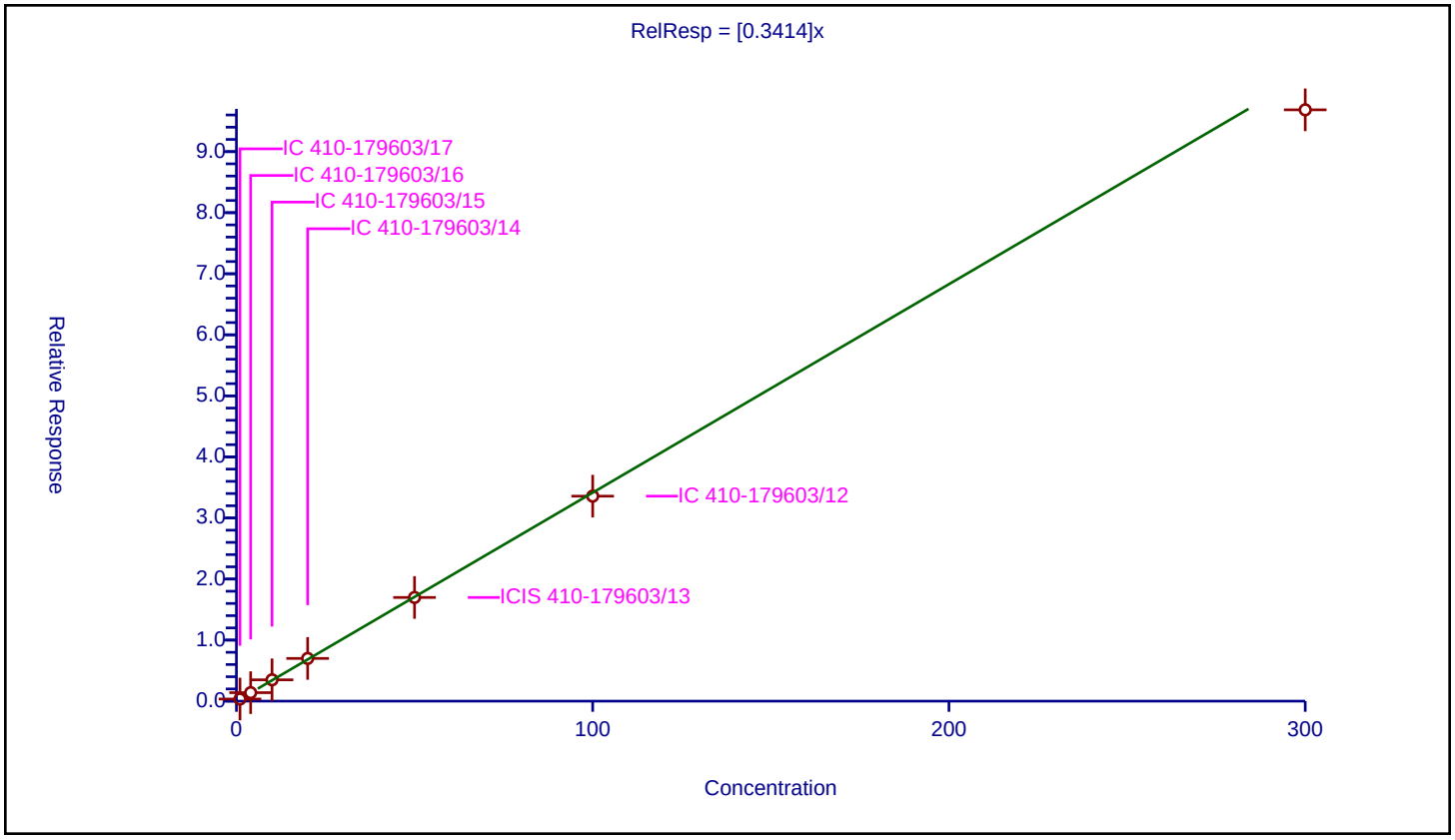
Curve Coefficients

Intercept:	0
Slope:	0.3414

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.345044	50.0	1274764.0	0.345044	Y
2	IC 410-179603/16	4.0	1.391221	50.0	1308203.0	0.347805	Y
3	IC 410-179603/15	10.0	3.493485	50.0	1289171.0	0.349349	Y
4	IC 410-179603/14	20.0	6.994966	50.0	1267533.0	0.349748	Y
5	ICIS 410-179603/13	50.0	16.981376	50.0	1293838.0	0.339628	Y
6	IC 410-179603/12	100.0	33.573789	50.0	1302525.0	0.335738	Y
7	IC 410-179603/11	300.0	96.847272	50.0	1349847.0	0.322824	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

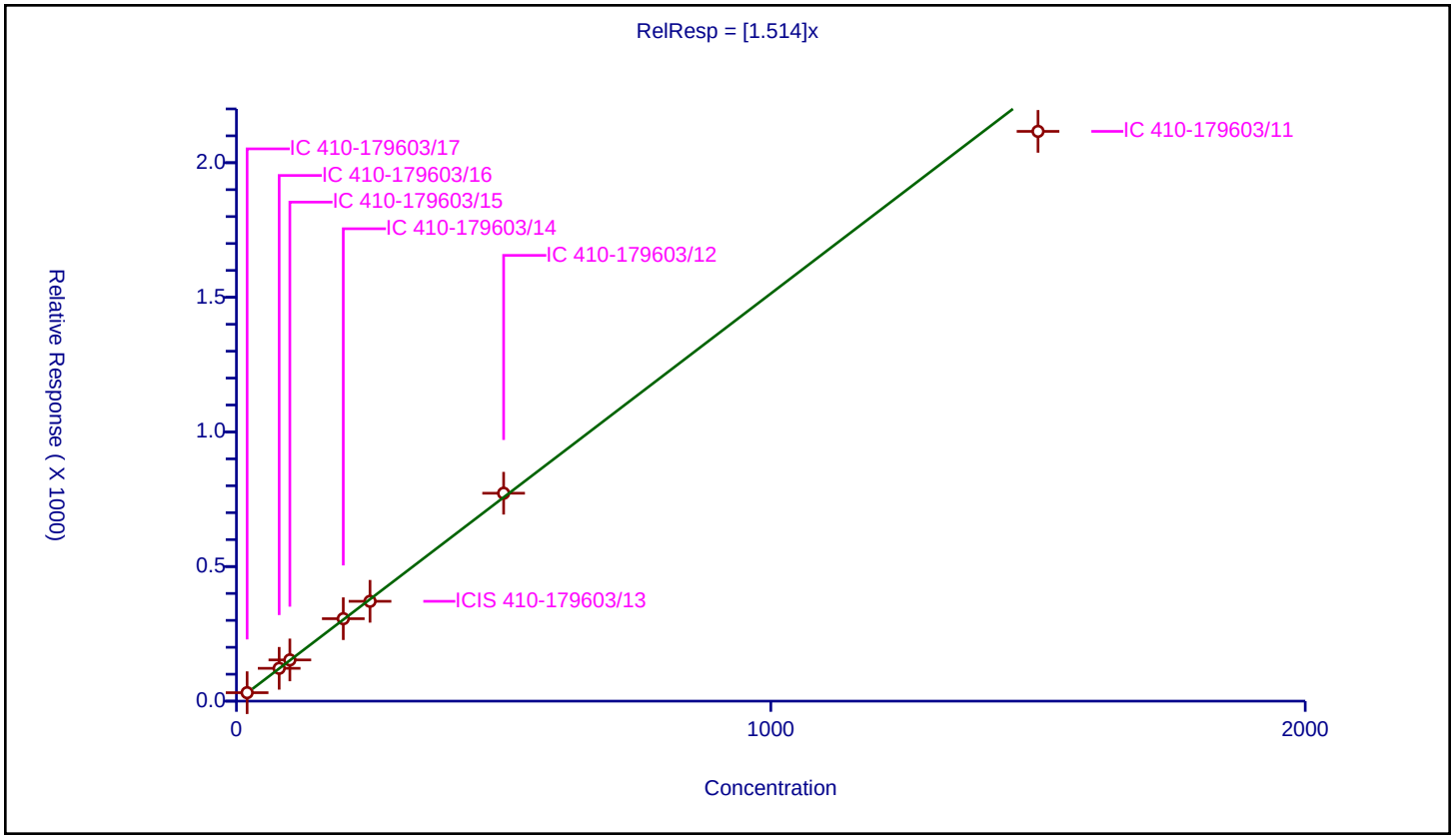
Curve Coefficients

Intercept:	0
Slope:	1.514

Error Coefficients

Standard Error:	844000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	20.0	31.448958	250.0	193822.0	1.572448	Y
2	IC 410-179603/16	80.0	121.962002	250.0	198486.0	1.524525	Y
3	IC 410-179603/15	100.0	153.073359	250.0	203930.0	1.530734	Y
4	IC 410-179603/14	200.0	306.24405	250.0	207982.0	1.53122	Y
5	ICIS 410-179603/13	250.0	370.886581	250.0	212840.0	1.483546	Y
6	IC 410-179603/12	500.0	772.328914	250.0	212919.0	1.544658	Y
7	IC 410-179603/11	1500.0	2116.514651	250.0	225963.0	1.41101	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

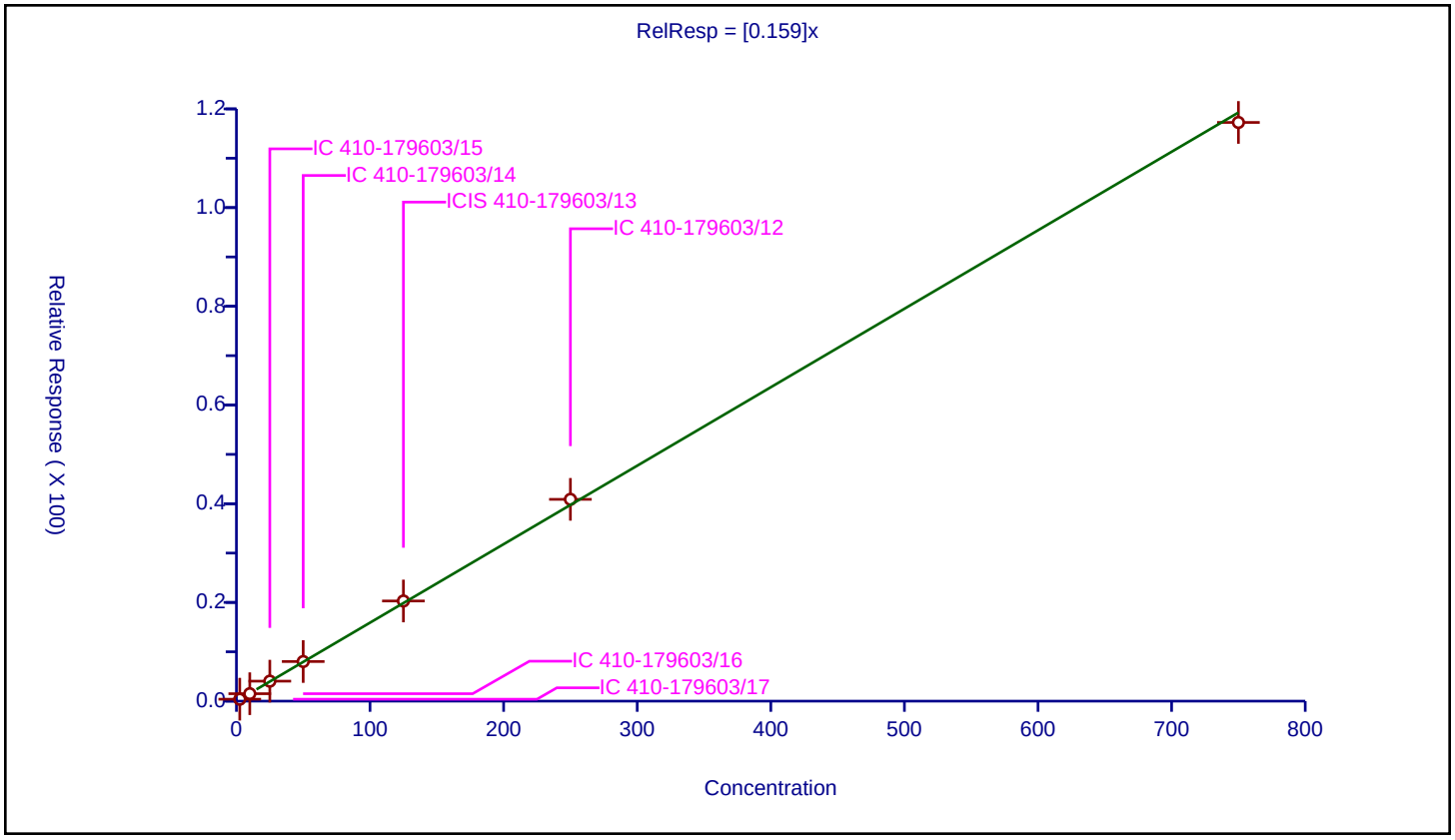
Curve Coefficients

Intercept:	0
Slope:	0.159

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	2.5	0.393916	50.0	1274764.0	0.157566	Y
2	IC 410-179603/16	10.0	1.507182	50.0	1308203.0	0.150718	Y
3	IC 410-179603/15	25.0	4.051014	50.0	1289171.0	0.162041	Y
4	IC 410-179603/14	50.0	8.026221	50.0	1267533.0	0.160524	Y
5	ICIS 410-179603/13	125.0	20.294697	50.0	1293838.0	0.162358	Y
6	IC 410-179603/12	250.0	40.888735	50.0	1302525.0	0.163555	Y
7	IC 410-179603/11	750.0	117.252511	50.0	1349847.0	0.156337	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

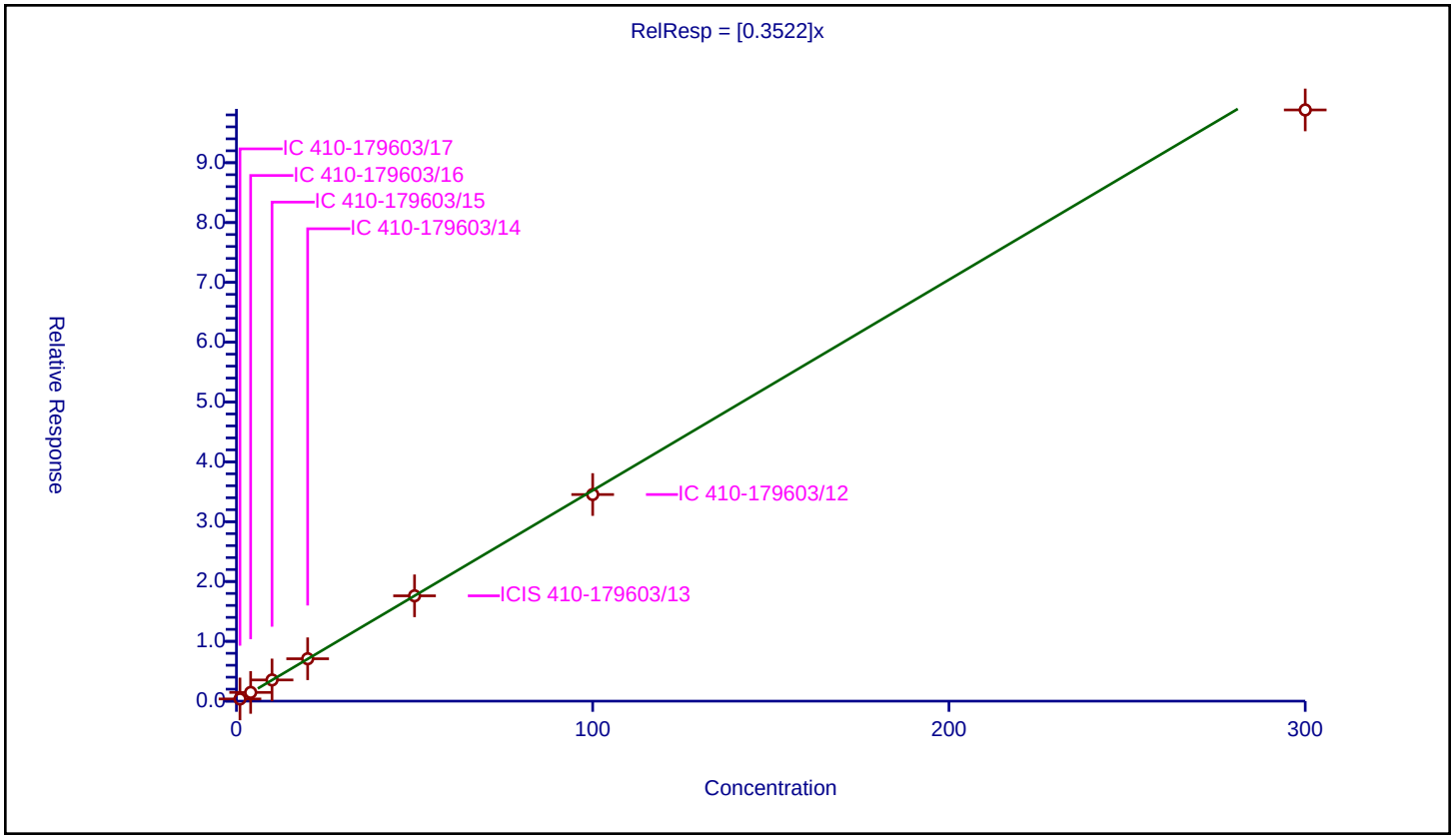
Curve Coefficients

Intercept:	0
Slope:	0.3522

Error Coefficients

Standard Error:	1170000
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 410-179603/17	1.0	0.366107	50.0	1274764.0	0.366107	Y
2	IC 410-179603/16	4.0	1.455967	50.0	1308203.0	0.363992	Y
3	IC 410-179603/15	10.0	3.543285	50.0	1289171.0	0.354328	Y
4	IC 410-179603/14	20.0	7.083642	50.0	1267533.0	0.354182	Y
5	ICIS 410-179603/13	50.0	17.6046	50.0	1293838.0	0.352092	Y
6	IC 410-179603/12	100.0	34.539299	50.0	1302525.0	0.345393	Y
7	IC 410-179603/11	300.0	98.825274	50.0	1349847.0	0.329418	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

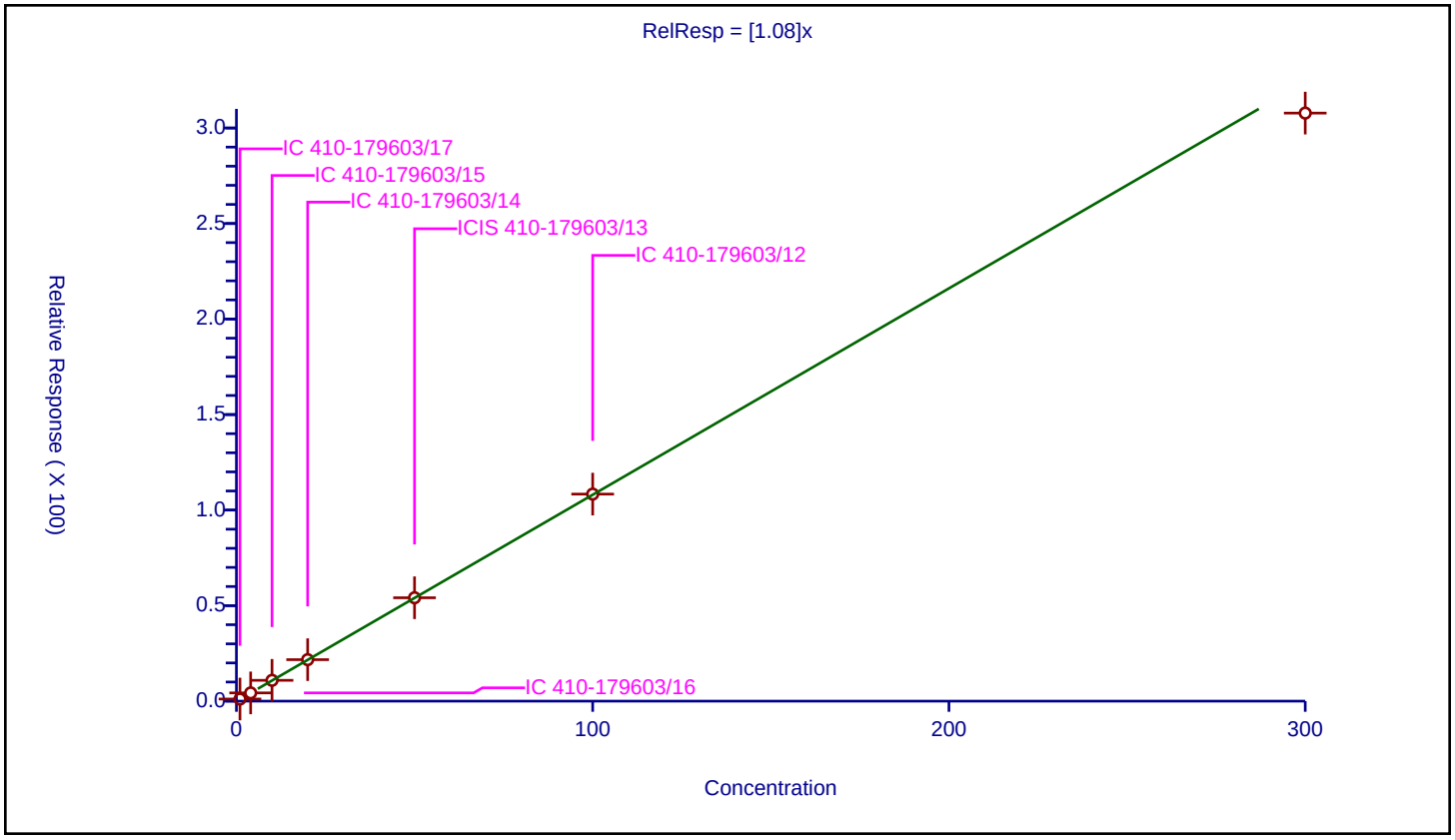
Curve Coefficients

Intercept:	0
Slope:	1.08

Error Coefficients

Standard Error:	3640000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.115148	50.0	1274764.0	1.115148	Y
2	IC 410-179603/16	4.0	4.314697	50.0	1308203.0	1.078674	Y
3	IC 410-179603/15	10.0	10.89774	50.0	1289171.0	1.089774	Y
4	IC 410-179603/14	20.0	21.718685	50.0	1267533.0	1.085934	Y
5	ICIS 410-179603/13	50.0	54.118792	50.0	1293838.0	1.082376	Y
6	IC 410-179603/12	100.0	108.375309	50.0	1302525.0	1.083753	Y
7	IC 410-179603/11	300.0	307.796735	50.0	1349847.0	1.025989	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

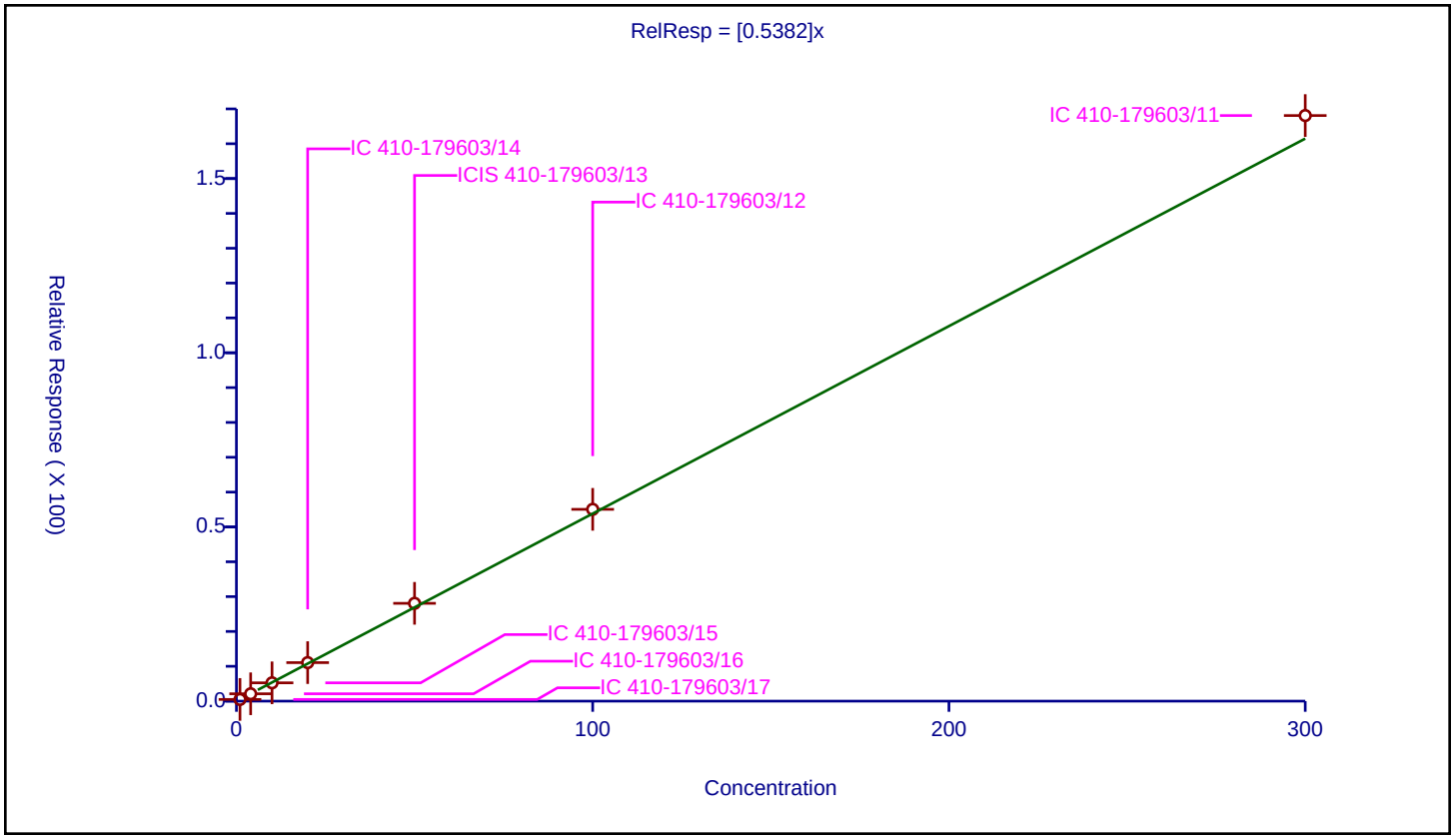
Curve Coefficients

Intercept:	0
Slope:	0.5382

Error Coefficients

Standard Error:	1970000
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 410-179603/17	1.0	0.488875	50.0	1274764.0	0.488875	Y
2	IC 410-179603/16	4.0	2.111981	50.0	1308203.0	0.527995	Y
3	IC 410-179603/15	10.0	5.252368	50.0	1289171.0	0.525237	Y
4	IC 410-179603/14	20.0	11.060698	50.0	1267533.0	0.553035	Y
5	ICIS 410-179603/13	50.0	28.077047	50.0	1293838.0	0.561541	Y
6	IC 410-179603/12	100.0	55.057945	50.0	1302525.0	0.550579	Y
7	IC 410-179603/11	300.0	168.089643	50.0	1349847.0	0.560299	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

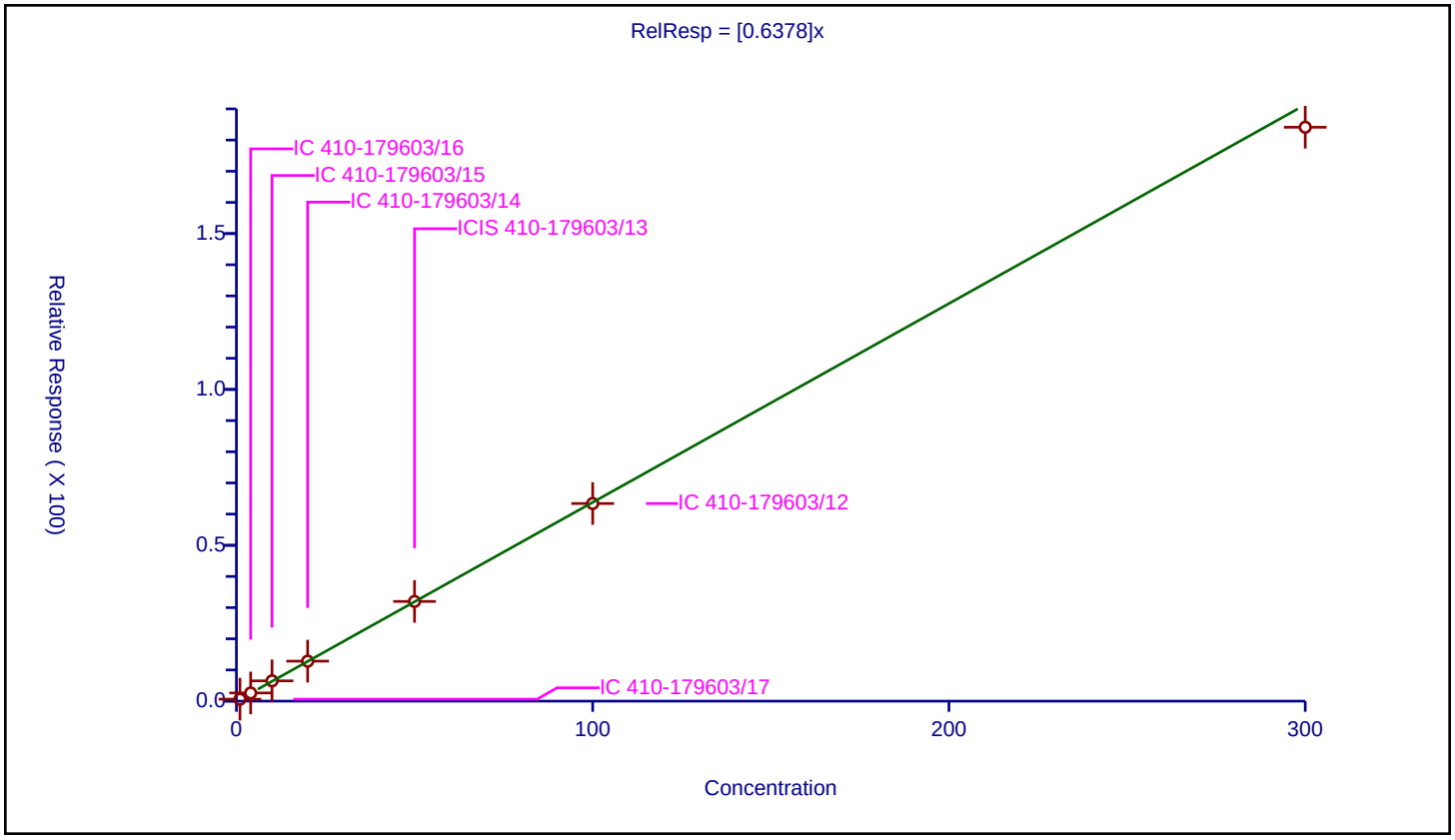
Curve Coefficients

Intercept:	0
Slope:	0.6378

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.629018	50.0	1274764.0	0.629018	Y
2	IC 410-179603/16	4.0	2.623943	50.0	1308203.0	0.655986	Y
3	IC 410-179603/15	10.0	6.506235	50.0	1289171.0	0.650624	Y
4	IC 410-179603/14	20.0	12.826964	50.0	1267533.0	0.641348	Y
5	ICIS 410-179603/13	50.0	31.982984	50.0	1293838.0	0.63966	Y
6	IC 410-179603/12	100.0	63.399704	50.0	1302525.0	0.633997	Y
7	IC 410-179603/11	300.0	184.113088	50.0	1349847.0	0.61371	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

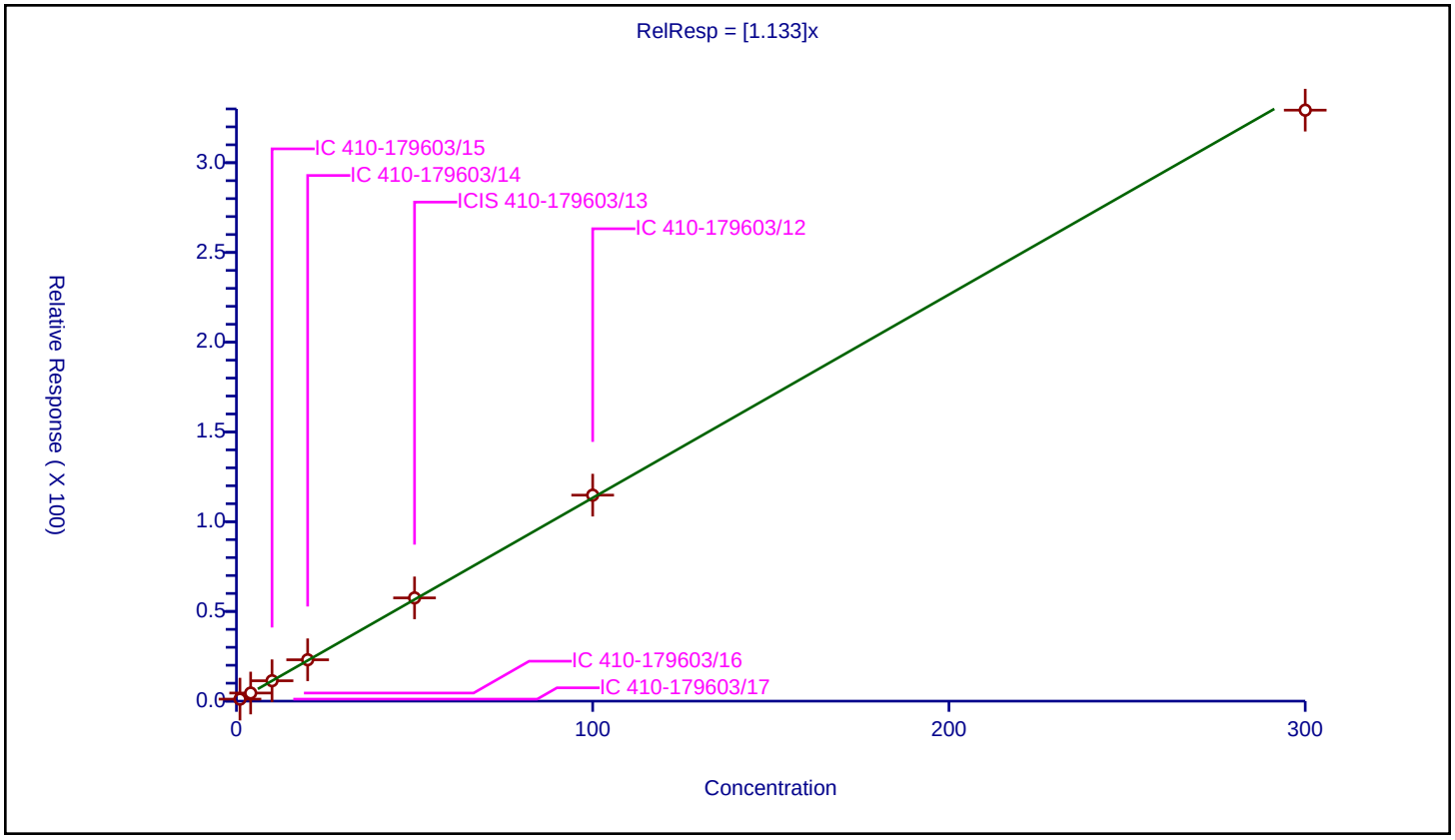
Curve Coefficients

Intercept:	0
Slope:	1.133

Error Coefficients

Standard Error:	3890000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.113383	50.0	1274764.0	1.113383	Y
2	IC 410-179603/16	4.0	4.522234	50.0	1308203.0	1.130558	Y
3	IC 410-179603/15	10.0	11.366762	50.0	1289171.0	1.136676	Y
4	IC 410-179603/14	20.0	23.049538	50.0	1267533.0	1.152477	Y
5	ICIS 410-179603/13	50.0	57.522116	50.0	1293838.0	1.150442	Y
6	IC 410-179603/12	100.0	114.778066	50.0	1302525.0	1.147781	Y
7	IC 410-179603/11	300.0	329.295579	50.0	1349847.0	1.097652	Y



Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

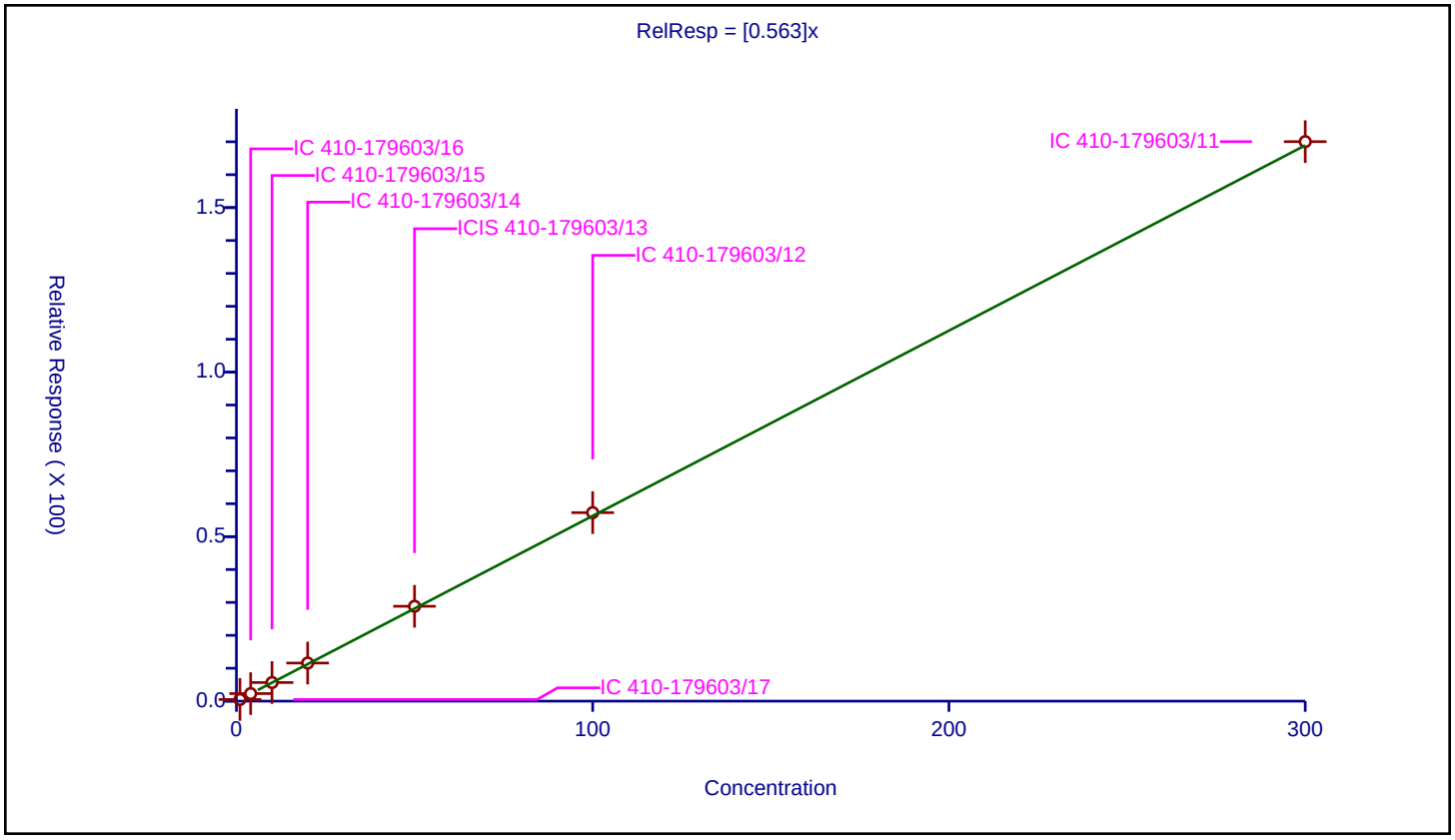
Curve Coefficients

Intercept:	0
Slope:	0.563

Error Coefficients

Standard Error:	2000000
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 410-179603/17	1.0	0.507898	50.0	1274764.0	0.507898	Y
2	IC 410-179603/16	4.0	2.29112	50.0	1308203.0	0.57278	Y
3	IC 410-179603/15	10.0	5.651345	50.0	1289171.0	0.565134	Y
4	IC 410-179603/14	20.0	11.579146	50.0	1267533.0	0.578957	Y
5	ICIS 410-179603/13	50.0	28.833092	50.0	1293838.0	0.576662	Y
6	IC 410-179603/12	100.0	57.293142	50.0	1302525.0	0.572931	Y
7	IC 410-179603/11	300.0	170.047013	50.0	1349847.0	0.566823	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

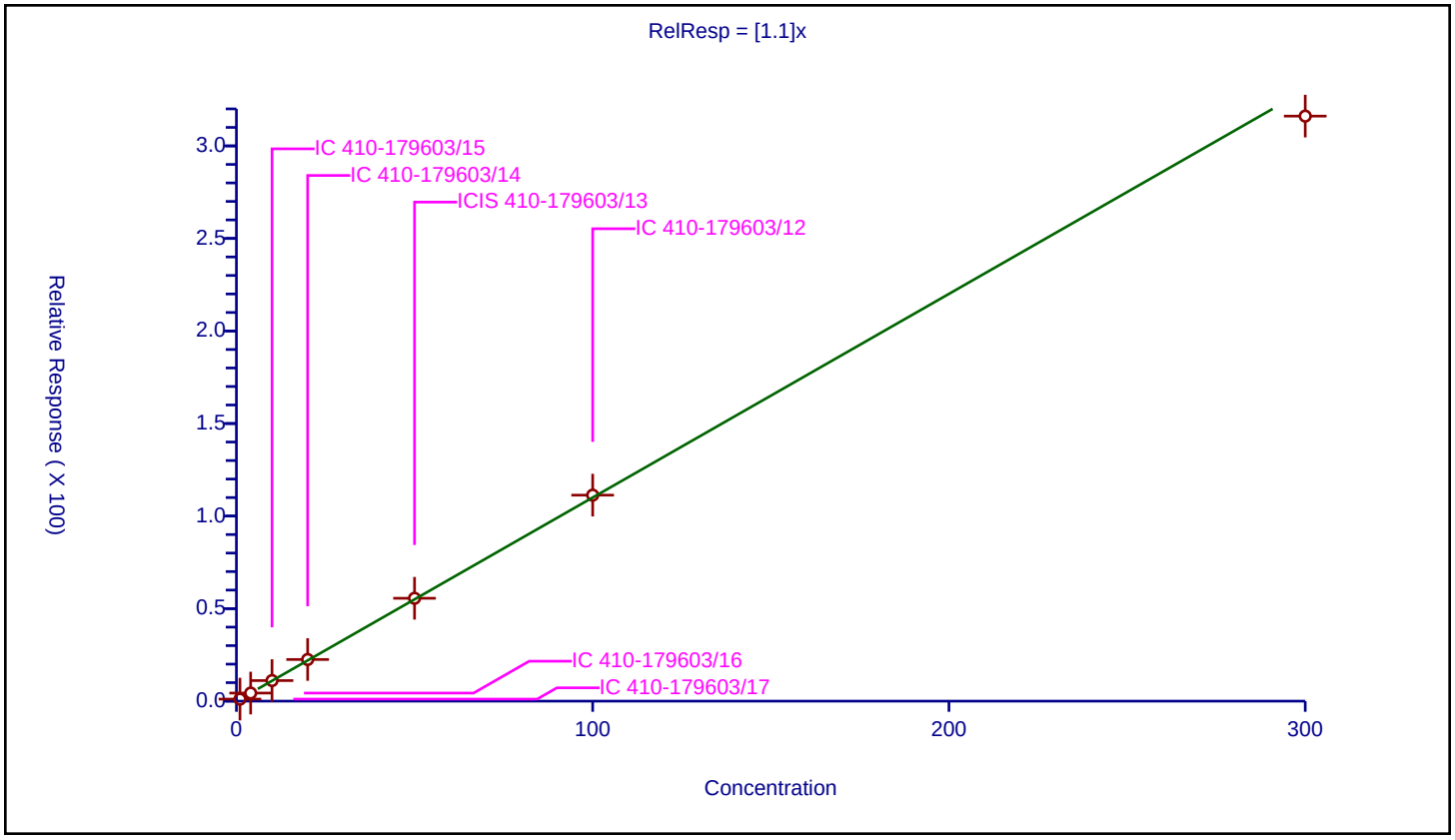
Curve Coefficients

Intercept:	0
Slope:	1.1

Error Coefficients

Standard Error:	3740000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.095654	50.0	1274764.0	1.095654	Y
2	IC 410-179603/16	4.0	4.362893	50.0	1308203.0	1.090723	Y
3	IC 410-179603/15	10.0	11.119277	50.0	1289171.0	1.111928	Y
4	IC 410-179603/14	20.0	22.494128	50.0	1267533.0	1.124706	Y
5	ICIS 410-179603/13	50.0	55.585282	50.0	1293838.0	1.111706	Y
6	IC 410-179603/12	100.0	111.311606	50.0	1302525.0	1.113116	Y
7	IC 410-179603/11	300.0	316.093972	50.0	1349847.0	1.053647	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

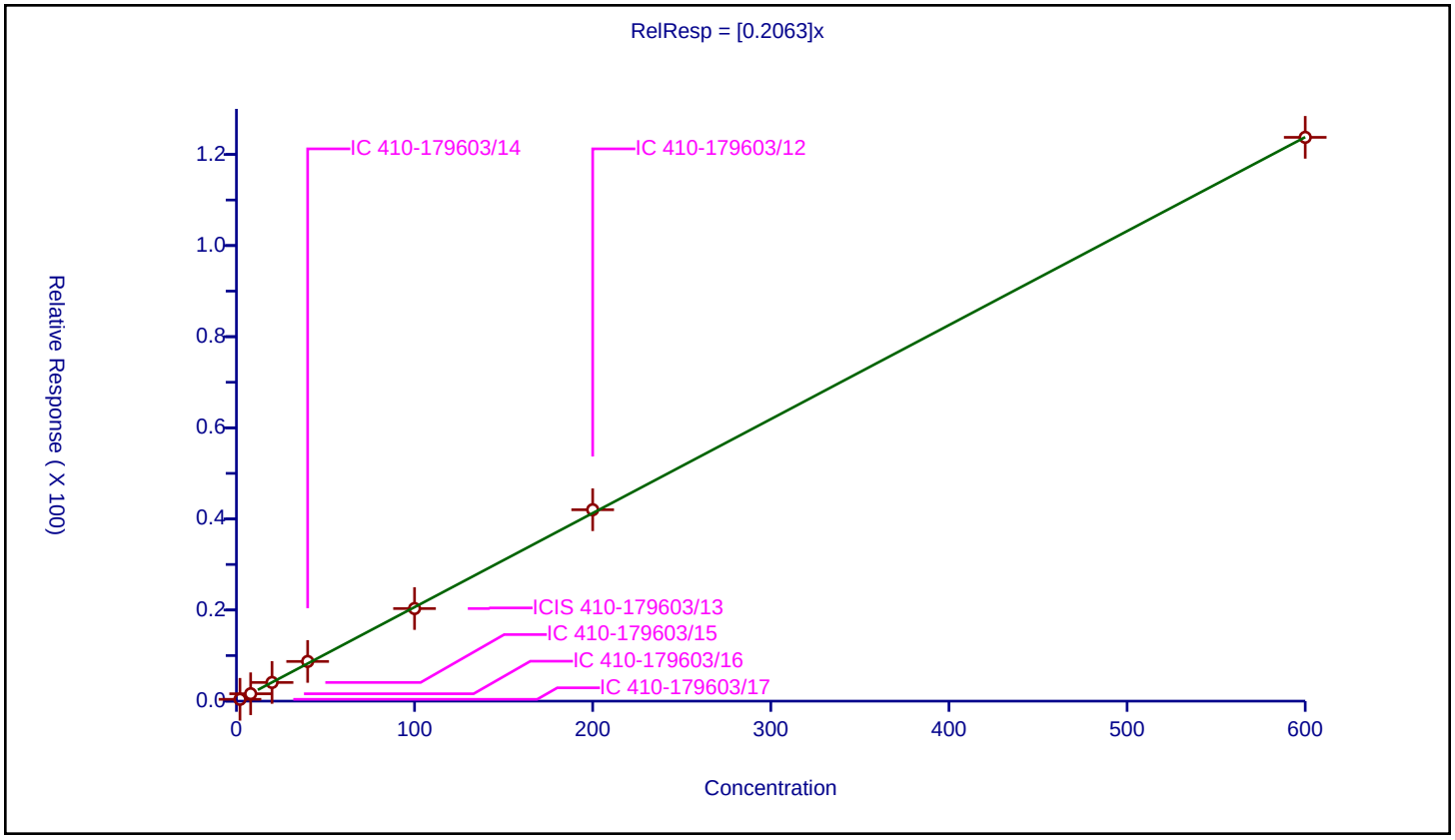
Curve Coefficients

Intercept:	0
Slope:	0.2063

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	2.0	0.397799	50.0	1274764.0	0.1989	Y
2	IC 410-179603/16	8.0	1.624977	50.0	1308203.0	0.203122	Y
3	IC 410-179603/15	20.0	4.100348	50.0	1289171.0	0.205017	Y
4	IC 410-179603/14	40.0	8.711726	50.0	1267533.0	0.217793	Y
5	ICIS 410-179603/13	100.0	20.322598	50.0	1293838.0	0.203226	Y
6	IC 410-179603/12	200.0	42.015048	50.0	1302525.0	0.210075	Y
7	IC 410-179603/11	600.0	123.754989	50.0	1349847.0	0.206258	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

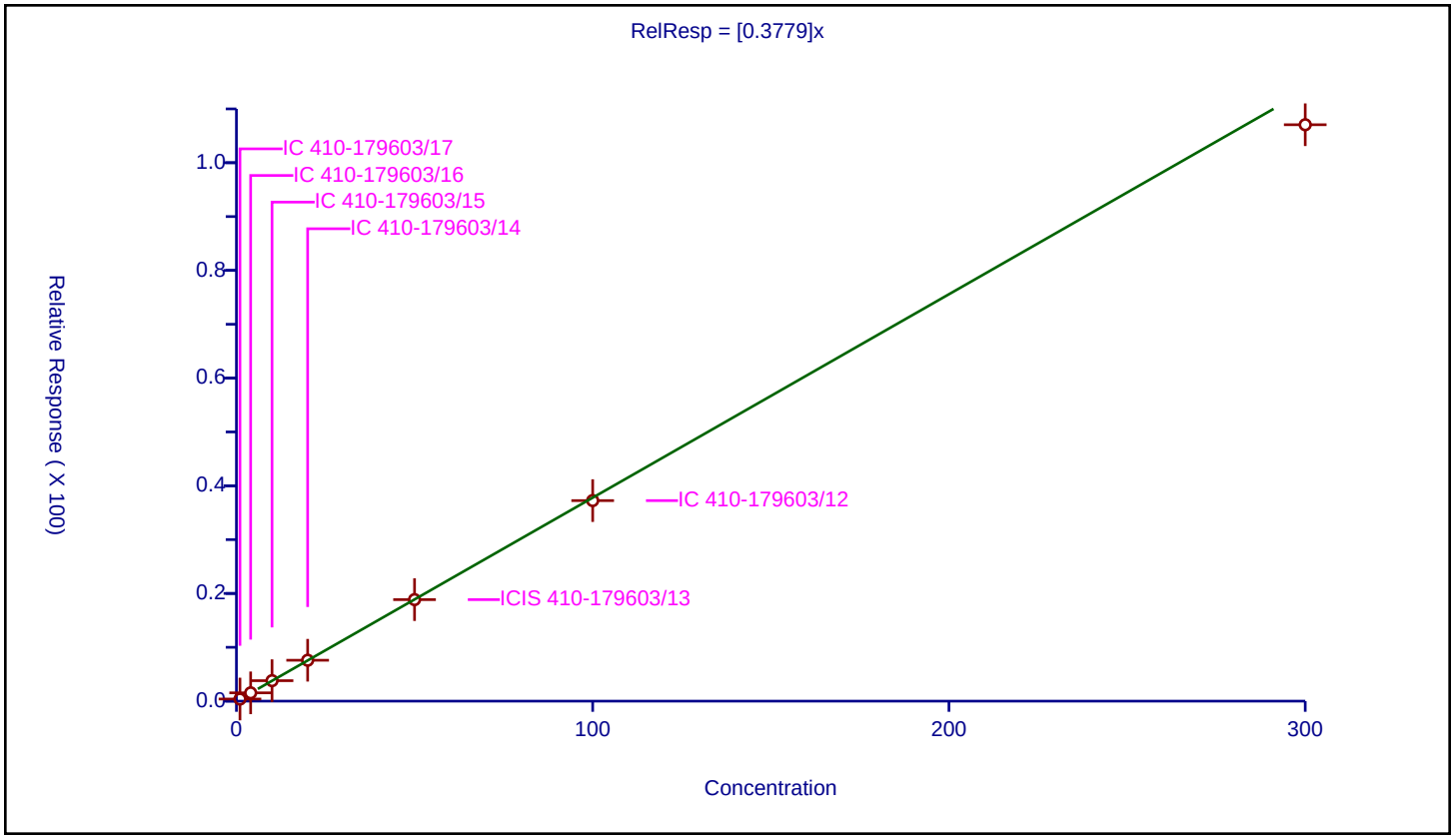
Curve Coefficients

Intercept:	0
Slope:	0.3779

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.393994	50.0	1274764.0	0.393994	Y
2	IC 410-179603/16	4.0	1.539669	50.0	1308203.0	0.384917	Y
3	IC 410-179603/15	10.0	3.799651	50.0	1289171.0	0.379965	Y
4	IC 410-179603/14	20.0	7.594556	50.0	1267533.0	0.379728	Y
5	ICIS 410-179603/13	50.0	18.855374	50.0	1293838.0	0.377107	Y
6	IC 410-179603/12	100.0	37.248536	50.0	1302525.0	0.372485	Y
7	IC 410-179603/11	300.0	107.056096	50.0	1349847.0	0.356854	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

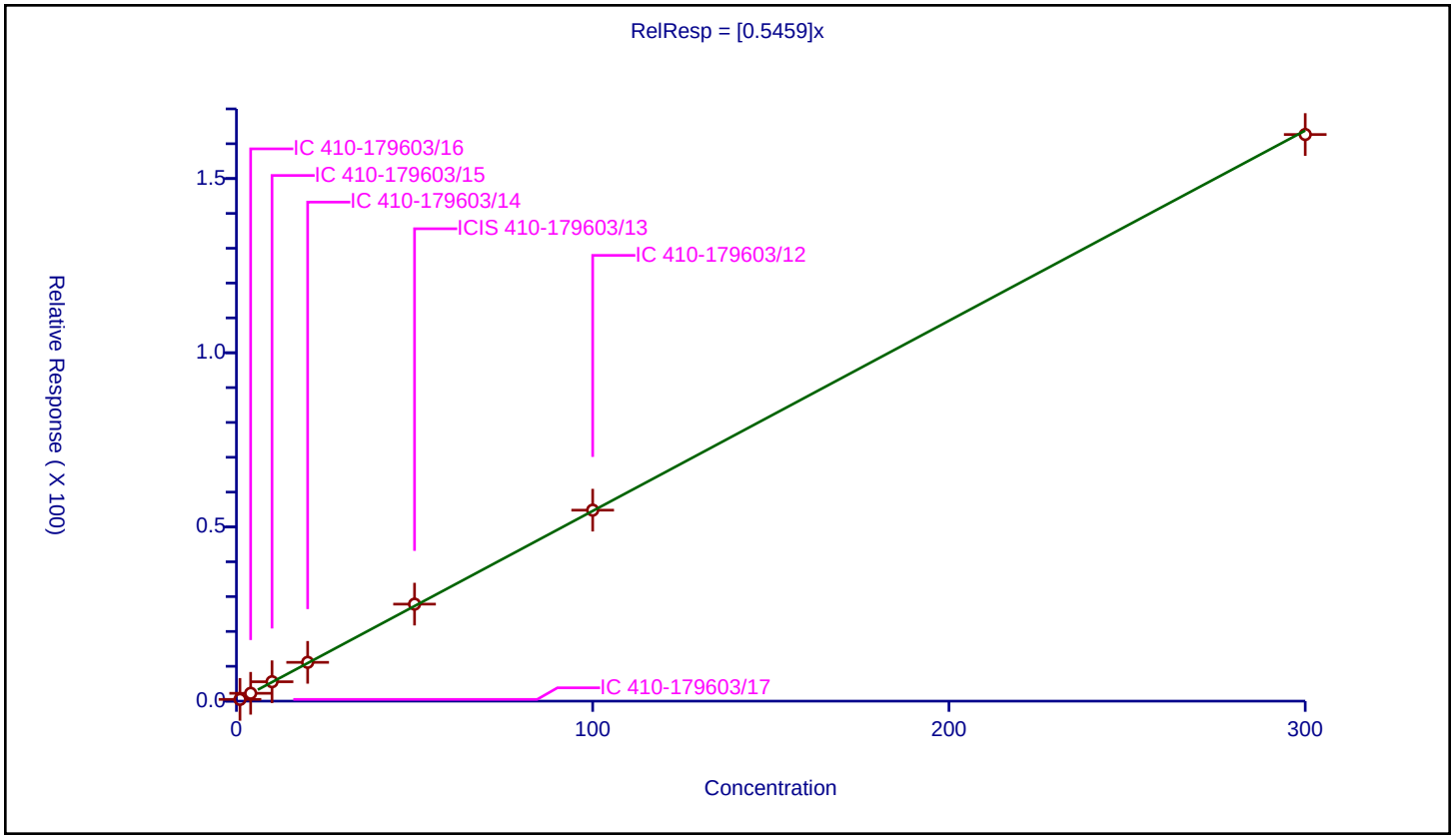
Curve Coefficients

Intercept:	0
Slope:	0.5459

Error Coefficients

Standard Error:	1910000
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 410-179603/17	1.0	0.497975	50.0	1274764.0	0.497975	Y
2	IC 410-179603/16	4.0	2.251868	50.0	1308203.0	0.562967	Y
3	IC 410-179603/15	10.0	5.56598	50.0	1289171.0	0.556598	Y
4	IC 410-179603/14	20.0	11.133004	50.0	1267533.0	0.55665	Y
5	ICIS 410-179603/13	50.0	27.844174	50.0	1293838.0	0.556883	Y
6	IC 410-179603/12	100.0	54.820138	50.0	1302525.0	0.548201	Y
7	IC 410-179603/11	300.0	162.646544	50.0	1349847.0	0.542155	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

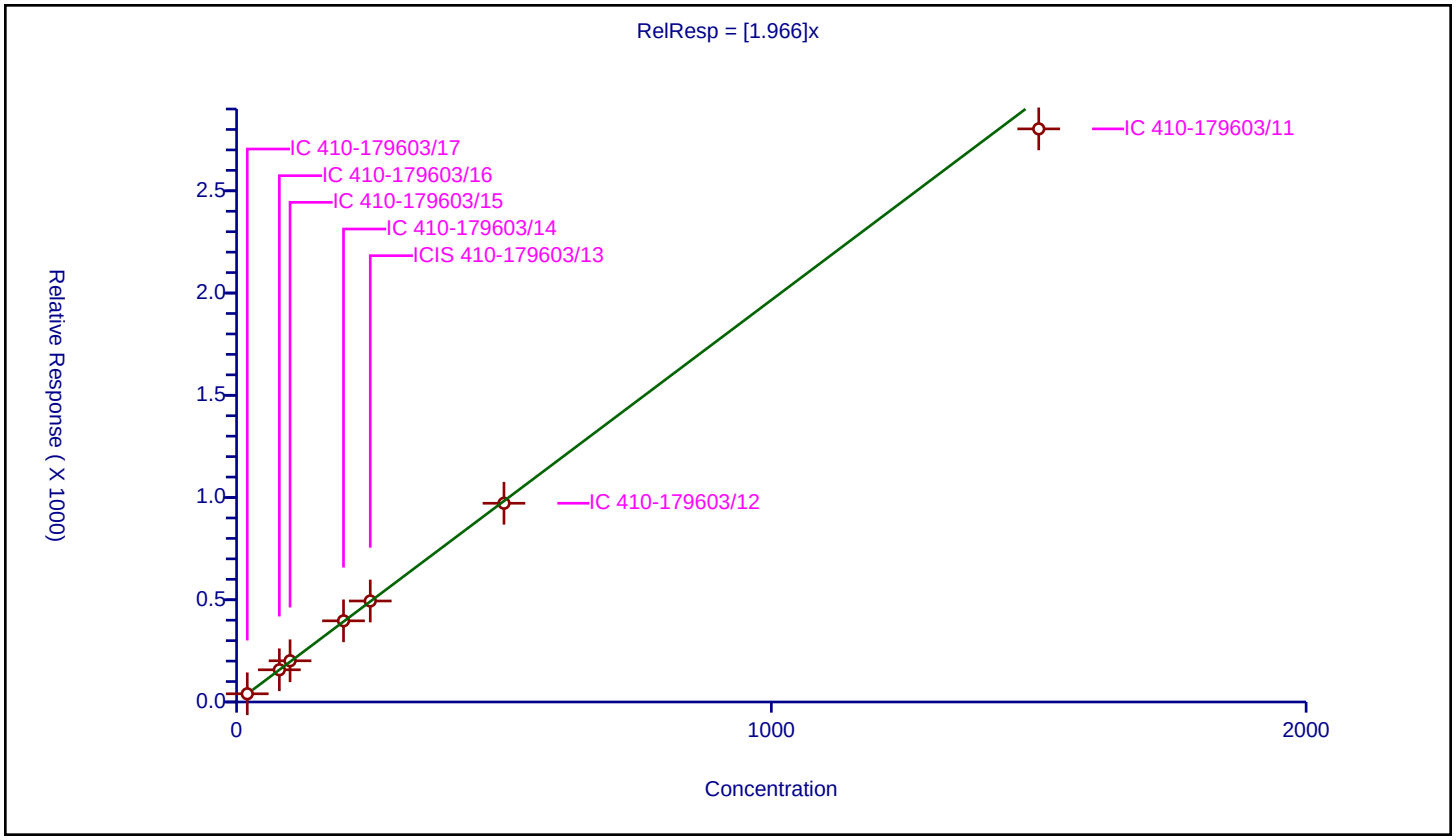
Curve Coefficients

Intercept:	0
Slope:	1.966

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	20.0	40.07285	250.0	193822.0	2.003643	Y
2	IC 410-179603/16	80.0	157.511109	250.0	198486.0	1.968889	Y
3	IC 410-179603/15	100.0	201.501741	250.0	203930.0	2.015017	Y
4	IC 410-179603/14	200.0	396.93459	250.0	207982.0	1.984673	Y
5	ICIS 410-179603/13	250.0	493.899173	250.0	212840.0	1.975597	Y
6	IC 410-179603/12	500.0	971.915376	250.0	212919.0	1.943831	Y
7	IC 410-179603/11	1500.0	2802.893615	250.0	225963.0	1.868596	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

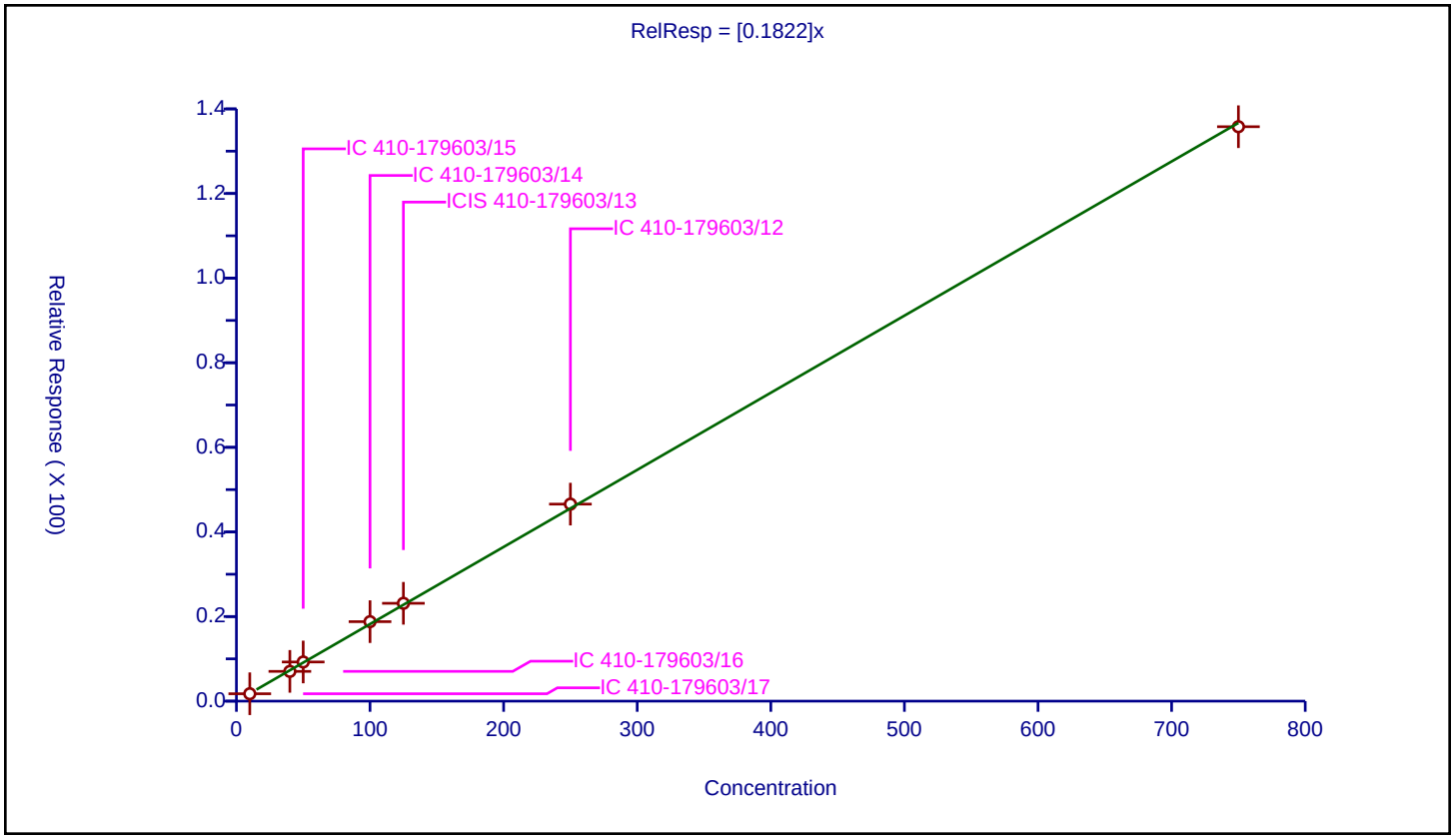
Curve Coefficients

Intercept:	0
Slope:	0.1822

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	10.0	1.744754	50.0	1274764.0	0.174475	Y
2	IC 410-179603/16	40.0	7.0353	50.0	1308203.0	0.175882	Y
3	IC 410-179603/15	50.0	9.255405	50.0	1289171.0	0.185108	Y
4	IC 410-179603/14	100.0	18.789136	50.0	1267533.0	0.187891	Y
5	ICIS 410-179603/13	125.0	23.126891	50.0	1293838.0	0.185015	Y
6	IC 410-179603/12	250.0	46.575997	50.0	1302525.0	0.186304	Y
7	IC 410-179603/11	750.0	135.785611	50.0	1349847.0	0.181047	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

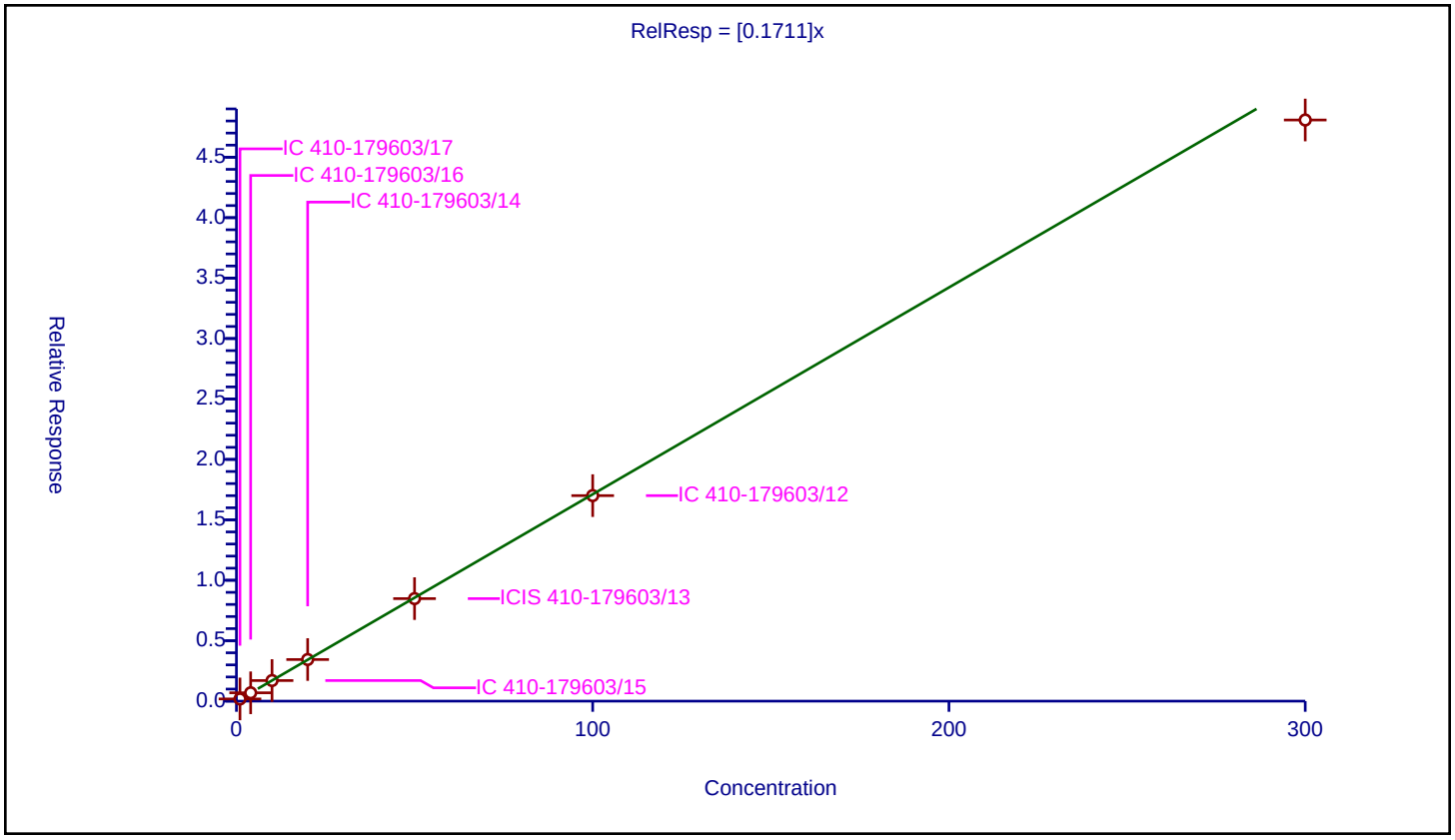
Curve Coefficients

Intercept:	0
Slope:	0.1711

Error Coefficients

Standard Error:	568000
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 410-179603/17	1.0	0.182544	50.0	1274764.0	0.182544	Y
2	IC 410-179603/16	4.0	0.691177	50.0	1308203.0	0.172794	Y
3	IC 410-179603/15	10.0	1.704118	50.0	1289171.0	0.170412	Y
4	IC 410-179603/14	20.0	3.443185	50.0	1267533.0	0.172159	Y
5	ICIS 410-179603/13	50.0	8.48352	50.0	1293838.0	0.16967	Y
6	IC 410-179603/12	100.0	17.00309	50.0	1302525.0	0.170031	Y
7	IC 410-179603/11	300.0	48.080412	50.0	1349847.0	0.160268	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

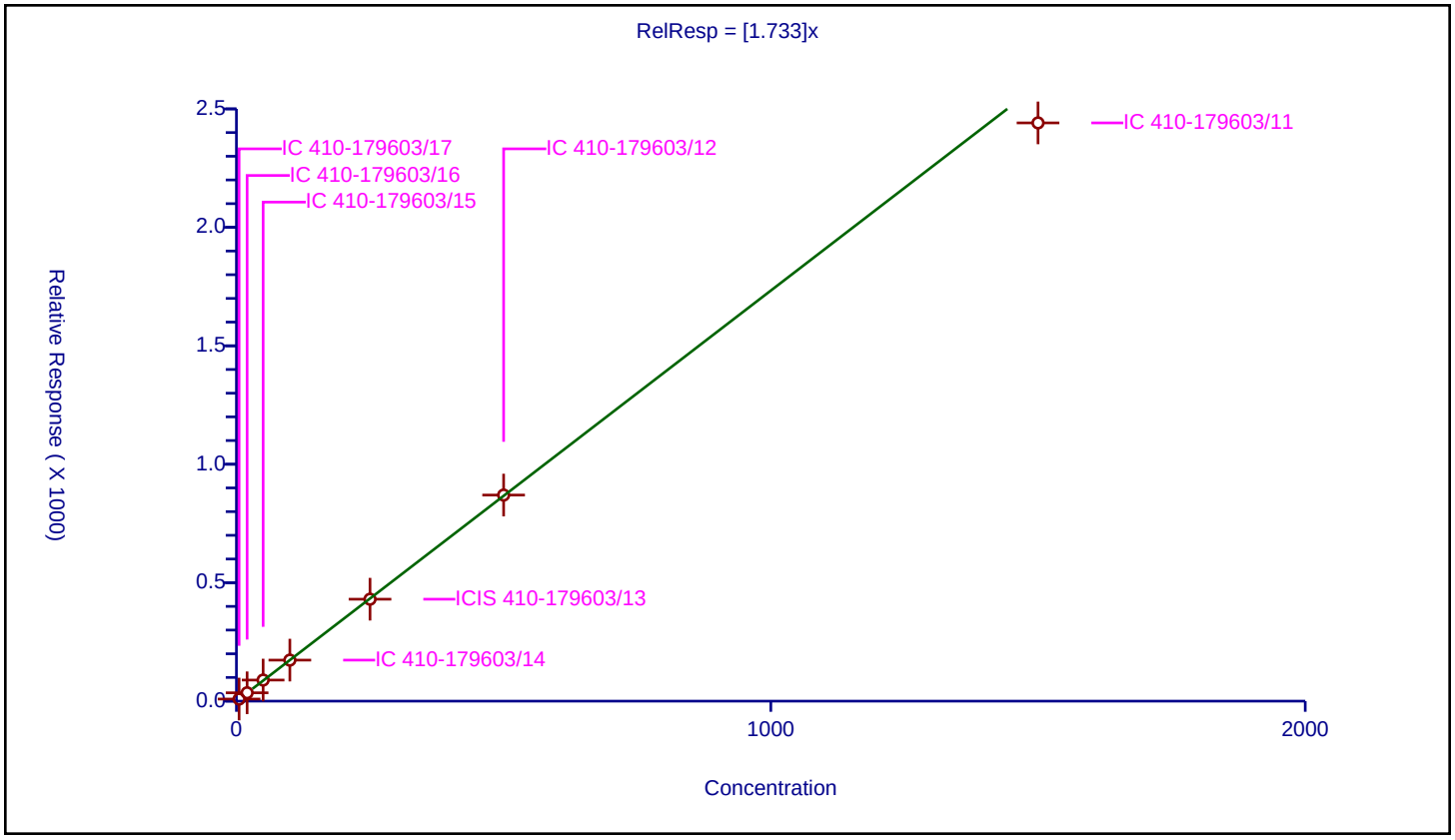
Curve Coefficients

Intercept:	0
Slope:	1.733

Error Coefficients

Standard Error:	963000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	5.0	8.853484	250.0	193822.0	1.770697	Y
2	IC 410-179603/16	20.0	35.202735	250.0	198486.0	1.760137	Y
3	IC 410-179603/15	50.0	89.008483	250.0	203930.0	1.78017	Y
4	IC 410-179603/14	100.0	173.145993	250.0	207982.0	1.73146	Y
5	ICIS 410-179603/13	250.0	430.349089	250.0	212840.0	1.721396	Y
6	IC 410-179603/12	500.0	869.894185	250.0	212919.0	1.739788	Y
7	IC 410-179603/11	1500.0	2440.860893	250.0	225963.0	1.627241	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

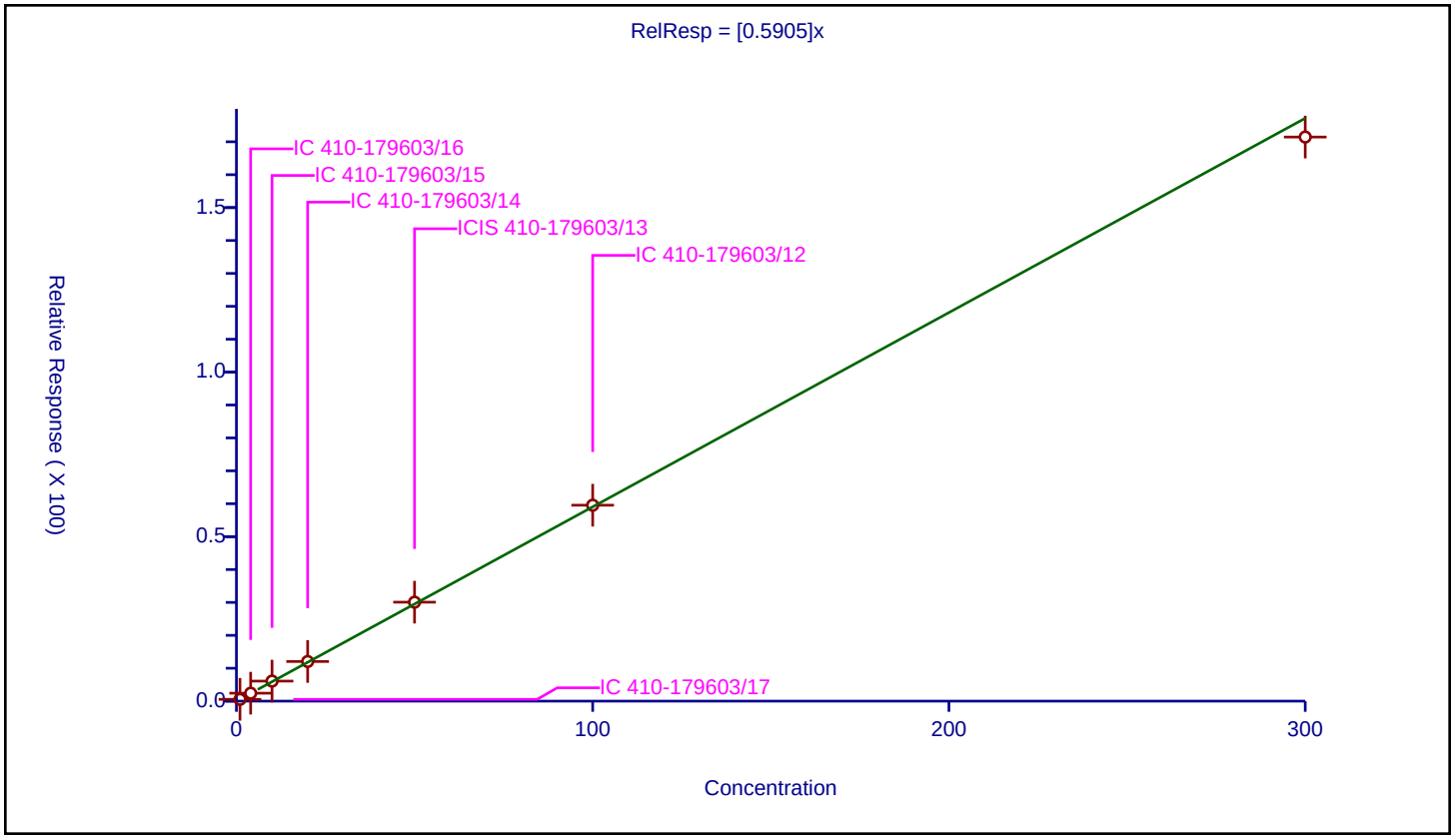
Curve Coefficients

Intercept:	0
Slope:	0.5905

Error Coefficients

Standard Error:	2020000
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 410-179603/17	1.0	0.549474	50.0	1274764.0	0.549474	Y
2	IC 410-179603/16	4.0	2.415336	50.0	1308203.0	0.603834	Y
3	IC 410-179603/15	10.0	6.094653	50.0	1289171.0	0.609465	Y
4	IC 410-179603/14	20.0	12.045919	50.0	1267533.0	0.602296	Y
5	ICIS 410-179603/13	50.0	30.077181	50.0	1293838.0	0.601544	Y
6	IC 410-179603/12	100.0	59.54592	50.0	1302525.0	0.595459	Y
7	IC 410-179603/11	300.0	171.443356	50.0	1349847.0	0.571478	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

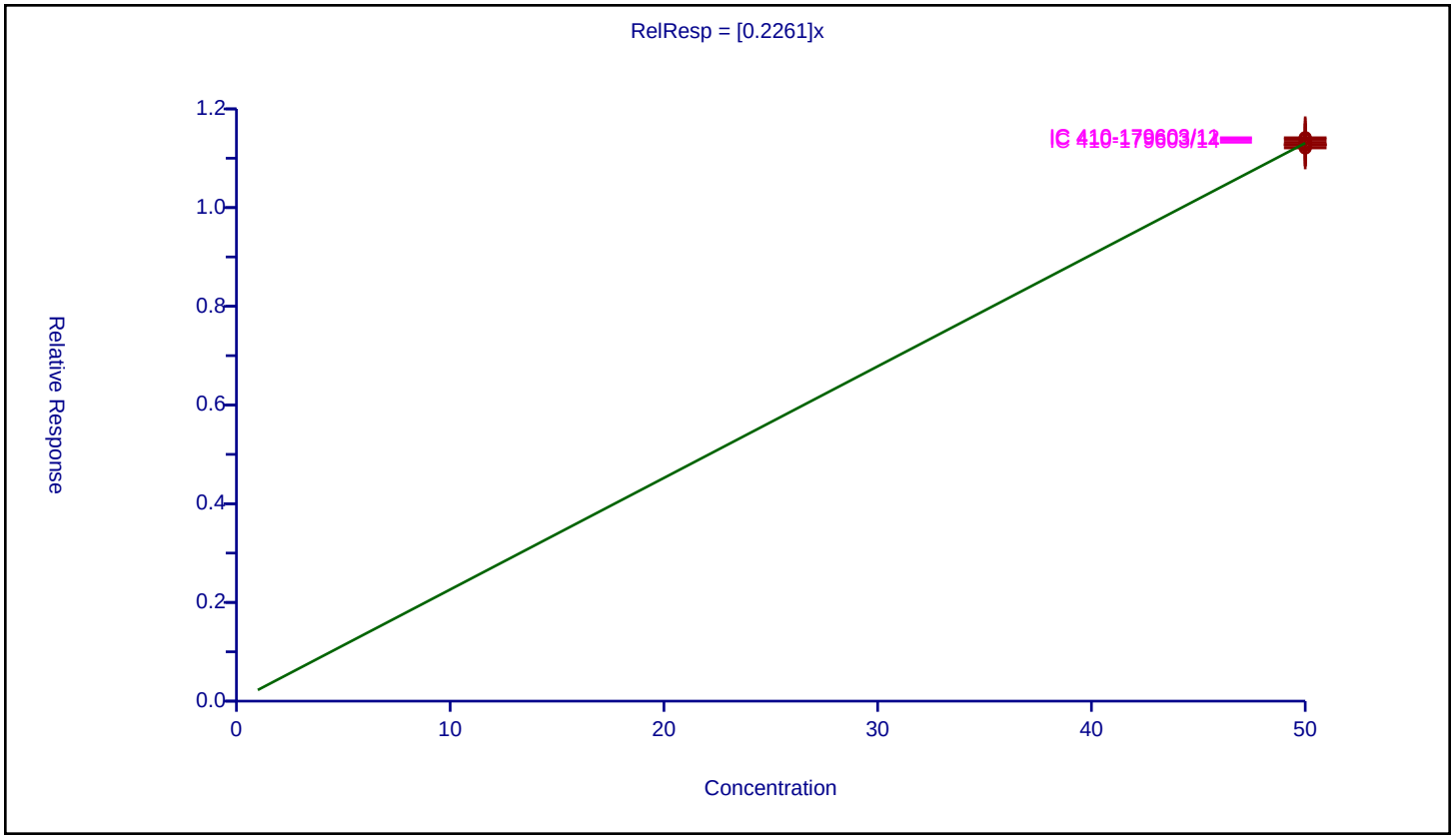
Curve Coefficients

Intercept:	0
Slope:	0.2261

Error Coefficients

Standard Error:	317000
Relative Standard Error:	0.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/11	50.0	11.415294	50.0	1349847.0	0.228306	Y
2	IC 410-179603/12	50.0	11.380357	50.0	1302525.0	0.227607	Y
3	ICIS 410-179603/13	50.0	11.277416	50.0	1293838.0	0.225548	Y
4	IC 410-179603/14	50.0	11.324044	50.0	1267533.0	0.226481	Y
5	IC 410-179603/15	50.0	11.275928	50.0	1289171.0	0.225519	Y
6	IC 410-179603/16	50.0	11.209002	50.0	1308203.0	0.22418	Y
7	IC 410-179603/17	50.0	11.262006	50.0	1274764.0	0.22524	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

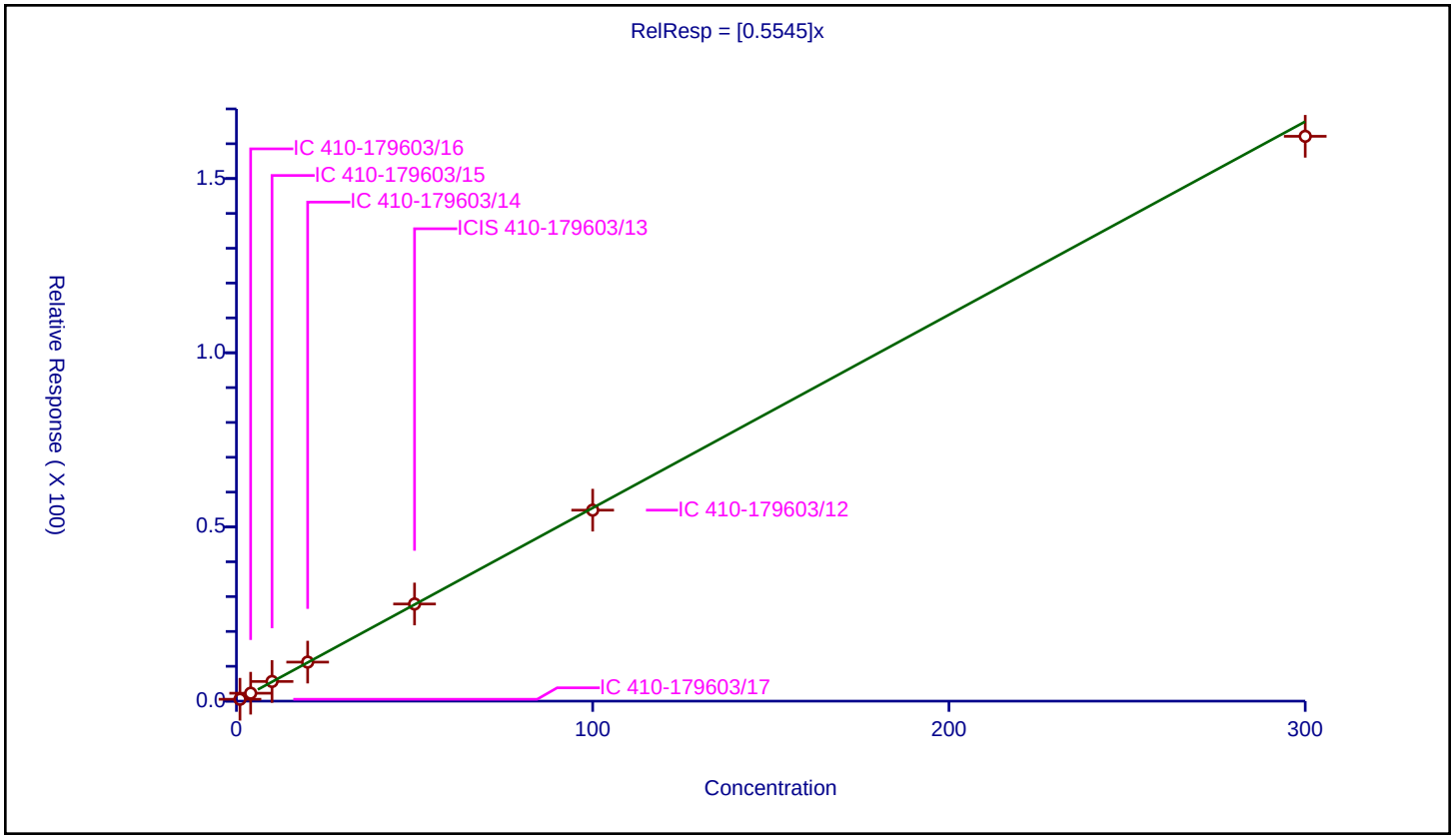
Curve Coefficients

Intercept:	0
Slope:	0.5545

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.541512	50.0	1274764.0	0.541512	Y
2	IC 410-179603/16	4.0	2.276787	50.0	1308203.0	0.569197	Y
3	IC 410-179603/15	10.0	5.646342	50.0	1289171.0	0.564634	Y
4	IC 410-179603/14	20.0	11.201405	50.0	1267533.0	0.56007	Y
5	ICIS 410-179603/13	50.0	27.885446	50.0	1293838.0	0.557709	Y
6	IC 410-179603/12	100.0	54.818065	50.0	1302525.0	0.548181	Y
7	IC 410-179603/11	300.0	162.13645	50.0	1349847.0	0.540455	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

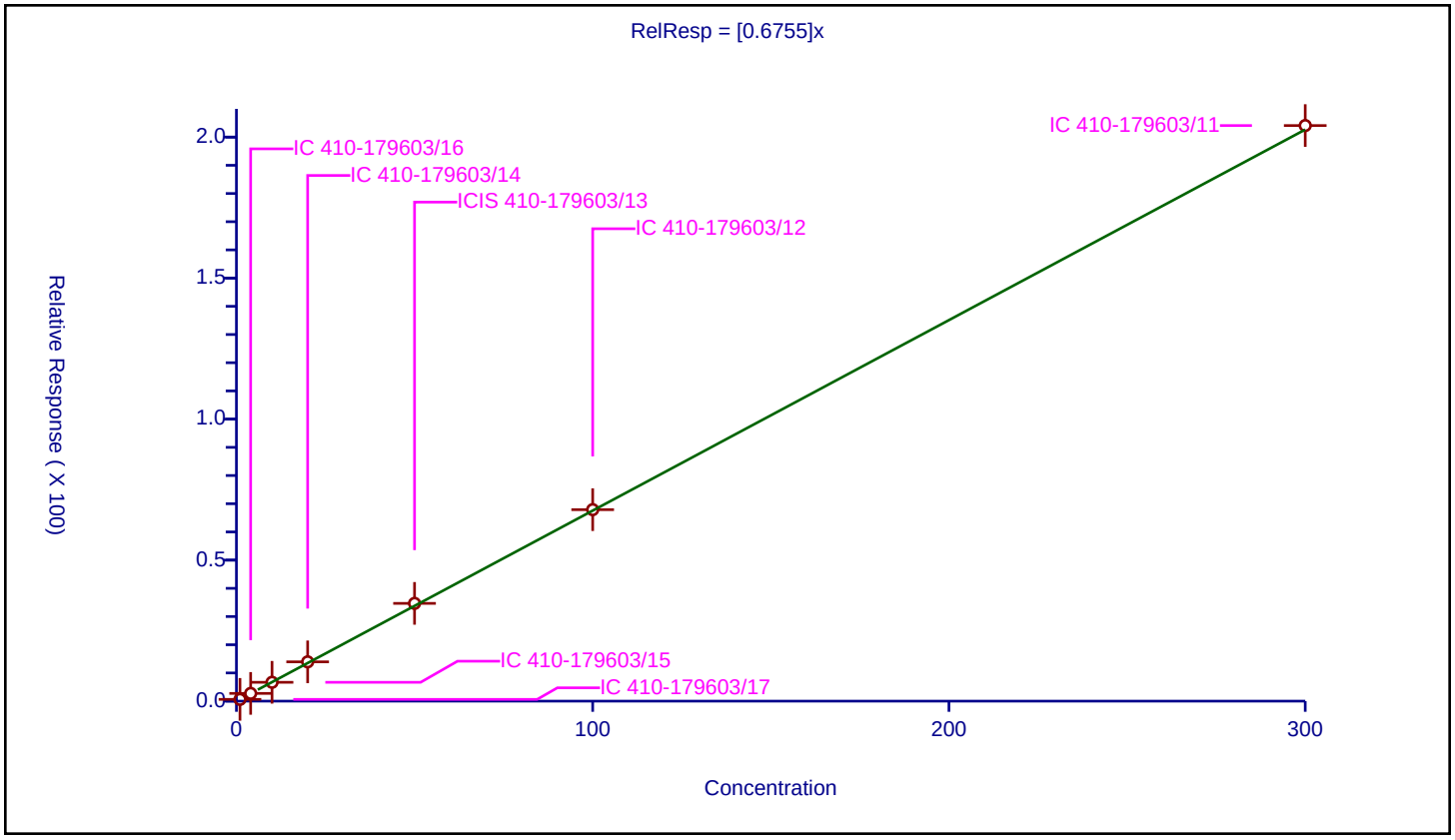
Curve Coefficients

Intercept:	0
Slope:	0.6755

Error Coefficients

Standard Error:	2400000
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 410-179603/17	1.0	0.626116	50.0	1274764.0	0.626116	Y
2	IC 410-179603/16	4.0	2.741738	50.0	1308203.0	0.685435	Y
3	IC 410-179603/15	10.0	6.677004	50.0	1289171.0	0.6677	Y
4	IC 410-179603/14	20.0	13.936324	50.0	1267533.0	0.696816	Y
5	ICIS 410-179603/13	50.0	34.667555	50.0	1293838.0	0.693351	Y
6	IC 410-179603/12	100.0	67.895472	50.0	1302525.0	0.678955	Y
7	IC 410-179603/11	300.0	204.091575	50.0	1349847.0	0.680305	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

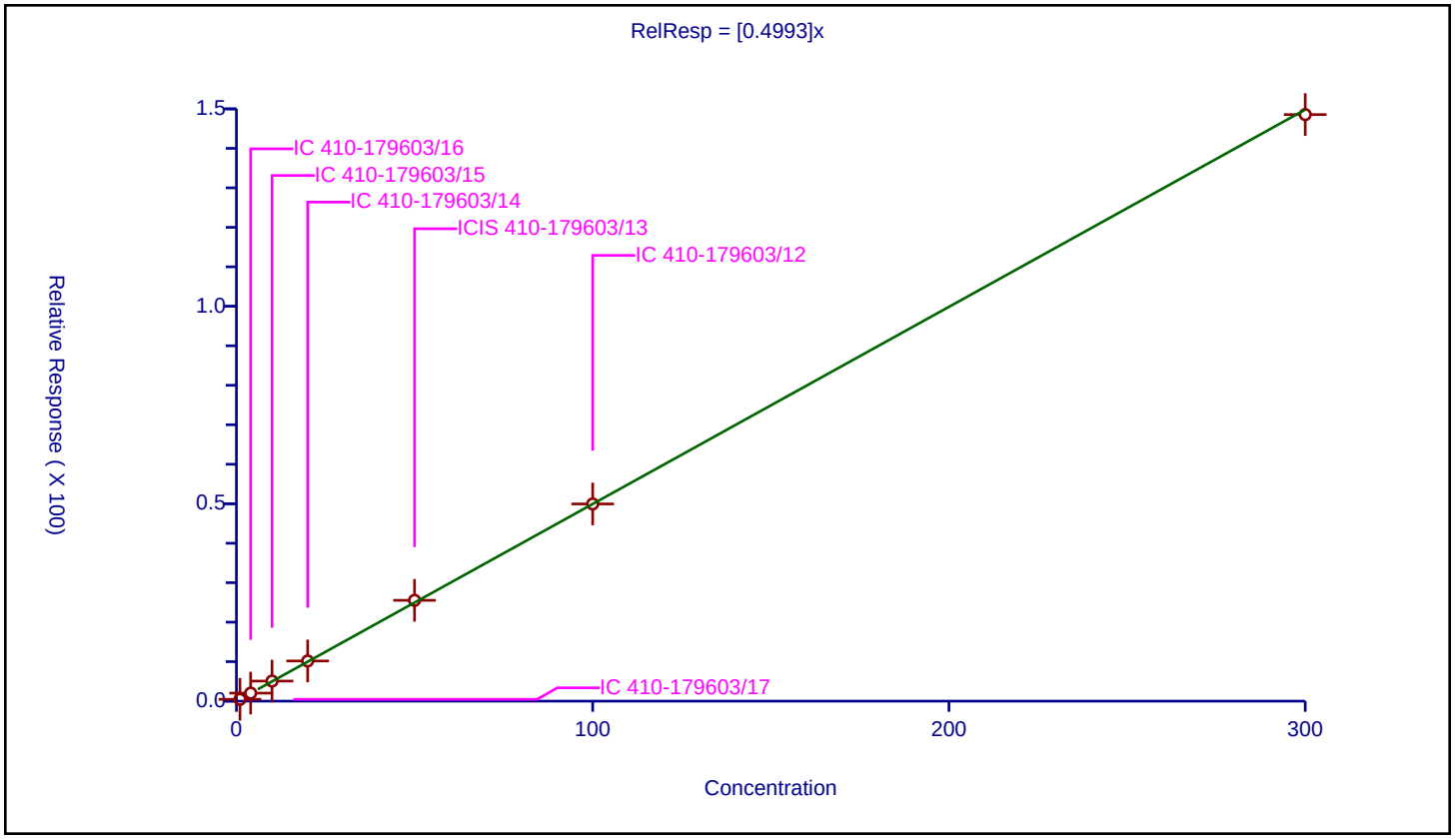
Curve Coefficients

Intercept:	0
Slope:	0.4993

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.463537	50.0	1274764.0	0.463537	Y
2	IC 410-179603/16	4.0	2.036802	50.0	1308203.0	0.5092	Y
3	IC 410-179603/15	10.0	5.083422	50.0	1289171.0	0.508342	Y
4	IC 410-179603/14	20.0	10.176974	50.0	1267533.0	0.508849	Y
5	ICIS 410-179603/13	50.0	25.534302	50.0	1293838.0	0.510686	Y
6	IC 410-179603/12	100.0	49.943917	50.0	1302525.0	0.499439	Y
7	IC 410-179603/11	300.0	148.559615	50.0	1349847.0	0.495199	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

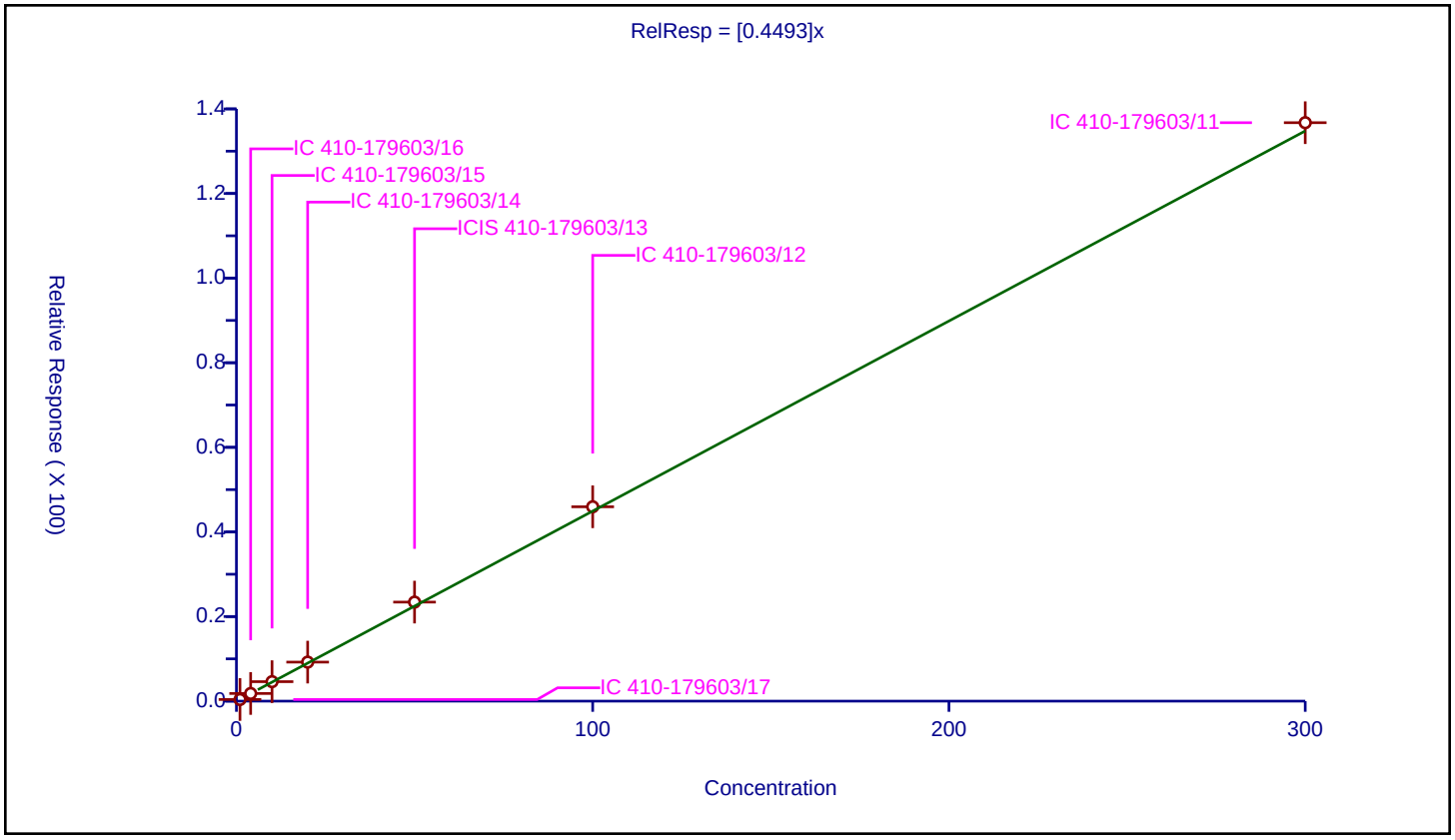
Curve Coefficients

Intercept:	0
Slope:	0.4493

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.386777	50.0	1274764.0	0.386777	Y
2	IC 410-179603/16	4.0	1.811684	50.0	1308203.0	0.452921	Y
3	IC 410-179603/15	10.0	4.603928	50.0	1289171.0	0.460393	Y
4	IC 410-179603/14	20.0	9.227294	50.0	1267533.0	0.461365	Y
5	ICIS 410-179603/13	50.0	23.413364	50.0	1293838.0	0.468267	Y
6	IC 410-179603/12	100.0	45.94265	50.0	1302525.0	0.459426	Y
7	IC 410-179603/11	300.0	136.739053	50.0	1349847.0	0.455797	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

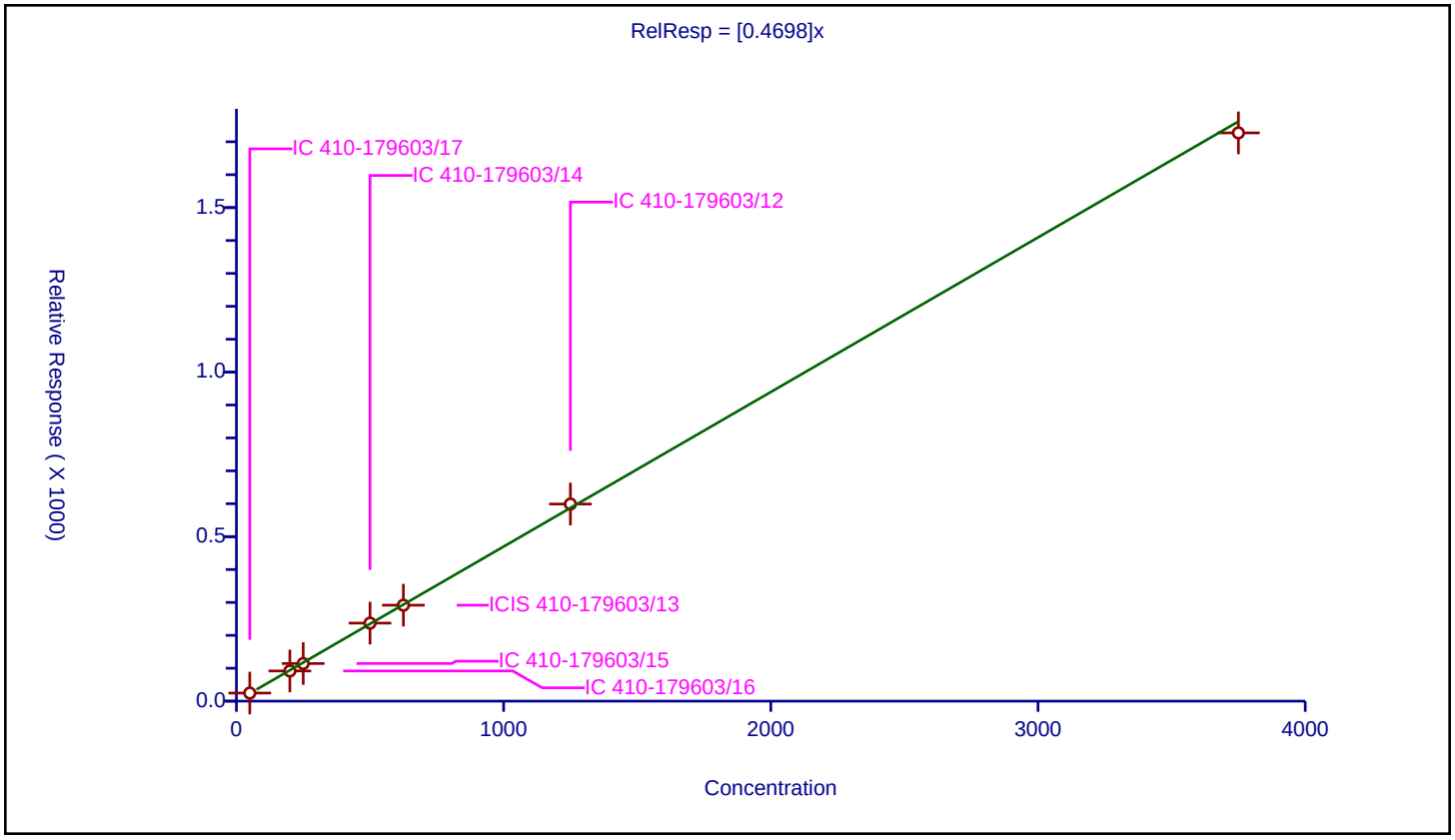
Curve Coefficients

Intercept:	0
Slope:	0.4698

Error Coefficients

Standard Error:	684000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	50.0	24.571514	250.0	193822.0	0.49143	Y
2	IC 410-179603/16	200.0	91.786071	250.0	198486.0	0.45893	Y
3	IC 410-179603/15	250.0	114.35419	250.0	203930.0	0.457417	Y
4	IC 410-179603/14	500.0	237.103451	250.0	207982.0	0.474207	Y
5	ICIS 410-179603/13	625.0	291.598149	250.0	212840.0	0.466557	Y
6	IC 410-179603/12	1250.0	599.070539	250.0	212919.0	0.479256	Y
7	IC 410-179603/11	3750.0	1727.084744	250.0	225963.0	0.460556	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

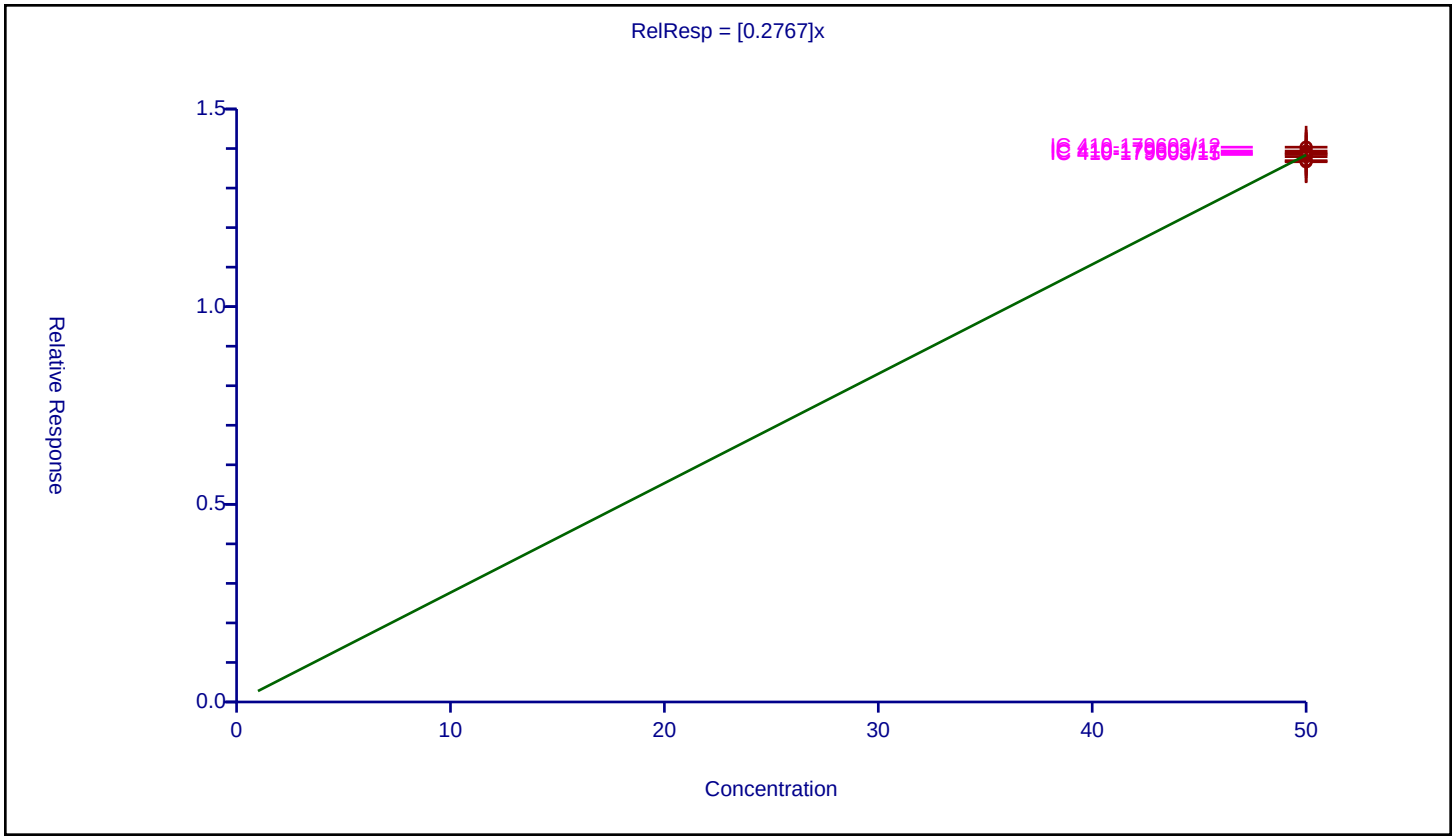
Curve Coefficients

Intercept:	0
Slope:	0.2767

Error Coefficients

Standard Error:	388000
Relative Standard Error:	0.9
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/11	50.0	13.882277	50.0	1349847.0	0.277646	Y
2	IC 410-179603/12	50.0	14.034817	50.0	1302525.0	0.280696	Y
3	ICIS 410-179603/13	50.0	13.665389	50.0	1293838.0	0.273308	Y
4	IC 410-179603/14	50.0	13.693056	50.0	1267533.0	0.273861	Y
5	IC 410-179603/15	50.0	13.848977	50.0	1289171.0	0.27698	Y
6	IC 410-179603/16	50.0	13.79461	50.0	1308203.0	0.275892	Y
7	IC 410-179603/17	50.0	13.935913	50.0	1274764.0	0.278718	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

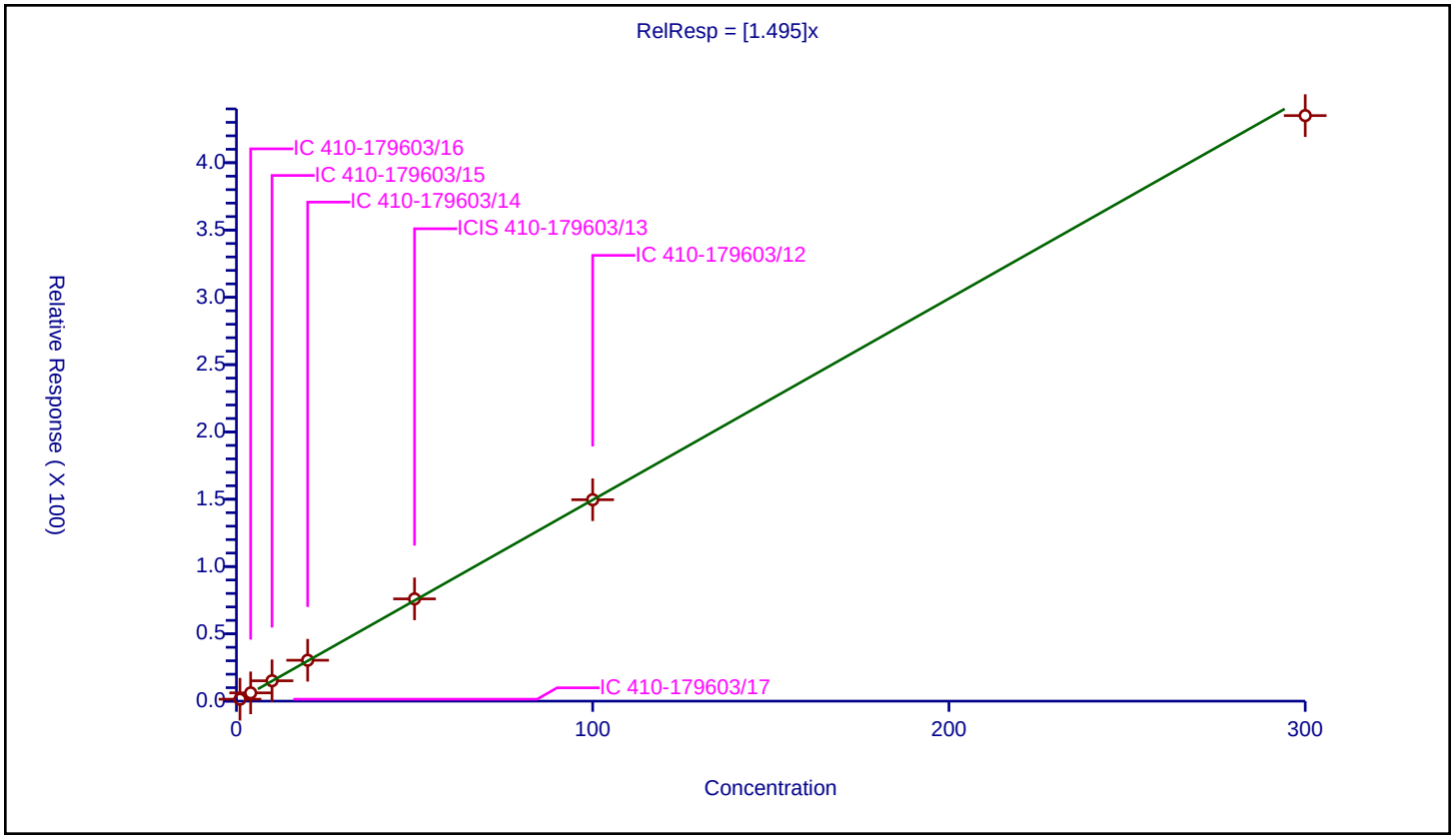
Curve Coefficients

Intercept:	0
Slope:	1.495

Error Coefficients

Standard Error:	5130000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.431167	50.0	1274764.0	1.431167	Y
2	IC 410-179603/16	4.0	6.150422	50.0	1308203.0	1.537605	Y
3	IC 410-179603/15	10.0	15.133252	50.0	1289171.0	1.513325	Y
4	IC 410-179603/14	20.0	30.386428	50.0	1267533.0	1.519321	Y
5	ICIS 410-179603/13	50.0	75.976011	50.0	1293838.0	1.51952	Y
6	IC 410-179603/12	100.0	149.63279	50.0	1302525.0	1.496328	Y
7	IC 410-179603/11	300.0	435.006819	50.0	1349847.0	1.450023	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

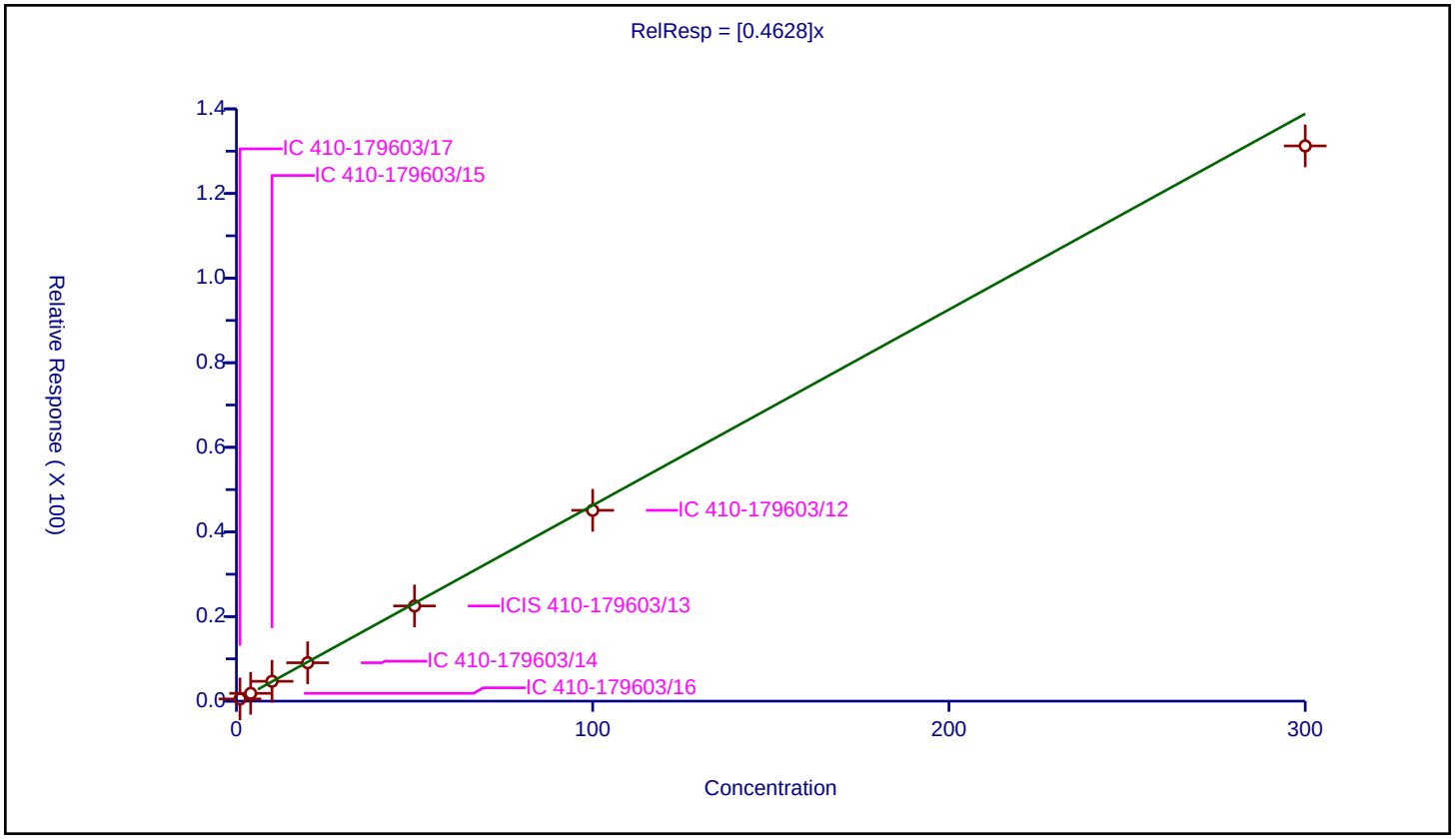
Curve Coefficients

Intercept:	0
Slope:	0.4628

Error Coefficients

Standard Error:	1550000
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 410-179603/17	1.0	0.517704	50.0	1274764.0	0.517704	Y
2	IC 410-179603/16	4.0	1.841801	50.0	1308203.0	0.46045	Y
3	IC 410-179603/15	10.0	4.692279	50.0	1289171.0	0.469228	Y
4	IC 410-179603/14	20.0	9.074675	50.0	1267533.0	0.453734	Y
5	ICIS 410-179603/13	50.0	22.496518	50.0	1293838.0	0.44993	Y
6	IC 410-179603/12	100.0	45.106351	50.0	1302525.0	0.451064	Y
7	IC 410-179603/11	300.0	131.25106	50.0	1349847.0	0.437504	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

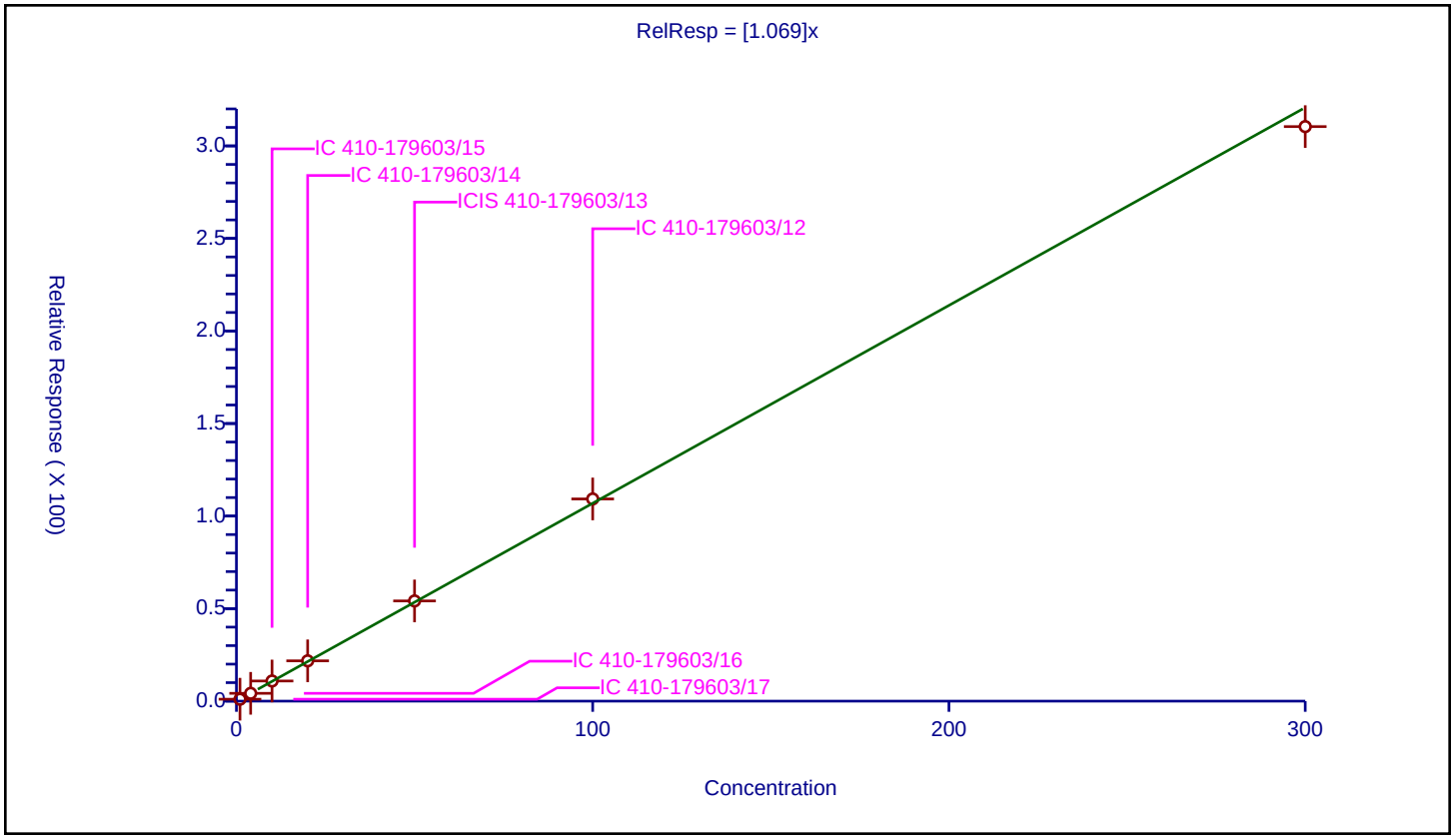
Curve Coefficients

Intercept:	0
Slope:	1.069

Error Coefficients

Standard Error:	3670000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.041134	50.0	1274764.0	1.041134	Y
2	IC 410-179603/16	4.0	4.217159	50.0	1308203.0	1.05429	Y
3	IC 410-179603/15	10.0	10.891418	50.0	1289171.0	1.089142	Y
4	IC 410-179603/14	20.0	21.775015	50.0	1267533.0	1.088751	Y
5	ICIS 410-179603/13	50.0	54.149322	50.0	1293838.0	1.082986	Y
6	IC 410-179603/12	100.0	109.251108	50.0	1302525.0	1.092511	Y
7	IC 410-179603/11	300.0	310.43296	50.0	1349847.0	1.034777	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

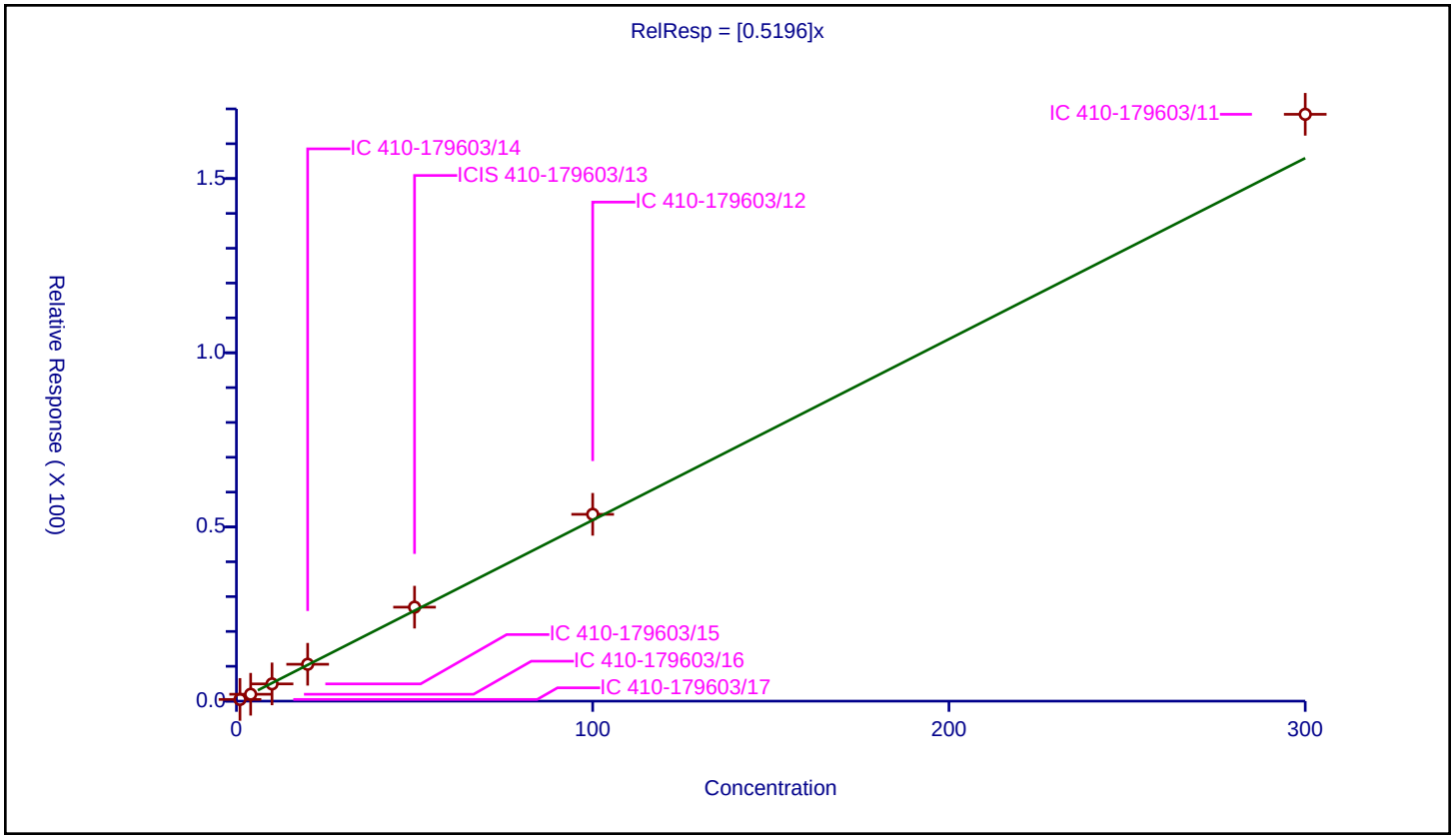
Curve Coefficients

Intercept:	0
Slope:	0.5196

Error Coefficients

Standard Error:	1970000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.482011	50.0	1274764.0	0.482011	Y
2	IC 410-179603/16	4.0	1.973241	50.0	1308203.0	0.49331	Y
3	IC 410-179603/15	10.0	4.949692	50.0	1289171.0	0.494969	Y
4	IC 410-179603/14	20.0	10.587693	50.0	1267533.0	0.529385	Y
5	ICIS 410-179603/13	50.0	26.973895	50.0	1293838.0	0.539478	Y
6	IC 410-179603/12	100.0	53.626917	50.0	1302525.0	0.536269	Y
7	IC 410-179603/11	300.0	168.446054	50.0	1349847.0	0.561487	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

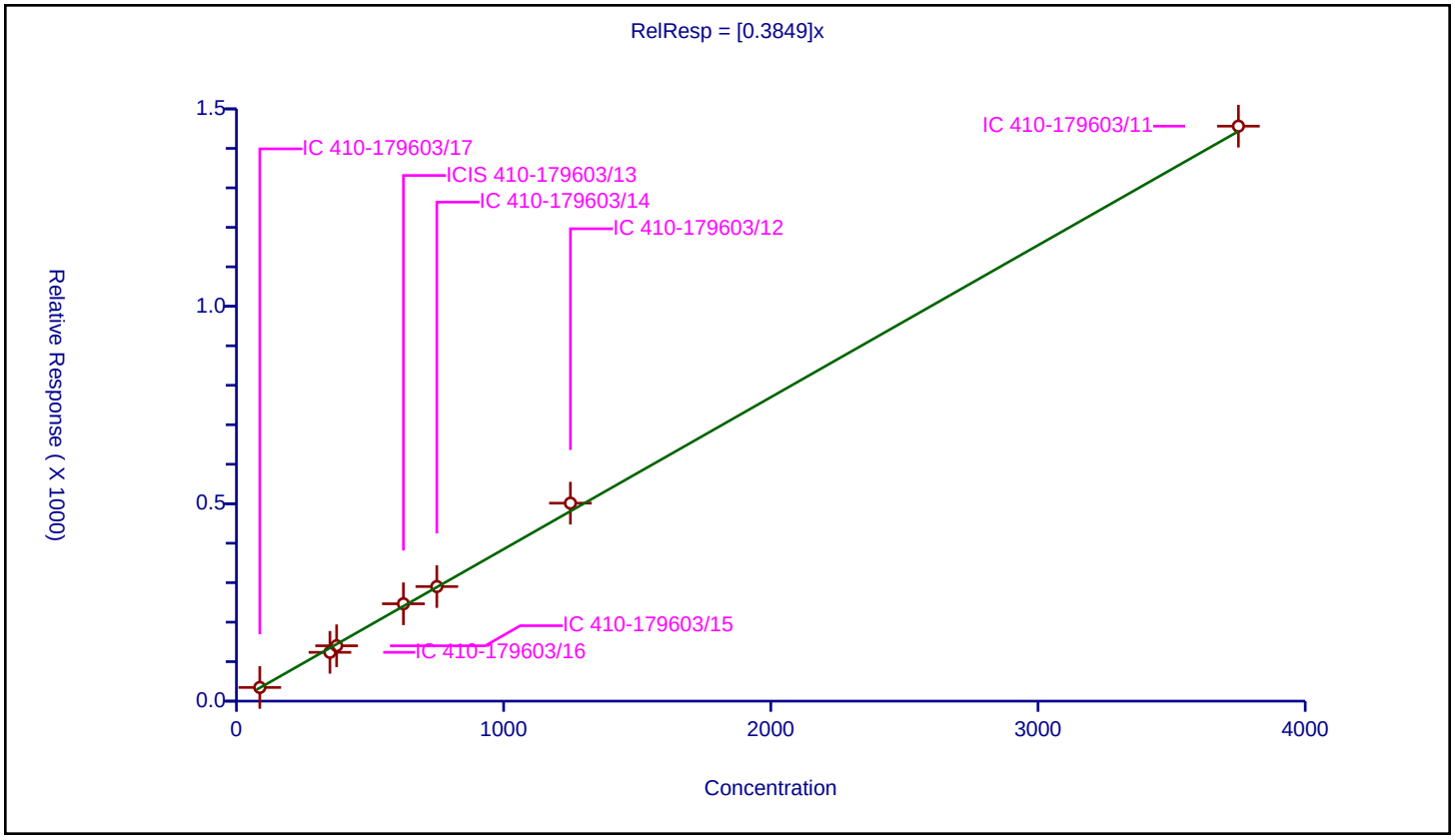
Curve Coefficients

Intercept:	0
Slope:	0.3849

Error Coefficients

Standard Error:	583000
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 410-179603/17	87.5	34.651639	250.0	193822.0	0.396019	Y
2	IC 410-179603/16	350.0	123.586802	250.0	198486.0	0.353105	Y
3	IC 410-179603/15	375.0	140.218457	250.0	203930.0	0.373916	Y
4	ICIS 410-179603/13	625.0	246.585463	250.0	212840.0	0.394537	Y
5	IC 410-179603/14	750.0	290.21021	250.0	207982.0	0.386947	Y
6	IC 410-179603/12	1250.0	501.468868	250.0	212919.0	0.401175	Y
7	IC 410-179603/11	3750.0	1456.287091	250.0	225963.0	0.388343	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

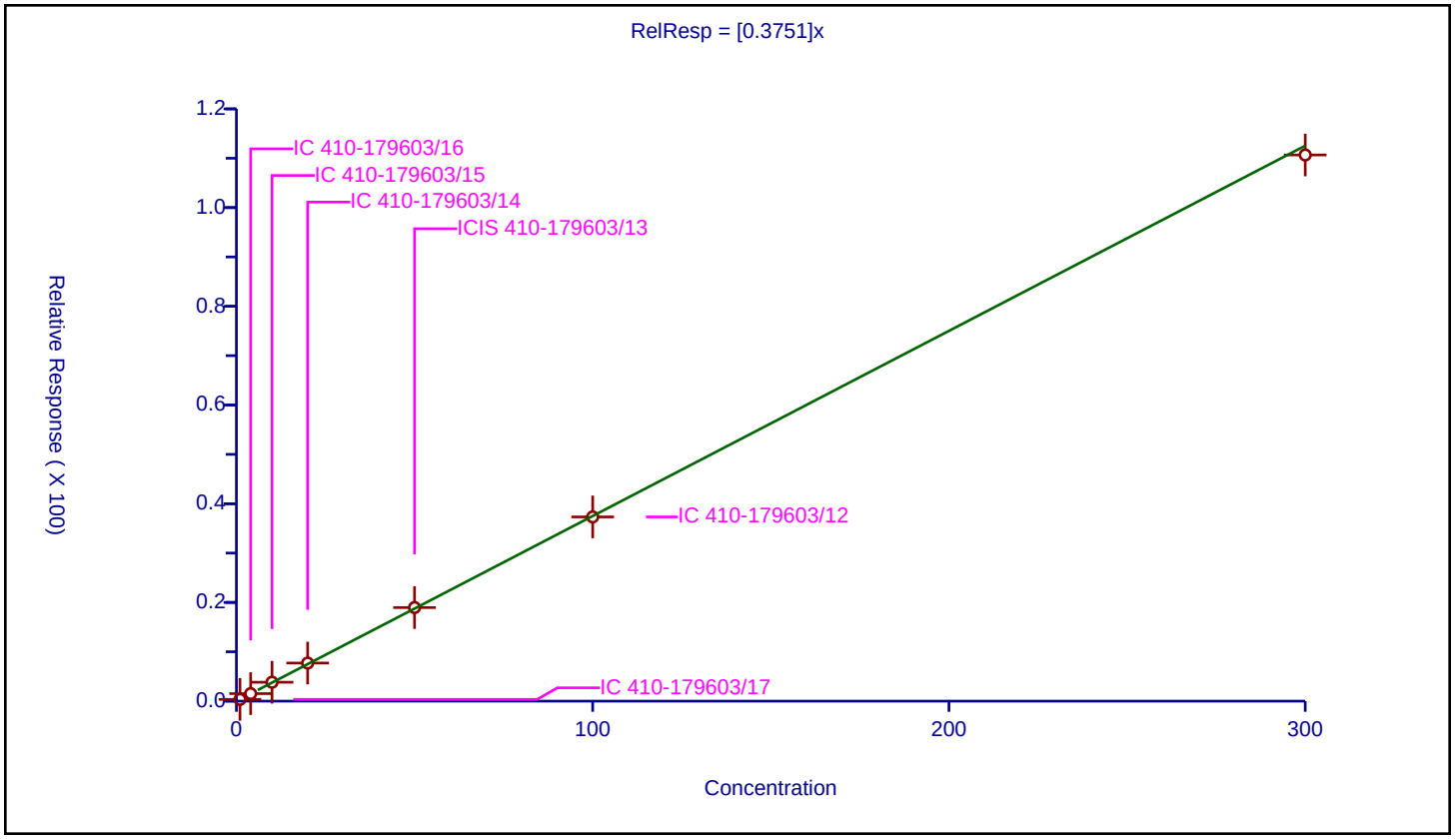
Curve Coefficients

Intercept:	0
Slope:	0.3751

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.35485	50.0	1274764.0	0.35485	Y
2	IC 410-179603/16	4.0	1.523808	50.0	1308203.0	0.380952	Y
3	IC 410-179603/15	10.0	3.826568	50.0	1289171.0	0.382657	Y
4	IC 410-179603/14	20.0	7.719799	50.0	1267533.0	0.38599	Y
5	ICIS 410-179603/13	50.0	18.961184	50.0	1293838.0	0.379224	Y
6	IC 410-179603/12	100.0	37.323276	50.0	1302525.0	0.373233	Y
7	IC 410-179603/11	300.0	110.662616	50.0	1349847.0	0.368875	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

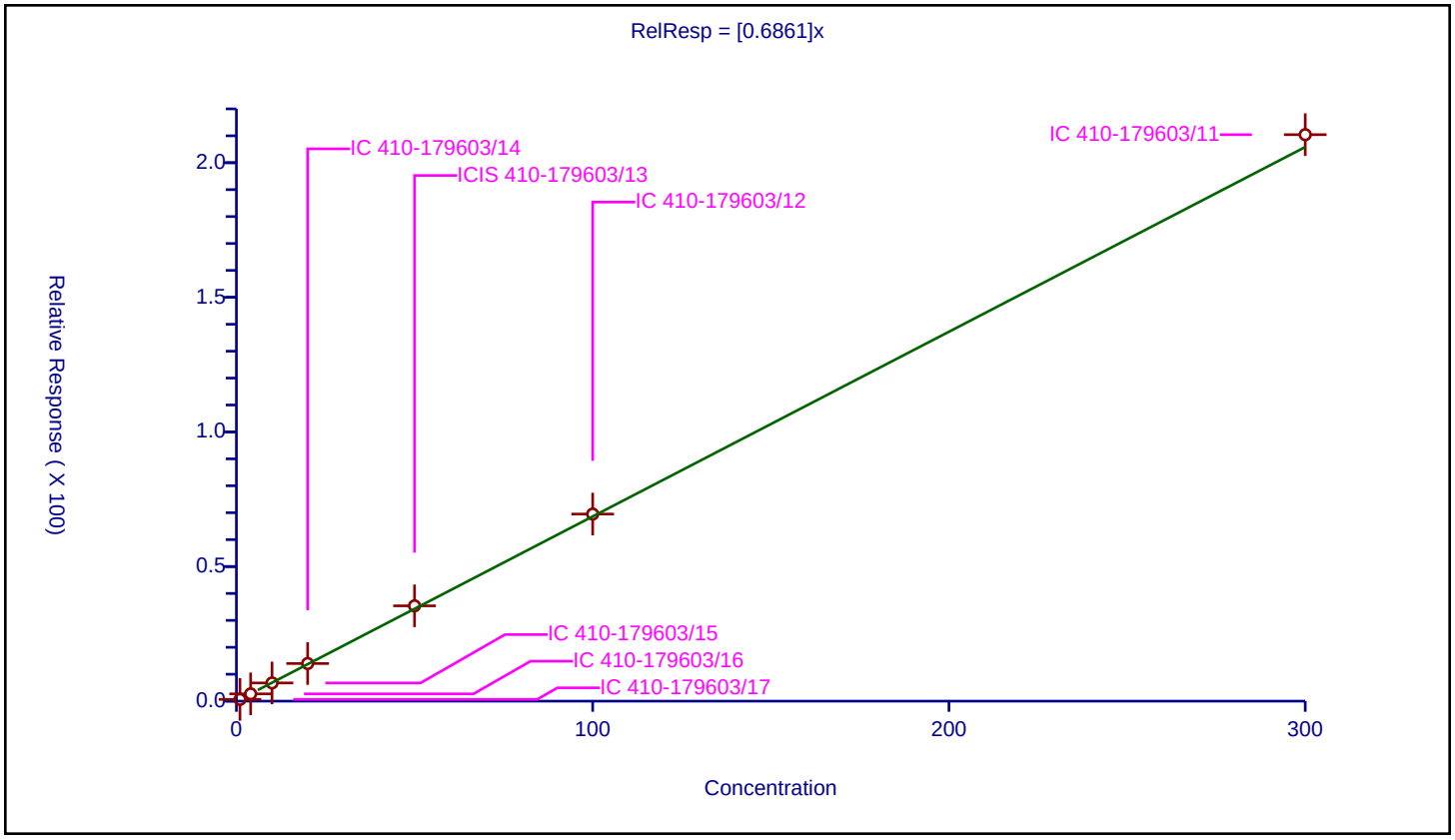
Curve Coefficients

Intercept:	0
Slope:	0.6861

Error Coefficients

Standard Error:	2470000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.646551	50.0	1274764.0	0.646551	Y
2	IC 410-179603/16	4.0	2.705735	50.0	1308203.0	0.676434	Y
3	IC 410-179603/15	10.0	6.762175	50.0	1289171.0	0.676218	Y
4	IC 410-179603/14	20.0	13.977545	50.0	1267533.0	0.698877	Y
5	ICIS 410-179603/13	50.0	35.407833	50.0	1293838.0	0.708157	Y
6	IC 410-179603/12	100.0	69.495019	50.0	1302525.0	0.69495	Y
7	IC 410-179603/11	300.0	210.424848	50.0	1349847.0	0.701416	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

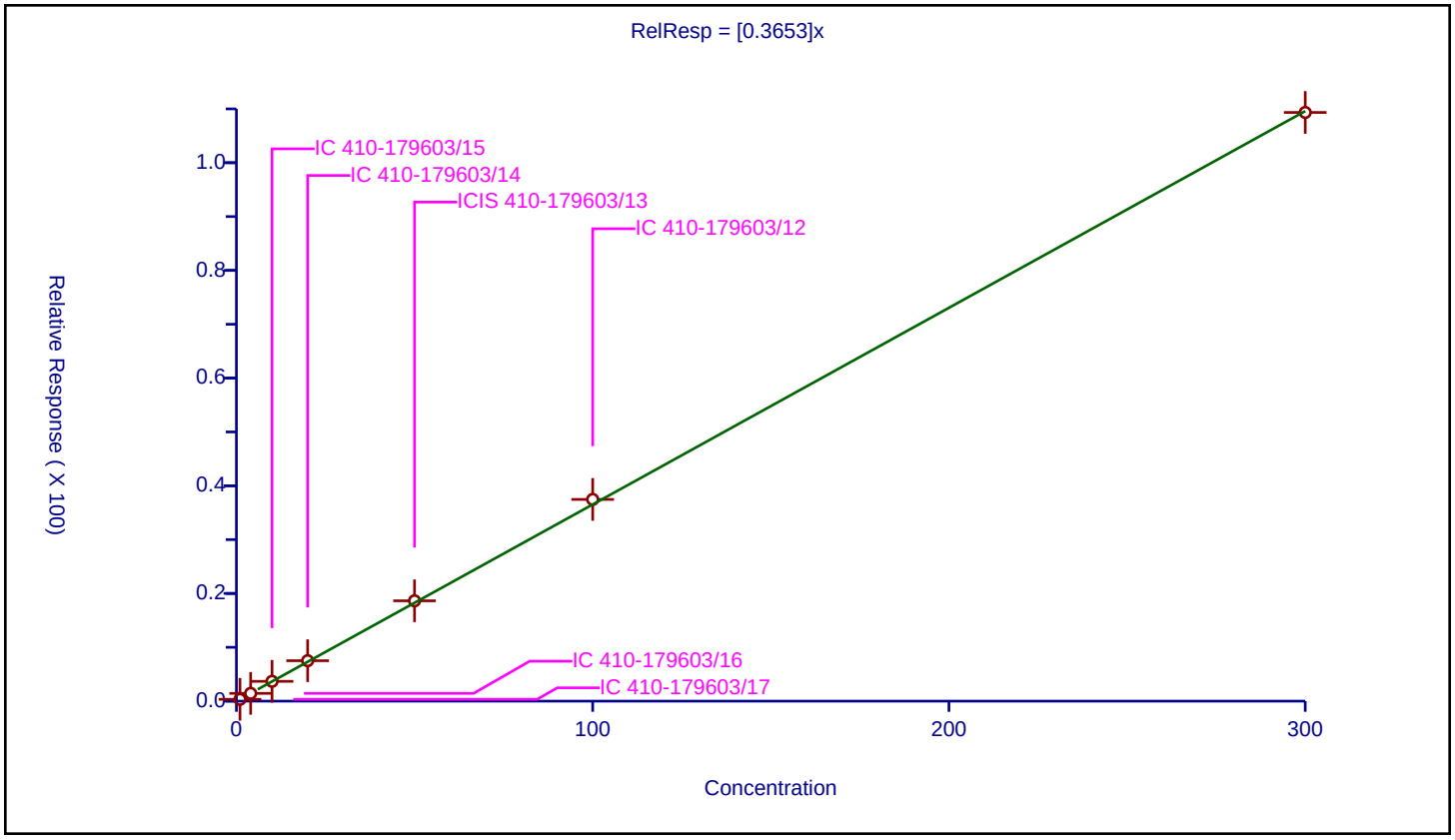
Curve Coefficients

Intercept:	0
Slope:	0.3653

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.340926	50.0	1274764.0	0.340926	Y
2	IC 410-179603/16	4.0	1.443048	50.0	1308203.0	0.360762	Y
3	IC 410-179603/15	10.0	3.678566	50.0	1289171.0	0.367857	Y
4	IC 410-179603/14	20.0	7.511678	50.0	1267533.0	0.375584	Y
5	ICIS 410-179603/13	50.0	18.635022	50.0	1293838.0	0.3727	Y
6	IC 410-179603/12	100.0	37.463887	50.0	1302525.0	0.374639	Y
7	IC 410-179603/11	300.0	109.339281	50.0	1349847.0	0.364464	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

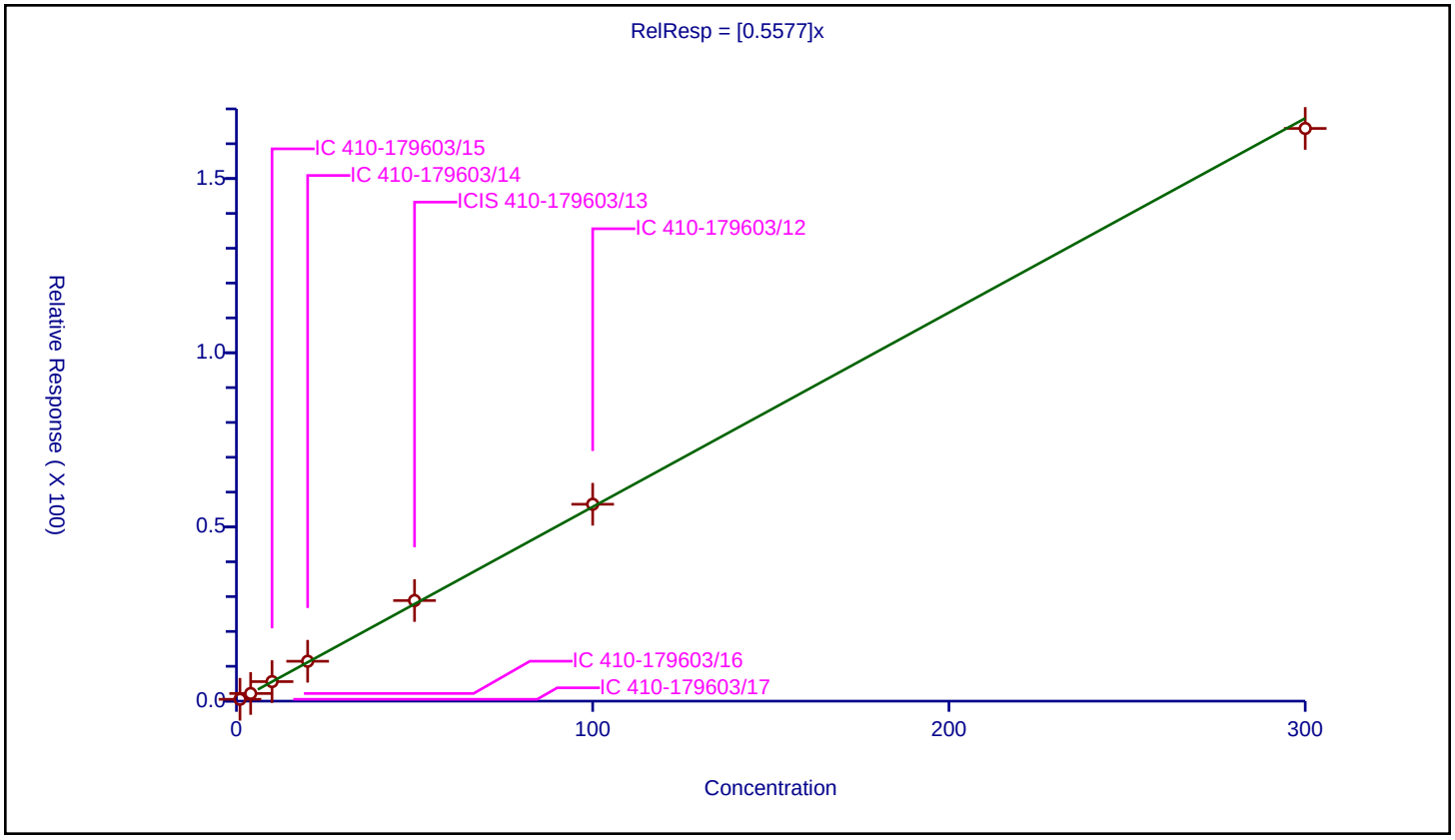
Curve Coefficients

Intercept:	0
Slope:	0.5577

Error Coefficients

Standard Error:	1940000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.531	50.0	1274764.0	0.531	Y
2	IC 410-179603/16	4.0	2.194728	50.0	1308203.0	0.548682	Y
3	IC 410-179603/15	10.0	5.608953	50.0	1289171.0	0.560895	Y
4	IC 410-179603/14	20.0	11.448657	50.0	1267533.0	0.572433	Y
5	ICIS 410-179603/13	50.0	28.876026	50.0	1293838.0	0.577521	Y
6	IC 410-179603/12	100.0	56.518531	50.0	1302525.0	0.565185	Y
7	IC 410-179603/11	300.0	164.387334	50.0	1349847.0	0.547958	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

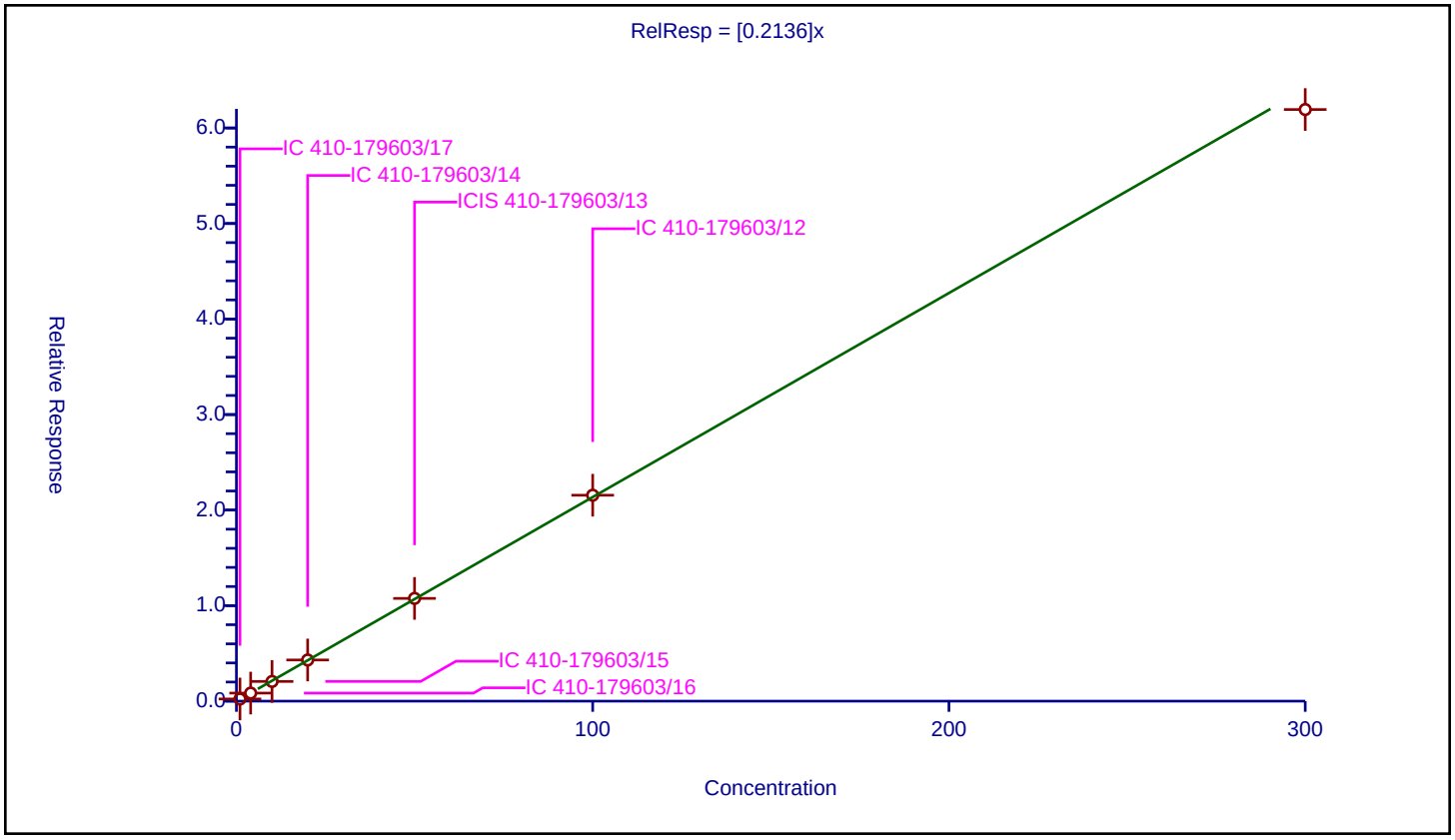
Curve Coefficients

Intercept:	0
Slope:	0.2136

Error Coefficients

Standard Error:	731000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.22612	50.0	1274764.0	0.22612	Y
2	IC 410-179603/16	4.0	0.842109	50.0	1308203.0	0.210527	Y
3	IC 410-179603/15	10.0	2.061247	50.0	1289171.0	0.206125	Y
4	IC 410-179603/14	20.0	4.308172	50.0	1267533.0	0.215409	Y
5	ICIS 410-179603/13	50.0	10.75521	50.0	1293838.0	0.215104	Y
6	IC 410-179603/12	100.0	21.557245	50.0	1302525.0	0.215572	Y
7	IC 410-179603/11	300.0	61.931834	50.0	1349847.0	0.206439	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

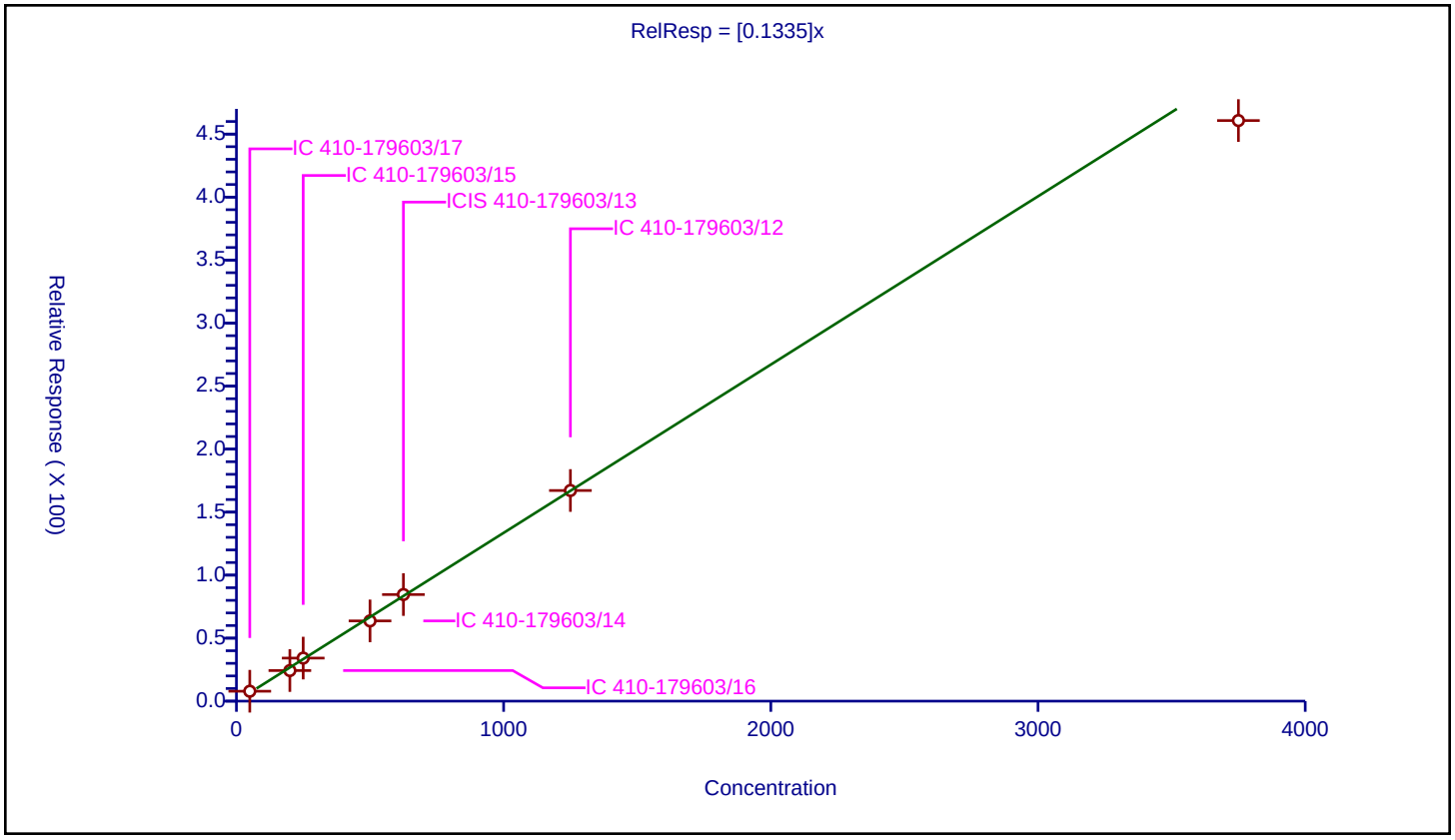
Curve Coefficients

Intercept:	0
Slope:	0.1335

Error Coefficients

Standard Error:	184000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	50.0	7.871913	250.0	193822.0	0.157438	Y
2	IC 410-179603/16	200.0	24.267455	250.0	198486.0	0.121337	Y
3	IC 410-179603/15	250.0	34.169813	250.0	203930.0	0.136679	Y
4	IC 410-179603/14	500.0	63.678588	250.0	207982.0	0.127357	Y
5	ICIS 410-179603/13	625.0	84.605807	250.0	212840.0	0.135369	Y
6	IC 410-179603/12	1250.0	167.16216	250.0	212919.0	0.13373	Y
7	IC 410-179603/11	3750.0	460.740254	250.0	225963.0	0.122864	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

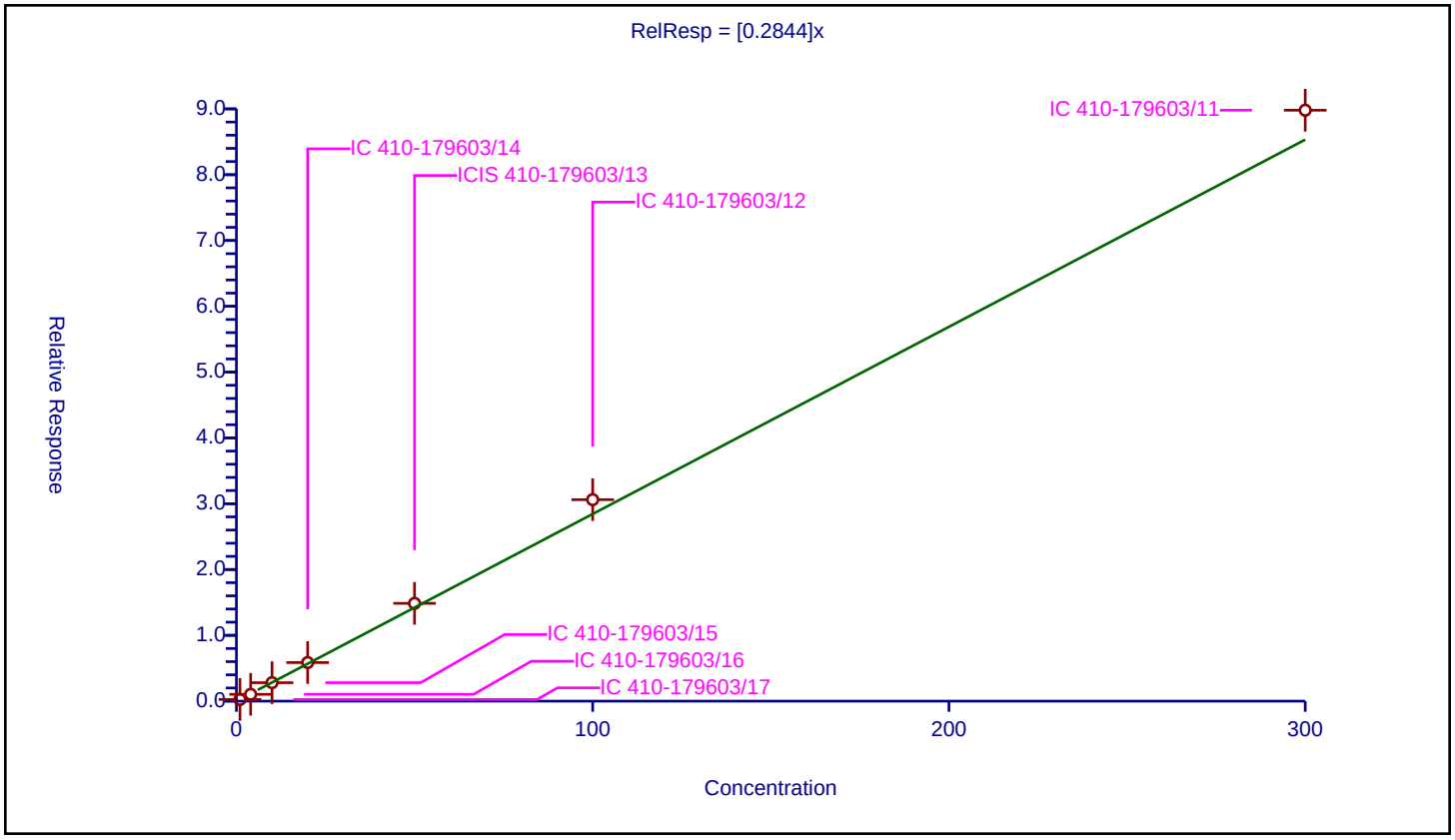
Curve Coefficients

Intercept:	0
Slope:	0.2844

Error Coefficients

Standard Error:	1060000
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 410-179603/17	1.0	0.256283	50.0	1274764.0	0.256283	Y
2	IC 410-179603/16	4.0	1.034434	50.0	1308203.0	0.258609	Y
3	IC 410-179603/15	10.0	2.802848	50.0	1289171.0	0.280285	Y
4	IC 410-179603/14	20.0	5.861504	50.0	1267533.0	0.293075	Y
5	ICIS 410-179603/13	50.0	14.858429	50.0	1293838.0	0.297169	Y
6	IC 410-179603/12	100.0	30.61565	50.0	1302525.0	0.306157	Y
7	IC 410-179603/11	300.0	89.797214	50.0	1349847.0	0.299324	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

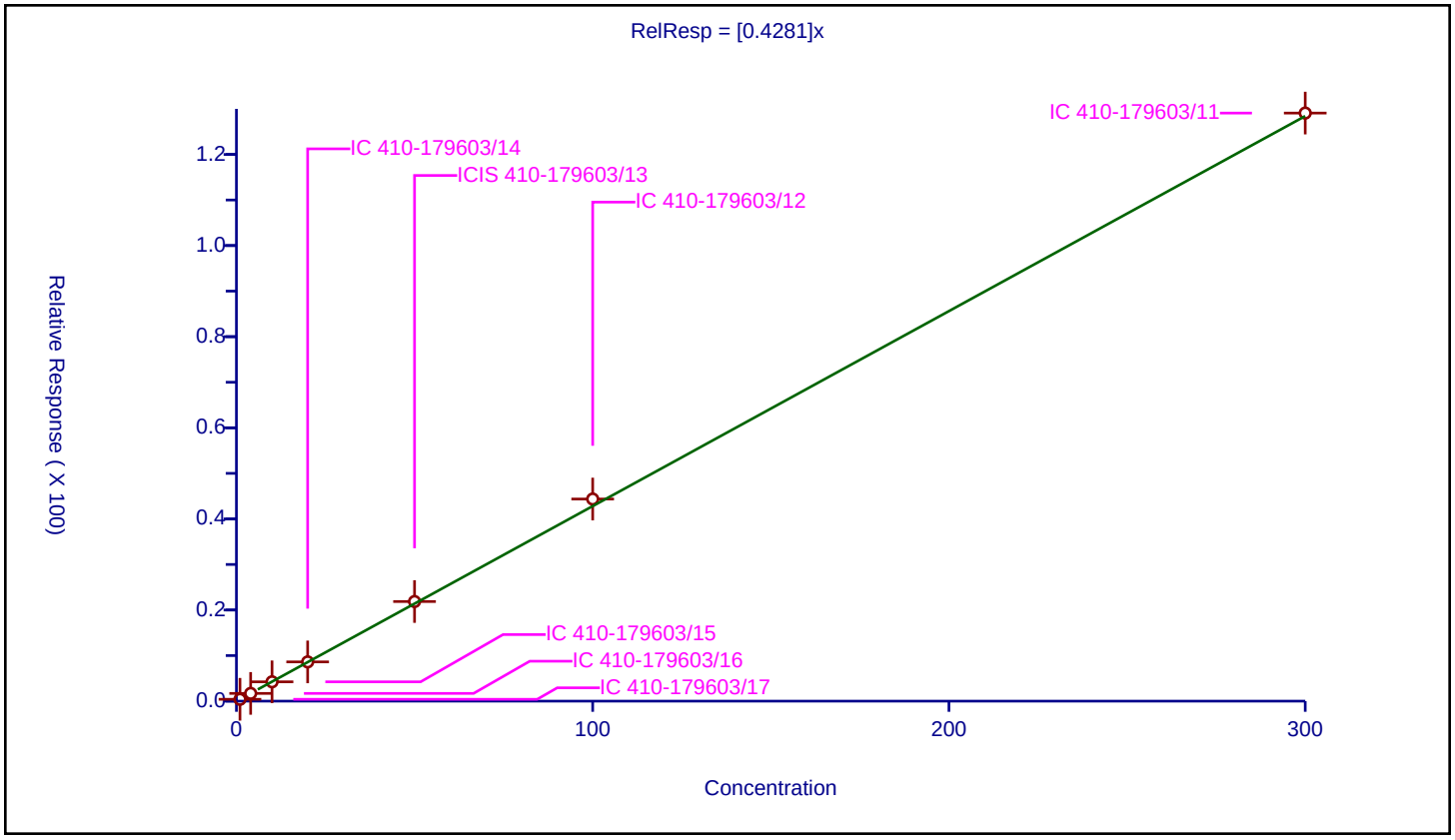
Curve Coefficients

Intercept:	0
Slope:	0.4281

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.405134	50.0	1274764.0	0.405134	Y
2	IC 410-179603/16	4.0	1.699889	50.0	1308203.0	0.424972	Y
3	IC 410-179603/15	10.0	4.244045	50.0	1289171.0	0.424405	Y
4	IC 410-179603/14	20.0	8.614608	50.0	1267533.0	0.43073	Y
5	ICIS 410-179603/13	50.0	21.865102	50.0	1293838.0	0.437302	Y
6	IC 410-179603/12	100.0	44.364216	50.0	1302525.0	0.443642	Y
7	IC 410-179603/11	300.0	129.084556	50.0	1349847.0	0.430282	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

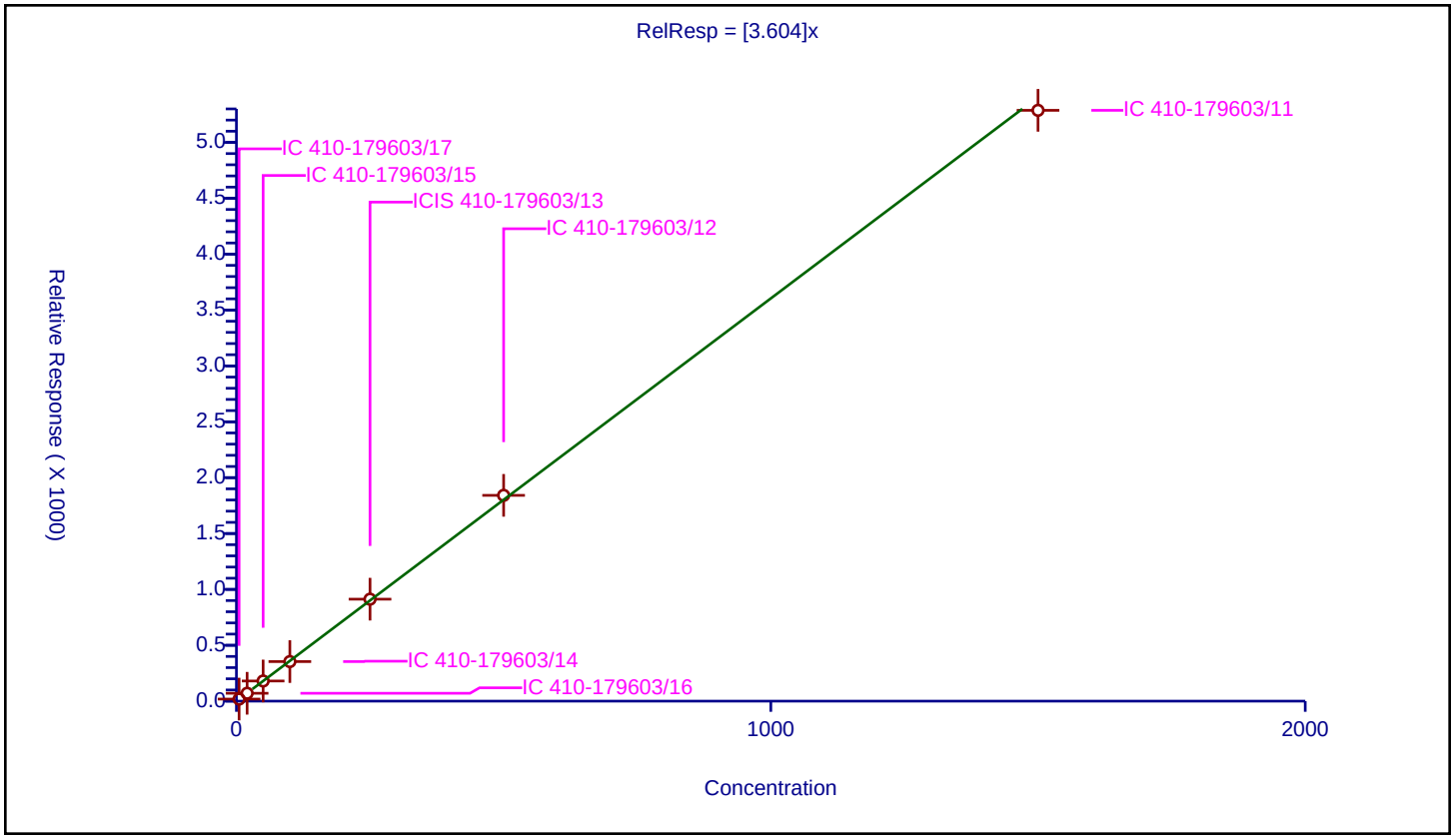
Curve Coefficients

Intercept:	0
Slope:	3.604

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	5.0	18.489903	250.0	193822.0	3.697981	Y
2	IC 410-179603/16	20.0	70.492377	250.0	198486.0	3.524619	Y
3	IC 410-179603/15	50.0	180.362134	250.0	203930.0	3.607243	Y
4	IC 410-179603/14	100.0	353.958516	250.0	207982.0	3.539585	Y
5	ICIS 410-179603/13	250.0	912.411906	250.0	212840.0	3.649648	Y
6	IC 410-179603/12	500.0	1841.678056	250.0	212919.0	3.683356	Y
7	IC 410-179603/11	1500.0	5287.069122	250.0	225963.0	3.524713	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

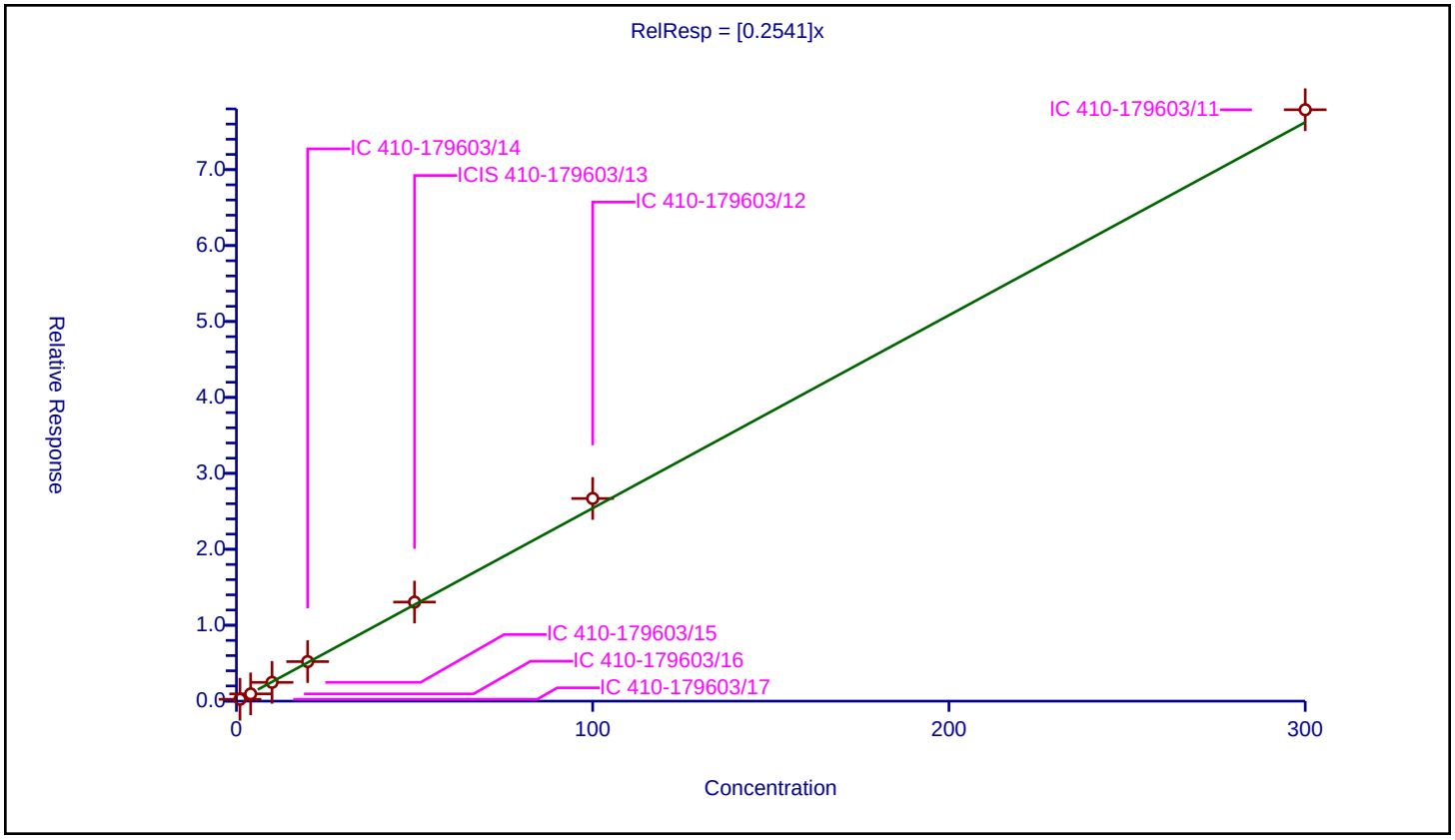
Curve Coefficients

Intercept:	0
Slope:	0.2541

Error Coefficients

Standard Error:	917000
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 410-179603/17	1.0	0.244751	50.0	1274764.0	0.244751	Y
2	IC 410-179603/16	4.0	0.955662	50.0	1308203.0	0.238916	Y
3	IC 410-179603/15	10.0	2.471317	50.0	1289171.0	0.247132	Y
4	IC 410-179603/14	20.0	5.208898	50.0	1267533.0	0.260445	Y
5	ICIS 410-179603/13	50.0	13.048581	50.0	1293838.0	0.260972	Y
6	IC 410-179603/12	100.0	26.68824	50.0	1302525.0	0.266882	Y
7	IC 410-179603/11	300.0	77.888716	50.0	1349847.0	0.259629	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

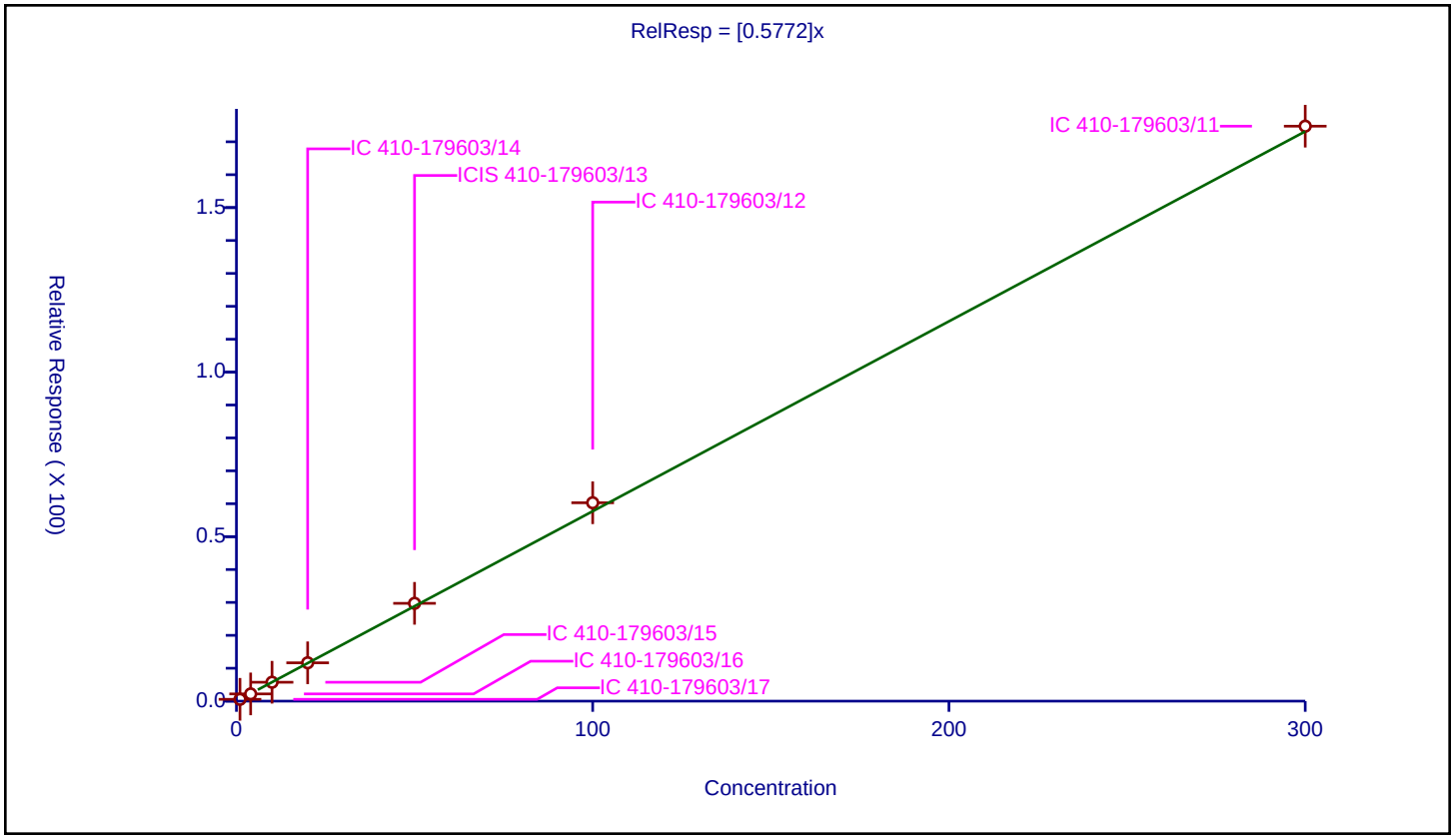
Curve Coefficients

Intercept:	0
Slope:	0.5772

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.554495	50.0	1274764.0	0.554495	Y
2	IC 410-179603/16	4.0	2.195378	50.0	1308203.0	0.548844	Y
3	IC 410-179603/15	10.0	5.740123	50.0	1289171.0	0.574012	Y
4	IC 410-179603/14	20.0	11.654884	50.0	1267533.0	0.582744	Y
5	ICIS 410-179603/13	50.0	29.724857	50.0	1293838.0	0.594497	Y
6	IC 410-179603/12	100.0	60.297729	50.0	1302525.0	0.602977	Y
7	IC 410-179603/11	300.0	174.749916	50.0	1349847.0	0.5825	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

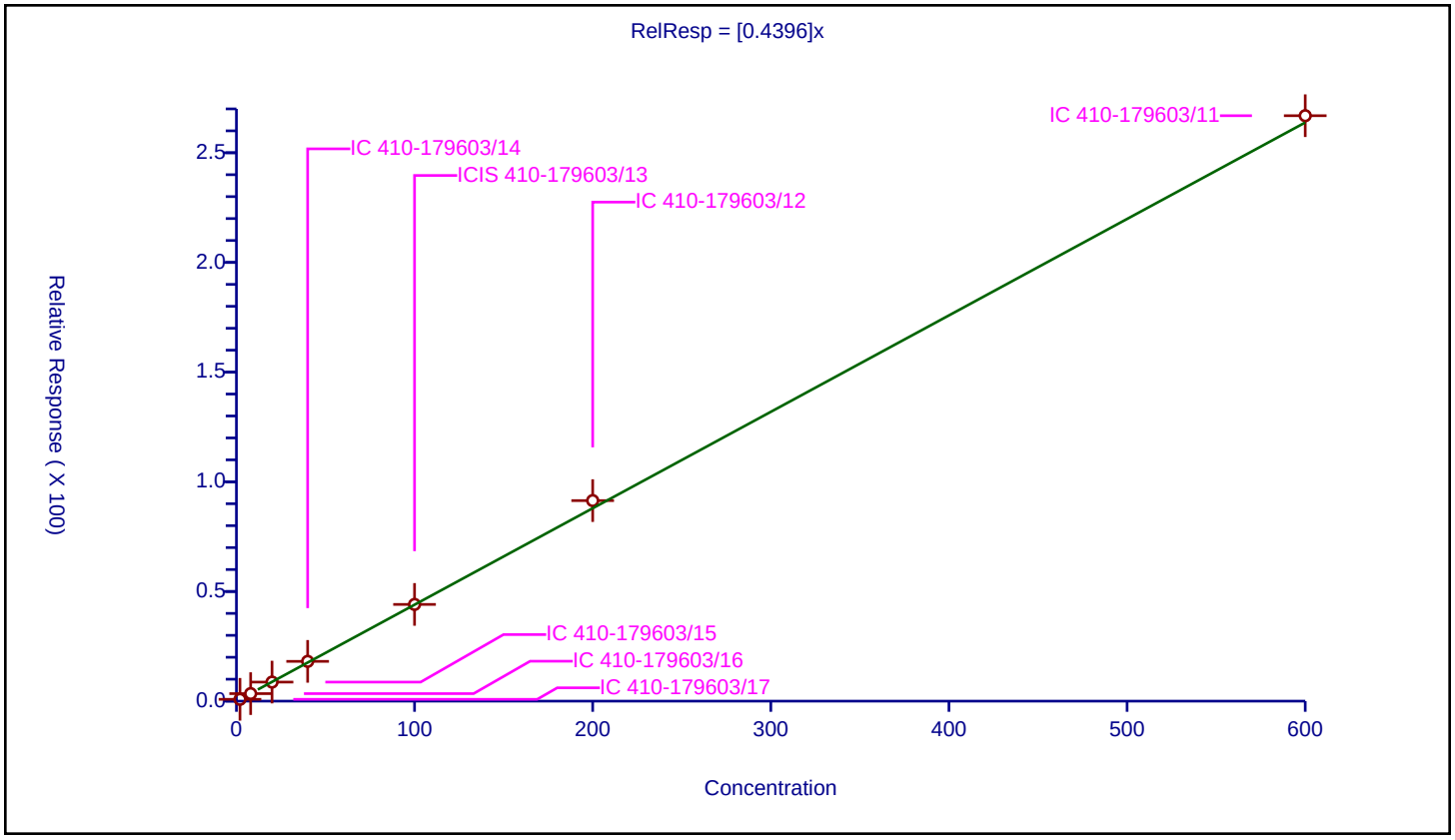
Curve Coefficients

Intercept:	0
Slope:	0.4396

Error Coefficients

Standard Error:	3140000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	2.0	0.835566	50.0	1274764.0	0.417783	Y
2	IC 410-179603/16	8.0	3.43238	50.0	1308203.0	0.429048	Y
3	IC 410-179603/15	20.0	8.689848	50.0	1289171.0	0.434492	Y
4	IC 410-179603/14	40.0	18.134084	50.0	1267533.0	0.453352	Y
5	ICIS 410-179603/13	100.0	44.09018	50.0	1293838.0	0.440902	Y
6	IC 410-179603/12	200.0	91.420126	50.0	1302525.0	0.457101	Y
7	IC 410-179603/11	600.0	266.891655	50.0	1349847.0	0.444819	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

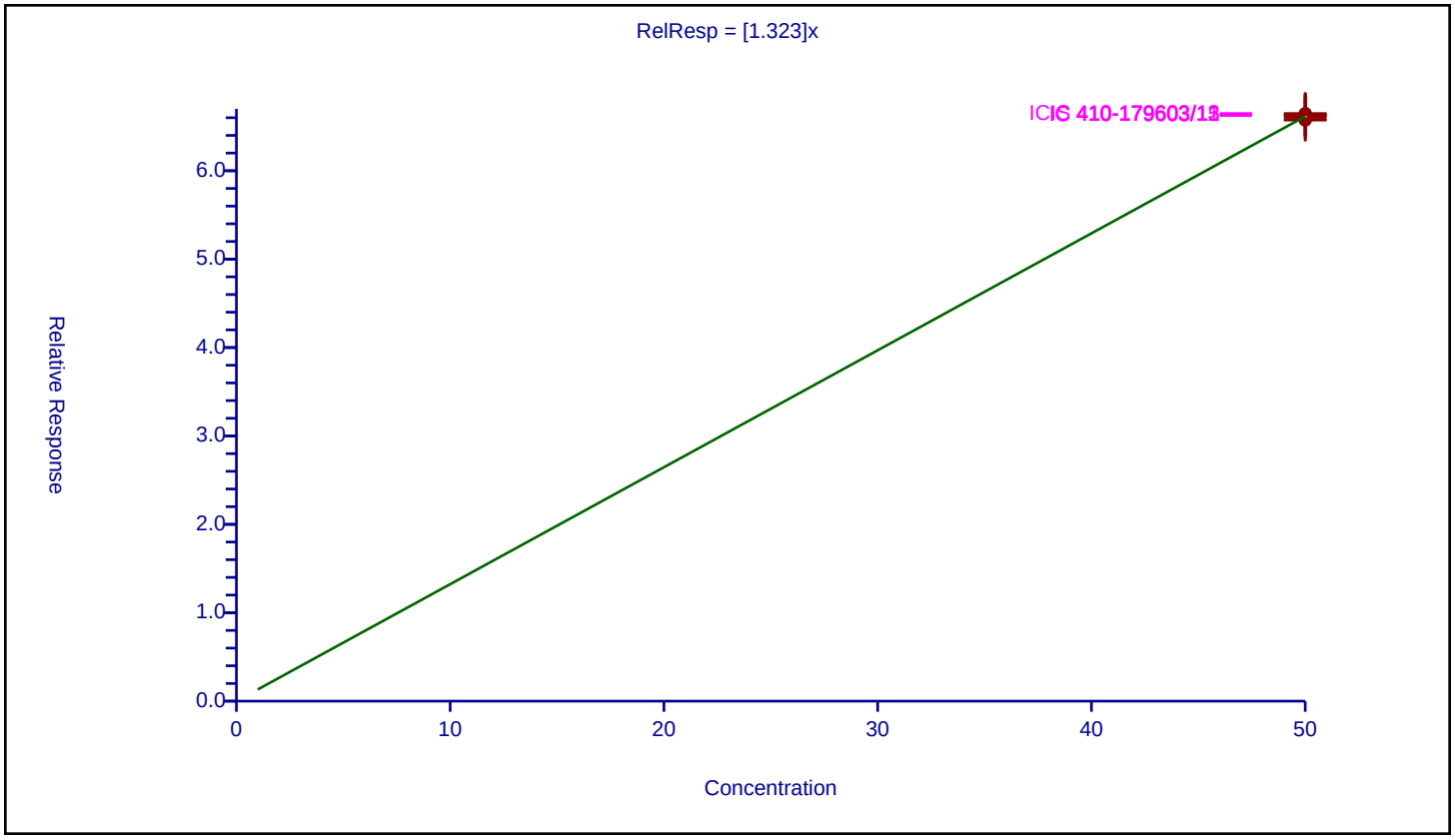
Curve Coefficients

Intercept:	0
Slope:	1.323

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	0.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/11	50.0	66.329708	50.0	1000716.0	1.326594	Y
2	IC 410-179603/12	50.0	66.265243	50.0	968138.0	1.325305	Y
3	ICIS 410-179603/13	50.0	66.47438	50.0	955432.0	1.329488	Y
4	IC 410-179603/14	50.0	66.109246	50.0	937533.0	1.322185	Y
5	IC 410-179603/15	50.0	66.316928	50.0	951996.0	1.326339	Y
6	IC 410-179603/16	50.0	65.732155	50.0	961429.0	1.314643	Y
7	IC 410-179603/17	50.0	65.82305	50.0	946638.0	1.316461	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

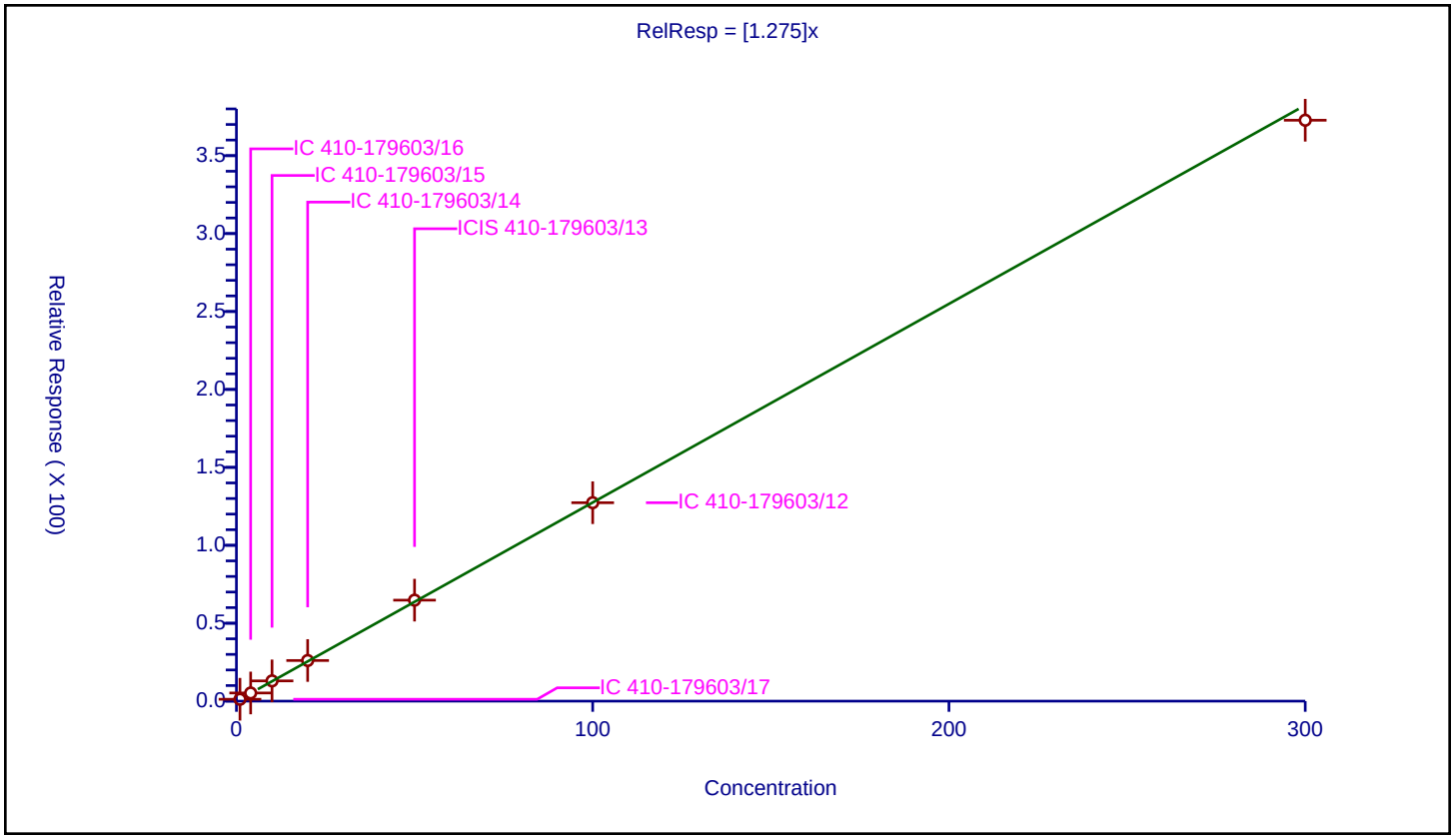
Curve Coefficients

Intercept:	0
Slope:	1.275

Error Coefficients

Standard Error:	3250000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.200142	50.0	946638.0	1.200142	Y
2	IC 410-179603/16	4.0	5.230547	50.0	961429.0	1.307637	Y
3	IC 410-179603/15	10.0	12.989078	50.0	951996.0	1.298908	Y
4	IC 410-179603/14	20.0	26.065909	50.0	937533.0	1.303295	Y
5	ICIS 410-179603/13	50.0	64.797024	50.0	955432.0	1.29594	Y
6	IC 410-179603/12	100.0	127.317748	50.0	968138.0	1.273177	Y
7	IC 410-179603/11	300.0	372.725628	50.0	1000716.0	1.242419	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

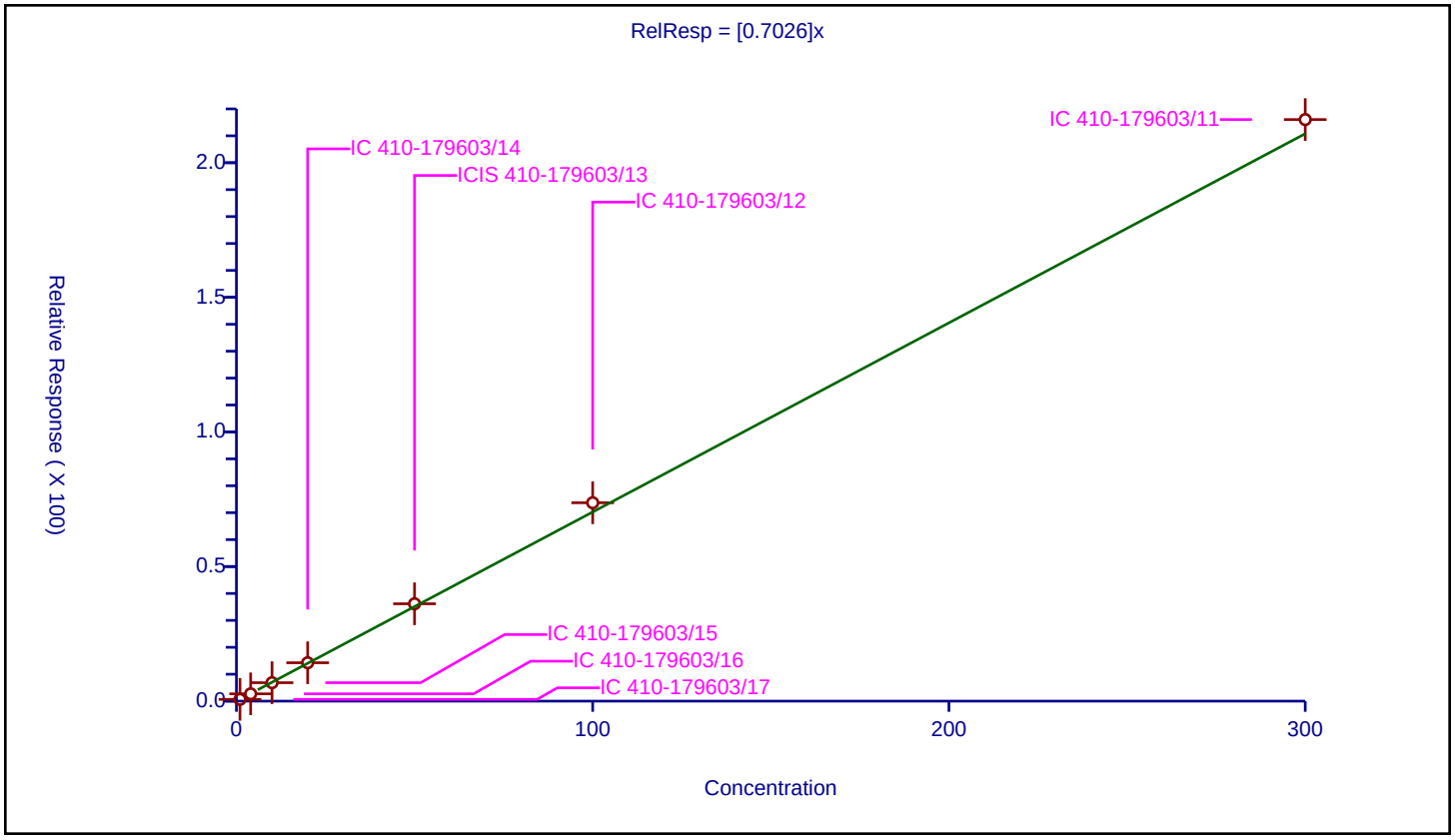
Curve Coefficients

Intercept:	0
Slope:	0.7026

Error Coefficients

Standard Error:	1880000
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 410-179603/17	1.0	0.660231	50.0	946638.0	0.660231	Y
2	IC 410-179603/16	4.0	2.716373	50.0	961429.0	0.679093	Y
3	IC 410-179603/15	10.0	6.856069	50.0	951996.0	0.685607	Y
4	IC 410-179603/14	20.0	14.259285	50.0	937533.0	0.712964	Y
5	ICIS 410-179603/13	50.0	36.161391	50.0	955432.0	0.723228	Y
6	IC 410-179603/12	100.0	73.695589	50.0	968138.0	0.736956	Y
7	IC 410-179603/11	300.0	216.034619	50.0	1000716.0	0.720115	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

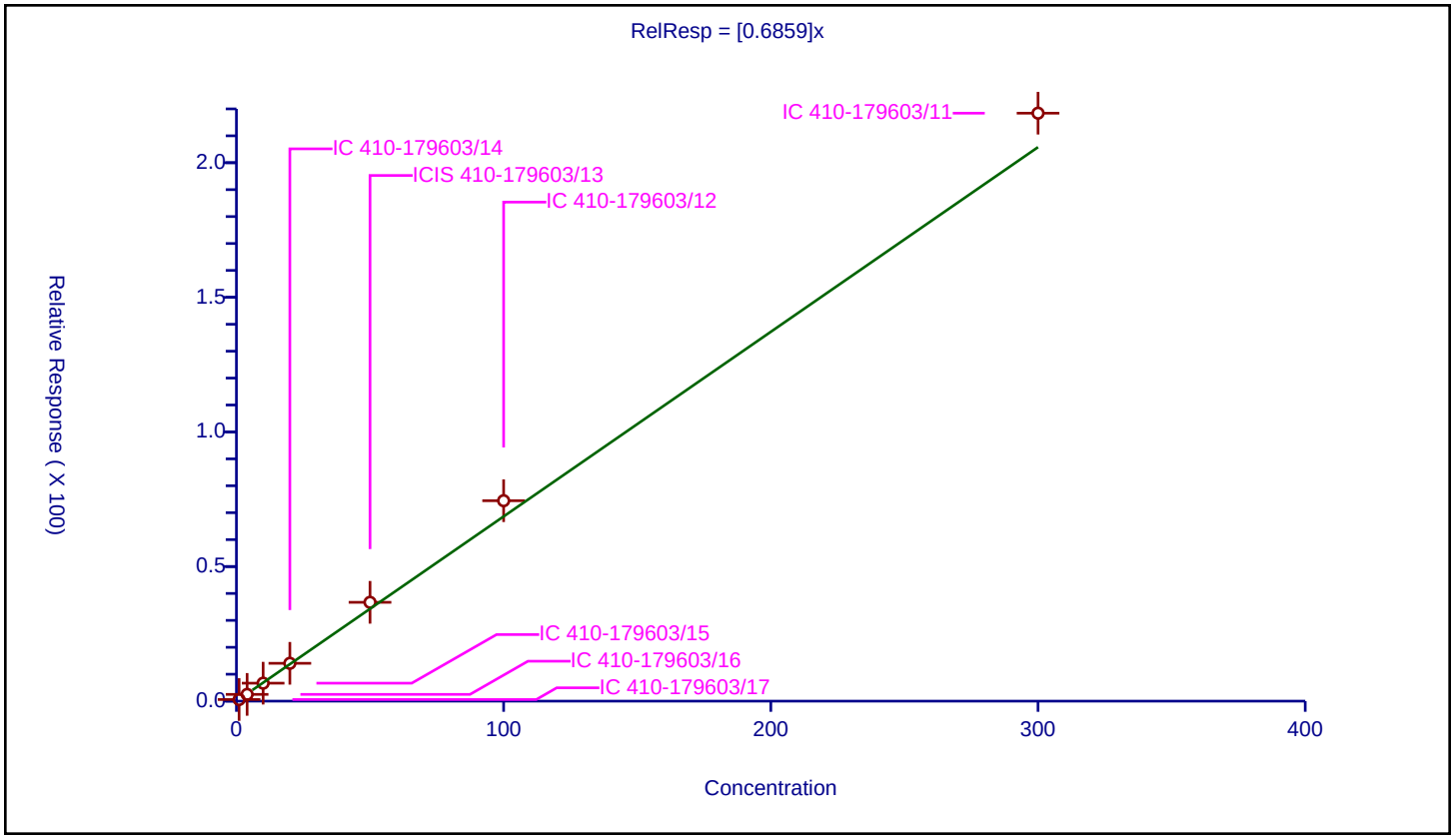
Curve Coefficients

Intercept:	0
Slope:	0.6859

Error Coefficients

Standard Error:	1900000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.000044	0.598962	50.0	946638.0	0.598936	Y
2	IC 410-179603/16	4.000175	2.505801	50.0	961429.0	0.626423	Y
3	IC 410-179603/15	10.000438	6.669513	50.0	951996.0	0.666922	Y
4	IC 410-179603/14	20.000875	14.050385	50.0	937533.0	0.702489	Y
5	ICIS 410-179603/13	50.002188	36.714753	50.0	955432.0	0.734263	Y
6	IC 410-179603/12	100.004376	74.451731	50.0	968138.0	0.744485	Y
7	IC 410-179603/11	300.013128	218.409719	50.0	1000716.0	0.728001	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

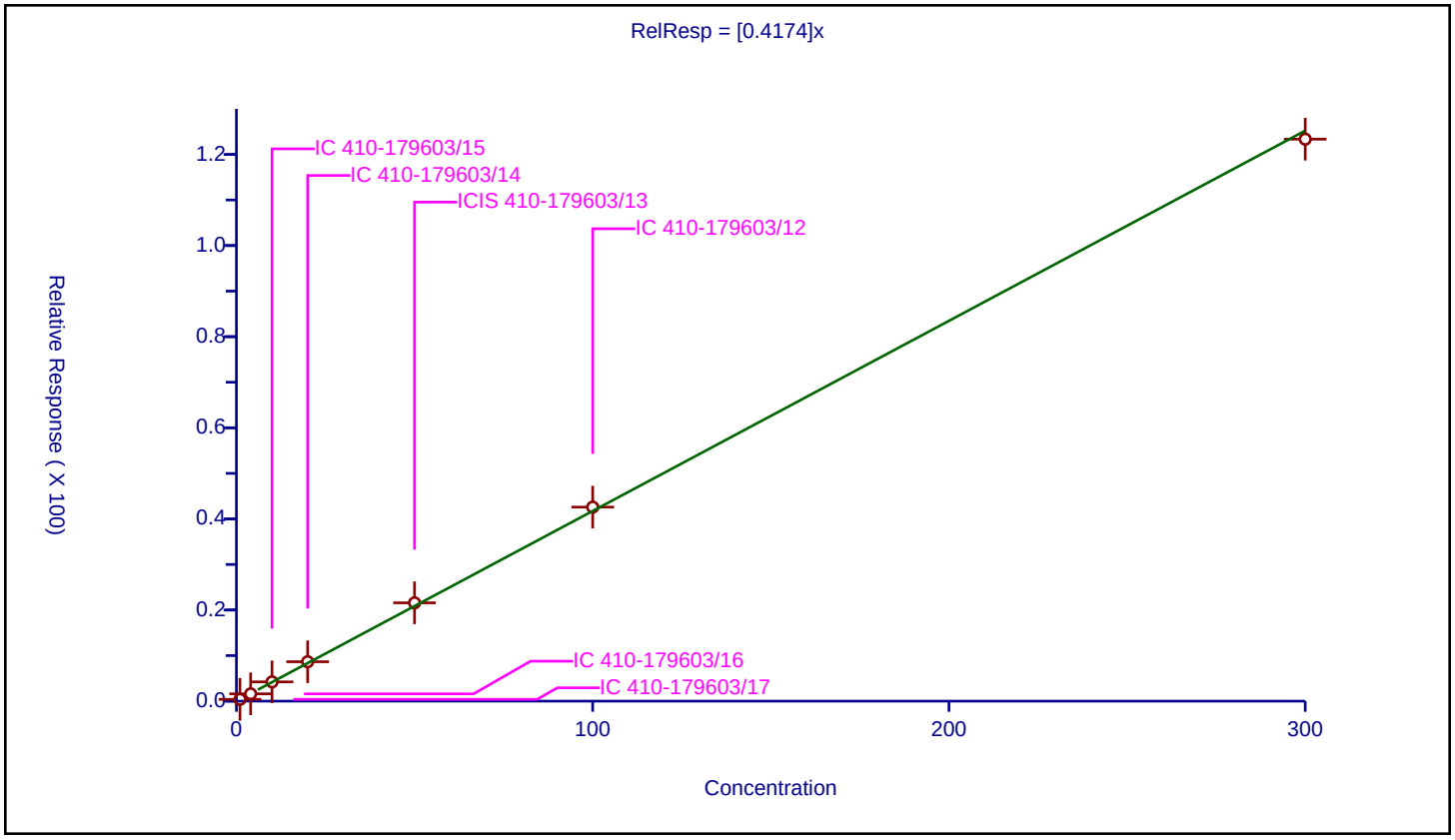
Curve Coefficients

Intercept:	0
Slope:	0.4174

Error Coefficients

Standard Error:	1080000
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 410-179603/17	1.0	0.395663	50.0	946638.0	0.395663	Y
2	IC 410-179603/16	4.0	1.607035	50.0	961429.0	0.401759	Y
3	IC 410-179603/15	10.0	4.228169	50.0	951996.0	0.422817	Y
4	IC 410-179603/14	20.0	8.652282	50.0	937533.0	0.432614	Y
5	ICIS 410-179603/13	50.0	21.58275	50.0	955432.0	0.431655	Y
6	IC 410-179603/12	100.0	42.587111	50.0	968138.0	0.425871	Y
7	IC 410-179603/11	300.0	123.354878	50.0	1000716.0	0.411183	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

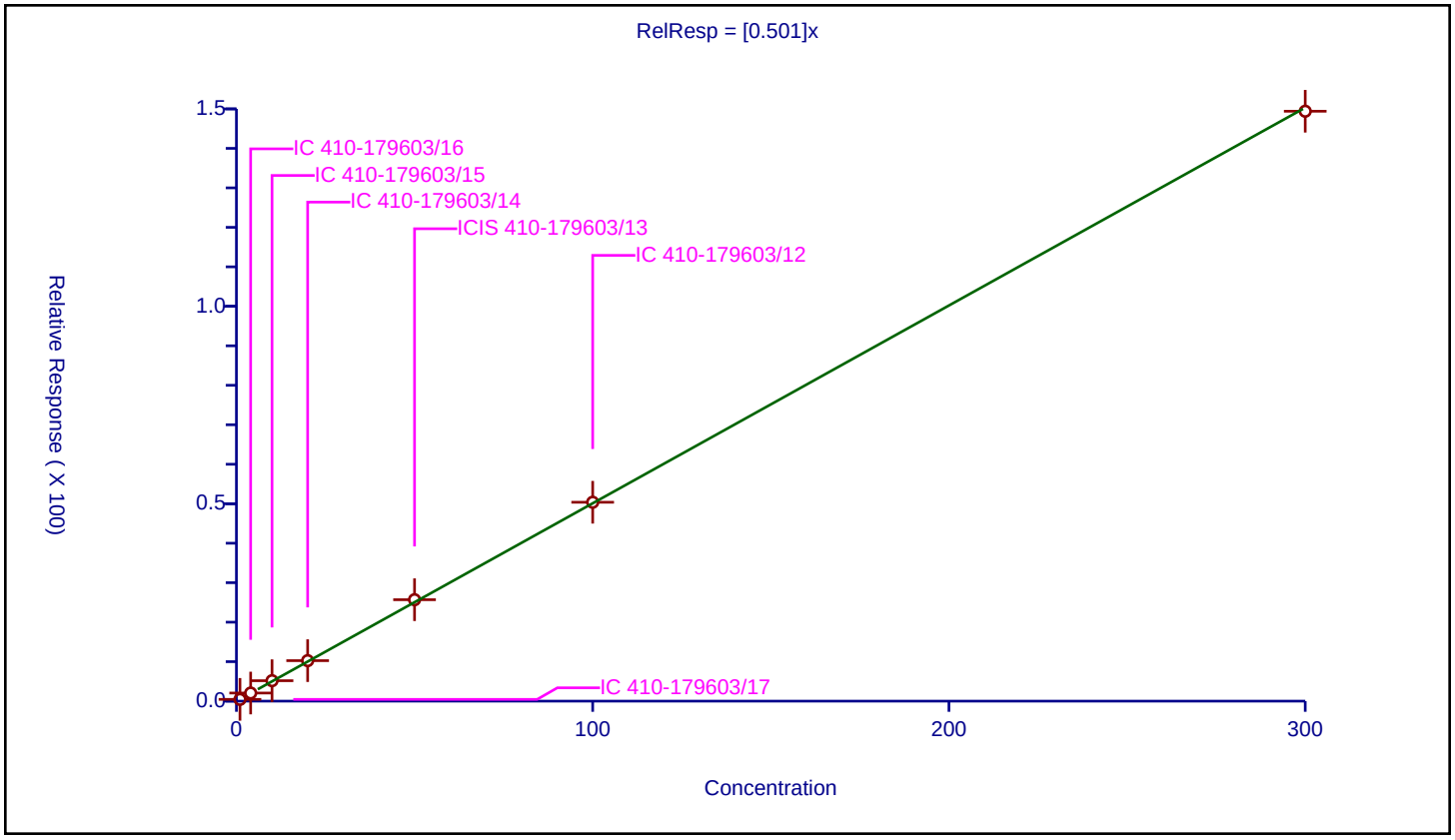
Curve Coefficients

Intercept:	0
Slope:	0.501

Error Coefficients

Standard Error:	1300000
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 410-179603/17	1.0	0.447848	50.0	946638.0	0.447848	Y
2	IC 410-179603/16	4.0	2.051582	50.0	961429.0	0.512895	Y
3	IC 410-179603/15	10.0	5.179801	50.0	951996.0	0.51798	Y
4	IC 410-179603/14	20.0	10.258092	50.0	937533.0	0.512905	Y
5	ICIS 410-179603/13	50.0	25.693613	50.0	955432.0	0.513872	Y
6	IC 410-179603/12	100.0	50.373449	50.0	968138.0	0.503734	Y
7	IC 410-179603/11	300.0	149.403477	50.0	1000716.0	0.498012	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

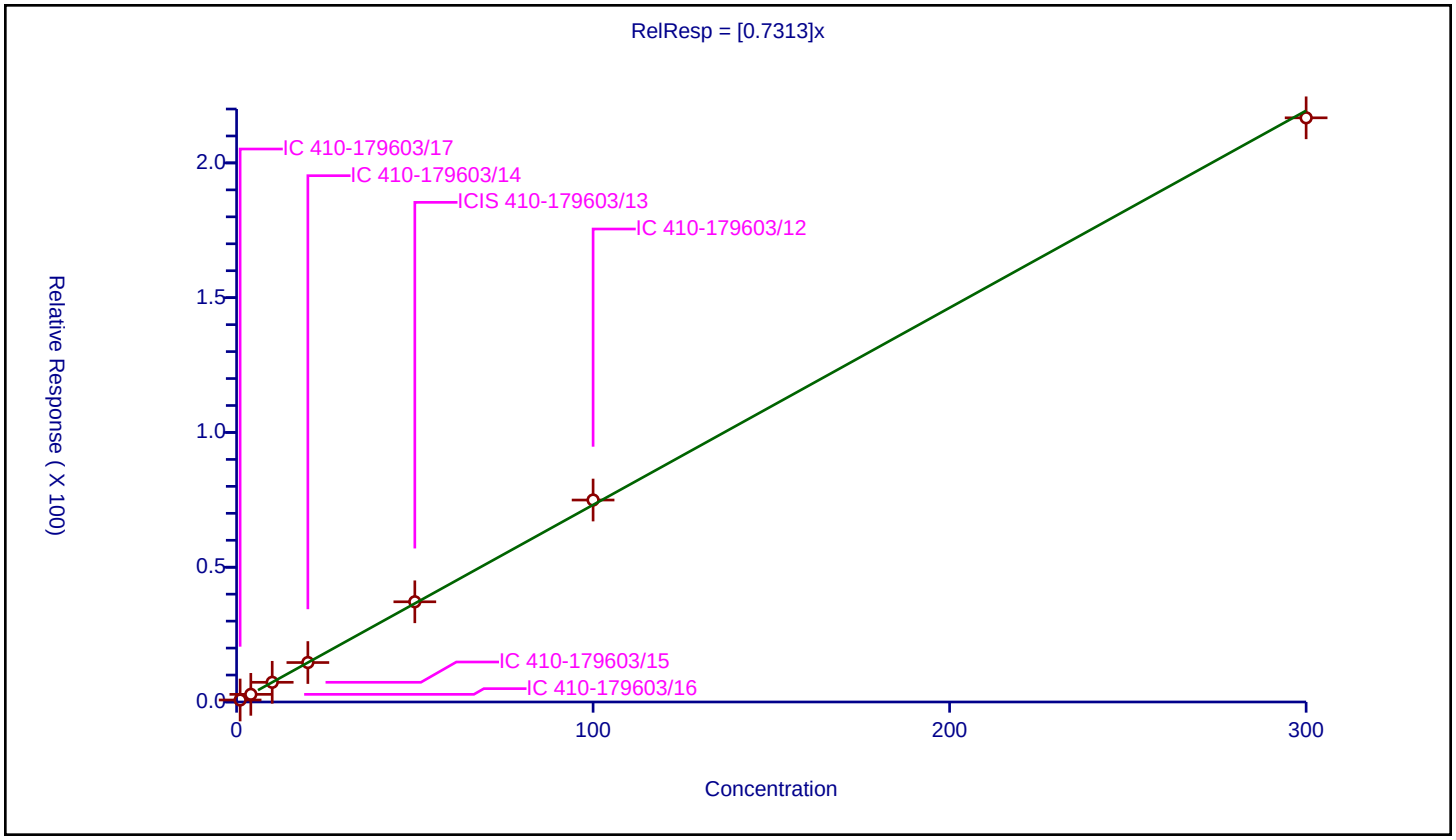
Curve Coefficients

Intercept:	0
Slope:	0.7313

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.73291	50.0	946638.0	0.73291	Y
2	IC 410-179603/16	4.0	2.833439	50.0	961429.0	0.70836	Y
3	IC 410-179603/15	10.0	7.304705	50.0	951996.0	0.730471	Y
4	IC 410-179603/14	20.0	14.640658	50.0	937533.0	0.732033	Y
5	ICIS 410-179603/13	50.0	37.175801	50.0	955432.0	0.743516	Y
6	IC 410-179603/12	100.0	74.931931	50.0	968138.0	0.749319	Y
7	IC 410-179603/11	300.0	216.73187	50.0	1000716.0	0.72244	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

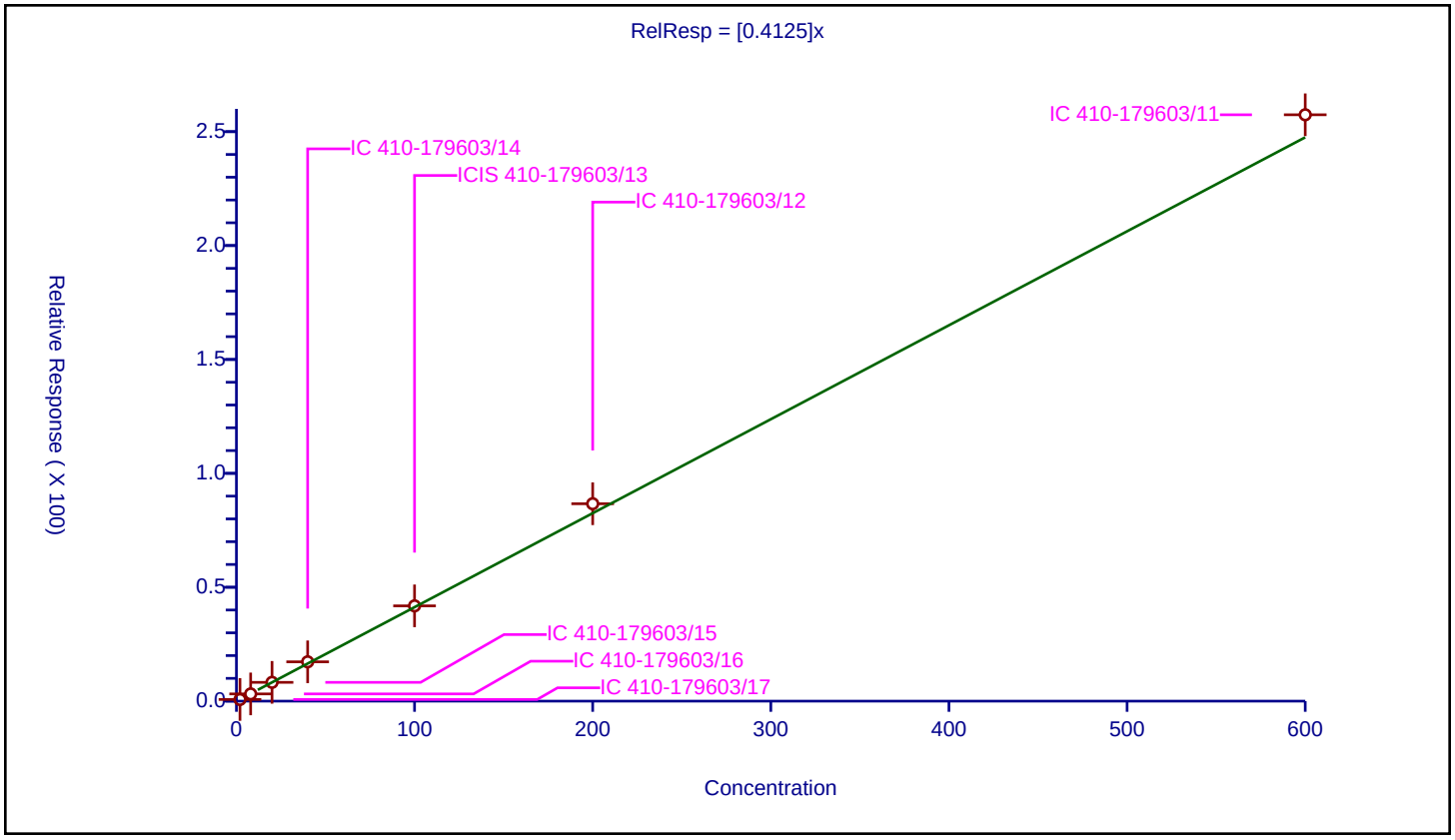
Curve Coefficients

Intercept:	0
Slope:	0.4125

Error Coefficients

Standard Error:	2240000
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 410-179603/17	2.0	0.731167	50.0	946638.0	0.365583	Y
2	IC 410-179603/16	8.0	3.177406	50.0	961429.0	0.397176	Y
3	IC 410-179603/15	20.0	8.249457	50.0	951996.0	0.412473	Y
4	IC 410-179603/14	40.0	17.269419	50.0	937533.0	0.431735	Y
5	ICIS 410-179603/13	100.0	41.826891	50.0	955432.0	0.418269	Y
6	IC 410-179603/12	200.0	86.662955	50.0	968138.0	0.433315	Y
7	IC 410-179603/11	600.0	257.421037	50.0	1000716.0	0.429035	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

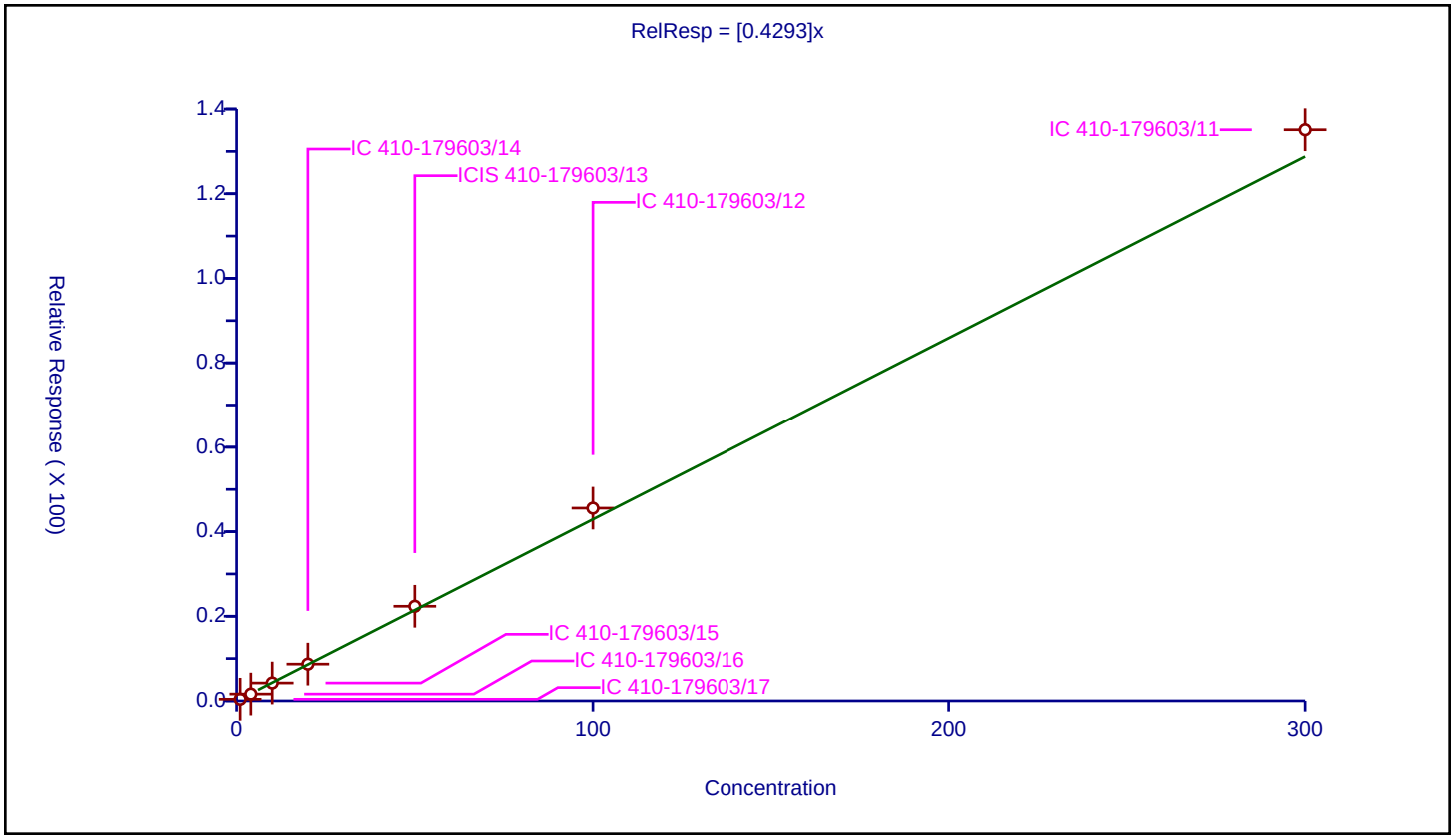
Curve Coefficients

Intercept:	0
Slope:	0.4293

Error Coefficients

Standard Error:	1180000
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 410-179603/17	1.0	0.39186	50.0	946638.0	0.39186	Y
2	IC 410-179603/16	4.0	1.612756	50.0	961429.0	0.403189	Y
3	IC 410-179603/15	10.0	4.223232	50.0	951996.0	0.422323	Y
4	IC 410-179603/14	20.0	8.685828	50.0	937533.0	0.434291	Y
5	ICIS 410-179603/13	50.0	22.362816	50.0	955432.0	0.447256	Y
6	IC 410-179603/12	100.0	45.574546	50.0	968138.0	0.455745	Y
7	IC 410-179603/11	300.0	135.116257	50.0	1000716.0	0.450388	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

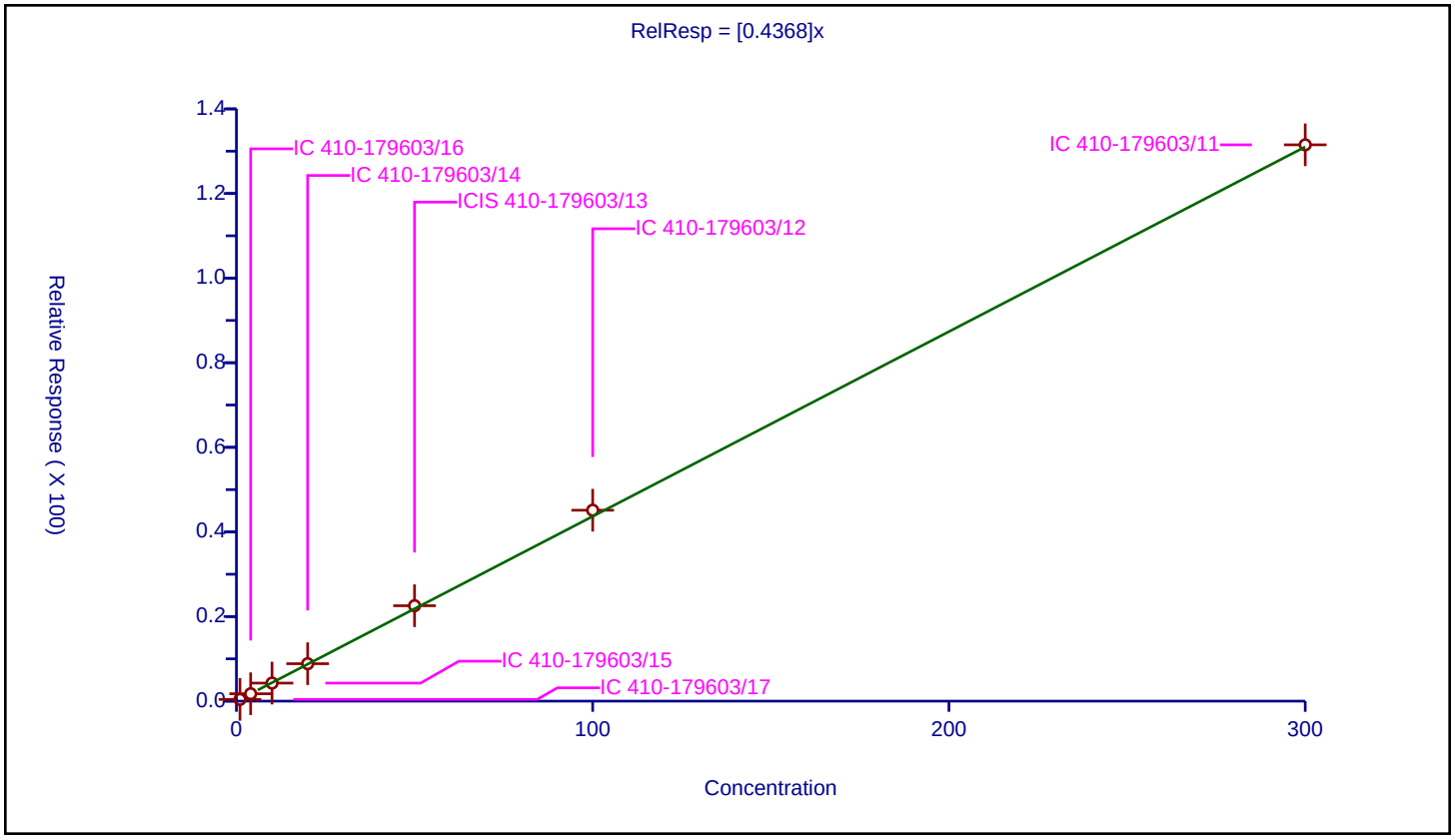
Curve Coefficients

Intercept:	0
Slope:	0.4368

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.410241	50.0	946638.0	0.410241	Y
2	IC 410-179603/16	4.0	1.749115	50.0	961429.0	0.437279	Y
3	IC 410-179603/15	10.0	4.26672	50.0	951996.0	0.426672	Y
4	IC 410-179603/14	20.0	8.847529	50.0	937533.0	0.442376	Y
5	ICIS 410-179603/13	50.0	22.558016	50.0	955432.0	0.45116	Y
6	IC 410-179603/12	100.0	45.129827	50.0	968138.0	0.451298	Y
7	IC 410-179603/11	300.0	131.509239	50.0	1000716.0	0.438364	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

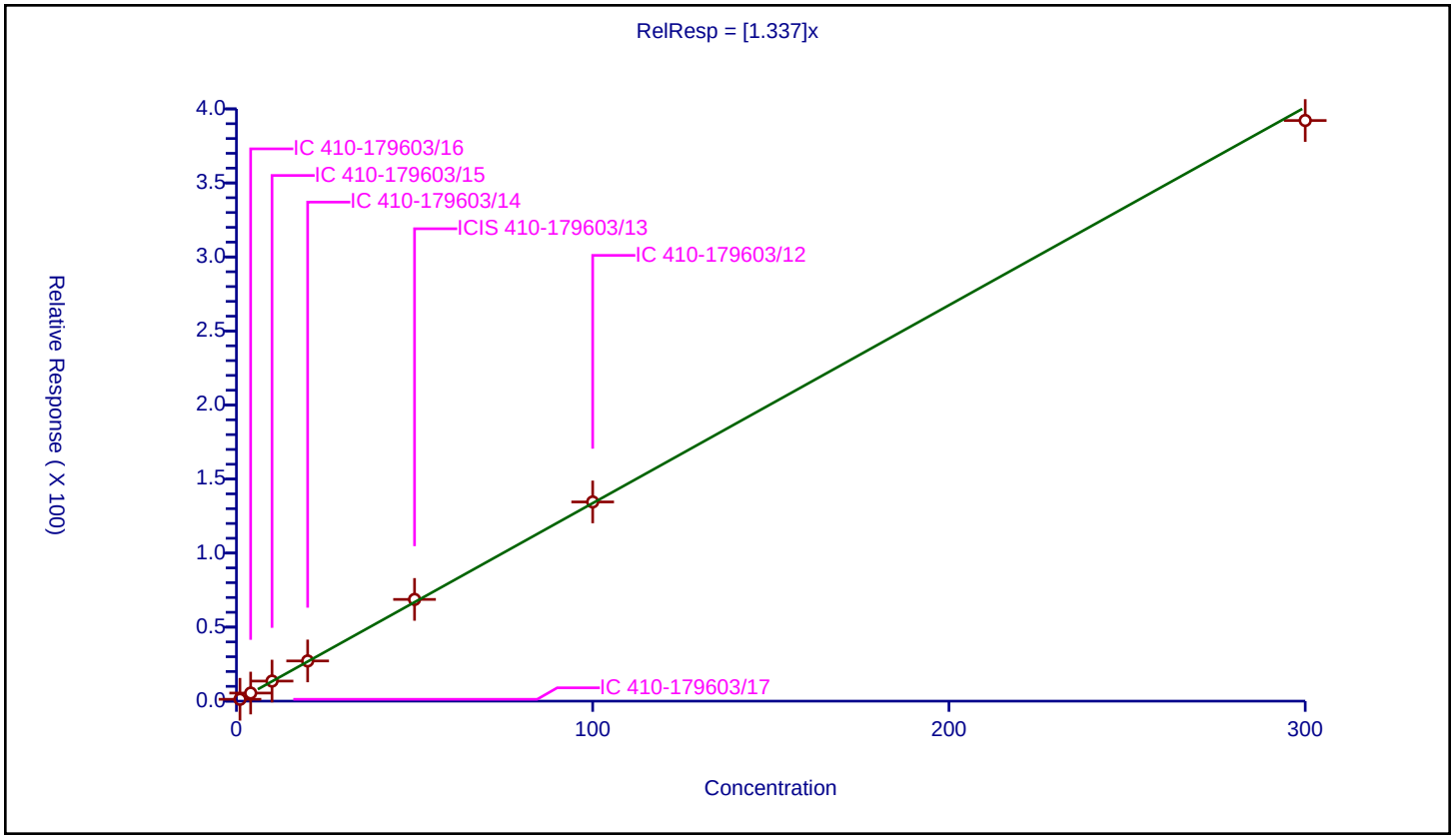
Curve Coefficients

Intercept:	0
Slope:	1.337

Error Coefficients

Standard Error:	3430000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.254281	50.0	946638.0	1.254281	Y
2	IC 410-179603/16	4.0	5.461662	50.0	961429.0	1.365415	Y
3	IC 410-179603/15	10.0	13.553733	50.0	951996.0	1.355373	Y
4	IC 410-179603/14	20.0	27.145764	50.0	937533.0	1.357288	Y
5	ICIS 410-179603/13	50.0	68.704785	50.0	955432.0	1.374096	Y
6	IC 410-179603/12	100.0	134.547916	50.0	968138.0	1.345479	Y
7	IC 410-179603/11	300.0	392.163311	50.0	1000716.0	1.307211	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

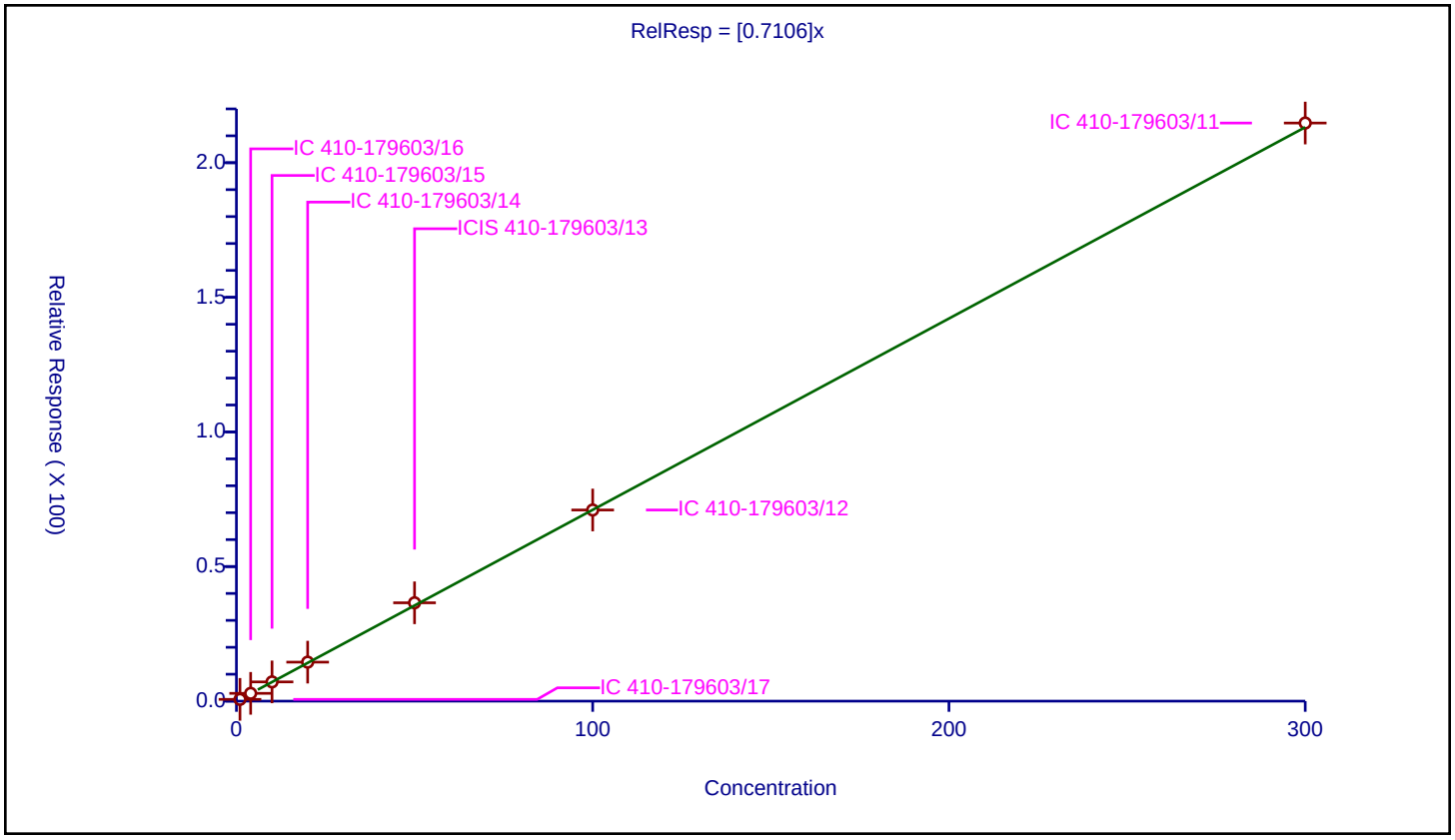
Curve Coefficients

Intercept:	0
Slope:	0.7106

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.654685	50.0	946638.0	0.654685	Y
2	IC 410-179603/16	4.0	2.897666	50.0	961429.0	0.724416	Y
3	IC 410-179603/15	10.0	7.143885	50.0	951996.0	0.714389	Y
4	IC 410-179603/14	20.0	14.48573	50.0	937533.0	0.724287	Y
5	ICIS 410-179603/13	50.0	36.533788	50.0	955432.0	0.730676	Y
6	IC 410-179603/12	100.0	71.006303	50.0	968138.0	0.710063	Y
7	IC 410-179603/11	300.0	214.746941	50.0	1000716.0	0.715823	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

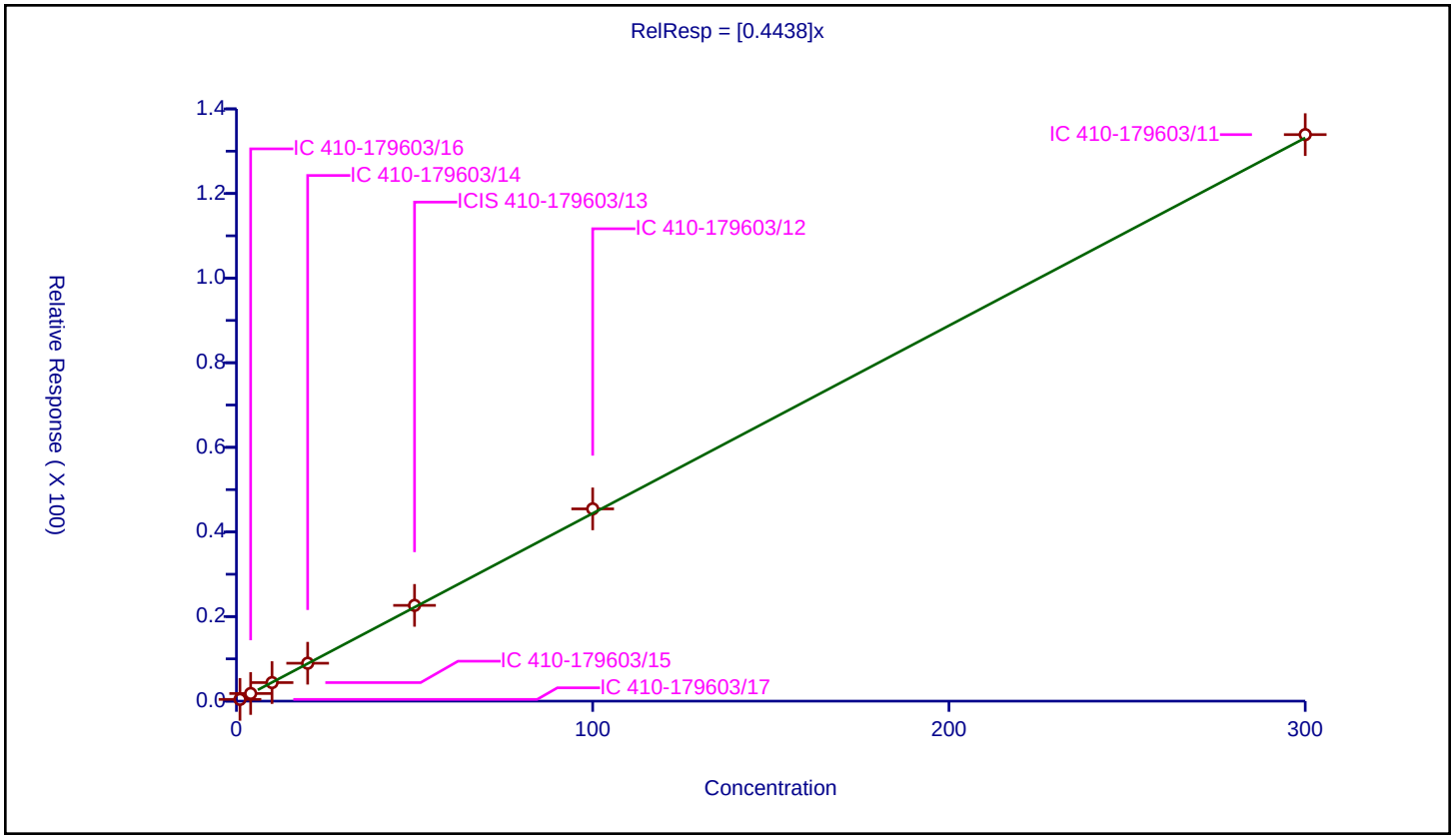
Curve Coefficients

Intercept:	0
Slope:	0.4438

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.415418	50.0	946638.0	0.415418	Y
2	IC 410-179603/16	4.0	1.805334	50.0	961429.0	0.451333	Y
3	IC 410-179603/15	10.0	4.383159	50.0	951996.0	0.438316	Y
4	IC 410-179603/14	20.0	8.960058	50.0	937533.0	0.448003	Y
5	ICIS 410-179603/13	50.0	22.636776	50.0	955432.0	0.452736	Y
6	IC 410-179603/12	100.0	45.447085	50.0	968138.0	0.454471	Y
7	IC 410-179603/11	300.0	133.915666	50.0	1000716.0	0.446386	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

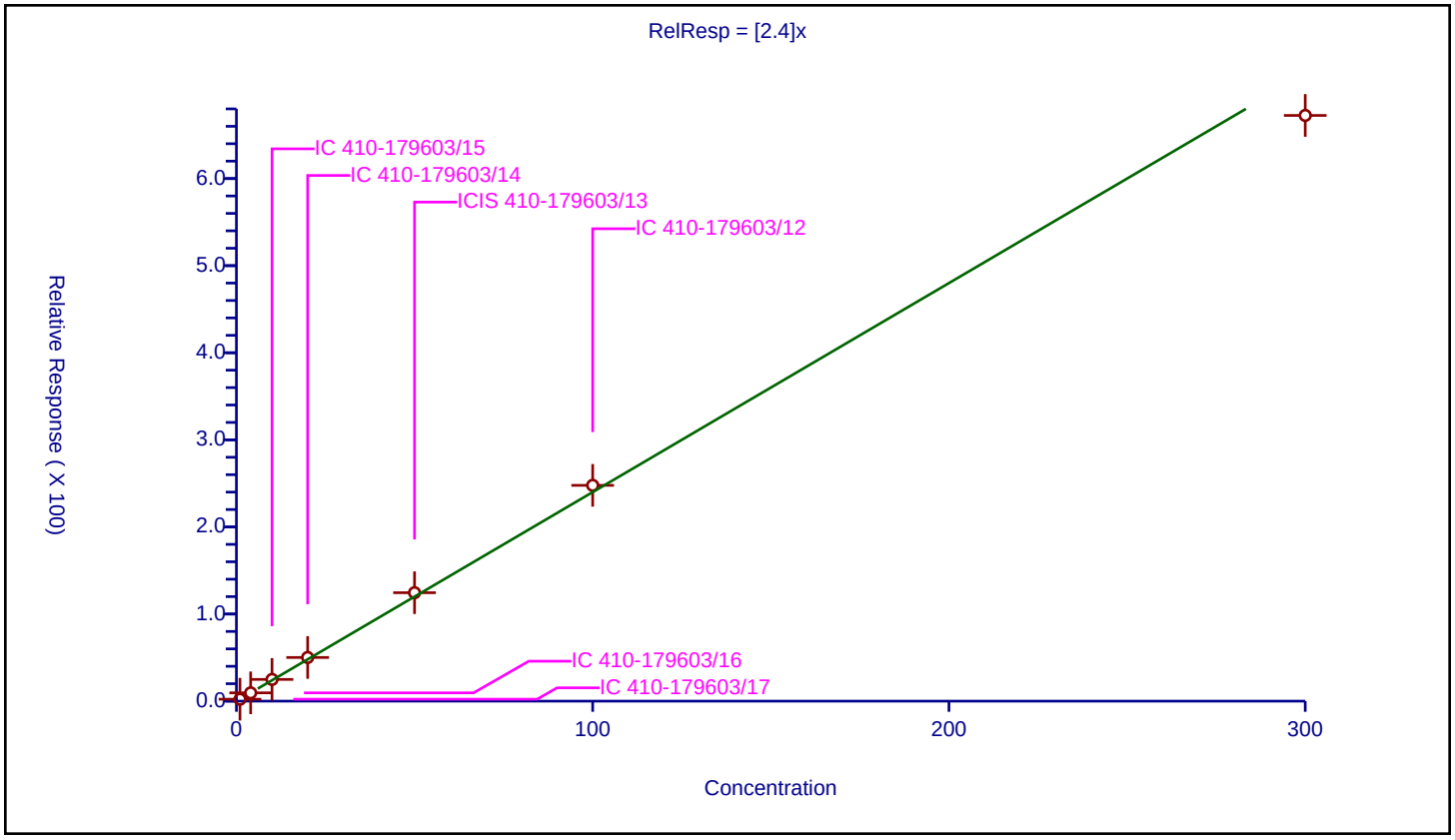
Curve Coefficients

Intercept:	0
Slope:	2.4

Error Coefficients

Standard Error:	5930000
Relative Standard Error:	5.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	2.207074	50.0	946638.0	2.207074	Y
2	IC 410-179603/16	4.0	9.532841	50.0	961429.0	2.38321	Y
3	IC 410-179603/15	10.0	24.93272	50.0	951996.0	2.493272	Y
4	IC 410-179603/14	20.0	50.127622	50.0	937533.0	2.506381	Y
5	ICIS 410-179603/13	50.0	124.511373	50.0	955432.0	2.490227	Y
6	IC 410-179603/12	100.0	247.776143	50.0	968138.0	2.477761	Y
7	IC 410-179603/11	300.0	672.462567	50.0	1000716.0	2.241542	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

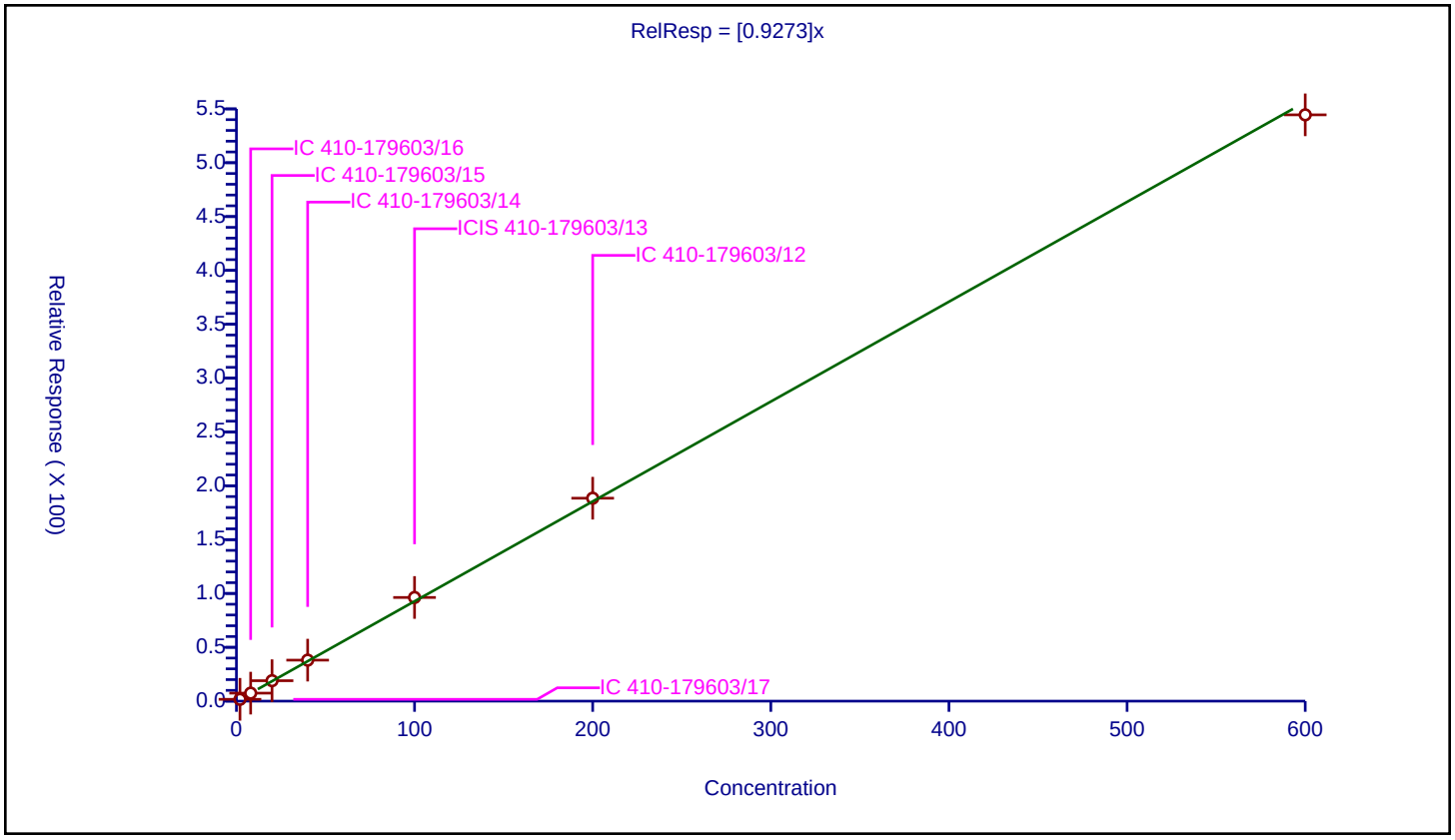
Curve Coefficients

Intercept:	0
Slope:	0.9273

Error Coefficients

Standard Error:	4760000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	2.0	1.695685	50.0	946638.0	0.847843	Y
2	IC 410-179603/16	8.0	7.434038	50.0	961429.0	0.929255	Y
3	IC 410-179603/15	20.0	18.98175	50.0	951996.0	0.949087	Y
4	IC 410-179603/14	40.0	38.084313	50.0	937533.0	0.952108	Y
5	ICIS 410-179603/13	100.0	96.285659	50.0	955432.0	0.962857	Y
6	IC 410-179603/12	200.0	188.473286	50.0	968138.0	0.942366	Y
7	IC 410-179603/11	600.0	544.493543	50.0	1000716.0	0.907489	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

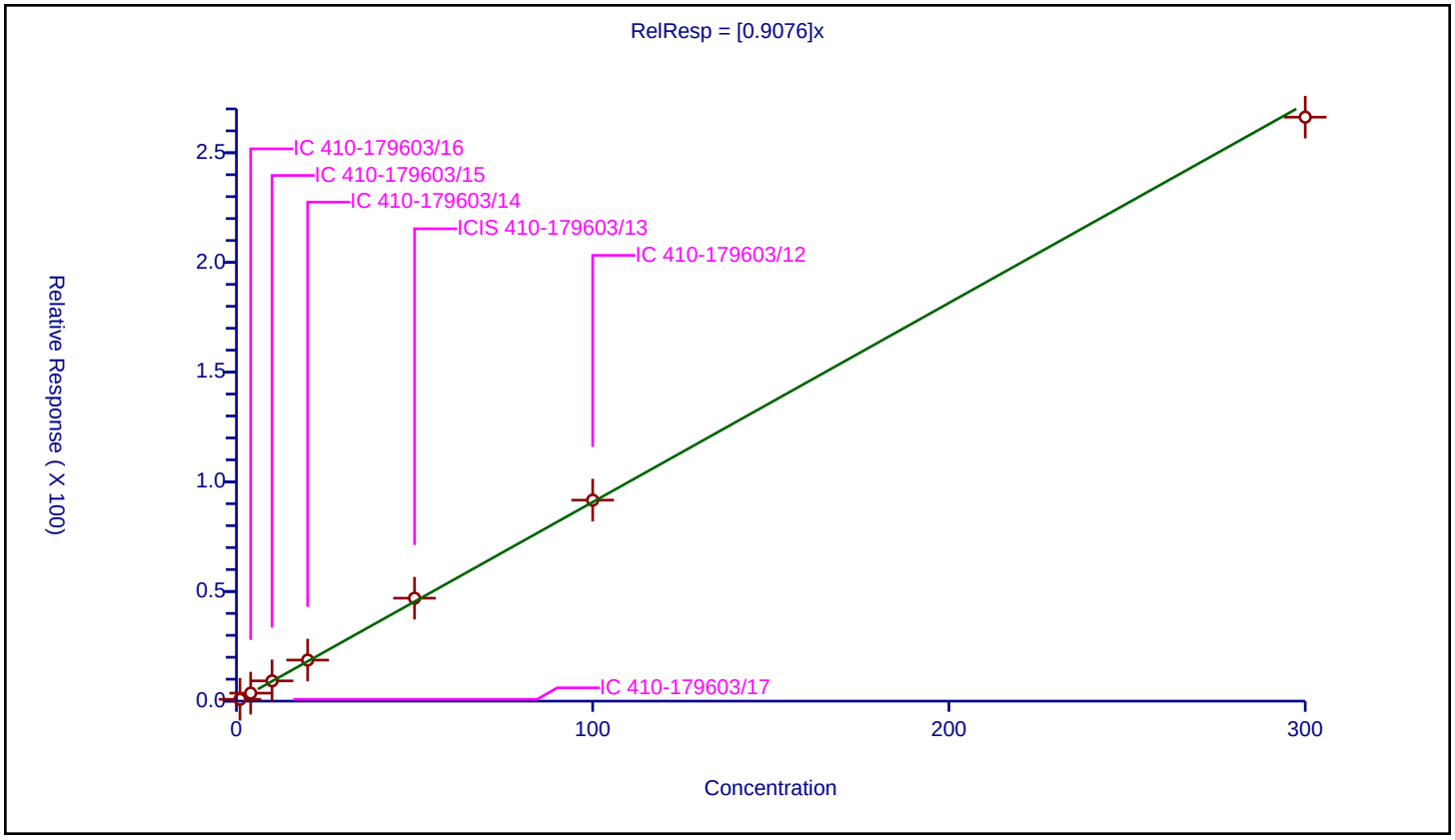
Curve Coefficients

Intercept:	0
Slope:	0.9076

Error Coefficients

Standard Error:	2330000
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 410-179603/17	1.0	0.837596	50.0	946638.0	0.837596	Y
2	IC 410-179603/16	4.0	3.651648	50.0	961429.0	0.912912	Y
3	IC 410-179603/15	10.0	9.239377	50.0	951996.0	0.923938	Y
4	IC 410-179603/14	20.0	18.719234	50.0	937533.0	0.935962	Y
5	ICIS 410-179603/13	50.0	46.938767	50.0	955432.0	0.938775	Y
6	IC 410-179603/12	100.0	91.642256	50.0	968138.0	0.916423	Y
7	IC 410-179603/11	300.0	266.236425	50.0	1000716.0	0.887455	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

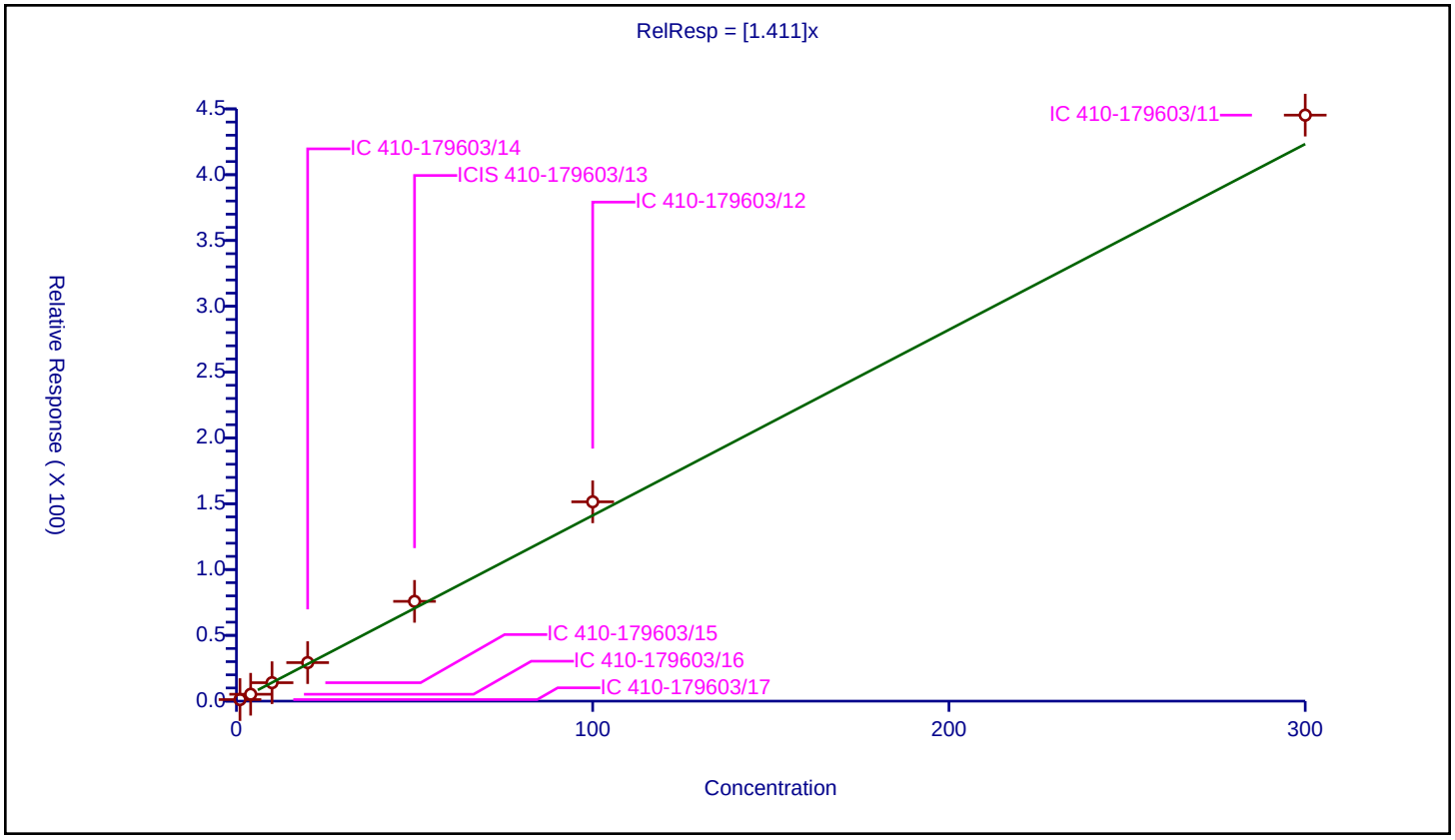
Curve Coefficients

Intercept:	0
Slope:	1.411

Error Coefficients

Standard Error:	3880000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.190529	50.0	946638.0	1.190529	Y
2	IC 410-179603/16	4.0	5.225971	50.0	961429.0	1.306493	Y
3	IC 410-179603/15	10.0	14.010878	50.0	951996.0	1.401088	Y
4	IC 410-179603/14	20.0	29.269263	50.0	937533.0	1.463463	Y
5	ICIS 410-179603/13	50.0	75.820833	50.0	955432.0	1.516417	Y
6	IC 410-179603/12	100.0	151.446385	50.0	968138.0	1.514464	Y
7	IC 410-179603/11	300.0	445.267688	50.0	1000716.0	1.484226	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

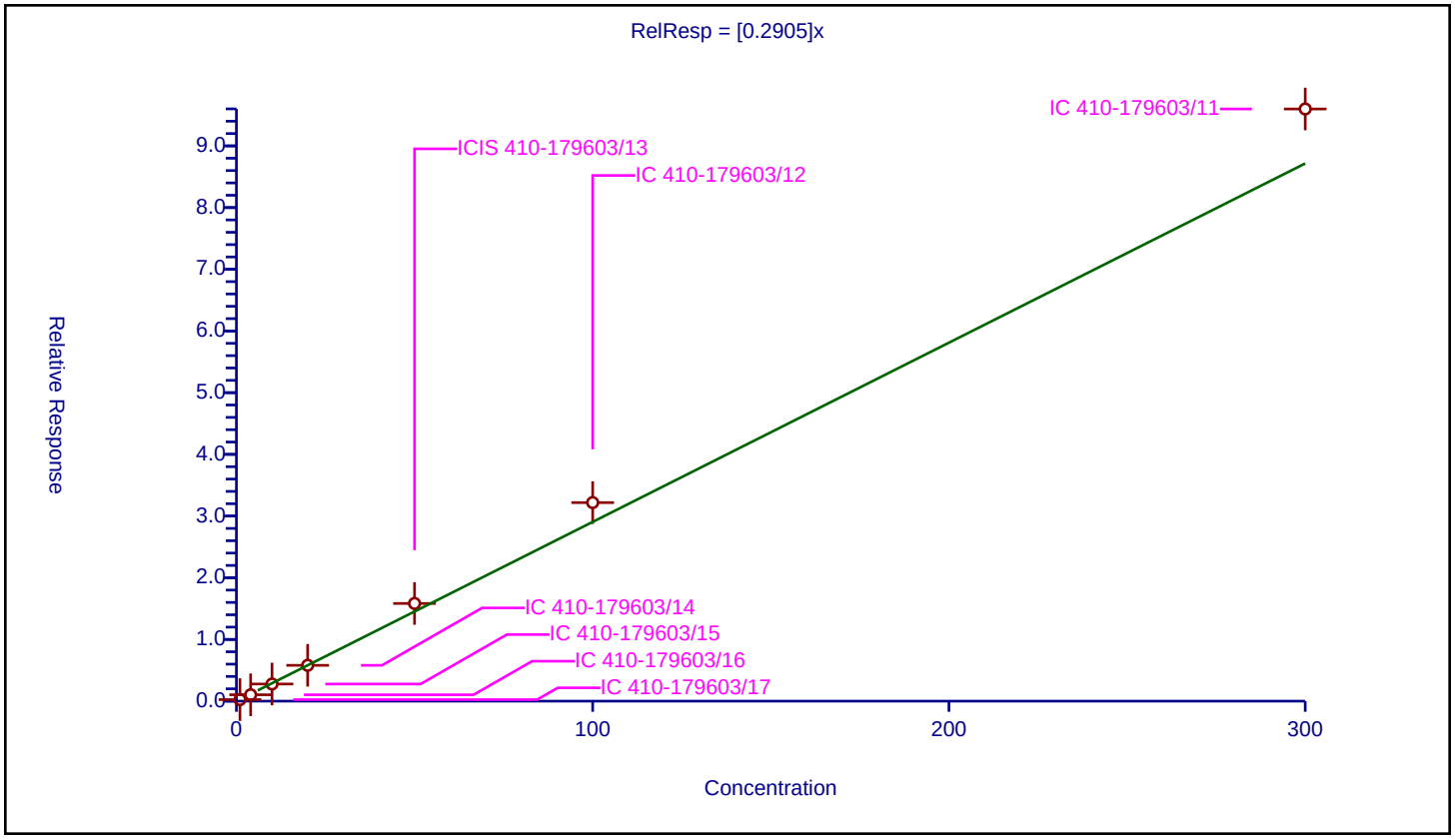
Curve Coefficients

Intercept:	0
Slope:	0.2905

Error Coefficients

Standard Error:	835000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.248564	50.0	946638.0	0.248564	Y
2	IC 410-179603/16	4.0	1.033982	50.0	961429.0	0.258495	Y
3	IC 410-179603/15	10.0	2.778215	50.0	951996.0	0.277822	Y
4	IC 410-179603/14	20.0	5.804702	50.0	937533.0	0.290235	Y
5	ICIS 410-179603/13	50.0	15.835455	50.0	955432.0	0.316709	Y
6	IC 410-179603/12	100.0	32.184255	50.0	968138.0	0.321843	Y
7	IC 410-179603/11	300.0	95.983276	50.0	1000716.0	0.319944	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

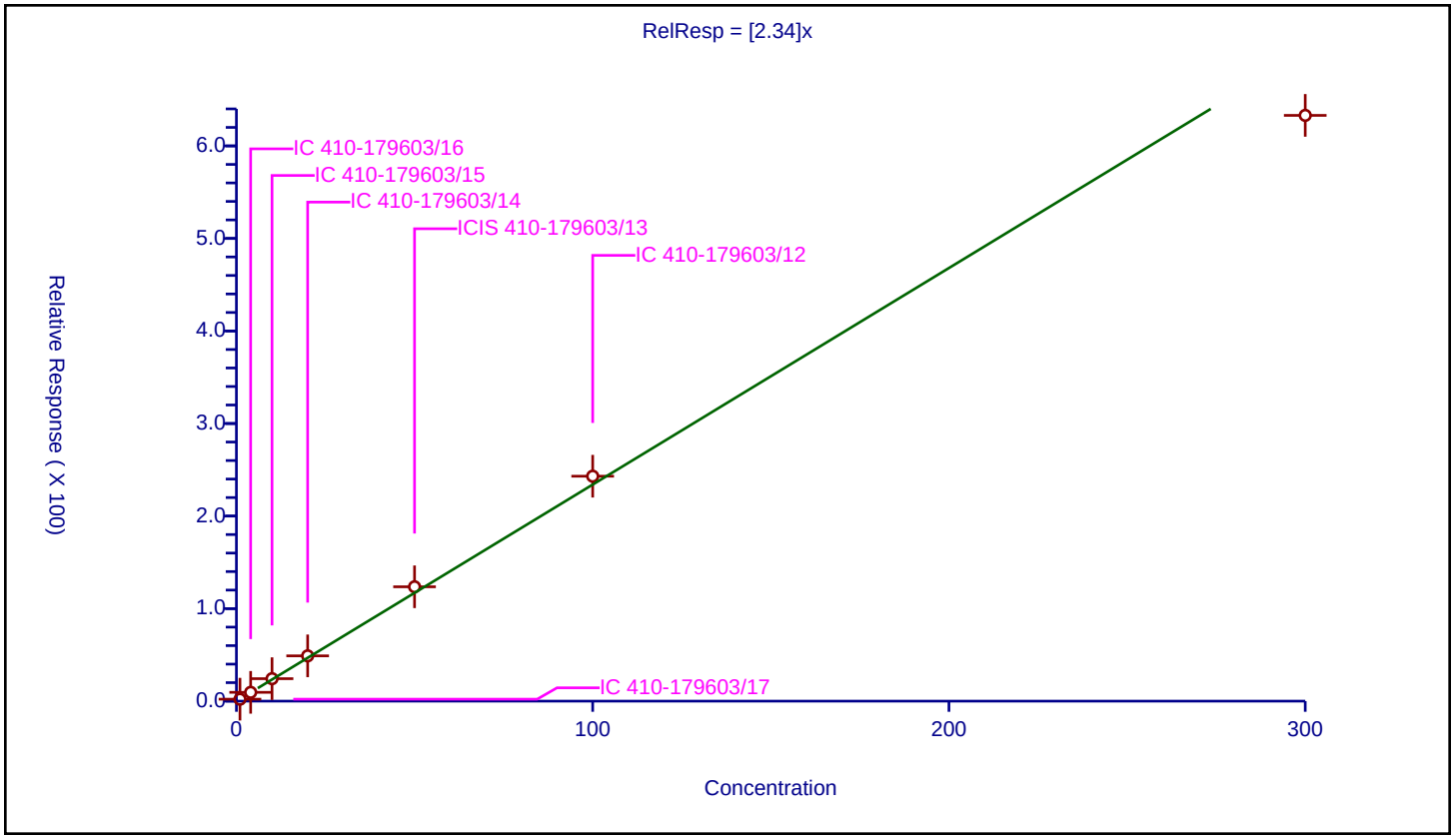
Curve Coefficients

Intercept:	0
Slope:	2.34

Error Coefficients

Standard Error:	5620000
Relative Standard Error:	6.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	2.112687	50.0	946638.0	2.112687	Y
2	IC 410-179603/16	4.0	9.522076	50.0	961429.0	2.380519	Y
3	IC 410-179603/15	10.0	24.280827	50.0	951996.0	2.428083	Y
4	IC 410-179603/14	20.0	48.953104	50.0	937533.0	2.447655	Y
5	ICIS 410-179603/13	50.0	123.577136	50.0	955432.0	2.471543	Y
6	IC 410-179603/12	100.0	243.076039	50.0	968138.0	2.43076	Y
7	IC 410-179603/11	300.0	632.987981	50.0	1000716.0	2.10996	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

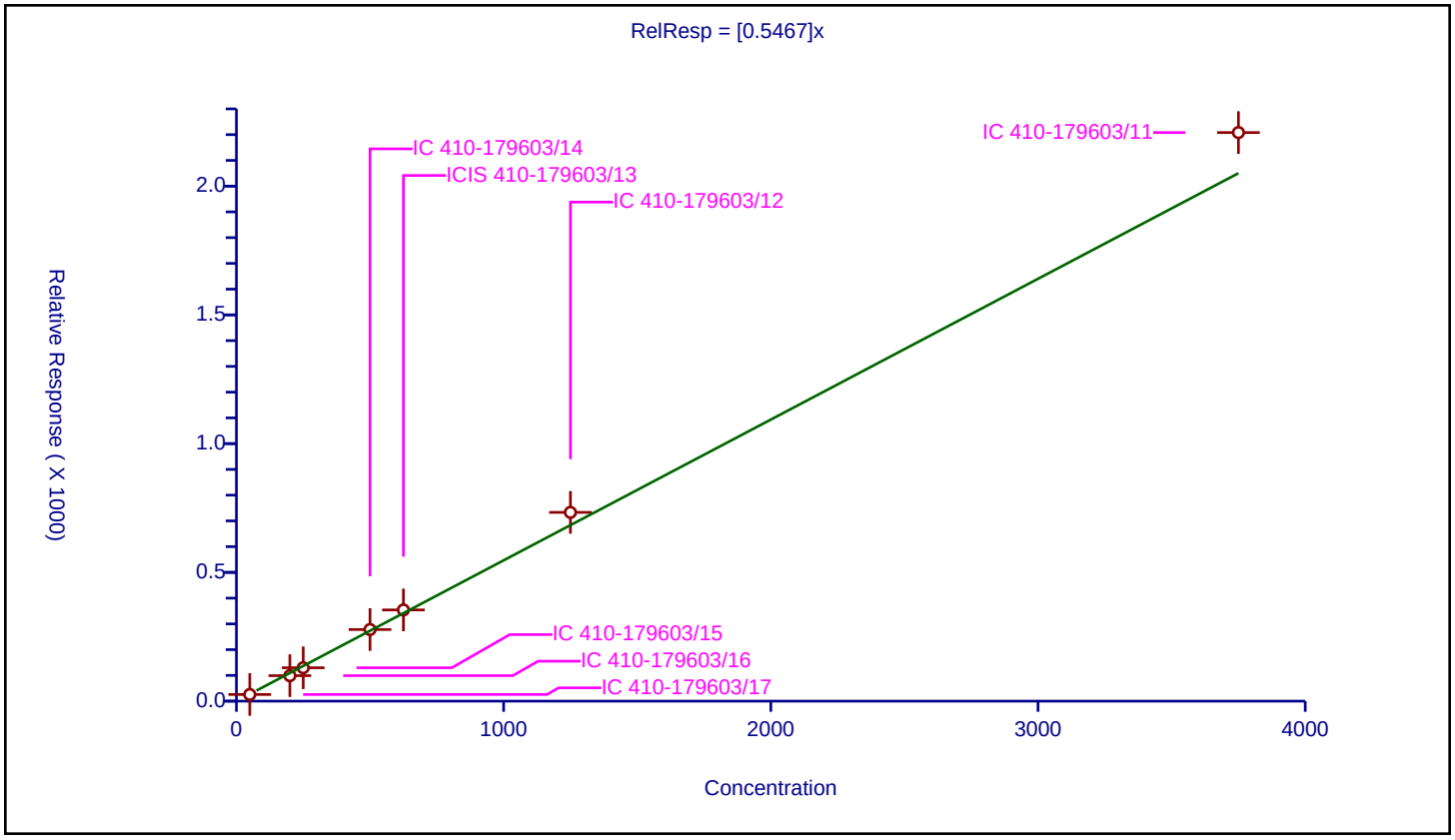
Curve Coefficients

Intercept:	0
Slope:	0.5467

Error Coefficients

Standard Error:	868000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	50.00111	25.782677	250.0	193822.0	0.515642	Y
2	IC 410-179603/16	200.004442	98.901182	250.0	198486.0	0.494495	Y
3	IC 410-179603/15	250.005552	129.674398	250.0	203930.0	0.518686	Y
4	IC 410-179603/14	500.011104	278.122626	250.0	207982.0	0.556233	Y
5	ICIS 410-179603/13	625.01388	354.186243	250.0	212840.0	0.566685	Y
6	IC 410-179603/12	1250.02776	733.059285	250.0	212919.0	0.586434	Y
7	IC 410-179603/11	3750.08328	2208.010825	250.0	225963.0	0.58879	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

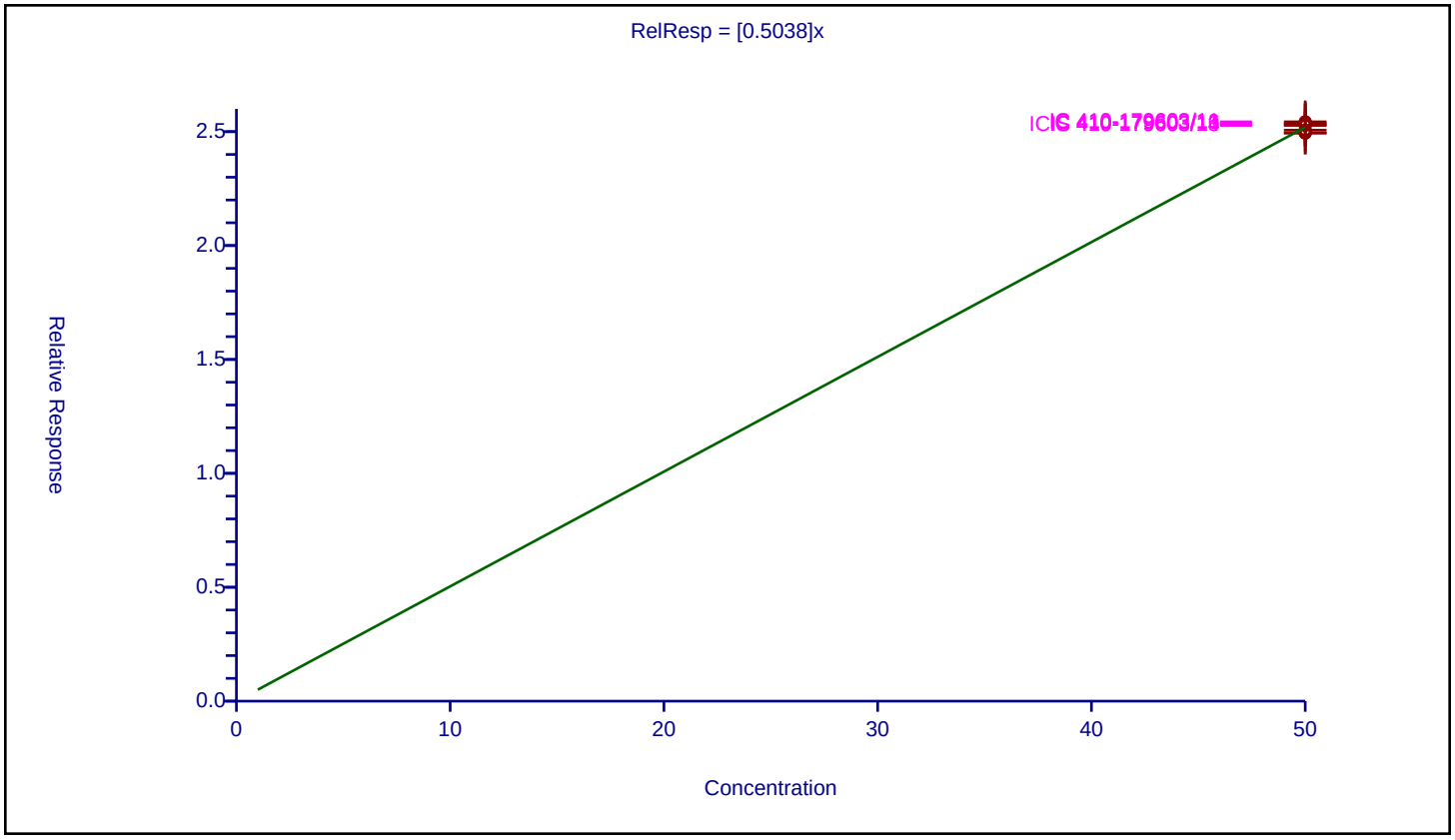
Curve Coefficients

Intercept:	0
Slope:	0.5038

Error Coefficients

Standard Error:	523000
Relative Standard Error:	0.8
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/11	50.0	25.43334	50.0	1000716.0	0.508667	Y
2	IC 410-179603/12	50.0	25.067191	50.0	968138.0	0.501344	Y
3	ICIS 410-179603/13	50.0	25.274535	50.0	955432.0	0.505491	Y
4	IC 410-179603/14	50.0	25.301723	50.0	937533.0	0.506034	Y
5	IC 410-179603/15	50.0	24.94459	50.0	951996.0	0.498892	Y
6	IC 410-179603/16	50.0	25.364692	50.0	961429.0	0.507294	Y
7	IC 410-179603/17	50.0	24.940104	50.0	946638.0	0.498802	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

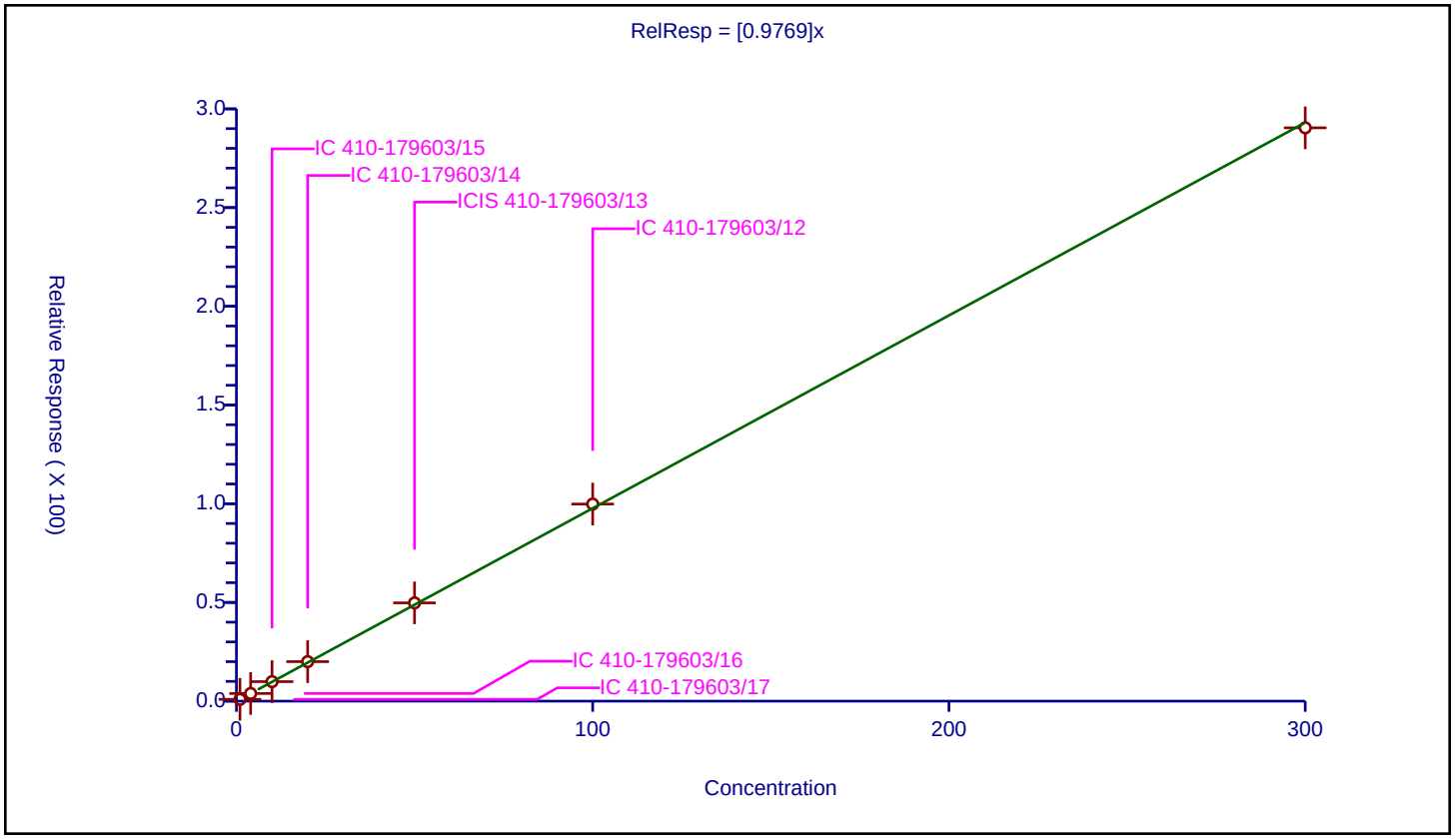
Curve Coefficients

Intercept:	0
Slope:	0.9769

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.91599	50.0	497986.0	0.91599	Y
2	IC 410-179603/16	4.0	3.883954	50.0	508335.0	0.970989	Y
3	IC 410-179603/15	10.0	9.888094	50.0	504622.0	0.988809	Y
4	IC 410-179603/14	20.0	20.012326	50.0	493281.0	1.000616	Y
5	ICIS 410-179603/13	50.0	49.773667	50.0	503019.0	0.995473	Y
6	IC 410-179603/12	100.0	99.822531	50.0	507132.0	0.998225	Y
7	IC 410-179603/11	300.0	290.408903	50.0	526702.0	0.96803	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

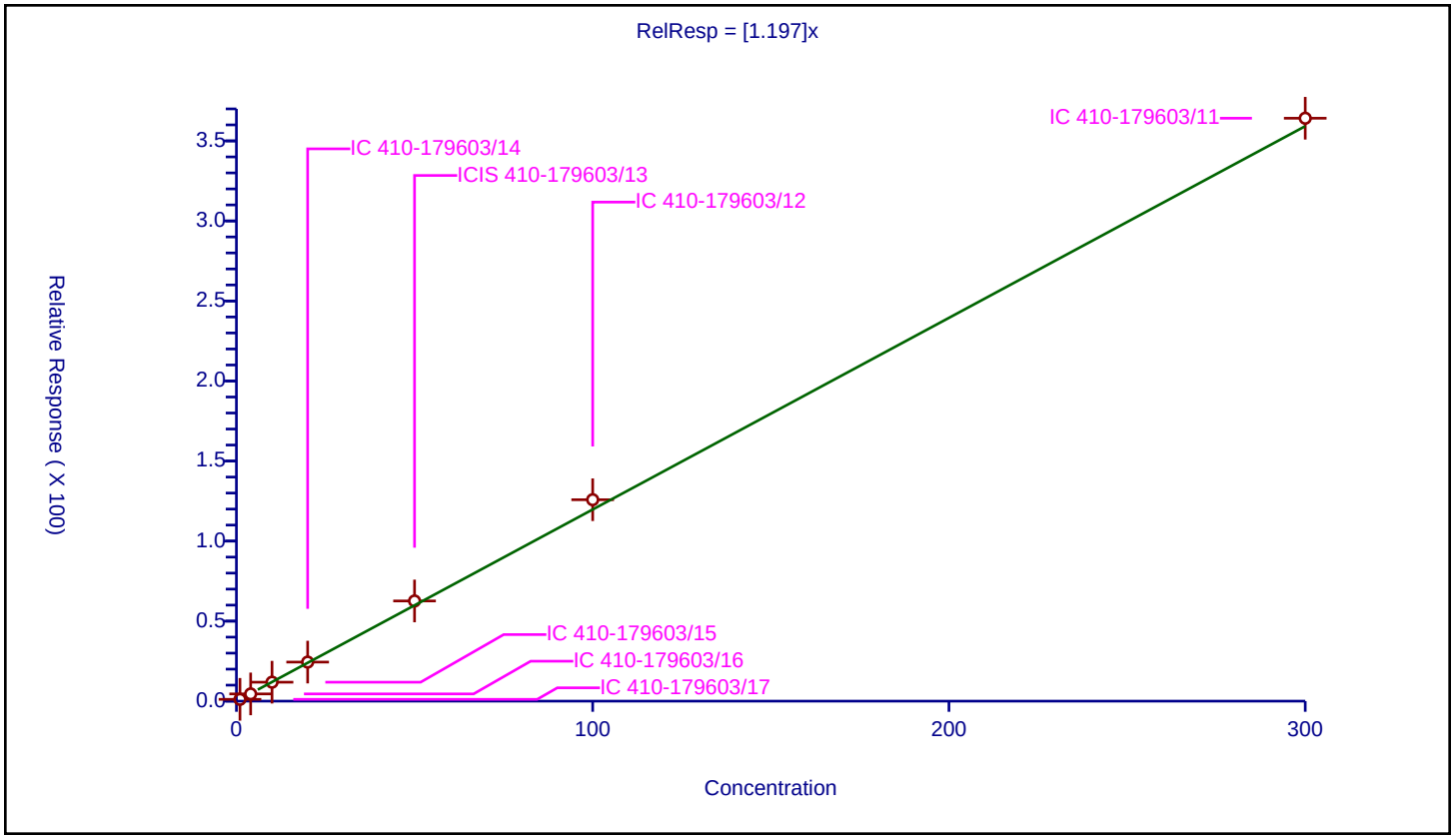
Curve Coefficients

Intercept:	0
Slope:	1.197

Error Coefficients

Standard Error:	1670000
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 410-179603/17	1.0	1.123927	50.0	497986.0	1.123927	Y
2	IC 410-179603/16	4.0	4.516018	50.0	508335.0	1.129004	Y
3	IC 410-179603/15	10.0	11.840249	50.0	504622.0	1.184025	Y
4	IC 410-179603/14	20.0	24.398872	50.0	493281.0	1.219944	Y
5	ICIS 410-179603/13	50.0	62.584316	50.0	503019.0	1.251686	Y
6	IC 410-179603/12	100.0	125.84061	50.0	507132.0	1.258406	Y
7	IC 410-179603/11	300.0	364.156582	50.0	526702.0	1.213855	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

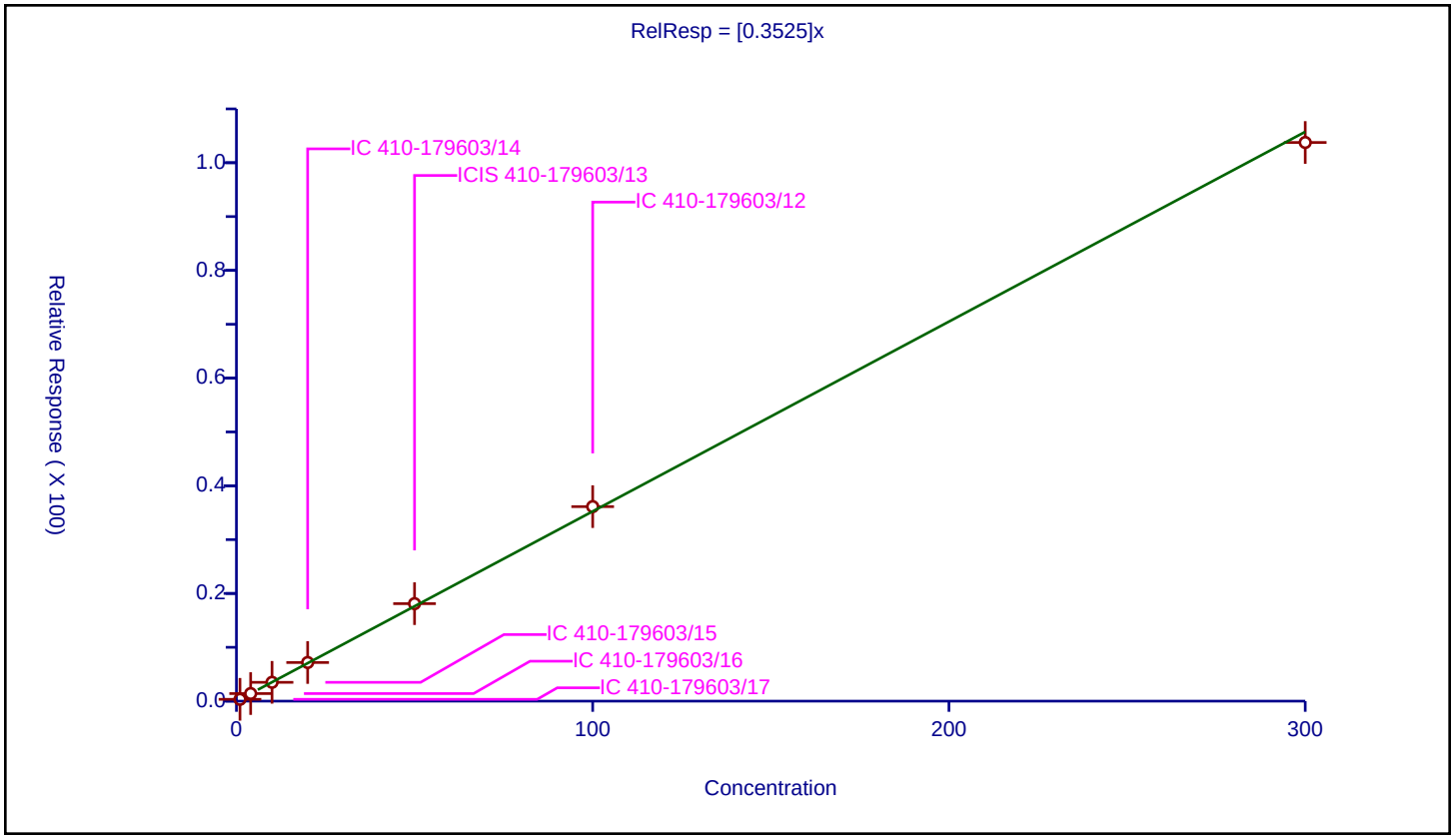
Curve Coefficients

Intercept:	0
Slope:	0.3525

Error Coefficients

Standard Error:	478000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.337158	50.0	497986.0	0.337158	Y
2	IC 410-179603/16	4.0	1.409012	50.0	508335.0	0.352253	Y
3	IC 410-179603/15	10.0	3.496479	50.0	504622.0	0.349648	Y
4	IC 410-179603/14	20.0	7.177653	50.0	493281.0	0.358883	Y
5	ICIS 410-179603/13	50.0	18.108461	50.0	503019.0	0.362169	Y
6	IC 410-179603/12	100.0	36.128464	50.0	507132.0	0.361285	Y
7	IC 410-179603/11	300.0	103.760855	50.0	526702.0	0.34587	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

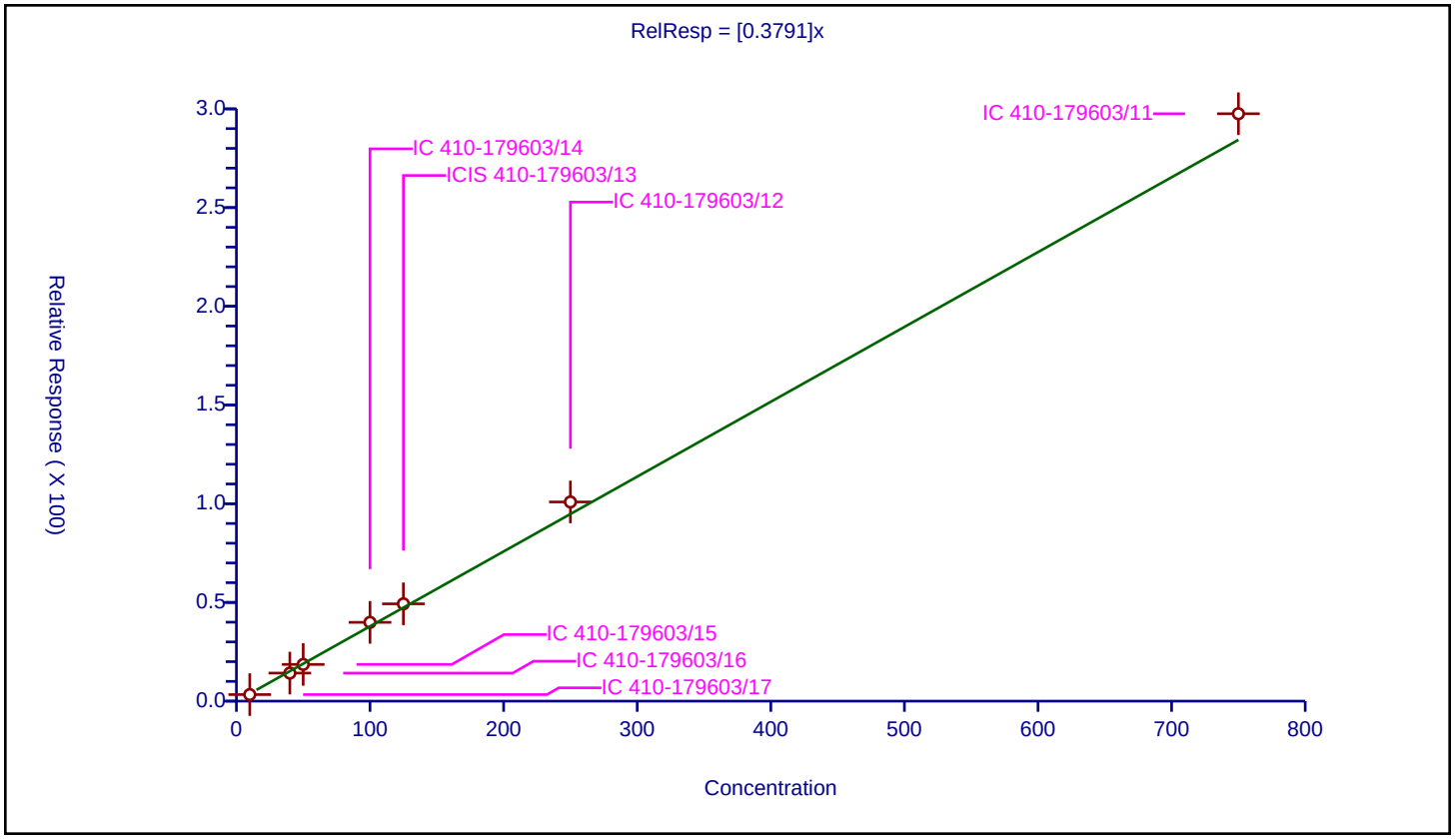
Curve Coefficients

Intercept:	0
Slope:	0.3791

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	10.0	3.324391	50.0	497986.0	0.332439	Y
2	IC 410-179603/16	40.0	14.217789	50.0	508335.0	0.355445	Y
3	IC 410-179603/15	50.0	18.599467	50.0	504622.0	0.371989	Y
4	IC 410-179603/14	100.0	39.907882	50.0	493281.0	0.399079	Y
5	ICIS 410-179603/13	125.0	49.29446	50.0	503019.0	0.394356	Y
6	IC 410-179603/12	250.0	100.901442	50.0	507132.0	0.403606	Y
7	IC 410-179603/11	750.0	297.541494	50.0	526702.0	0.396722	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

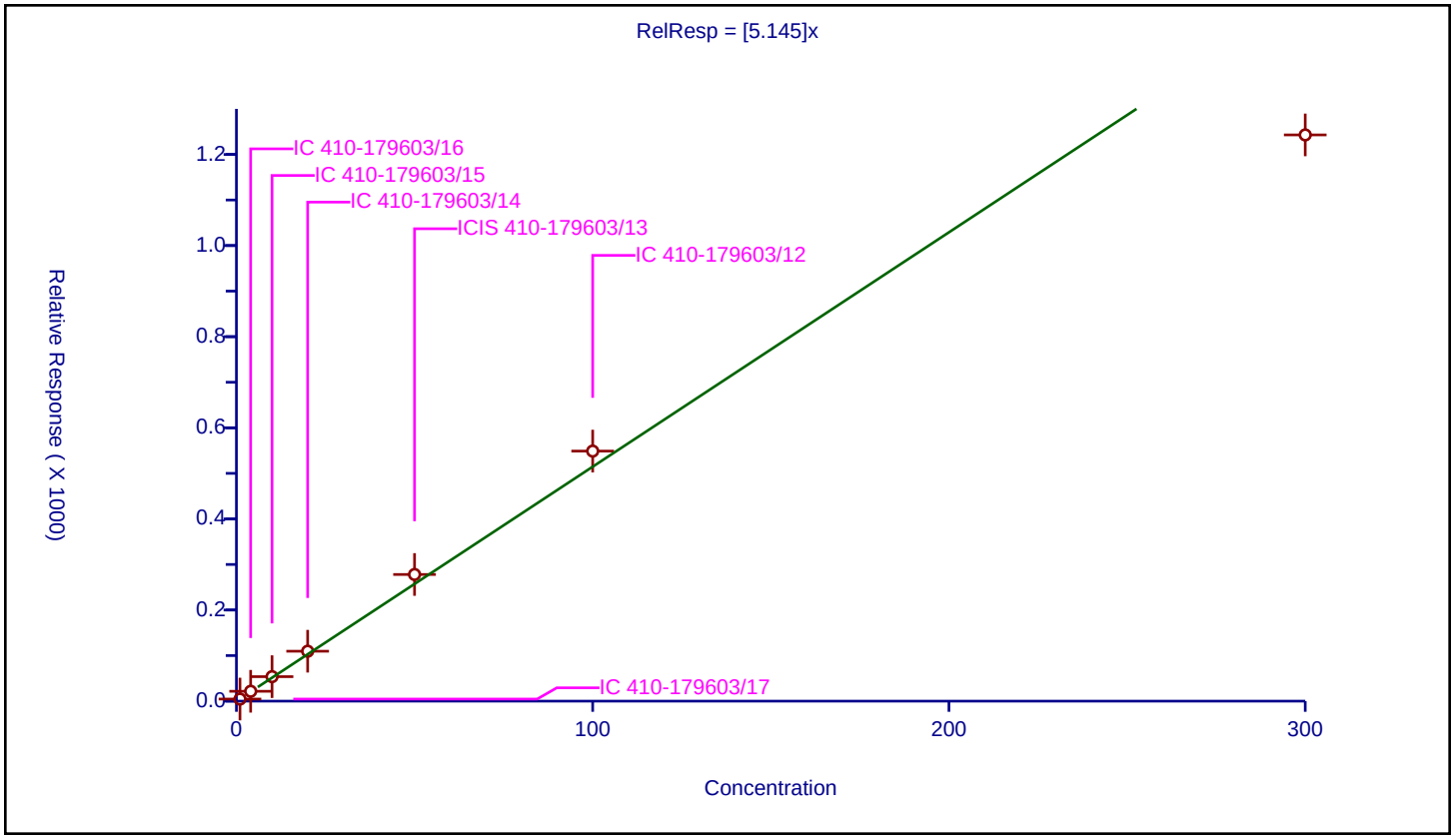
Curve Coefficients

Intercept:	0
Slope:	5.145

Error Coefficients

Standard Error:	5940000
Relative Standard Error:	10.8
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	4.56559	50.0	497986.0	4.56559	Y
2	IC 410-179603/16	4.0	21.634159	50.0	508335.0	5.40854	Y
3	IC 410-179603/15	10.0	53.738838	50.0	504622.0	5.373884	Y
4	IC 410-179603/14	20.0	109.568279	50.0	493281.0	5.478414	Y
5	ICIS 410-179603/13	50.0	278.022798	50.0	503019.0	5.560456	Y
6	IC 410-179603/12	100.0	548.851482	50.0	507132.0	5.488515	Y
7	IC 410-179603/11	300.0	1242.897312	50.0	526702.0	4.142991	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

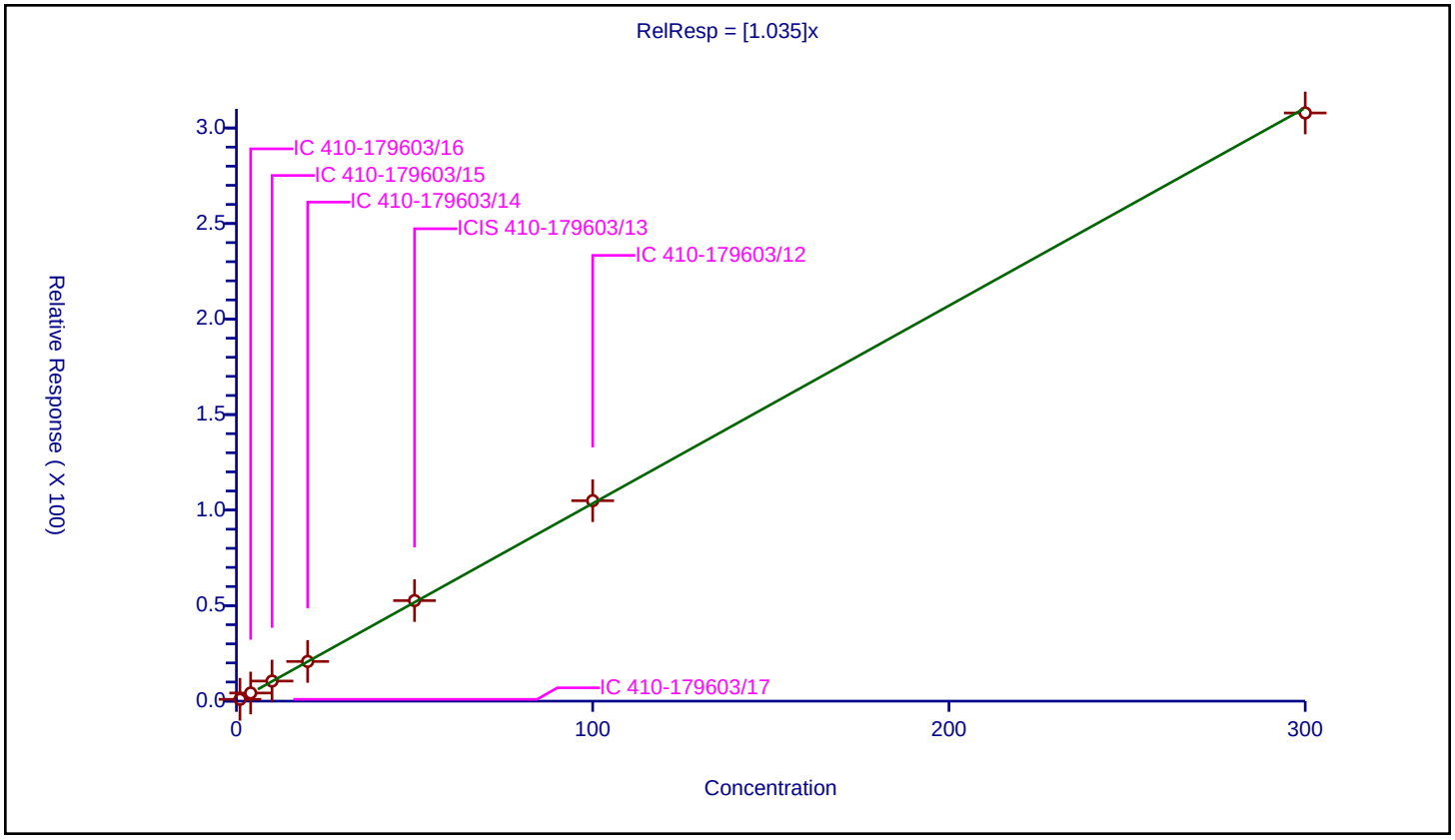
Curve Coefficients

Intercept:	0
Slope:	1.035

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.959565	50.0	497986.0	0.959565	Y
2	IC 410-179603/16	4.0	4.263035	50.0	508335.0	1.065759	Y
3	IC 410-179603/15	10.0	10.524115	50.0	504622.0	1.052412	Y
4	IC 410-179603/14	20.0	20.772541	50.0	493281.0	1.038627	Y
5	ICIS 410-179603/13	50.0	52.640755	50.0	503019.0	1.052815	Y
6	IC 410-179603/12	100.0	104.926922	50.0	507132.0	1.049269	Y
7	IC 410-179603/11	300.0	307.873522	50.0	526702.0	1.026245	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

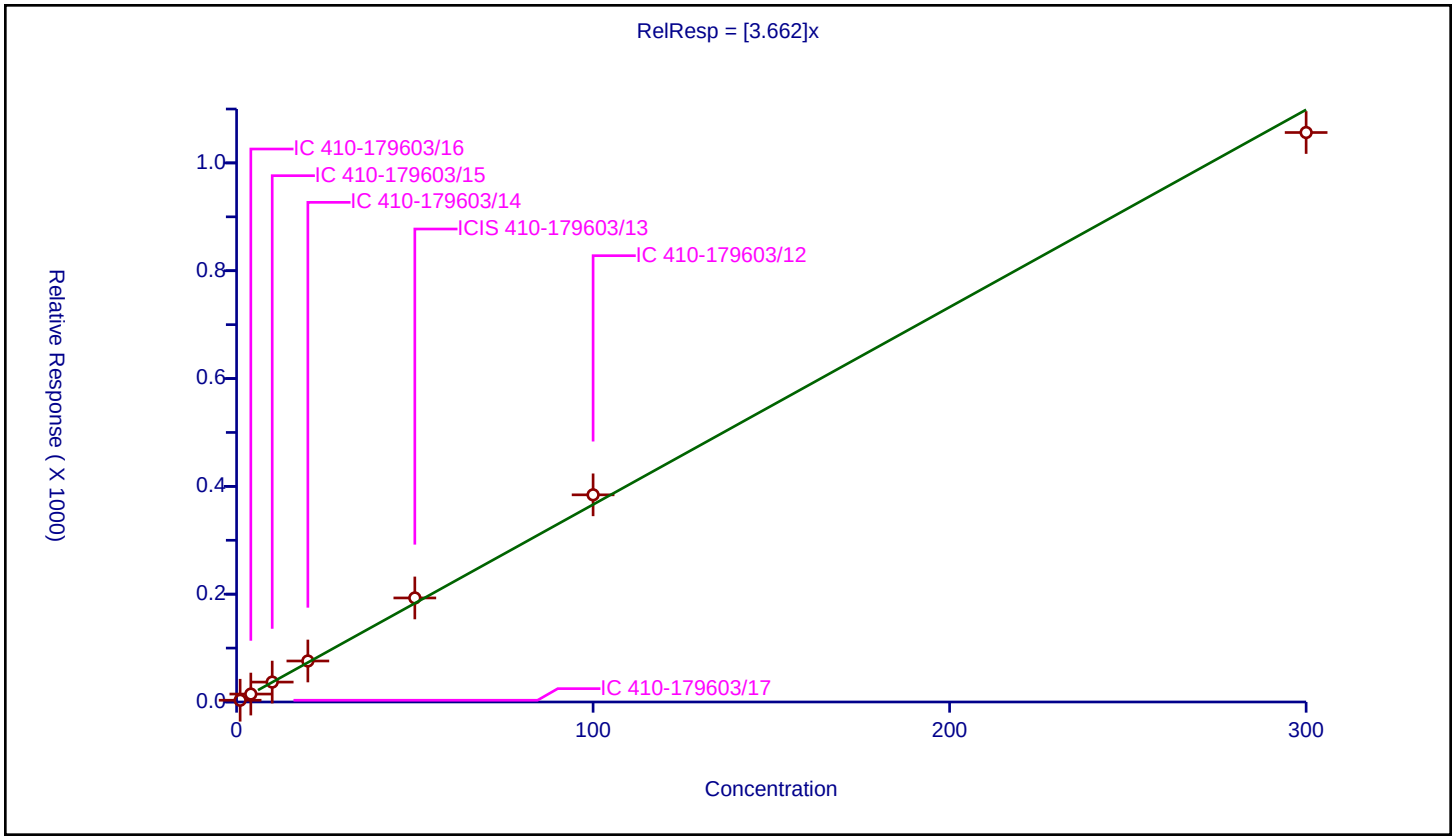
Curve Coefficients

Intercept:	0
Slope:	3.662

Error Coefficients

Standard Error:	4890000
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 410-179603/17	1.0	3.240051	50.0	497986.0	3.240051	Y
2	IC 410-179603/16	4.0	14.702804	50.0	508335.0	3.675701	Y
3	IC 410-179603/15	10.0	36.934973	50.0	504622.0	3.693497	Y
4	IC 410-179603/14	20.0	76.069826	50.0	493281.0	3.803491	Y
5	ICIS 410-179603/13	50.0	192.996587	50.0	503019.0	3.859932	Y
6	IC 410-179603/12	100.0	384.28634	50.0	507132.0	3.842863	Y
7	IC 410-179603/11	300.0	1056.416057	50.0	526702.0	3.521387	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

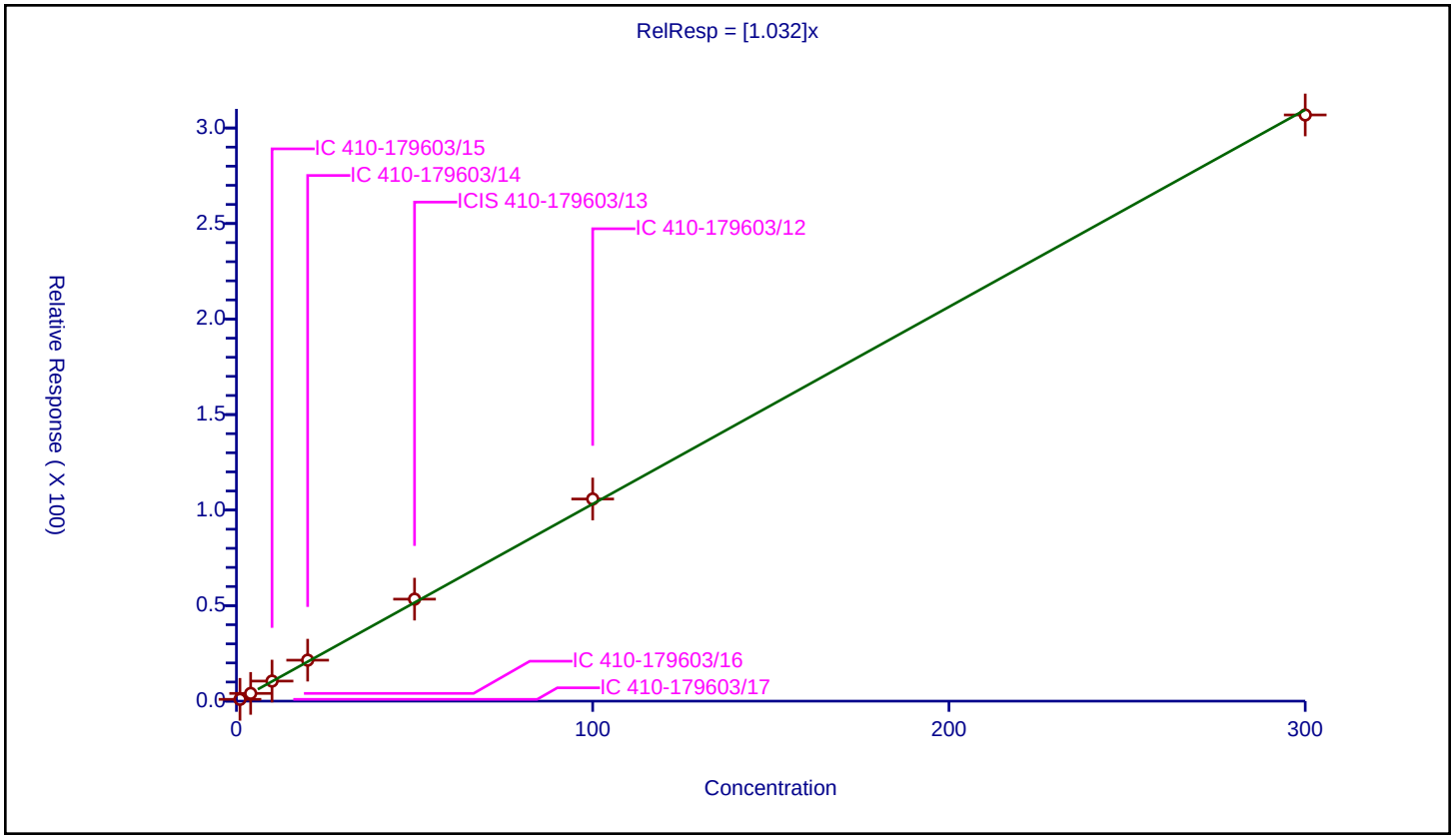
Curve Coefficients

Intercept:	0
Slope:	1.032

Error Coefficients

Standard Error:	1410000
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 410-179603/17	1.0	0.939986	50.0	497986.0	0.939986	Y
2	IC 410-179603/16	4.0	4.044479	50.0	508335.0	1.01112	Y
3	IC 410-179603/15	10.0	10.503208	50.0	504622.0	1.050321	Y
4	IC 410-179603/14	20.0	21.451668	50.0	493281.0	1.072583	Y
5	ICIS 410-179603/13	50.0	53.39182	50.0	503019.0	1.067836	Y
6	IC 410-179603/12	100.0	105.800364	50.0	507132.0	1.058004	Y
7	IC 410-179603/11	300.0	306.834035	50.0	526702.0	1.02278	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

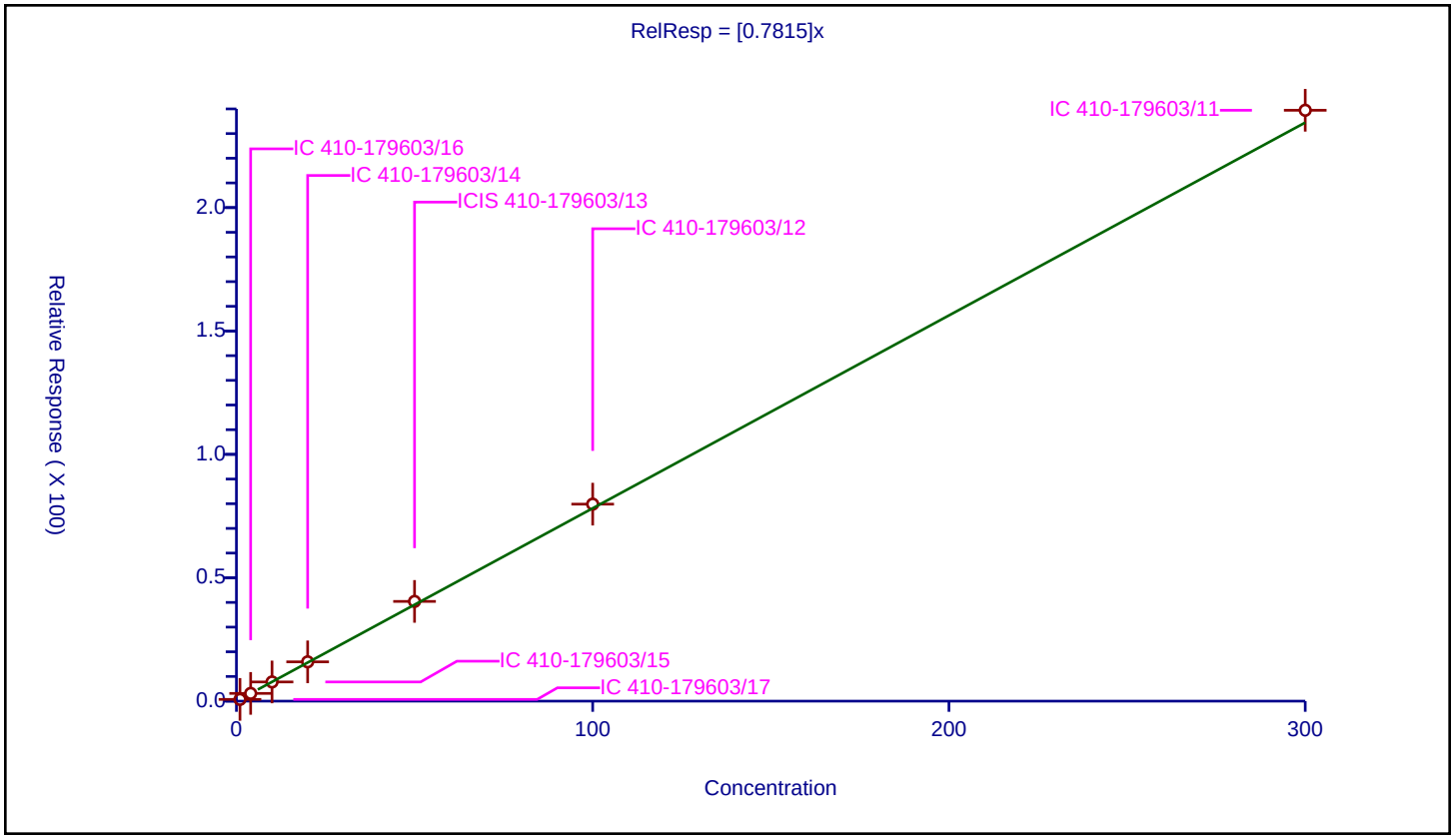
Curve Coefficients

Intercept:	0
Slope:	0.7815

Error Coefficients

Standard Error:	1100000
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 410-179603/17	1.0	0.707249	50.0	497986.0	0.707249	Y
2	IC 410-179603/16	4.0	3.138678	50.0	508335.0	0.78467	Y
3	IC 410-179603/15	10.0	7.774929	50.0	504622.0	0.777493	Y
4	IC 410-179603/14	20.0	15.928244	50.0	493281.0	0.796412	Y
5	ICIS 410-179603/13	50.0	40.415968	50.0	503019.0	0.808319	Y
6	IC 410-179603/12	100.0	79.835723	50.0	507132.0	0.798357	Y
7	IC 410-179603/11	300.0	239.440803	50.0	526702.0	0.798136	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

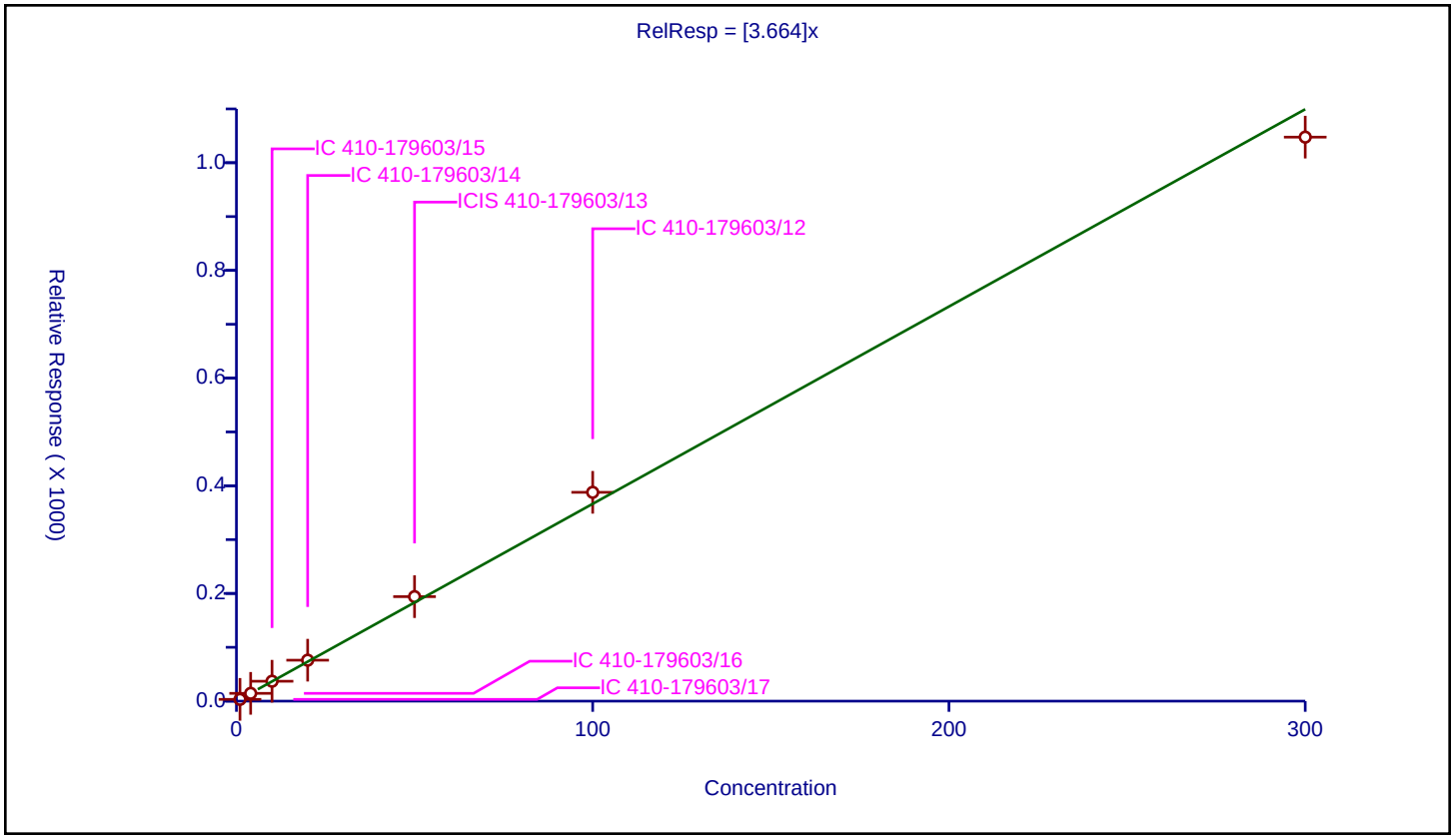
Curve Coefficients

Intercept:	0
Slope:	3.664

Error Coefficients

Standard Error:	4860000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	3.286237	50.0	497986.0	3.286237	Y
2	IC 410-179603/16	4.0	14.452969	50.0	508335.0	3.613242	Y
3	IC 410-179603/15	10.0	36.96559	50.0	504622.0	3.696559	Y
4	IC 410-179603/14	20.0	76.078239	50.0	493281.0	3.803912	Y
5	ICIS 410-179603/13	50.0	194.06424	50.0	503019.0	3.881285	Y
6	IC 410-179603/12	100.0	387.836697	50.0	507132.0	3.878367	Y
7	IC 410-179603/11	300.0	1047.560005	50.0	526702.0	3.491867	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

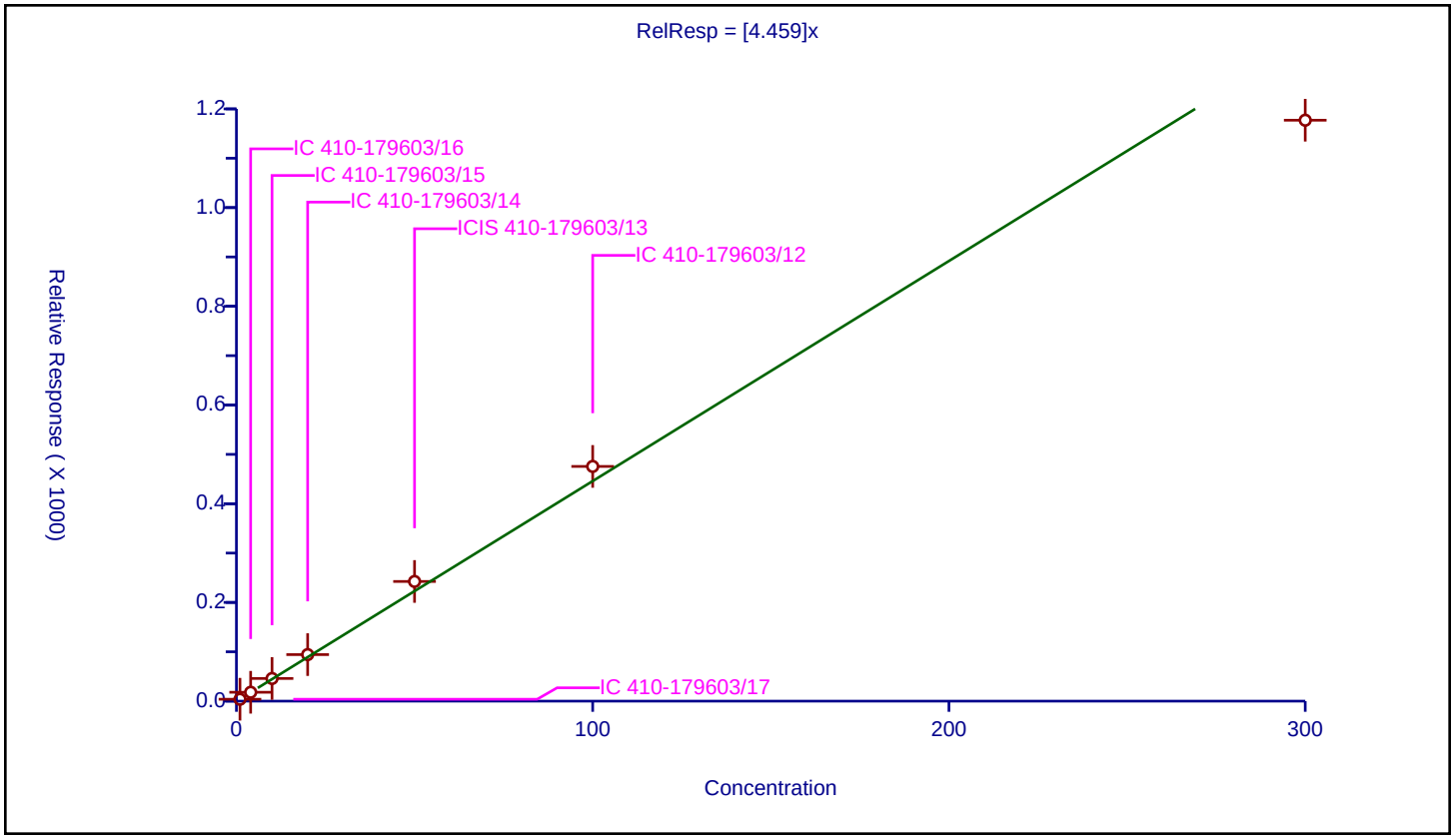
Curve Coefficients

Intercept:	0
Slope:	4.459

Error Coefficients

Standard Error:	5540000
Relative Standard Error:	8.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	3.882639	50.0	497986.0	3.882639	Y
2	IC 410-179603/16	4.0	17.970335	50.0	508335.0	4.492584	Y
3	IC 410-179603/15	10.0	45.923979	50.0	504622.0	4.592398	Y
4	IC 410-179603/14	20.0	94.325547	50.0	493281.0	4.716277	Y
5	ICIS 410-179603/13	50.0	242.498991	50.0	503019.0	4.84998	Y
6	IC 410-179603/12	100.0	475.564449	50.0	507132.0	4.755644	Y
7	IC 410-179603/11	300.0	1177.051255	50.0	526702.0	3.923504	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

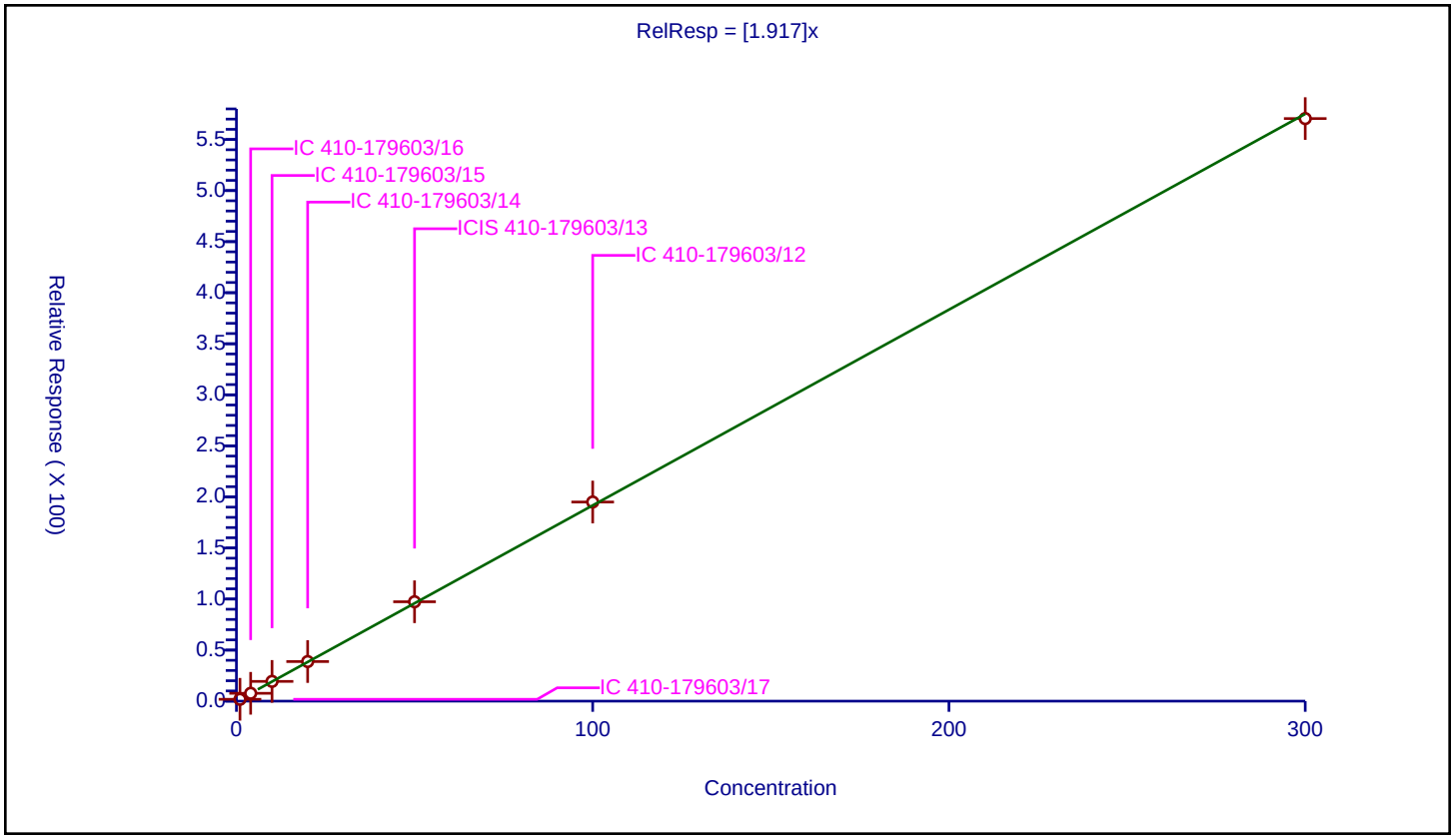
Curve Coefficients

Intercept:	0
Slope:	1.917

Error Coefficients

Standard Error:	2620000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.822742	50.0	497986.0	1.822742	Y
2	IC 410-179603/16	4.0	7.690893	50.0	508335.0	1.922723	Y
3	IC 410-179603/15	10.0	19.35201	50.0	504622.0	1.935201	Y
4	IC 410-179603/14	20.0	38.783067	50.0	493281.0	1.939153	Y
5	ICIS 410-179603/13	50.0	97.340757	50.0	503019.0	1.946815	Y
6	IC 410-179603/12	100.0	195.002386	50.0	507132.0	1.950024	Y
7	IC 410-179603/11	300.0	570.510459	50.0	526702.0	1.901702	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

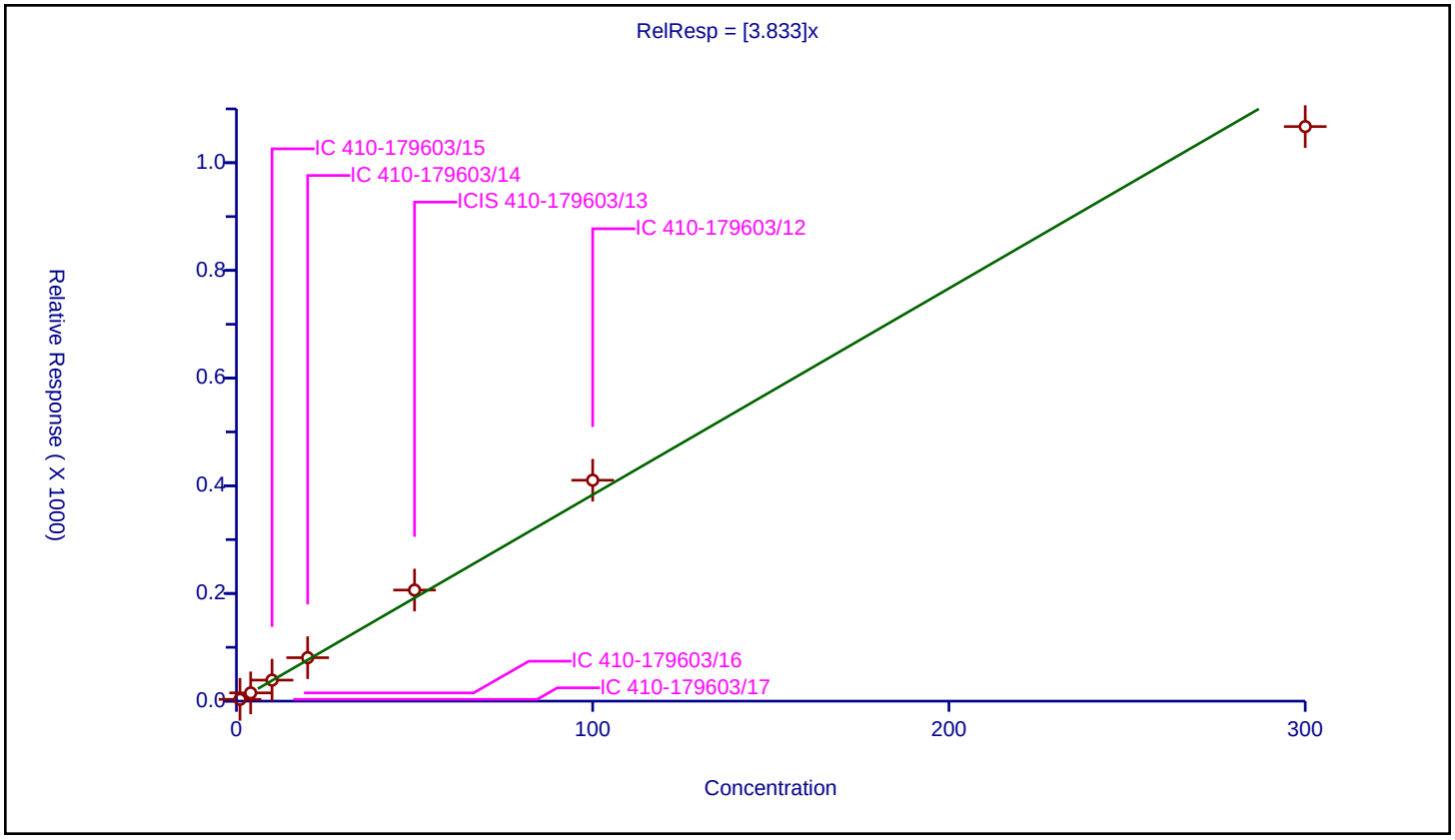
Curve Coefficients

Intercept:	0
Slope:	3.833

Error Coefficients

Standard Error:	4980000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	3.273887	50.0	497986.0	3.273887	Y
2	IC 410-179603/16	4.0	15.32572	50.0	508335.0	3.83143	Y
3	IC 410-179603/15	10.0	39.035456	50.0	504622.0	3.903546	Y
4	IC 410-179603/14	20.0	80.704304	50.0	493281.0	4.035215	Y
5	ICIS 410-179603/13	50.0	206.321133	50.0	503019.0	4.126423	Y
6	IC 410-179603/12	100.0	410.328179	50.0	507132.0	4.103282	Y
7	IC 410-179603/11	300.0	1067.142046	50.0	526702.0	3.55714	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

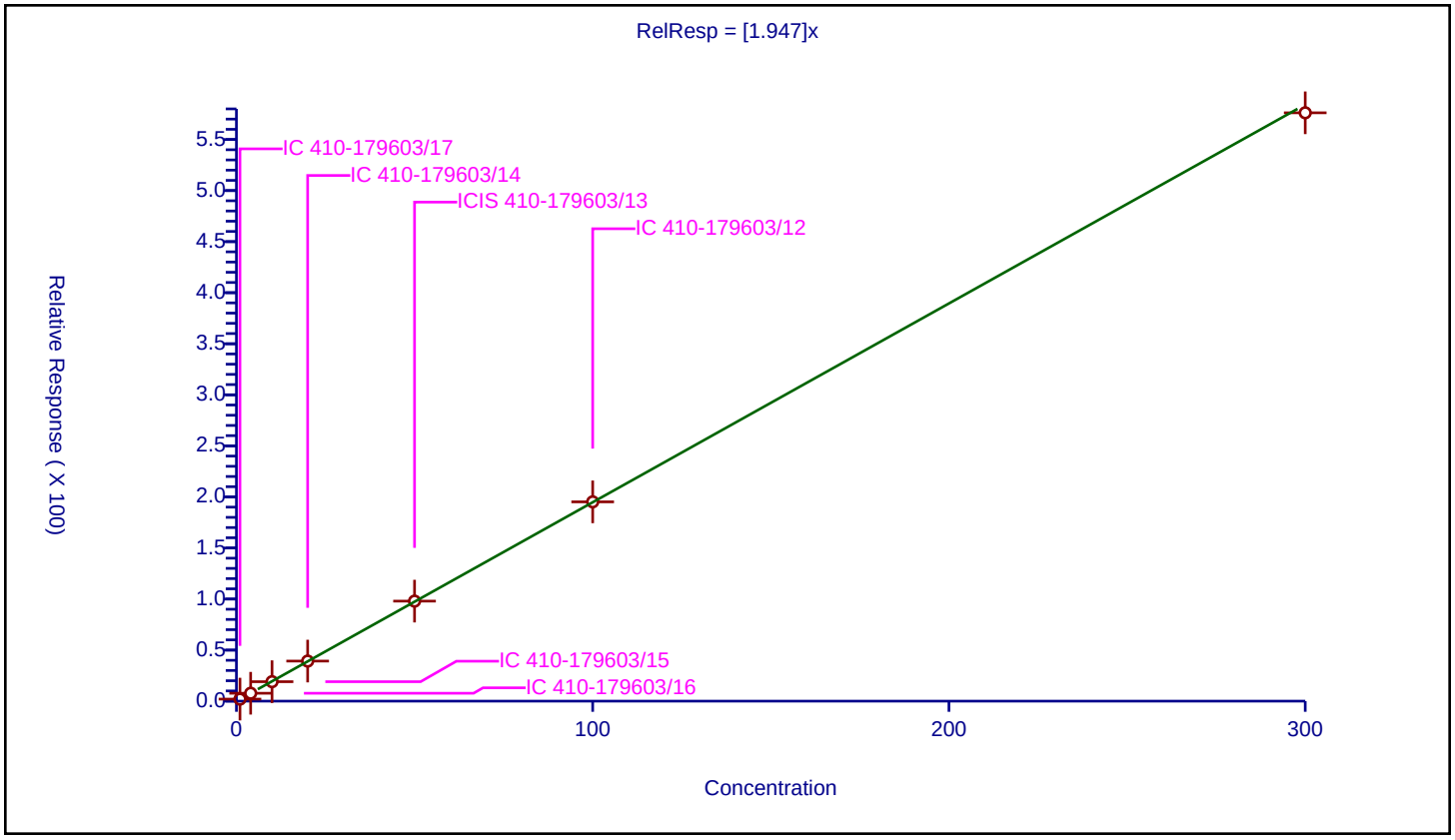
Curve Coefficients

Intercept:	0
Slope:	1.947

Error Coefficients

Standard Error:	2640000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.997345	50.0	497986.0	1.997345	Y
2	IC 410-179603/16	4.0	7.74204	50.0	508335.0	1.93551	Y
3	IC 410-179603/15	10.0	19.057829	50.0	504622.0	1.905783	Y
4	IC 410-179603/14	20.0	39.238385	50.0	493281.0	1.961919	Y
5	ICIS 410-179603/13	50.0	97.945306	50.0	503019.0	1.958906	Y
6	IC 410-179603/12	100.0	195.174925	50.0	507132.0	1.951749	Y
7	IC 410-179603/11	300.0	576.154543	50.0	526702.0	1.920515	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

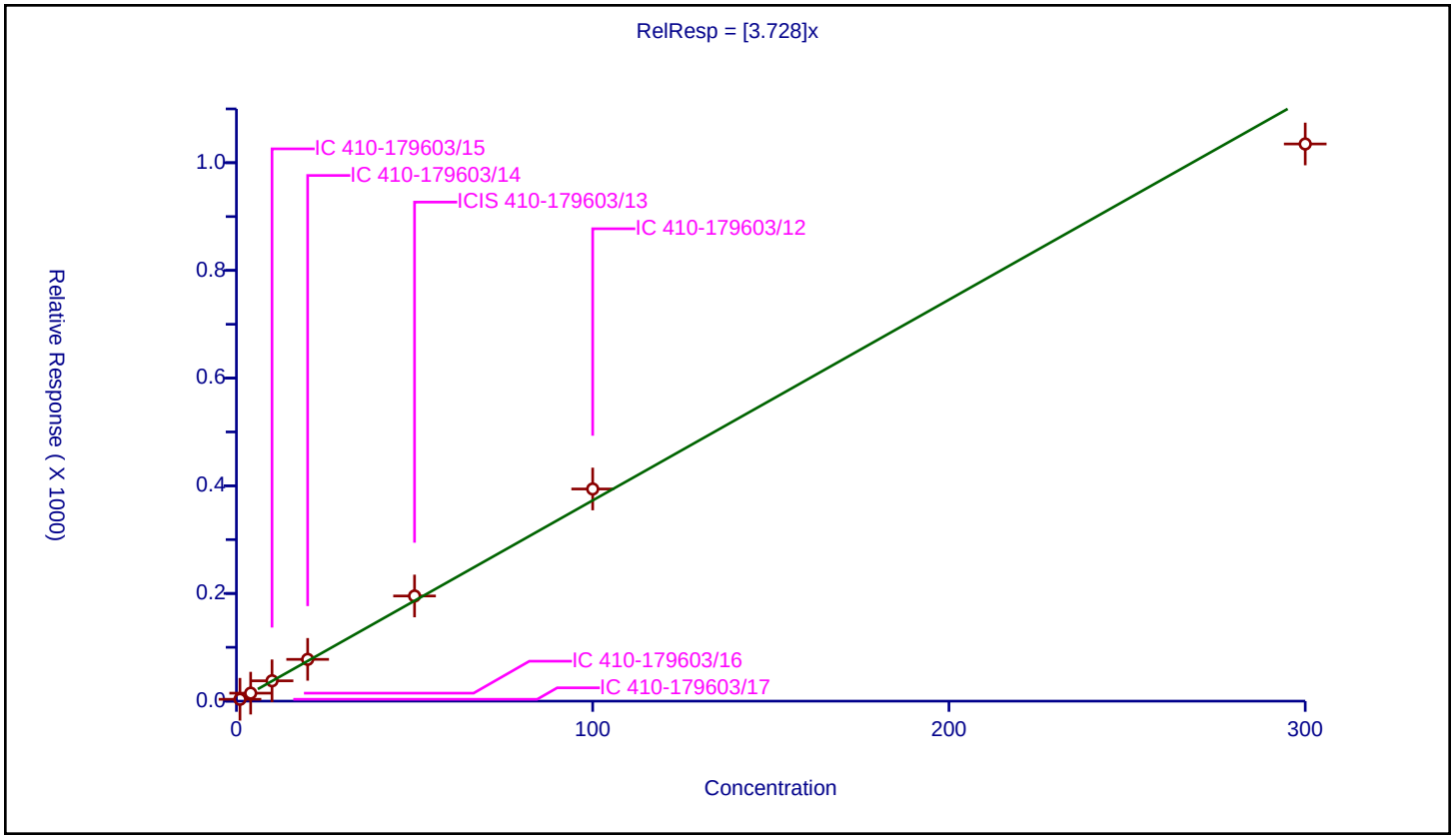
Curve Coefficients

Intercept:	0
Slope:	3.728

Error Coefficients

Standard Error:	4820000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	3.434233	50.0	497986.0	3.434233	Y
2	IC 410-179603/16	4.0	14.836673	50.0	508335.0	3.709168	Y
3	IC 410-179603/15	10.0	37.758659	50.0	504622.0	3.775866	Y
4	IC 410-179603/14	20.0	77.595833	50.0	493281.0	3.879792	Y
5	ICIS 410-179603/13	50.0	195.304551	50.0	503019.0	3.906091	Y
6	IC 410-179603/12	100.0	394.016055	50.0	507132.0	3.940161	Y
7	IC 410-179603/11	300.0	1034.845321	50.0	526702.0	3.449484	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

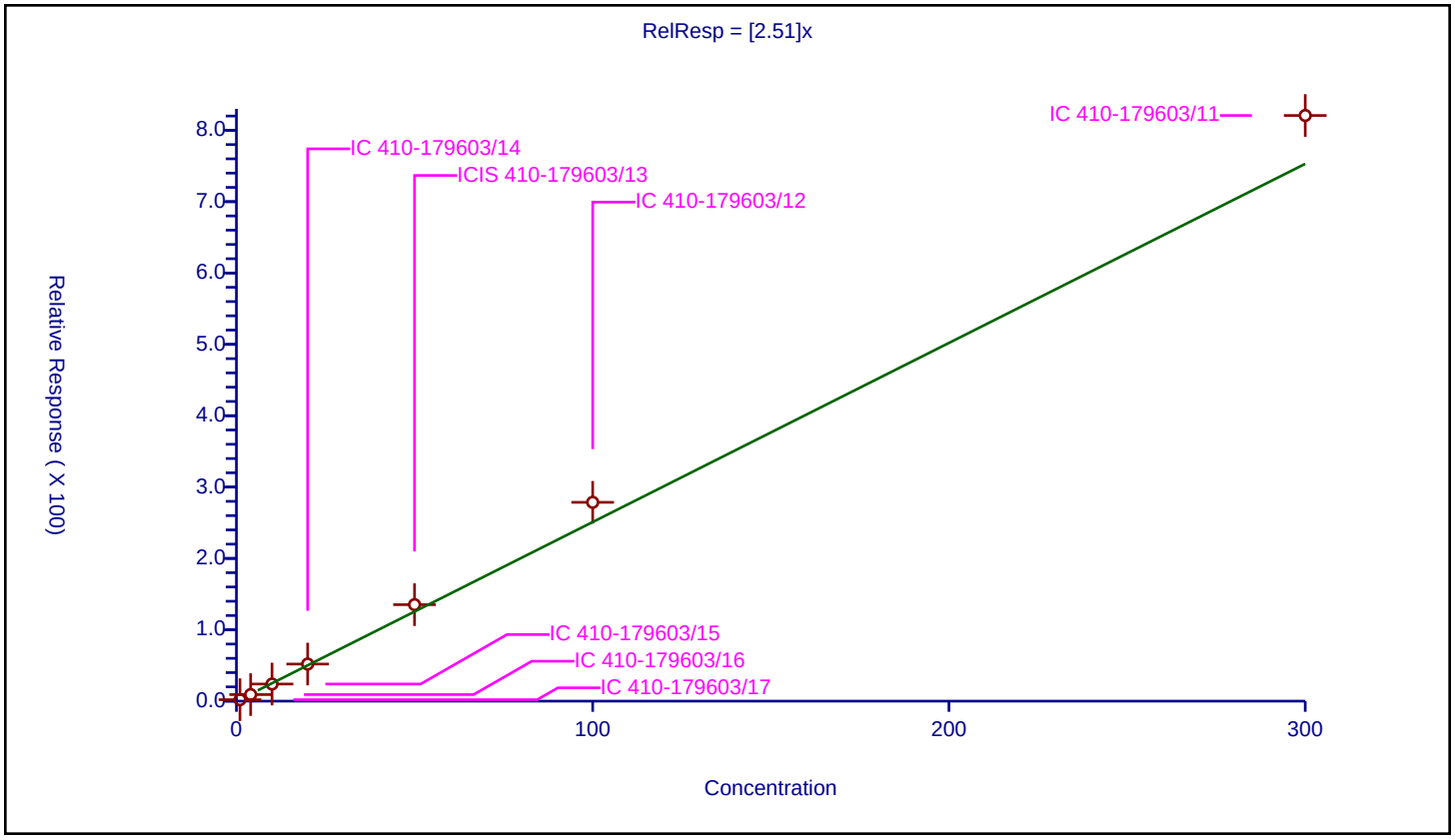
Curve Coefficients

Intercept:	0
Slope:	2.51

Error Coefficients

Standard Error:	3760000
Relative Standard Error:	10.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	2.041624	50.0	497986.0	2.041624	Y
2	IC 410-179603/16	4.0	9.216855	50.0	508335.0	2.304214	Y
3	IC 410-179603/15	10.0	23.983596	50.0	504622.0	2.39836	Y
4	IC 410-179603/14	20.0	51.978791	50.0	493281.0	2.59894	Y
5	ICIS 410-179603/13	50.0	135.219544	50.0	503019.0	2.704391	Y
6	IC 410-179603/12	100.0	278.631599	50.0	507132.0	2.786316	Y
7	IC 410-179603/11	300.0	820.756329	50.0	526702.0	2.735854	Y



Calibration / 1,3-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

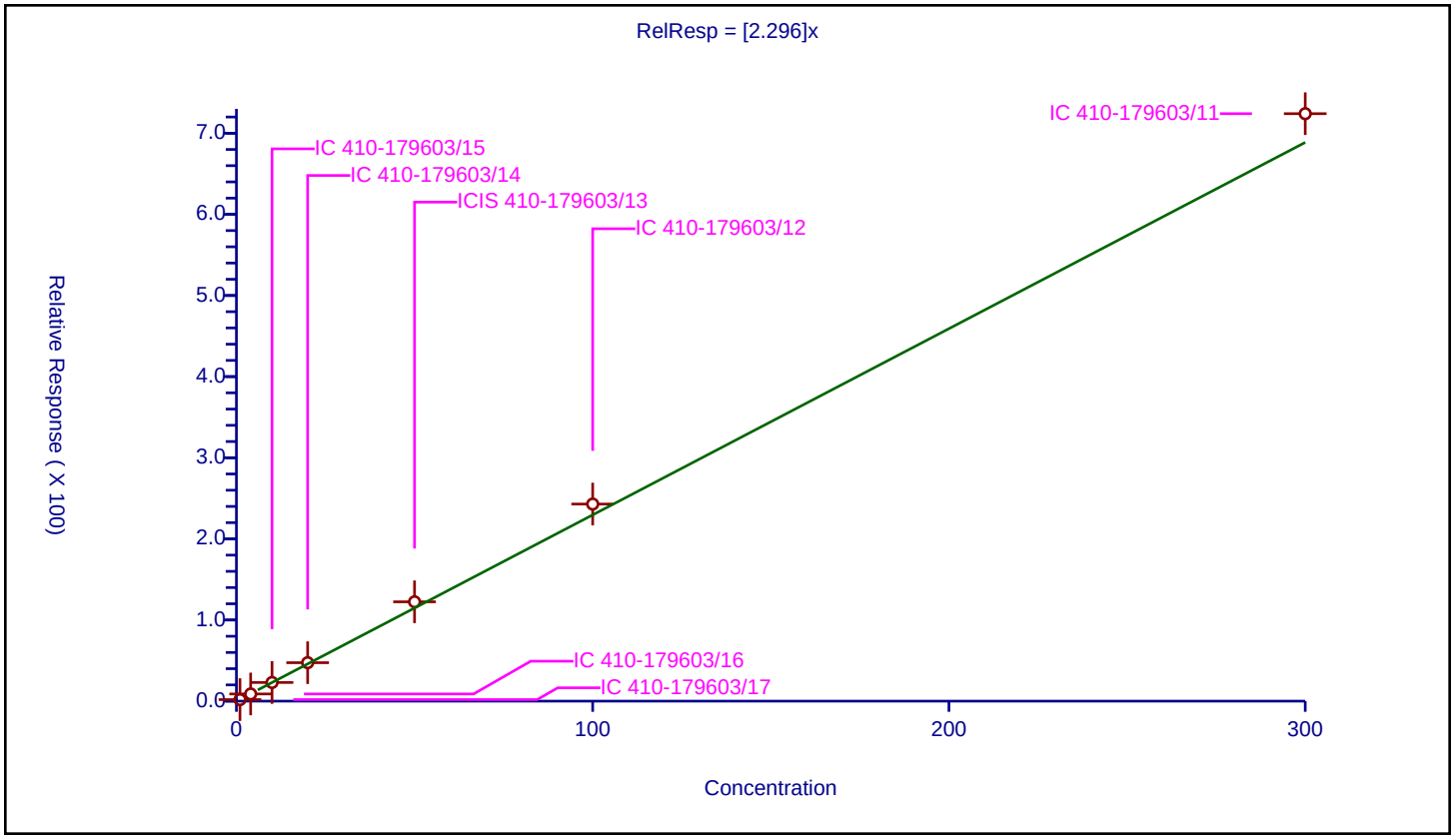
Curve Coefficients

Intercept:	0
Slope:	2.296

Error Coefficients

Standard Error:	3320000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.899853	50.0	497986.0	1.899853	Y
2	IC 410-179603/16	4.0	8.831676	50.0	508335.0	2.207919	Y
3	IC 410-179603/15	10.0	22.998403	50.0	504622.0	2.29984	Y
4	IC 410-179603/14	20.0	47.394183	50.0	493281.0	2.369709	Y
5	ICIS 410-179603/13	50.0	122.436031	50.0	503019.0	2.448721	Y
6	IC 410-179603/12	100.0	242.921665	50.0	507132.0	2.429217	Y
7	IC 410-179603/11	300.0	724.104427	50.0	526702.0	2.413681	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

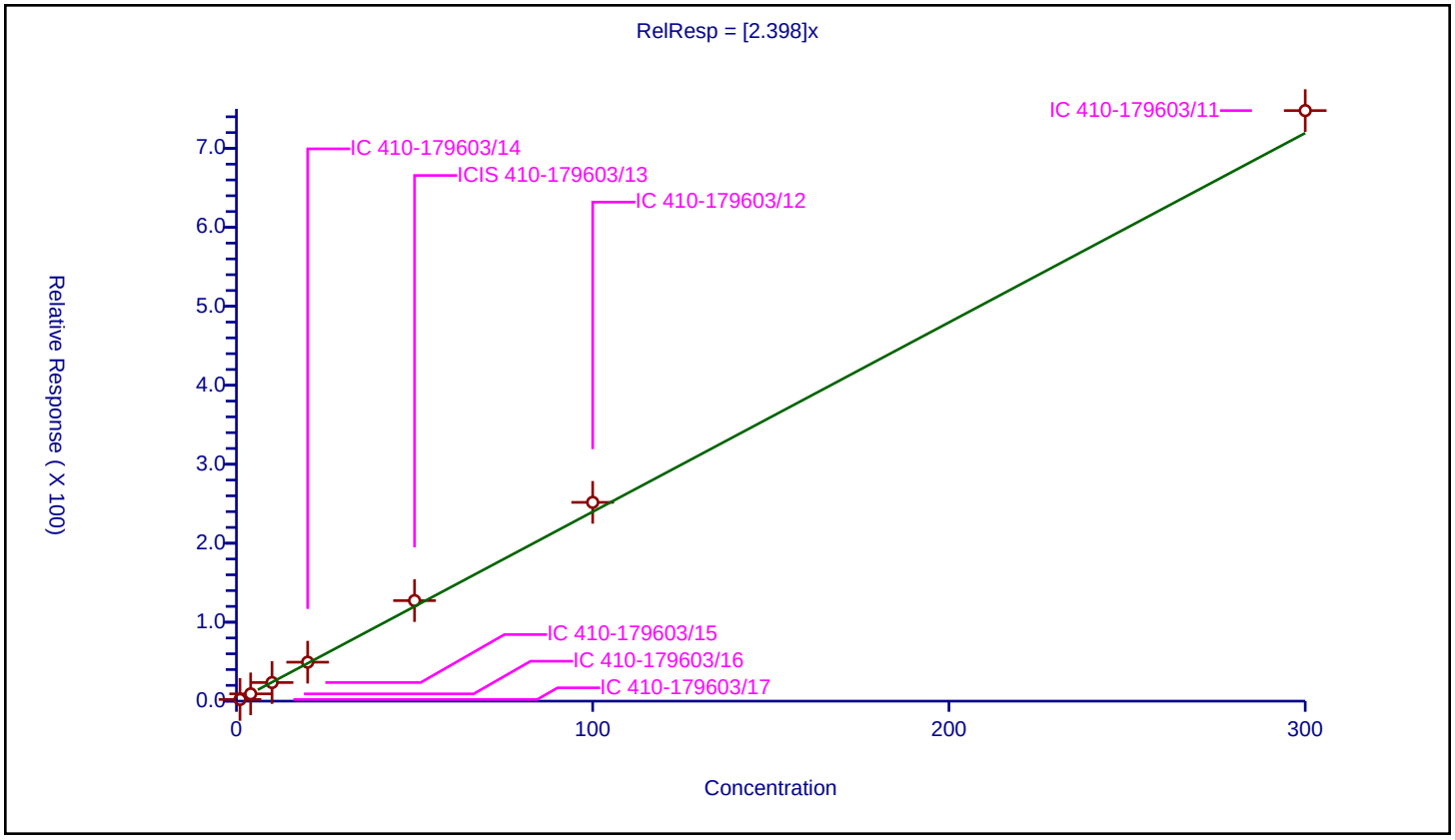
Curve Coefficients

Intercept:	0
Slope:	2.398

Error Coefficients

Standard Error:	3430000
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 410-179603/17	1.0	2.101766	50.0	497986.0	2.101766	Y
2	IC 410-179603/16	4.0	9.227576	50.0	508335.0	2.306894	Y
3	IC 410-179603/15	10.0	23.542969	50.0	504622.0	2.354297	Y
4	IC 410-179603/14	20.0	49.331922	50.0	493281.0	2.466596	Y
5	ICIS 410-179603/13	50.0	127.292707	50.0	503019.0	2.545854	Y
6	IC 410-179603/12	100.0	251.715924	50.0	507132.0	2.517159	Y
7	IC 410-179603/11	300.0	747.841379	50.0	526702.0	2.492805	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

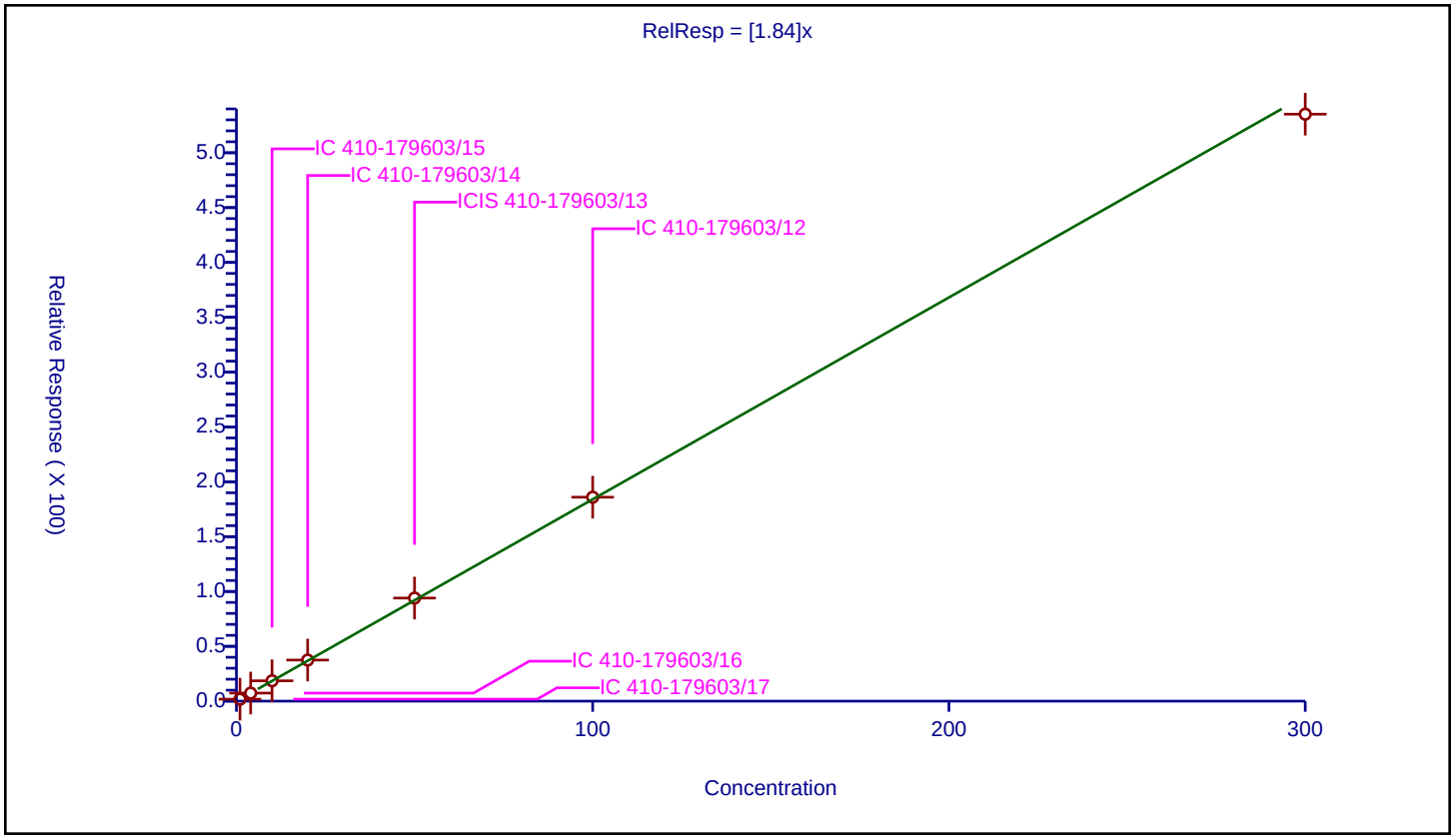
Curve Coefficients

Intercept:	0
Slope:	1.84

Error Coefficients

Standard Error:	2460000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.79483	50.0	497986.0	1.79483	Y
2	IC 410-179603/16	4.0	7.344468	50.0	508335.0	1.836117	Y
3	IC 410-179603/15	10.0	18.552303	50.0	504622.0	1.85523	Y
4	IC 410-179603/14	20.0	37.456338	50.0	493281.0	1.872817	Y
5	ICIS 410-179603/13	50.0	94.002115	50.0	503019.0	1.880042	Y
6	IC 410-179603/12	100.0	185.951685	50.0	507132.0	1.859517	Y
7	IC 410-179603/11	300.0	535.195139	50.0	526702.0	1.783984	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

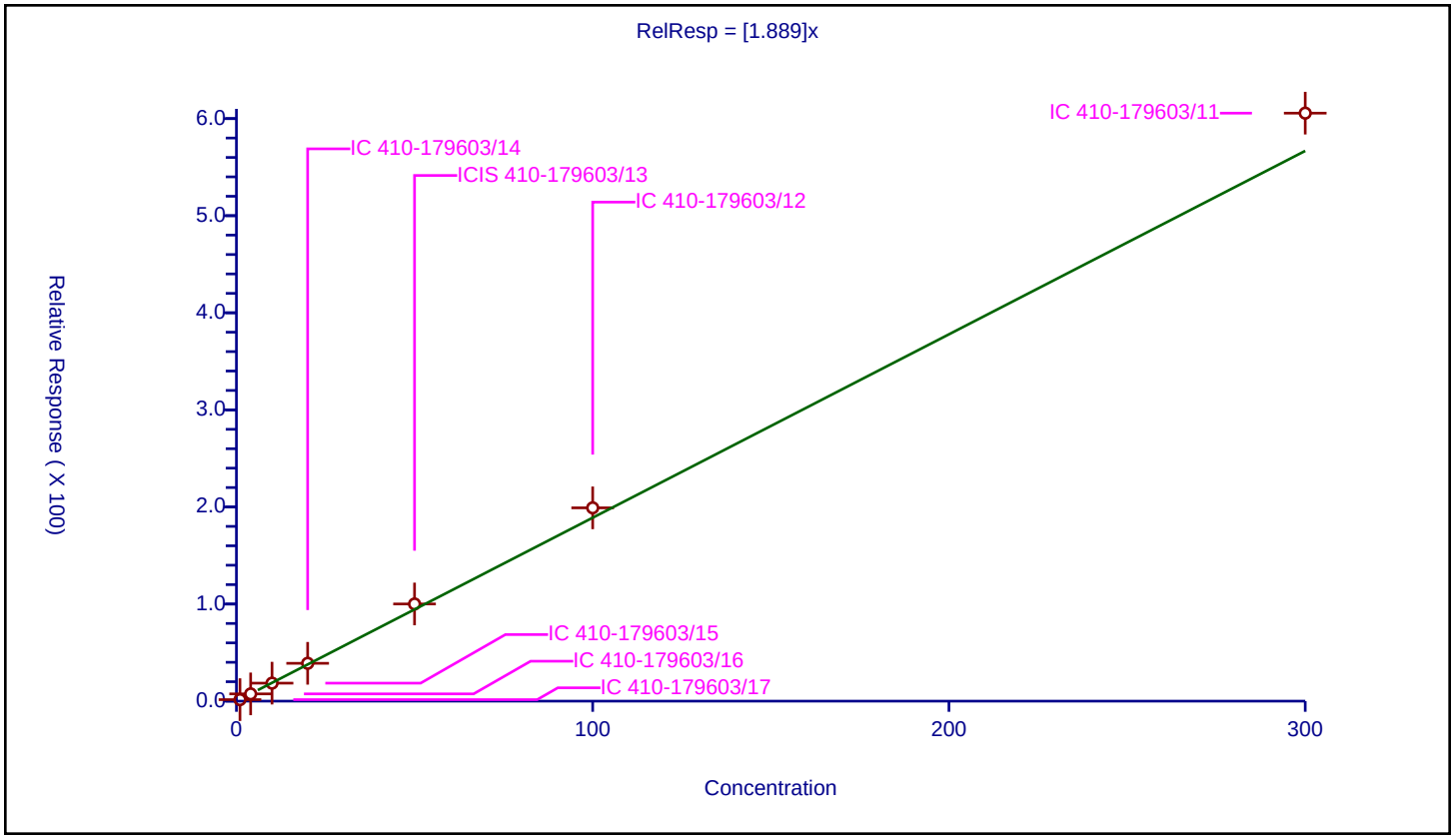
Curve Coefficients

Intercept:	0
Slope:	1.889

Error Coefficients

Standard Error:	2770000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.541911	50.0	497986.0	1.541911	Y
2	IC 410-179603/16	4.0	7.476664	50.0	508335.0	1.869166	Y
3	IC 410-179603/15	10.0	18.520298	50.0	504622.0	1.85203	Y
4	IC 410-179603/14	20.0	38.979203	50.0	493281.0	1.94896	Y
5	ICIS 410-179603/13	50.0	100.093933	50.0	503019.0	2.001879	Y
6	IC 410-179603/12	100.0	199.099643	50.0	507132.0	1.990996	Y
7	IC 410-179603/11	300.0	605.600795	50.0	526702.0	2.018669	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

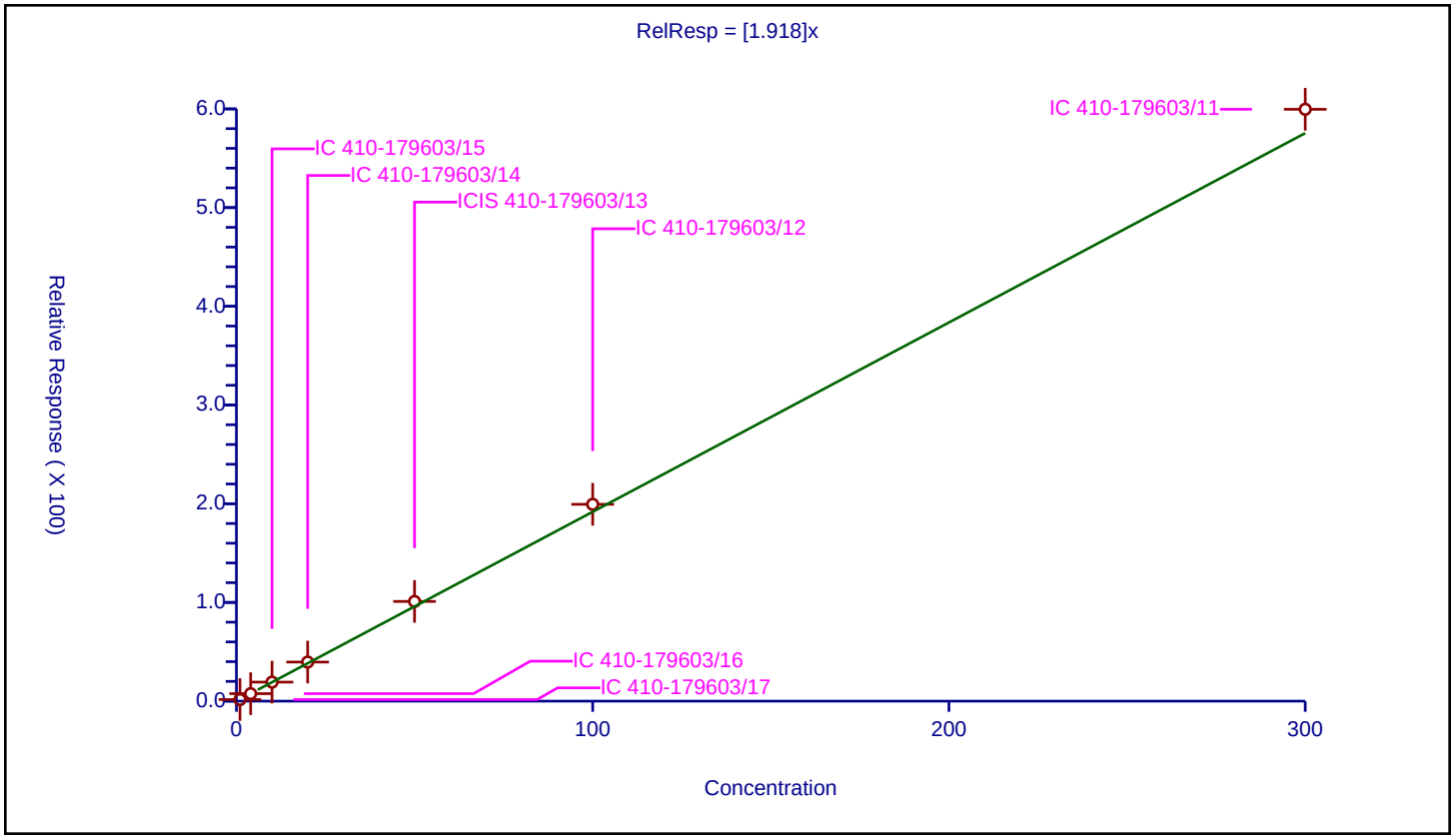
Curve Coefficients

Intercept:	0
Slope:	1.918

Error Coefficients

Standard Error:	2740000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.609383	50.0	497986.0	1.609383	Y
2	IC 410-179603/16	4.0	7.58191	50.0	508335.0	1.895477	Y
3	IC 410-179603/15	10.0	19.283939	50.0	504622.0	1.928394	Y
4	IC 410-179603/14	20.0	39.605519	50.0	493281.0	1.980276	Y
5	ICIS 410-179603/13	50.0	101.013779	50.0	503019.0	2.020276	Y
6	IC 410-179603/12	100.0	199.423523	50.0	507132.0	1.994235	Y
7	IC 410-179603/11	300.0	599.59104	50.0	526702.0	1.998637	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

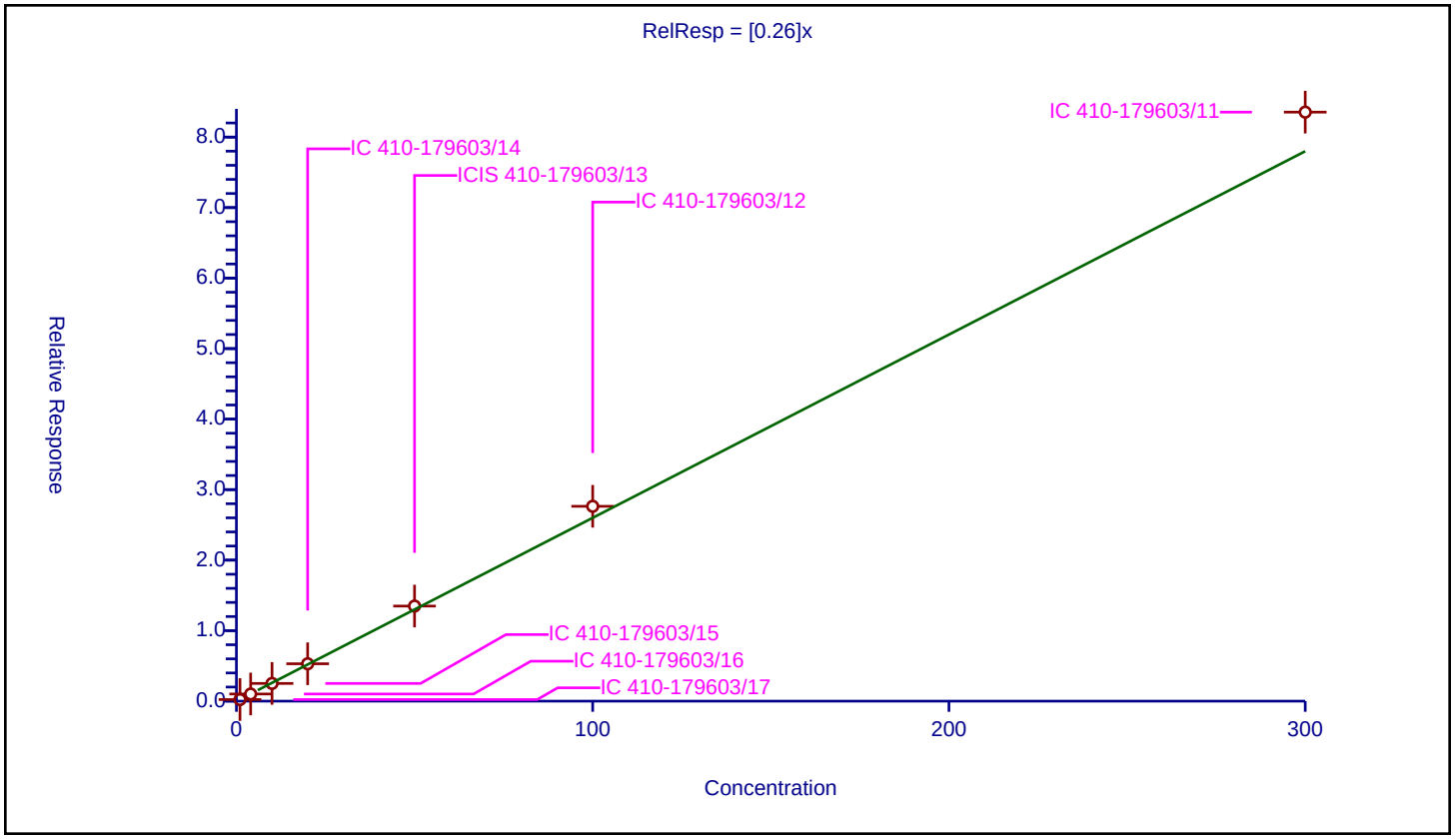
Curve Coefficients

Intercept:	0
Slope:	0.26

Error Coefficients

Standard Error:	382000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.225408	50.0	497986.0	0.225408	Y
2	IC 410-179603/16	4.0	1.015669	50.0	508335.0	0.253917	Y
3	IC 410-179603/15	10.0	2.508809	50.0	504622.0	0.250881	Y
4	IC 410-179603/14	20.0	5.300833	50.0	493281.0	0.265042	Y
5	ICIS 410-179603/13	50.0	13.485773	50.0	503019.0	0.269715	Y
6	IC 410-179603/12	100.0	27.634423	50.0	507132.0	0.276344	Y
7	IC 410-179603/11	300.0	83.538035	50.0	526702.0	0.27846	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

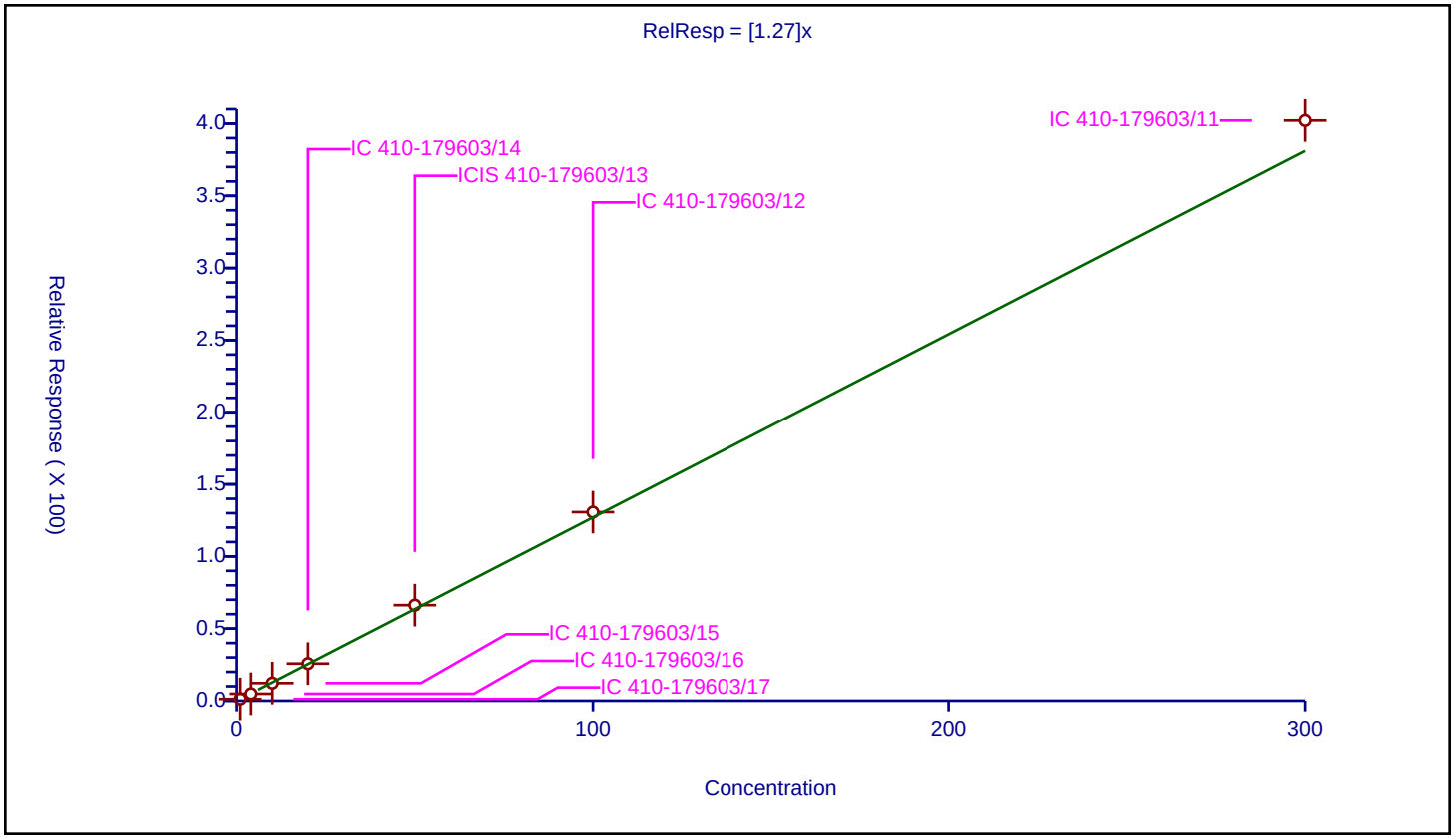
Curve Coefficients

Intercept:	0
Slope:	1.27

Error Coefficients

Standard Error:	1840000
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 410-179603/17	1.0	1.206158	50.0	497986.0	1.206158	Y
2	IC 410-179603/16	4.0	4.823984	50.0	508335.0	1.205996	Y
3	IC 410-179603/15	10.0	12.217264	50.0	504622.0	1.221726	Y
4	IC 410-179603/14	20.0	25.723979	50.0	493281.0	1.286199	Y
5	ICIS 410-179603/13	50.0	66.266284	50.0	503019.0	1.325326	Y
6	IC 410-179603/12	100.0	130.699897	50.0	507132.0	1.306999	Y
7	IC 410-179603/11	300.0	402.199726	50.0	526702.0	1.340666	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

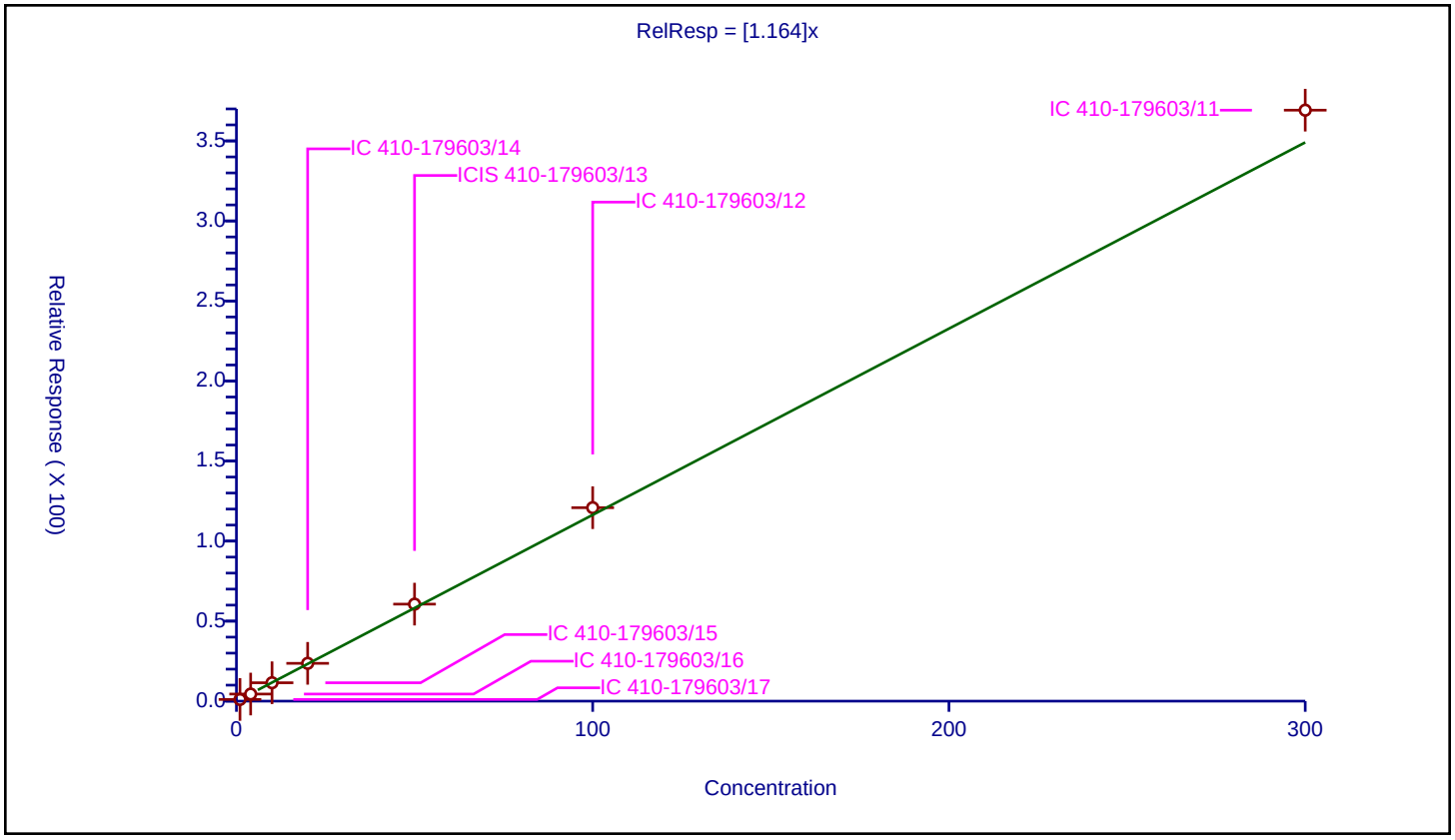
Curve Coefficients

Intercept:	0
Slope:	1.164

Error Coefficients

Standard Error:	1690000
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 410-179603/17	1.0	1.055853	50.0	497986.0	1.055853	Y
2	IC 410-179603/16	4.0	4.429166	50.0	508335.0	1.107291	Y
3	IC 410-179603/15	10.0	11.489987	50.0	504622.0	1.148999	Y
4	IC 410-179603/14	20.0	23.626087	50.0	493281.0	1.181304	Y
5	ICIS 410-179603/13	50.0	60.614112	50.0	503019.0	1.212282	Y
6	IC 410-179603/12	100.0	120.867052	50.0	507132.0	1.208671	Y
7	IC 410-179603/11	300.0	369.193111	50.0	526702.0	1.230644	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

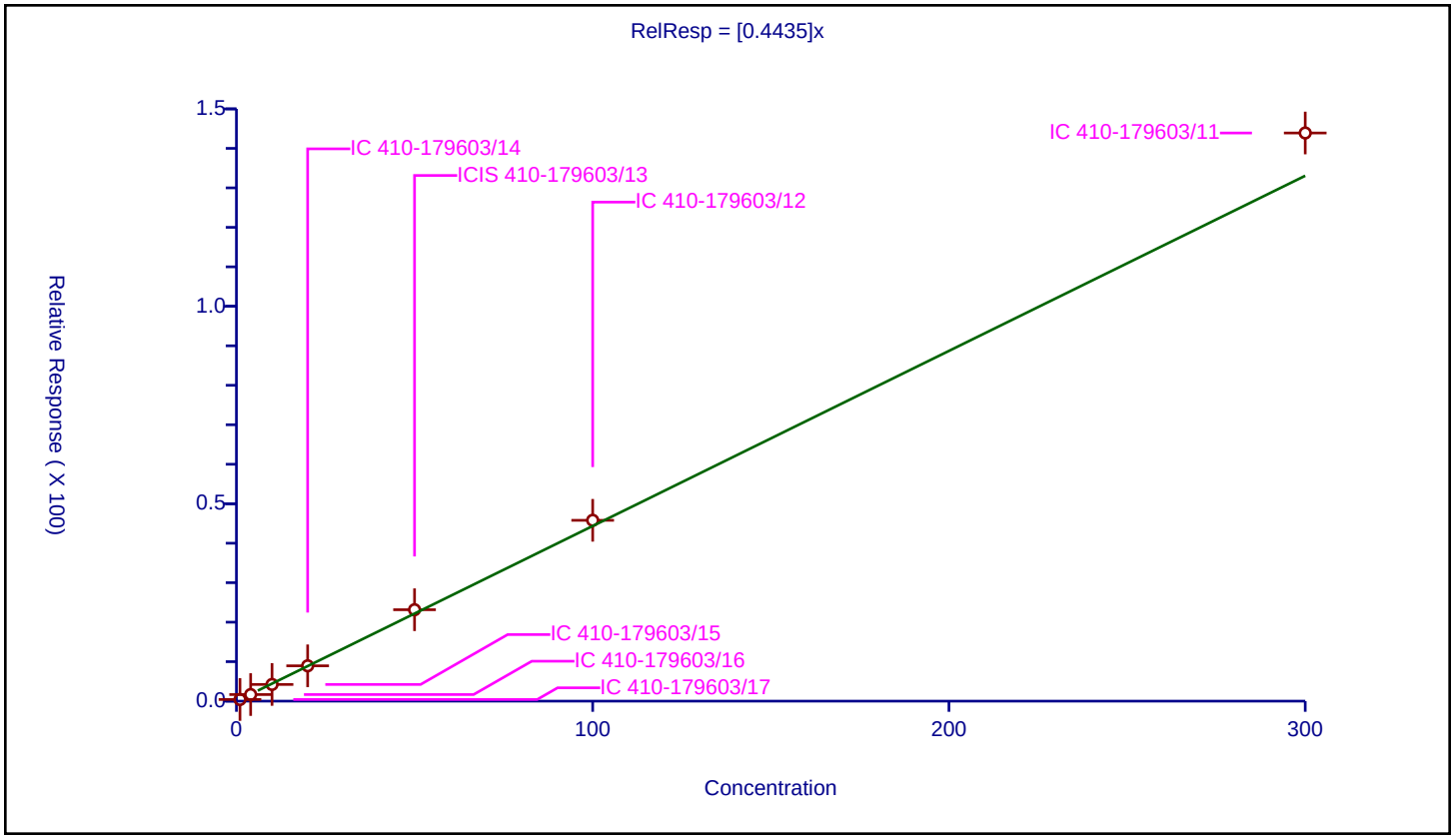
Curve Coefficients

Intercept:	0
Slope:	0.4435

Error Coefficients

Standard Error:	655000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	0.416277	50.0	497986.0	0.416277	Y
2	IC 410-179603/16	4.0	1.66888	50.0	508335.0	0.41722	Y
3	IC 410-179603/15	10.0	4.229205	50.0	504622.0	0.422921	Y
4	IC 410-179603/14	20.0	8.951085	50.0	493281.0	0.447554	Y
5	ICIS 410-179603/13	50.0	23.153897	50.0	503019.0	0.463078	Y
6	IC 410-179603/12	100.0	45.800403	50.0	507132.0	0.458004	Y
7	IC 410-179603/11	300.0	143.897023	50.0	526702.0	0.479657	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

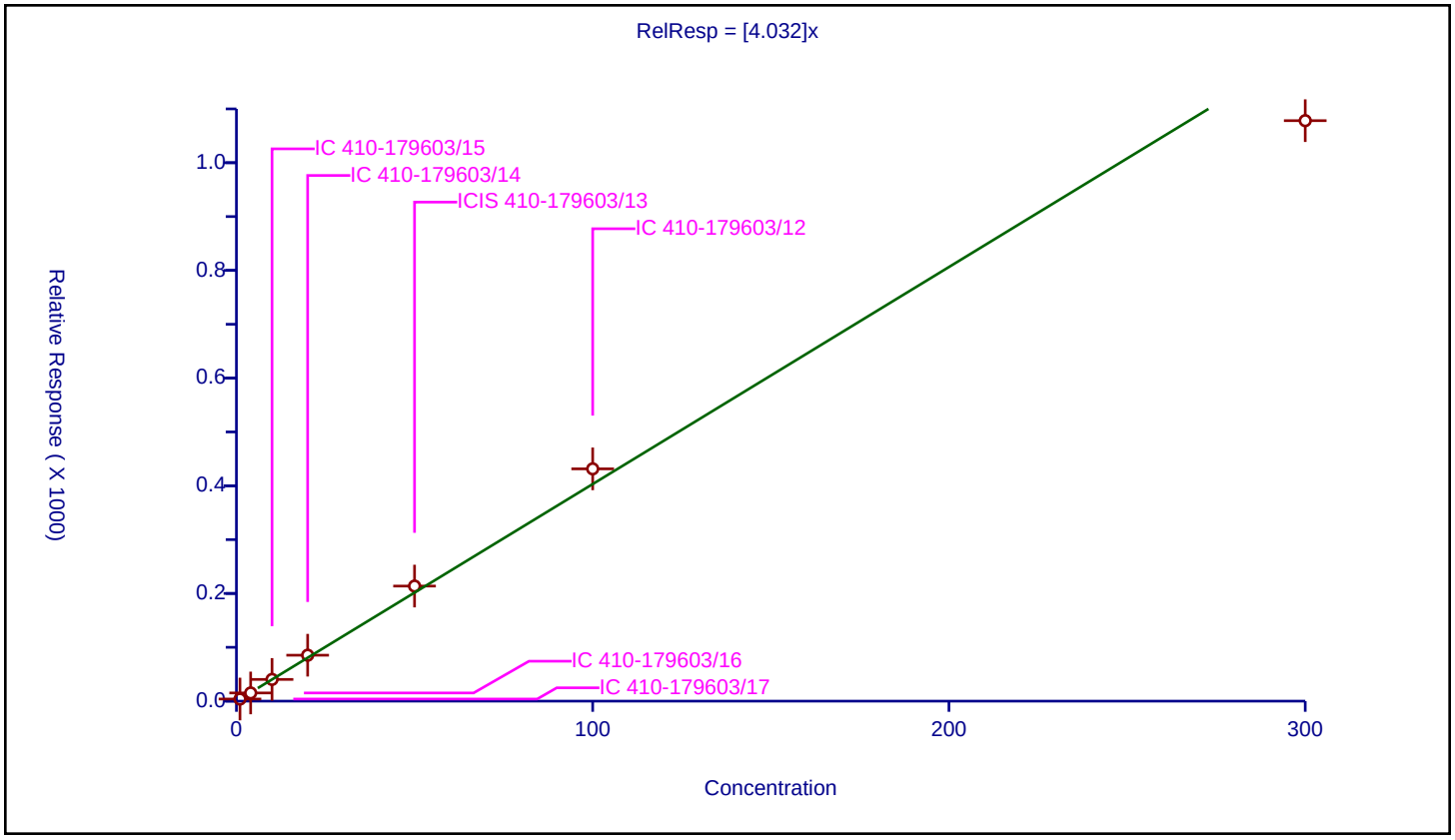
Curve Coefficients

Intercept:	0
Slope:	4.032

Error Coefficients

Standard Error:	5060000
Relative Standard Error:	6.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	3.932841	50.0	497986.0	3.932841	Y
2	IC 410-179603/16	4.0	15.220868	50.0	508335.0	3.805217	Y
3	IC 410-179603/15	10.0	40.361498	50.0	504622.0	4.03615	Y
4	IC 410-179603/14	20.0	85.289723	50.0	493281.0	4.264486	Y
5	ICIS 410-179603/13	50.0	213.721649	50.0	503019.0	4.274433	Y
6	IC 410-179603/12	100.0	431.43018	50.0	507132.0	4.314302	Y
7	IC 410-179603/11	300.0	1078.121499	50.0	526702.0	3.593738	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

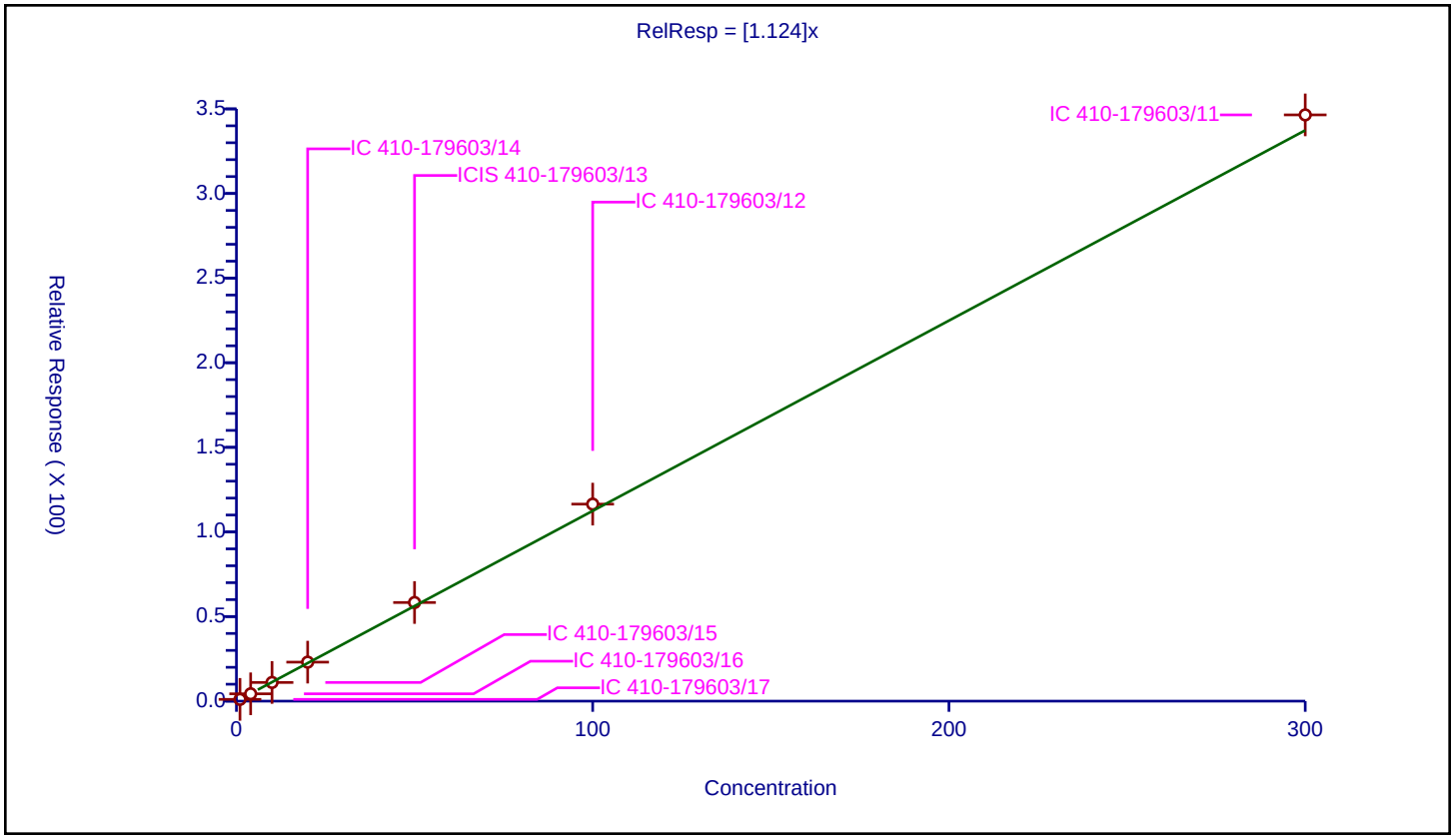
Curve Coefficients

Intercept:	0
Slope:	1.124

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.046013	50.0	497986.0	1.046013	Y
2	IC 410-179603/16	4.0	4.332379	50.0	508335.0	1.083095	Y
3	IC 410-179603/15	10.0	11.041037	50.0	504622.0	1.104104	Y
4	IC 410-179603/14	20.0	23.053594	50.0	493281.0	1.15268	Y
5	ICIS 410-179603/13	50.0	58.289747	50.0	503019.0	1.165795	Y
6	IC 410-179603/12	100.0	116.434873	50.0	507132.0	1.164349	Y
7	IC 410-179603/11	300.0	346.460997	50.0	526702.0	1.15487	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

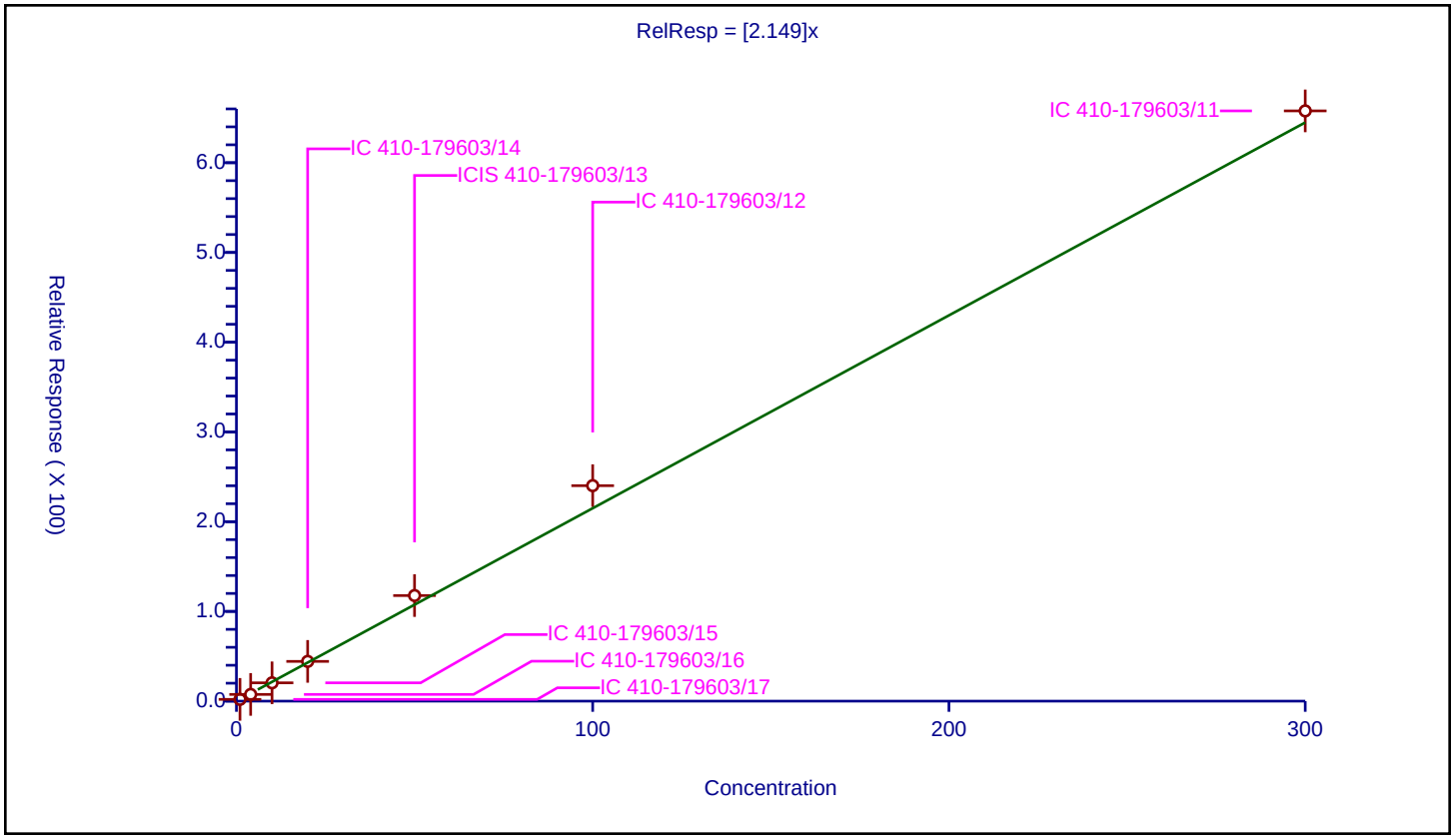
Curve Coefficients

Intercept:	0
Slope:	2.149

Error Coefficients

Standard Error:	3040000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-179603/17	1.0	1.973449	50.0	497986.0	1.973449	Y
2	IC 410-179603/16	4.0	7.486008	50.0	508335.0	1.871502	Y
3	IC 410-179603/15	10.0	20.395365	50.0	504622.0	2.039537	Y
4	IC 410-179603/14	20.0	44.289563	50.0	493281.0	2.214478	Y
5	ICIS 410-179603/13	50.0	117.680445	50.0	503019.0	2.353609	Y
6	IC 410-179603/12	100.0	240.124662	50.0	507132.0	2.401247	Y
7	IC 410-179603/11	300.0	657.77394	50.0	526702.0	2.19258	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: ICV 410-179603/19 Calibration Date: 10/06/2021 17:36

Instrument ID: 15648 Calib Start Date: 10/06/2021 14:54

GC Column: DB-624 20m ID: 0.18(mm) Calib End Date: 10/06/2021 16:55

Lab File ID: EC06X19.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	0.4394	0.3980	0.1000	18.1	20.0	-9.4	30.0
Chloromethane	Ave	0.4904	0.4369	0.1000	17.8	20.0	-10.9	30.0
1,3-Butadiene	Ave	0.5019	0.4027		16.0	20.0	-19.8	30.0
Vinyl chloride	Ave	0.4841	0.4114	0.1000	17.0	20.0	-15.0	30.0
Bromomethane	Ave	0.3203	0.2672	0.1000	16.7	20.0	-16.6	30.0
Chloroethane	Ave	0.2852	0.2499	0.1000	17.5	20.0	-12.4	30.0
Dichlorofluoromethane	Ave	0.6651	0.6031		18.1	20.0	-9.3	30.0
n-Pentane	Ave	0.6101	0.5554		18.2	20.0	-9.0	30.0
Trichlorofluoromethane	Ave	0.6094	0.5304	0.1000	17.4	20.0	-13.0	30.0
Ethyl ether	Ave	0.3101	0.2956		19.2	20.1	-4.7	30.0
Freon 123a	Ave	0.4460	0.3920		17.6	20.0	-12.1	30.0
Acrolein	Ave	3.016	2.898		144	150	-3.9	30.0
1,1-Dichloroethene	Ave	0.3146	0.3153	0.1000	20.0	20.0	0.2	30.0
Acetone	Ave	1.315	1.192	0.1000	227	250	-9.3	30.0
Freon 113	Ave	0.3298	0.3221	0.1000	19.5	20.0	-2.3	30.0
2-Propanol	Ave	0.8347	0.8131		146	150	-2.6	30.0
Methyl iodide	Ave	0.5403	0.5190		19.2	20.0	-3.9	30.0
Carbon disulfide	Ave	0.9560	0.8610	0.1000	18.0	20.0	-9.9	30.0
Allyl chloride	Ave	0.5771	0.5478		19.0	20.0	-5.1	30.0
Methyl acetate	Ave	0.3080	0.3103	0.1000	20.1	20.0	0.7	30.0
Methylene Chloride	Ave	0.3414	0.3392	0.1000	19.9	20.0	-0.7	30.0
t-Butyl alcohol	Ave	1.514	1.467		194	200	-3.1	30.0
Acrylonitrile	Ave	0.1590	0.1561		98.2	100	-1.8	30.0
trans-1,2-Dichloroethene	Ave	0.3522	0.3323	0.1000	18.9	20.0	-5.7	30.0
Methyl tertiary butyl ether	Ave	1.080	1.032	0.1000	19.1	20.0	-4.5	30.0
n-Hexane	Ave	0.5382	0.4805		17.9	20.0	-10.7	30.0
1,1-Dichloroethane	Ave	0.6378	0.5958	0.2000	18.7	20.0	-6.6	30.0
di-Isopropyl ether	Ave	1.133	1.081		19.1	20.0	-4.6	30.0
2-Chloro-1,3-butadiene	Ave	0.5630	0.5505		19.6	20.0	-2.2	30.0
Ethyl t-butyl ether	Ave	1.100	1.084		19.7	20.0	-1.5	30.0
2-Butanone	Ave	0.2063	0.1979	0.1000	240	250	-4.1	30.0
cis-1,2-Dichloroethene	Ave	0.3779	0.3836	0.1000	20.3	20.0	1.5	30.0
2,2-Dichloropropane	Ave	0.5459	0.5387		19.7	20.0	-1.3	30.0
Propionitrile	Ave	1.966	2.004		153	150	2.0	30.0
Methacrylonitrile	Ave	0.1822	0.1793		148	150	-1.6	30.0
Bromochloromethane	Ave	0.1711	0.1689		19.7	20.0	-1.3	30.0
Tetrahydrofuran	Ave	1.733	1.787		103	100	3.1	30.0
Chloroform	Ave	0.5905	0.5841	0.2000	19.8	20.0	-1.1	30.0
1,1,1-Trichloroethane	Ave	0.5545	0.5432	0.1000	19.6	20.0	-2.0	30.0
Cyclohexane	Ave	0.6755	0.6335	0.1000	18.8	20.0	-6.2	30.0
1,1-Dichloropropene	Ave	0.4993	0.4861		19.5	20.0	-2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: ICV 410-179603/19 Calibration Date: 10/06/2021 17:36

Instrument ID: 15648 Calib Start Date: 10/06/2021 14:54

GC Column: DB-624 20m ID: 0.18(mm) Calib End Date: 10/06/2021 16:55

Lab File ID: EC06X19.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	0.4493	0.4467	0.1000	19.9	20.0	-0.6	30.0
Isobutyl alcohol	Ave	0.4698	0.4479		477	500	-4.7	30.0
Benzene	Ave	1.495	1.464	0.5000	19.6	20.0	-2.1	30.0
1,2-Dichloroethane	Ave	0.4628	0.4493	0.1000	19.4	20.0	-2.9	30.0
t-Amyl methyl ether	Ave	1.069	1.046		19.6	20.0	-2.2	30.0
n-Heptane	Ave	0.5196	0.4570		17.6	20.0	-12.0	30.0
n-Butanol	Ave	0.3849	0.3504		911	1000	-8.9	30.0
Trichloroethene	Ave	0.3751	0.3623	0.2000	19.3	20.0	-3.4	30.0
Methylcyclohexane	Ave	0.6861	0.6458	0.1000	18.8	20.0	-5.9	30.0
1,2-Dichloropropane	Ave	0.3653	0.3605	0.1000	19.7	20.0	-1.3	30.0
t-Amyl ethyl ether	Ave	0.5577	0.5561		19.9	20.0	-0.3	30.0
Dibromomethane	Ave	0.2136	0.2100		19.7	20.0	-1.7	30.0
1,4-Dioxane	Ave	0.1335	0.1095	0.0050	410	500	-18.0	30.0
Methyl methacrylate	Ave	0.2844	0.2843		20.0	20.0	-0.0	30.0
Bromodichloromethane	Ave	0.4281	0.4257	0.2000	19.9	20.0	-0.6	30.0
2-Nitropropane	Ave	3.604	3.397		18.9	20.0	-5.7	30.0
2-Chloroethyl vinyl ether	Ave	0.2541	0.2397		18.9	20.0	-5.7	30.0
cis-1,3-Dichloropropene	Ave	0.5772	0.5575	0.2000	19.3	20.0	-3.4	30.0
4-Methyl-2-pentanone	Ave	0.4396	0.4308	0.1000	245	250	-2.0	30.0
Toluene	Ave	1.275	1.251	0.4000	19.6	20.0	-1.8	30.0
trans-1,3-Dichloropropene	Ave	0.7026	0.6952	0.1000	19.8	20.0	-1.0	30.0
Ethyl methacrylate	Ave	0.6859	0.6751		19.7	20.0	-1.6	30.0
1,1,2-Trichloroethane	Ave	0.4174	0.4151	0.1000	19.9	20.0	-0.6	30.0
Tetrachloroethene	Ave	0.5010	0.4866	0.2000	19.4	20.0	-2.9	30.0
1,3-Dichloropropane	Ave	0.7313	0.7200		19.7	20.0	-1.6	30.0
2-Hexanone	Ave	0.4125	0.4164	0.1000	252	250	0.9	30.0
Dibromochloromethane	Ave	0.4293	0.4230		19.7	20.0	-1.5	30.0
1,2-Dibromoethane	Ave	0.4368	0.4276	0.1000	19.6	20.0	-2.1	30.0
Chlorobenzene	Ave	1.337	1.303	0.5000	19.5	20.0	-2.5	30.0
1-Chlorohexane	Ave	0.7106	0.6649		18.7	20.0	-6.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4438	0.4298		19.4	20.0	-3.2	30.0
Ethylbenzene	Ave	2.400	2.368	0.1000	19.7	20.0	-1.3	30.0
m&p-Xylene	Ave	0.9273	0.9222	0.1000	39.8	40.0	-0.5	30.0
o-Xylene	Ave	0.9076	0.8908	0.3000	19.6	20.0	-1.9	30.0
Styrene	Ave	1.411	1.418	0.3000	20.1	20.0	0.5	30.0
Bromoform	Ave	0.2905	0.2798	0.1000	19.3	20.0	-3.7	30.0
Isopropylbenzene	Ave	2.340	2.378	0.1000	20.3	20.0	1.6	30.0
Cyclohexanone	Ave	0.5467	0.4027		368	500	-26.3	30.0
Bromobenzene	Ave	0.9769	1.008		20.6	20.0	3.2	30.0
1,1,2,2-Tetrachloroethane	Ave	1.197	1.234	0.3000	20.6	20.0	3.1	30.0
1,2,3-Trichloropropane	Ave	0.3525	0.3511		19.9	20.0	-0.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: ICV 410-179603/19 Calibration Date: 10/06/2021 17:36

Instrument ID: 15648 Calib Start Date: 10/06/2021 14:54

GC Column: DB-624 20m ID: 0.18(mm) Calib End Date: 10/06/2021 16:55

Lab File ID: EC06X19.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	0.3791	0.3784		99.8	100	-0.2	30.0
N-Propylbenzene	Ave	5.145	5.225		20.3	20.0	1.6	30.0
2-Chlorotoluene	Ave	1.035	1.016		19.6	20.0	-1.8	30.0
1,3,5-Trimethylbenzene	Ave	3.662	3.692		20.2	20.0	0.8	30.0
4-Chlorotoluene	Ave	1.032	1.030		20.0	20.0	-0.2	30.0
tert-Butylbenzene	Ave	0.7815	0.7740		19.8	20.0	-1.0	30.0
1,2,4-Trimethylbenzene	Ave	3.664	3.681		20.1	20.0	0.4	30.0
sec-Butylbenzene	Ave	4.459	4.606		20.7	20.0	3.3	30.0
1,3-Dichlorobenzene	Ave	1.917	1.874	0.6000	19.6	20.0	-2.2	30.0
p-Isopropyltoluene	Ave	3.833	3.903		20.4	20.0	1.8	30.0
1,4-Dichlorobenzene	Ave	1.947	1.907	0.5000	19.6	20.0	-2.1	30.0
1,2,3-Trimethylbenzene	Ave	3.728	3.690		19.8	20.0	-1.0	30.0
Benzyl chloride	Ave	2.510	2.339		18.6	20.0	-6.8	30.0
1,3-Diethylbenzene	Ave	2.296	2.235		19.5	20.0	-2.7	30.0
1,4-Diethylbenzene	Ave	2.398	2.338		19.5	20.0	-2.5	30.0
1,2-Dichlorobenzene	Ave	1.840	1.839	0.4000	20.0	20.0	-0.0	30.0
n-Butylbenzene	Ave	1.889	1.831		19.4	20.0	-3.1	30.0
1,2-Diethylbenzene	Ave	1.918	1.868		19.5	20.0	-2.6	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.2600	0.2402	0.0500	18.5	20.0	-7.6	30.0
1,3,5-Trichlorobenzene	Ave	1.270	1.216		19.1	20.0	-4.3	30.0
1,2,4-Trichlorobenzene	Ave	1.164	1.138	0.2000	19.6	20.0	-2.2	30.0
Hexachlorobutadiene	Ave	0.4435	0.4240		19.1	20.0	-4.4	30.0
Naphthalene	Ave	4.032	3.946		19.6	20.0	-2.1	30.0
1,2,3-Trichlorobenzene	Ave	1.124	1.096		19.5	20.0	-2.5	30.0
2-Methylnaphthalene	Ave	2.149	1.937		18.0	20.0	-9.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2261	0.2280		50.4	50.0	0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2767	0.2776		50.2	50.0	0.3	30.0
Toluene-d8 (Surr)	Ave	1.323	1.329		50.2	50.0	0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5038	0.5039		50.0	50.0	0.0	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X19.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 06-Oct-2021 17:36:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0040878-019
Misc. Info.: LG ICV
Operator ID: jml01693 Instrument ID: 15648
Sublist:

Method: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2021 07:01:48 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1682

First Level Reviewer: longj Date: 07-Oct-2021 07:33:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.164	1.164	0.000	99	200725	20.0	18.1	
2 Chloromethane	50	1.279	1.285	-0.006	98	220302	20.0	17.8	
3 Butadiene	39	1.334	1.334	0.000	89	203092	20.0	16.0	
4 Vinyl chloride	62	1.347	1.352	-0.005	97	207453	20.0	17.0	
5 Bromomethane	94	1.536	1.535	0.001	91	134727	20.0	16.7	
6 Chloroethane	64	1.560	1.560	0.000	100	126001	20.0	17.5	
7 Dichlorofluoromethane	67	1.688	1.688	0.000	97	304119	20.0	18.1	
9 Pentane	43	1.737	1.737	0.000	97	280087	20.0	18.2	
8 Trichlorofluoromethane	101	1.749	1.749	0.000	98	267478	20.0	17.4	
12 Ethyl ether	59	1.865	1.865	0.000	92	149735	20.1	19.2	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.871	1.877	-0.006	78	197687	20.0	17.6	
14 Acrolein	56	1.950	1.956	-0.006	100	340733	150.4	144.5	
15 1,1-Dichloroethene	96	2.035	2.041	-0.006	98	158987	20.0	20.0	
17 Acetone	58	2.054	2.060	-0.006	100	233113	250.0	226.6	
16 112TCTFE	101	2.072	2.072	0.000	93	162437	20.0	19.5	
18 Isopropyl alcohol	45	2.145	2.145	0.000	45	95371	150.0	146.1	
19 Iodomethane	142	2.151	2.157	-0.006	98	261740	20.0	19.2	
21 Carbon disulfide	76	2.212	2.212	0.000	99	434182	20.0	18.0	
22 3-Chloro-1-propene	41	2.298	2.304	-0.006	91	276230	20.0	19.0	
23 Methyl acetate	43	2.310	2.304	0.006	100	156479	20.0	20.1	
24 Methylene Chloride	84	2.401	2.401	0.000	91	171053	20.0	19.9	
* 25 t-Butyl alcohol-d10 (IS)	65	2.413	2.413	0.000	99	195492	250.0	250.0	
26 2-Methyl-2-propanol	59	2.480	2.480	0.000	99	229406	200.0	193.8	
27 Acrylonitrile	53	2.590	2.590	0.000	99	393625	100.0	98.2	
29 trans-1,2-Dichloroethene	96	2.633	2.633	0.000	99	167561	20.0	18.9	
28 Methyl tert-butyl ether	73	2.639	2.639	0.000	95	520468	20.0	19.1	
30 Hexane	57	2.871	2.870	0.001	93	242329	20.0	17.9	
32 1,1-Dichloroethane	63	2.999	2.999	0.001	96	300435	20.0	18.7	
34 Isopropyl ether	45	3.072	3.072	0.000	94	545062	20.0	19.1	
35 2-Chloro-1,3-butadiene	53	3.084	3.084	0.000	92	277602	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
36 Tert-butyl ethyl ether	59	3.401	3.407	-0.006	98	546748	20.0	19.7	
37 cis-1,2-Dichloroethene	96	3.529	3.529	0.000	53	193455	20.0	20.3	
38 2-Butanone (MEK)	43	3.529	3.529	0.000	99	1247372	250.0	239.8	
39 2,2-Dichloropropane	77	3.535	3.541	-0.006	88	271667	20.0	19.7	
40 Propionitrile	54	3.578	3.578	0.000	98	235109	150.0	153.0	a
41 Methacrylonitrile	67	3.730	3.730	0.000	92	678238	150.0	147.6	
42 Chlorobromomethane	128	3.749	3.748	0.001	96	85194	20.0	19.7	
43 Tetrahydrofuran	71	3.791	3.785	0.006	90	139769	100.0	103.1	
44 Chloroform	83	3.828	3.834	-0.006	93	294533	20.0	19.8	
$ 45 Dibromofluoromethane (Surr)	113	3.980	3.980	0.000	93	287407	50.0	50.4	
46 1,1,1-Trichloroethane	97	4.011	4.011	0.000	98	273916	20.0	19.6	
47 Cyclohexane	56	4.072	4.071	0.001	91	319459	20.0	18.8	
48 1,1-Dichloropropene	75	4.163	4.163	0.000	96	245113	20.0	19.5	
49 Carbon tetrachloride	117	4.169	4.175	-0.006	98	225253	20.0	19.9	
50 Isobutyl alcohol	41	4.291	4.285	0.006	94	175118	500.0	476.7	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.297	0.000	99	350038	50.0	50.2	
52 Benzene	78	4.364	4.364	0.000	96	738324	20.0	19.6	
53 1,2-Dichloroethane	62	4.376	4.376	0.000	95	226602	20.0	19.4	
54 Tert-amyl methyl ether	73	4.492	4.492	0.000	98	527367	20.0	19.6	
* 55 Fluorobenzene (IS)	96	4.639	4.638	0.001	98	1260722	50.0	50.0	
56 n-Heptane	43	4.651	4.651	0.000	92	230479	20.0	17.6	
57 n-Butanol	56	4.956	4.955	0.001	88	274036	1000.0	910.6	
59 Trichloroethene	95	5.004	5.010	-0.006	99	182680	20.0	19.3	
60 Methylcyclohexane	83	5.212	5.211	0.001	92	325668	20.0	18.8	
61 1,2-Dichloropropane	63	5.224	5.224	0.000	96	181818	20.0	19.7	
131 2-ethoxy-2-methyl butane	87	5.297	5.297	0.000	94	280455	20.0	19.9	
62 Dibromomethane	93	5.346	5.340	0.006	96	105886	20.0	19.7	
64 Methyl methacrylate	69	5.376	5.376	0.000	91	143360	20.0	20.0	
63 1,4-Dioxane	88	5.370	5.376	-0.006	89	42820	500.0	410.1	
65 Dichlorobromomethane	83	5.516	5.516	0.000	99	214656	20.0	19.9	
67 2-Nitropropane	41	5.748	5.748	0.000	99	53123	20.0	18.9	
68 2-Chloroethyl vinyl ether	63	5.852	5.852	0.000	92	120871	20.0	18.9	
69 cis-1,3-Dichloropropene	75	5.992	5.992	0.000	95	281136	20.0	19.3	
71 4-Methyl-2-pentanone (MIBK)	43	6.169	6.169	0.000	97	2715370	250.0	245.0	
$ 72 Toluene-d8 (Surr)	98	6.279	6.278	0.000	93	1252321	50.0	50.2	
73 Toluene	92	6.346	6.345	0.001	98	471566	20.0	19.6	
74 trans-1,3-Dichloropropene	75	6.596	6.595	0.001	94	261975	20.0	19.8	
75 Ethyl methacrylate	69	6.724	6.723	0.001	89	254387	20.0	19.7	
76 1,1,2-Trichloroethane	97	6.785	6.784	0.000	91	156402	20.0	19.9	
77 Tetrachloroethene	166	6.943	6.943	0.000	96	183364	20.0	19.4	
78 1,3-Dichloropropane	76	6.967	6.961	0.006	91	271286	20.0	19.7	
80 2-Hexanone	43	7.083	7.083	0.000	96	1961435	250.0	252.4	
81 Chlorodibromomethane	129	7.205	7.205	0.000	91	159402	20.0	19.7	
82 Ethylene Dibromide	107	7.315	7.315	0.000	99	161127	20.0	19.6	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.790	0.000	85	942022	50.0	50.0	
85 Chlorobenzene	112	7.815	7.815	0.000	93	490980	20.0	19.5	
86 1-Chlorohexane	91	7.821	7.821	0.000	98	250539	20.0	18.7	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	95	161958	20.0	19.4	
88 Ethylbenzene	91	7.937	7.937	0.000	98	892306	20.0	19.7	
89 m-Xylene & p-Xylene	106	8.046	8.046	0.000	100	694980	40.0	39.8	
91 o-Xylene	106	8.394	8.394	0.000	97	335646	20.0	19.6	
92 Styrene	104	8.406	8.406	0.000	95	534449	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
93 Bromoform	173	8.546	8.540	0.006	97	105449	20.0	19.3	
94 Isopropylbenzene	105	8.711	8.711	0.000	96	896044	20.0	20.3	
95 Cyclohexanone	55	8.760	8.760	0.000	93	157465	500.0	368.3	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	87	474648	50.0	50.0	
97 Bromobenzene	156	8.937	8.936	0.001	93	199306	20.0	20.6	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	93	244062	20.0	20.6	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	85	69438	20.0	19.9	
100 trans-1,4-Dichloro-2-butene	53	8.991	8.991	0.000	95	374257	100.0	99.8	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	1033516	20.0	20.3	
102 2-Chlorotoluene	126	9.095	9.095	0.000	96	201012	20.0	19.6	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	88	730189	20.0	20.2	
104 4-Chlorotoluene	126	9.180	9.180	0.000	94	203698	20.0	20.0	
105 tert-Butylbenzene	134	9.424	9.424	0.000	93	153084	20.0	19.8	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	97	728022	20.0	20.1	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	911043	20.0	20.7	
109 1,3-Dichlorobenzene	146	9.656	9.656	0.000	98	370735	20.0	19.6	
110 4-Isopropyltoluene	119	9.699	9.698	0.001	97	771978	20.0	20.4	
* 111 1,4-Dichlorobenzene-d4	152	9.705	9.705	0.000	97	494469	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	95	377186	20.0	19.6	
113 1,2,3-Trimethylbenzene	105	9.766	9.765	0.001	99	729920	20.0	19.8	
114 Benzyl chloride	91	9.821	9.820	0.000	98	462561	20.0	18.6	
115 1,3-Diethylbenzene	119	9.912	9.912	0.000	95	441991	20.0	19.5	
116 p-Diethylbenzene	119	9.973	9.973	0.000	96	462368	20.0	19.5	
119 1,2-Dichlorobenzene	146	9.985	9.985	0.000	95	363691	20.0	20.0	
118 n-Butylbenzene	92	9.991	9.991	0.000	98	362073	20.0	19.4	
120 o-diethylbenzene	119	10.052	10.052	0.000	96	369512	20.0	19.5	
122 1,2-Dibromo-3-Chloropropane	75	10.522	10.521	0.001	83	47517	20.0	18.5	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	98	240474	20.0	19.1	
124 1,2,4-Trichlorobenzene	180	11.076	11.076	0.000	94	225139	20.0	19.6	
126 Hexachlorobutadiene	225	11.192	11.192	0.000	98	83864	20.0	19.1	
127 Naphthalene	128	11.235	11.235	0.000	97	780535	20.0	19.6	
128 1,2,3-Trichlorobenzene	180	11.393	11.393	0.000	96	216772	20.0	19.5	
129 2-Methylnaphthalene	142	11.954	11.954	0.000	93	383059	20.0	18.0	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00021	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00023	Amount Added: 50.00	Units: uL	
MSV_Q_EE_00004	Amount Added: 50.00	Units: uL	
MSV_QCYC_00006	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00023	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00040	Amount Added: 50.00	Units: uL	
MSV_Cent_ISSS_00001	Amount Added: 5.00	Units: uL	Run Reagent

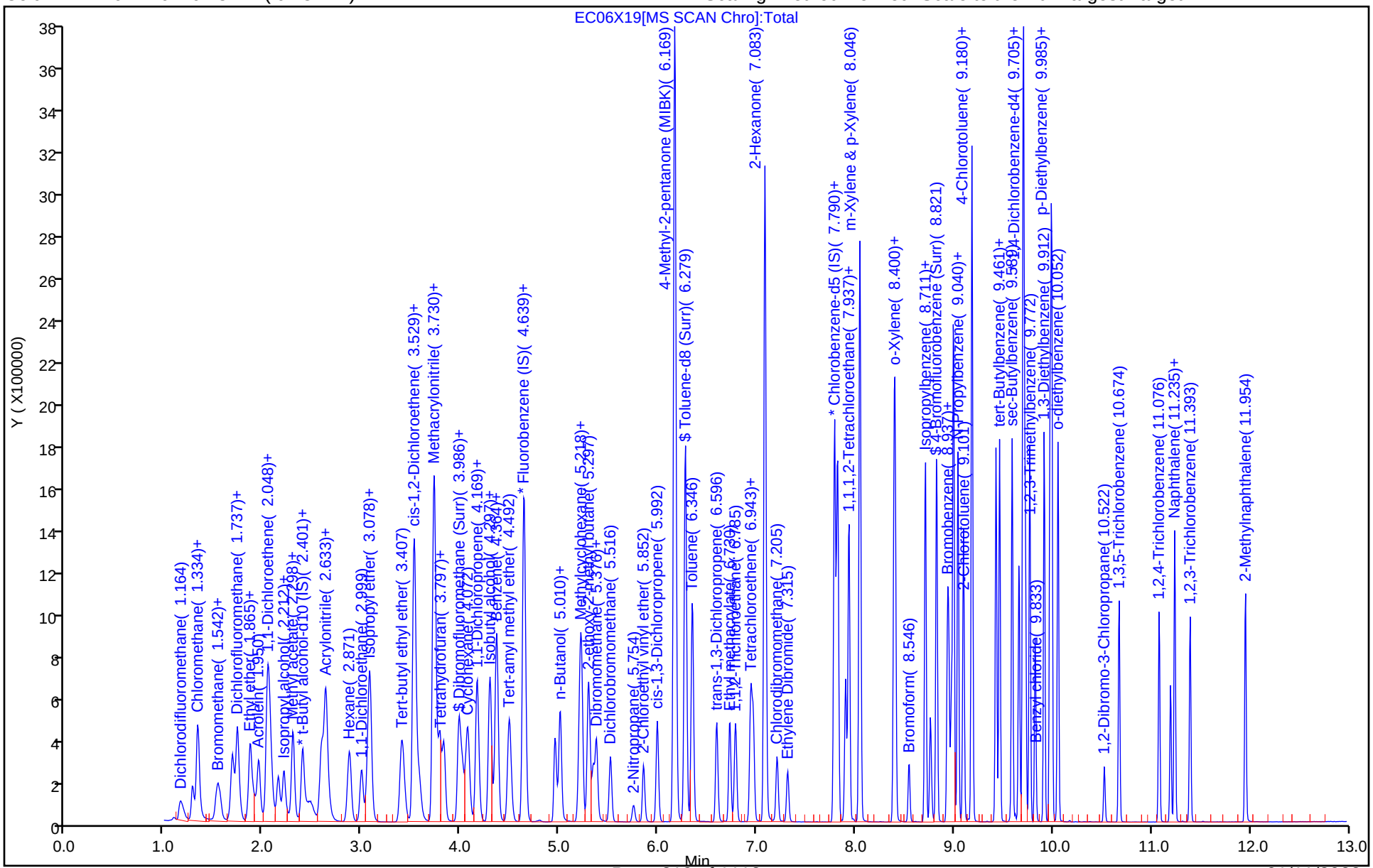
Report Date: 07-Oct-2021 07:34:00 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X19.D

Injection Date:	06-Oct-2021 17:36:30	Instrument ID:	15648	Operator ID:	jml01693
Lims ID:	ICV			Worklist Smp#:	19
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

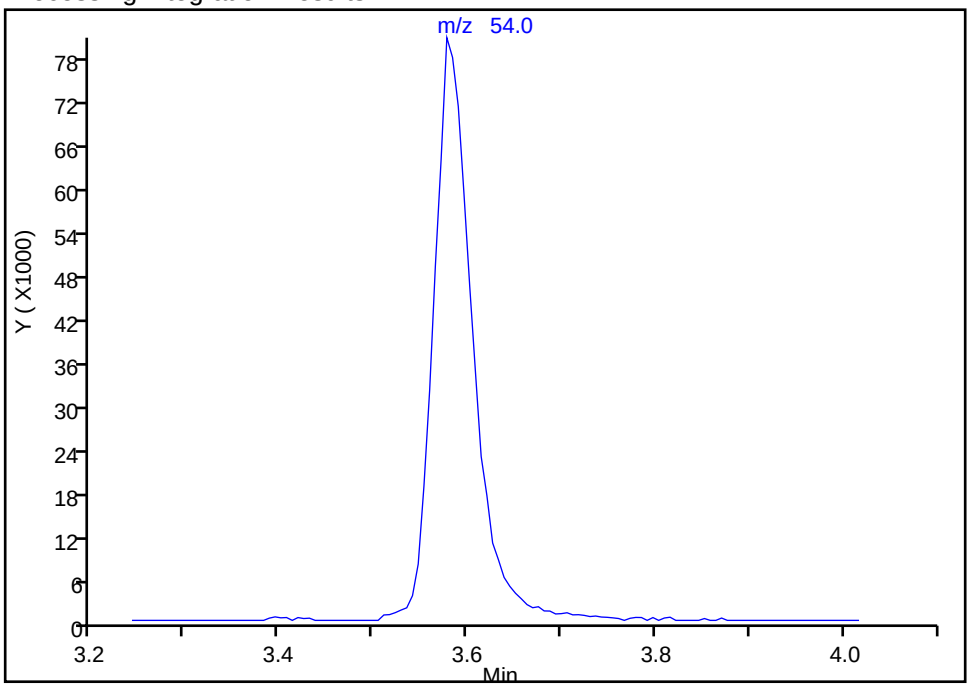
Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X19.D
Injection Date: 06-Oct-2021 17:36:30 Instrument ID: 15648
Lims ID: ICV
Client ID:
Operator ID: jml01693 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_15648 Limit Group: MSV - 8260C_D
Column: DB-624 20m 0.18mm (0.18 mm) Detector MS Quad

40 Propionitrile, CAS: 107-12-0

Signal: 1

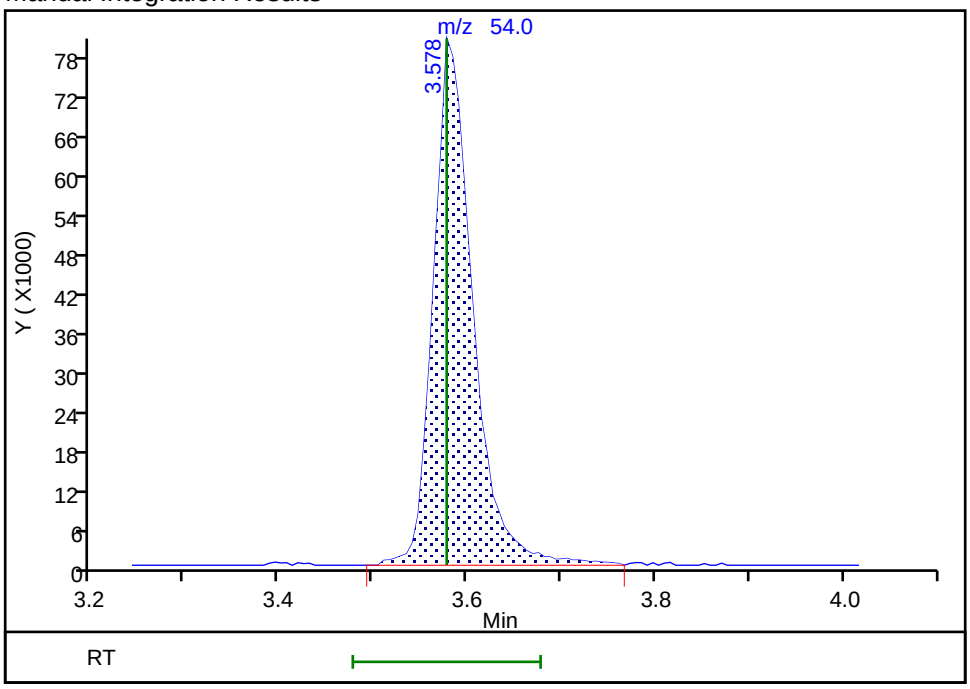
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 235109
Amount: 152.9509
Amount Units: ug/l



Reviewer: longj, 07-Oct-2021 06:54:23
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-210699/3 Calibration Date: 12/30/2021 16:23

Instrument ID: 15648 Calib Start Date: 10/06/2021 14:54

GC Column: DB-624 20m ID: 0.18(mm) Calib End Date: 10/06/2021 16:55

Lab File ID: ED30X02.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	0.4394	0.3733	0.1000	42.5	50.0	-15.0	20.0
Chloromethane	Ave	0.4904	0.4552	0.1000	46.4	50.0	-7.2	20.0
1,3-Butadiene	Ave	0.5019	0.4437		44.2	50.0	-11.6	20.0
Vinyl chloride	Ave	0.4841	0.4488	0.1000	46.4	50.0	-7.3	20.0
Bromomethane	Ave	0.3203	0.2852	0.1000	44.5	50.0	-11.0	20.0
Chloroethane	Ave	0.2852	0.2628	0.1000	46.1	50.0	-7.9	20.0
Dichlorofluoromethane	Ave	0.6651	0.6170		46.4	50.0	-7.2	20.0
Trichlorofluoromethane	Ave	0.6094	0.5756	0.1000	47.2	50.0	-5.5	20.0
n-Pentane	Ave	0.6101	0.5039		41.3	50.0	-17.4	20.0
Ethyl ether	Ave	0.3101	0.2722		43.9	50.0	-12.2	20.0
Freon 123a	Ave	0.4460	0.4344		48.7	50.0	-2.6	20.0
Acrolein	Ave	3.016	2.802		465	500	-7.1	20.0
1,1-Dichloroethene	Ave	0.3146	0.3236	0.1000	51.4	50.0	2.9	20.0
Acetone	Ave	1.315	1.450	0.1000	110	100	10.2	20.0
Freon 113	Ave	0.3298	0.3091	0.1000	46.9	50.0	-6.3	20.0
2-Propanol	Ave	0.8347	0.9493		284	250	13.7	20.0
Methyl iodide	Ave	0.5403	0.5192		48.0	50.0	-3.9	20.0
Carbon disulfide	Ave	0.9560	0.8383	0.1000	43.8	50.0	-12.3	20.0
Allyl chloride	Ave	0.5771	0.4925		42.7	50.0	-14.6	20.0
Methyl acetate	Ave	0.3080	0.3185	0.1000	51.7	50.0	3.4	20.0
Methylene Chloride	Ave	0.3414	0.3458	0.1000	50.6	50.0	1.3	20.0
t-Butyl alcohol	Ave	1.514	1.538		254	250	1.6	20.0
Acrylonitrile	Ave	0.1590	0.1689		133	125	6.2	20.0
Methyl tertiary butyl ether	Ave	1.080	1.026	0.1000	47.5	50.0	-5.0	20.0
trans-1,2-Dichloroethene	Ave	0.3522	0.3520	0.1000	50.0	50.0	-0.0	20.0
n-Hexane	Ave	0.5382	0.4516		41.9	50.0	-16.1	20.0
1,1-Dichloroethane	Ave	0.6378	0.6254	0.2000	49.0	50.0	-1.9	20.0
di-Isopropyl ether	Ave	1.133	1.088		48.0	50.0	-4.0	20.0
2-Chloro-1,3-butadiene	Ave	0.5630	0.5256		46.7	50.0	-6.6	20.0
Ethyl t-butyl ether	Ave	1.100	1.044		47.5	50.0	-5.1	20.0
cis-1,2-Dichloroethene	Ave	0.3779	0.3806	0.1000	50.4	50.0	0.7	20.0
2-Butanone	Ave	0.2063	0.2084	0.1000	101	100	1.0	20.0
2,2-Dichloropropane	Ave	0.5459	0.3880		35.5	50.0	-28.9*	20.0
Propionitrile	Ave	1.966	2.196		279	250	11.7	20.0
Methacrylonitrile	Ave	0.1822	0.1929		132	125	5.9	20.0
Bromochloromethane	Ave	0.1711	0.1788		52.2	50.0	4.5	20.0
Tetrahydrofuran	Ave	1.733	1.908		275	250	10.1	20.0
Chloroform	Ave	0.5905	0.5832	0.2000	49.4	50.0	-1.2	20.0
1,1,1-Trichloroethane	Ave	0.5545	0.5410	0.1000	48.8	50.0	-2.4	20.0
Cyclohexane	Ave	0.6755	0.6573	0.1000	48.7	50.0	-2.7	20.0
1,1-Dichloropropene	Ave	0.4993	0.5046		50.5	50.0	1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-210699/3 Calibration Date: 12/30/2021 16:23

Instrument ID: 15648 Calib Start Date: 10/06/2021 14:54

GC Column: DB-624 20m ID: 0.18(mm) Calib End Date: 10/06/2021 16:55

Lab File ID: ED30X02.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	0.4493	0.4560	0.1000	50.7	50.0	1.5	20.0
Isobutyl alcohol	Ave	0.4698	0.4950		659	625	5.4	20.0
Benzene	Ave	1.495	1.524	0.5000	51.0	50.0	1.9	20.0
1,2-Dichloroethane	Ave	0.4628	0.4222	0.1000	45.6	50.0	-8.8	20.0
t-Amyl methyl ether	Ave	1.069	1.042		48.7	50.0	-2.5	20.0
n-Heptane	Ave	0.5196	0.3748		36.1	50.0	-27.9*	20.0
n-Butanol	Ave	0.3849	0.4332		703	625	12.5	20.0
Trichloroethene	Ave	0.3751	0.3812	0.2000	50.8	50.0	1.6	20.0
Methylcyclohexane	Ave	0.6861	0.6784	0.1000	49.4	50.0	-1.1	20.0
1,2-Dichloropropane	Ave	0.3653	0.3716	0.1000	50.9	50.0	1.7	20.0
t-Amyl ethyl ether	Ave	0.5577	0.5441		48.8	50.0	-2.4	20.0
Dibromomethane	Ave	0.2136	0.2126		49.8	50.0	-0.5	20.0
1,4-Dioxane	Ave	0.1335	0.1586	0.0050	743	625	18.8	20.0
Methyl methacrylate	Ave	0.2844	0.3009		52.9	50.0	5.8	20.0
Bromodichloromethane	Ave	0.4281	0.4188	0.2000	48.9	50.0	-2.2	20.0
2-Nitropropane	Ave	3.604	3.170		220	250	-12.0	20.0
2-Chloroethyl vinyl ether	Ave	0.2541	0.2725		53.6	50.0	7.2	20.0
cis-1,3-Dichloropropene	Ave	0.5772	0.5469	0.2000	47.4	50.0	-5.2	20.0
4-Methyl-2-pentanone	Ave	0.4396	0.4448	0.1000	101	100	1.2	20.0
Toluene	Ave	1.275	1.289	0.4000	50.6	50.0	1.1	20.0
trans-1,3-Dichloropropene	Ave	0.7026	0.6407	0.1000	45.6	50.0	-8.8	20.0
Ethyl methacrylate	Ave	0.6859	0.6943		50.6	50.0	1.2	20.0
1,1,2-Trichloroethane	Ave	0.4174	0.4355	0.1000	52.2	50.0	4.4	20.0
Tetrachloroethene	Ave	0.5010	0.5284	0.2000	52.7	50.0	5.5	20.0
1,3-Dichloropropane	Ave	0.7313	0.7465		51.0	50.0	2.1	20.0
2-Hexanone	Ave	0.4125	0.4296	0.1000	104	100	4.1	20.0
Dibromochloromethane	Ave	0.4293	0.4554		53.0	50.0	6.1	20.0
1,2-Dibromoethane	Ave	0.4368	0.4551	0.1000	52.1	50.0	4.2	20.0
Chlorobenzene	Ave	1.337	1.352	0.5000	50.6	50.0	1.1	20.0
1-Chlorohexane	Ave	0.7106	0.6813		47.9	50.0	-4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4438	0.4476		50.4	50.0	0.9	20.0
Ethylbenzene	Ave	2.400	2.421	0.1000	50.4	50.0	0.9	20.0
m&p-Xylene	Ave	0.9273	0.9411	0.1000	101	100	1.5	20.0
o-Xylene	Ave	0.9076	0.9293	0.3000	51.2	50.0	2.4	20.0
Styrene	Ave	1.411	1.498	0.3000	53.1	50.0	6.2	20.0
Bromoform	Ave	0.2905	0.3248	0.1000	55.9	50.0	11.8	20.0
Isopropylbenzene	Ave	2.340	2.408	0.1000	51.5	50.0	2.9	20.0
Bromobenzene	Ave	0.9769	1.039		53.2	50.0	6.4	20.0
1,1,2,2-Tetrachloroethane	Ave	1.197	1.257	0.3000	52.5	50.0	5.0	20.0
1,2,3-Trichloropropane	Ave	0.3525	0.3824		54.2	50.0	8.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3791	0.2826		93.2	125	-25.4*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-210699/3 Calibration Date: 12/30/2021 16:23

Instrument ID: 15648 Calib Start Date: 10/06/2021 14:54

GC Column: DB-624 20m ID: 0.18(mm) Calib End Date: 10/06/2021 16:55

Lab File ID: ED30X02.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
N-Propylbenzene	Ave	5.145	5.256		51.1	50.0	2.1	20.0
2-Chlorotoluene	Ave	1.035	1.035		50.0	50.0	0.0	20.0
1,3,5-Trimethylbenzene	Ave	3.662	3.676		50.2	50.0	0.4	20.0
4-Chlorotoluene	Ave	1.032	1.045		50.6	50.0	1.3	20.0
tert-Butylbenzene	Ave	0.7815	0.7873		50.4	50.0	0.7	20.0
1,2,4-Trimethylbenzene	Ave	3.664	3.740		51.0	50.0	2.1	20.0
sec-Butylbenzene	Ave	4.459	4.550		51.0	50.0	2.0	20.0
1,3-Dichlorobenzene	Ave	1.917	1.959	0.6000	51.1	50.0	2.2	20.0
p-Isopropyltoluene	Ave	3.833	3.867		50.4	50.0	0.9	20.0
1,4-Dichlorobenzene	Ave	1.947	1.996	0.5000	51.2	50.0	2.5	20.0
1,2,3-Trimethylbenzene	Ave	3.728	3.707		49.7	50.0	-0.6	20.0
Benzyl chloride	Ave	2.510	1.454		29.0	50.0	-42.1*	20.0
1,3-Diethylbenzene	Ave	2.296	2.264		49.3	50.0	-1.4	20.0
1,4-Diethylbenzene	Ave	2.398	2.310		48.2	50.0	-3.7	20.0
1,2-Dichlorobenzene	Ave	1.840	1.923	0.4000	52.2	50.0	4.5	20.0
n-Butylbenzene	Ave	1.889	1.790		47.4	50.0	-5.3	20.0
1,2-Diethylbenzene	Ave	1.918	1.898		49.5	50.0	-1.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2600	0.2506	0.0500	48.2	50.0	-3.6	20.0
1,3,5-Trichlorobenzene	Ave	1.270	1.259		49.5	50.0	-0.9	20.0
1,2,4-Trichlorobenzene	Ave	1.164	1.187	0.2000	51.0	50.0	2.0	20.0
Hexachlorobutadiene	Ave	0.4435	0.4480		50.5	50.0	1.0	20.0
Naphthalene	Ave	4.032	4.116		51.0	50.0	2.1	20.0
1,2,3-Trichlorobenzene	Ave	1.124	1.146		50.9	50.0	1.9	20.0
2-Methylnaphthalene	Ave	2.149	1.848		43.0	50.0	-14.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2261	0.2257		49.9	50.0	-0.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2767	0.2575		46.5	50.0	-7.0	20.0
Toluene-d8 (Surr)	Ave	1.323	1.335		50.5	50.0	0.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5038	0.4864		48.3	50.0	-3.5	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X02.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Dec-2021 16:23:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-003
Misc. Info.: CCVIS
Operator ID: sej02002 Instrument ID: 15648
Sublist: chrom-MSVoa_15648*sub46

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 17:37:15 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: johnsons Date: 30-Dec-2021 16:56:50

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	1 Dichlorodifluoromethane	85	1.152	1.152	0.000	99	527589	50.0	42.5	
	2 Chloromethane	50	1.273	1.273	0.000	99	643215	50.0	46.4	
	3 Butadiene	39	1.328	1.328	0.000	90	627005	50.0	44.2	
	4 Vinyl chloride	62	1.334	1.334	0.000	98	634194	50.0	46.4	
	5 Bromomethane	94	1.530	1.530	0.000	89	402998	50.0	44.5	
	6 Chloroethane	64	1.554	1.554	0.000	99	371422	50.0	46.1	
	7 Dichlorofluoromethane	67	1.676	1.676	0.000	97	871935	50.0	46.4	
	8 Trichlorofluoromethane	101	1.719	1.719	0.000	99	813400	50.0	47.2	
	9 Pentane	43	1.731	1.731	0.000	97	712022	50.0	41.3	
	12 Ethyl ether	59	1.859	1.859	0.000	91	384668	50.0	43.9	
	13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.865	1.865	0.000	91	613876	50.0	48.7	
	14 Acrolein	56	1.944	1.944	0.000	100	1247673	500.0	464.6	
	15 1,1-Dichloroethene	96	2.029	2.029	0.000	97	457301	50.0	51.4	
	17 Acetone	58	2.048	2.048	0.000	100	129101	100.0	110.2	
	16 112TCTFE	101	2.054	2.054	0.000	91	436817	50.0	46.9	
	18 Isopropyl alcohol	45	2.133	2.133	0.000	44	211330	250.0	284.3	
	19 Iodomethane	142	2.145	2.145	0.000	96	733647	50.0	48.0	
	21 Carbon disulfide	76	2.200	2.200	0.000	99	1184700	50.0	43.8	
	22 3-Chloro-1-propene	41	2.292	2.292	0.000	93	696000	50.0	42.7	
	23 Methyl acetate	43	2.292	2.292	0.000	59	450064	50.0	51.7	a
	24 Methylene Chloride	84	2.389	2.389	0.000	90	488683	50.0	50.6	
*	25 t-Butyl alcohol-d10 (IS)	65	2.395	2.395	0.000	100	222618	250.0	250.0	
	26 2-Methyl-2-propanol	59	2.462	2.462	0.000	99	342486	250.0	254.0	
	27 Acrylonitrile	53	2.578	2.578	0.000	99	596640	125.0	132.8	
	29 trans-1,2-Dichloroethene	96	2.621	2.621	0.000	100	497409	50.0	50.0	
	28 Methyl tert-butyl ether	73	2.621	2.621	0.000	94	1450328	50.0	47.5	
	30 Hexane	57	2.859	2.859	0.000	91	638127	50.0	41.9	
	32 1,1-Dichloroethane	63	2.980	2.980	0.000	96	883708	50.0	49.0	
	34 Isopropyl ether	45	3.060	3.060	0.000	97	1537070	50.0	48.0	
	35 2-Chloro-1,3-butadiene	53	3.066	3.066	0.000	89	742801	50.0	46.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Tert-butyl ethyl ether	59	3.389	3.389	0.000	97	1475543	50.0	47.5	
37 cis-1,2-Dichloroethene	96	3.511	3.511	0.000	80	537869	50.0	50.4	
38 2-Butanone (MEK)	43	3.517	3.517	0.000	88	588912	100.0	101.0	
39 2,2-Dichloropropane	77	3.523	3.523	0.000	86	548261	50.0	35.5	
40 Propionitrile	54	3.566	3.566	0.000	99	488792	250.0	279.2	
41 Methacrylonitrile	67	3.712	3.712	0.000	90	681572	125.0	132.3	
42 Chlorobromomethane	128	3.736	3.736	0.000	95	252600	50.0	52.2	
43 Tetrahydrofuran	71	3.773	3.773	0.000	91	424670	250.0	275.2	
44 Chloroform	83	3.816	3.816	0.000	93	824209	50.0	49.4	
$ 45 Dibromofluoromethane (Surr)	113	3.968	3.968	0.000	93	318912	50.0	49.9	
46 1,1,1-Trichloroethane	97	3.999	3.999	0.000	98	764446	50.0	48.8	
47 Cyclohexane	56	4.053	4.053	0.000	89	928919	50.0	48.7	
48 1,1-Dichloropropene	75	4.151	4.151	0.000	98	713079	50.0	50.5	
49 Carbon tetrachloride	117	4.163	4.163	0.000	95	644332	50.0	50.7	
50 Isobutyl alcohol	41	4.273	4.273	0.000	96	275467	625.0	658.5	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.285	4.285	0.000	99	363832	50.0	46.5	
52 Benzene	78	4.346	4.346	0.000	95	2153789	50.0	51.0	
53 1,2-Dichloroethane	62	4.358	4.358	0.000	97	596649	50.0	45.6	
54 Tert-amyl methyl ether	73	4.480	4.480	0.000	99	1472279	50.0	48.7	
* 55 Fluorobenzene (IS)	96	4.626	4.626	0.000	99	1413134	50.0	50.0	
56 n-Heptane	43	4.639	4.639	0.000	90	529646	50.0	36.1	
57 n-Butanol	56	4.943	4.943	0.000	88	241068	625.0	703.4	
59 Trichloroethene	95	4.998	4.998	0.000	98	538655	50.0	50.8	
60 Methylcyclohexane	83	5.200	5.200	0.000	92	958722	50.0	49.4	
61 1,2-Dichloropropane	63	5.212	5.212	0.000	97	525081	50.0	50.9	
131 2-ethoxy-2-methyl butane	87	5.285	5.285	0.000	95	768864	50.0	48.8	
62 Dibromomethane	93	5.334	5.334	0.000	96	300442	50.0	49.8	
63 1,4-Dioxane	88	5.364	5.364	0.000	33	88295	625.0	742.5	M
64 Methyl methacrylate	69	5.364	5.364	0.000	92	425237	50.0	52.9	
65 Dichlorobromomethane	83	5.504	5.504	0.000	99	591845	50.0	48.9	
67 2-Nitropropane	41	5.736	5.736	0.000	97	705799	250.0	219.9	
68 2-Chloroethyl vinyl ether	63	5.840	5.840	0.000	91	385019	50.0	53.6	
69 cis-1,3-Dichloropropene	75	5.980	5.980	0.000	97	772834	50.0	47.4	
71 4-Methyl-2-pentanone (MIBK)	43	6.157	6.157	0.000	95	1257027	100.0	101.2	a
$ 72 Toluene-d8 (Surr)	98	6.266	6.266	0.000	93	1411924	50.0	50.5	
73 Toluene	92	6.340	6.340	0.000	98	1363236	50.0	50.6	
74 trans-1,3-Dichloropropene	75	6.583	6.583	0.000	91	677549	50.0	45.6	
75 Ethyl methacrylate	69	6.718	6.718	0.000	88	734261	50.0	50.6	
76 1,1,2-Trichloroethane	97	6.778	6.778	0.000	89	460576	50.0	52.2	
77 Tetrachloroethene	166	6.931	6.931	0.000	97	558769	50.0	52.7	
78 1,3-Dichloropropane	76	6.955	6.955	0.000	89	789438	50.0	51.0	
80 2-Hexanone	43	7.077	7.077	0.000	96	908526	100.0	104.1	
81 Chlorodibromomethane	129	7.199	7.199	0.000	90	481541	50.0	53.0	
82 Ethylene Dibromide	107	7.303	7.303	0.000	98	481281	50.0	52.1	
* 84 Chlorobenzene-d5 (IS)	117	7.784	7.784	0.000	83	1057507	50.0	50.0	
85 Chlorobenzene	112	7.809	7.809	0.000	95	1429860	50.0	50.6	
86 1-Chlorohexane	91	7.821	7.821	0.000	96	720476	50.0	47.9	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	96	473356	50.0	50.4	
88 Ethylbenzene	91	7.931	7.931	0.000	97	2560260	50.0	50.4	
89 m-Xylene & p-Xylene	106	8.040	8.040	0.000	100	1990427	100.0	101.5	
91 o-Xylene	106	8.388	8.388	0.000	96	982748	50.0	51.2	
92 Styrene	104	8.400	8.400	0.000	95	1584431	50.0	53.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
93 Bromoform	173	8.540	8.540	0.000	97	343477	50.0	55.9	
94 Isopropylbenzene	105	8.711	8.711	0.000	95	2546874	50.0	51.5	
$ 96 4-Bromofluorobenzene (Surr)	95	8.821	8.821	0.000	91	514371	50.0	48.3	
97 Bromobenzene	156	8.937	8.937	0.000	91	581447	50.0	53.2	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	93	703146	50.0	52.5	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	84	213942	50.0	54.2	
100 trans-1,4-Dichloro-2-butene	53	8.991	8.991	0.000	89	395332	125.0	93.2	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	2940490	50.0	51.1	
102 2-Chlorotoluene	126	9.095	9.095	0.000	97	579251	50.0	50.0	
103 1,3,5-Trimethylbenzene	105	9.180	9.180	0.000	88	2056426	50.0	50.2	
104 4-Chlorotoluene	126	9.180	9.180	0.000	95	584576	50.0	50.6	
105 tert-Butylbenzene	134	9.430	9.430	0.000	92	440455	50.0	50.4	
107 1,2,4-Trimethylbenzene	105	9.461	9.461	0.000	97	2092611	50.0	51.0	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	2545415	50.0	51.0	
109 1,3-Dichlorobenzene	146	9.662	9.662	0.000	98	1096269	50.0	51.1	
110 4-Isopropyltoluene	119	9.699	9.699	0.000	97	2163524	50.0	50.4	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	96	559469	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.723	9.723	0.000	96	1116493	50.0	51.2	
113 1,2,3-Trimethylbenzene	105	9.772	9.772	0.000	98	2074080	50.0	49.7	
114 Benzyl chloride	91	9.827	9.827	0.000	98	813511	50.0	29.0	a
115 1,3-Diethylbenzene	119	9.918	9.918	0.000	95	1266815	50.0	49.3	a
116 p-Diethylbenzene	119	9.973	9.973	0.000	94	1292327	50.0	48.2	a
119 1,2-Dichlorobenzene	146	9.991	9.991	0.000	97	1075777	50.0	52.2	
118 n-Butylbenzene	92	9.991	9.991	0.000	97	1001265	50.0	47.4	
120 o-diethylbenzene	119	10.058	10.058	0.000	94	1061815	50.0	49.5	a
122 1,2-Dibromo-3-Chloropropane	75	10.528	10.528	0.000	88	140209	50.0	48.2	
123 1,3,5-Trichlorobenzene	180	10.674	10.674	0.000	98	704319	50.0	49.5	
124 1,2,4-Trichlorobenzene	180	11.083	11.083	0.000	94	663945	50.0	51.0	
126 Hexachlorobutadiene	225	11.198	11.198	0.000	97	250670	50.0	50.5	
127 Naphthalene	128	11.241	11.241	0.000	96	2302810	50.0	51.0	
128 1,2,3-Trichlorobenzene	180	11.400	11.400	0.000	96	640987	50.0	50.9	
129 2-Methylnaphthalene	142	11.960	11.960	0.000	93	1033908	50.0	43.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#3_00044	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00042	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#1_00045	Amount Added:	5.00	Units: uL	
MSV_CCV_GASES_00125	Amount Added:	2.50	Units: uL	
MSV_CCV_EE_00001	Amount Added:	5.00	Units: uL	
MSV_Cent_ISSS_00004	Amount Added:	5.00	Units: uL	Run Reagent

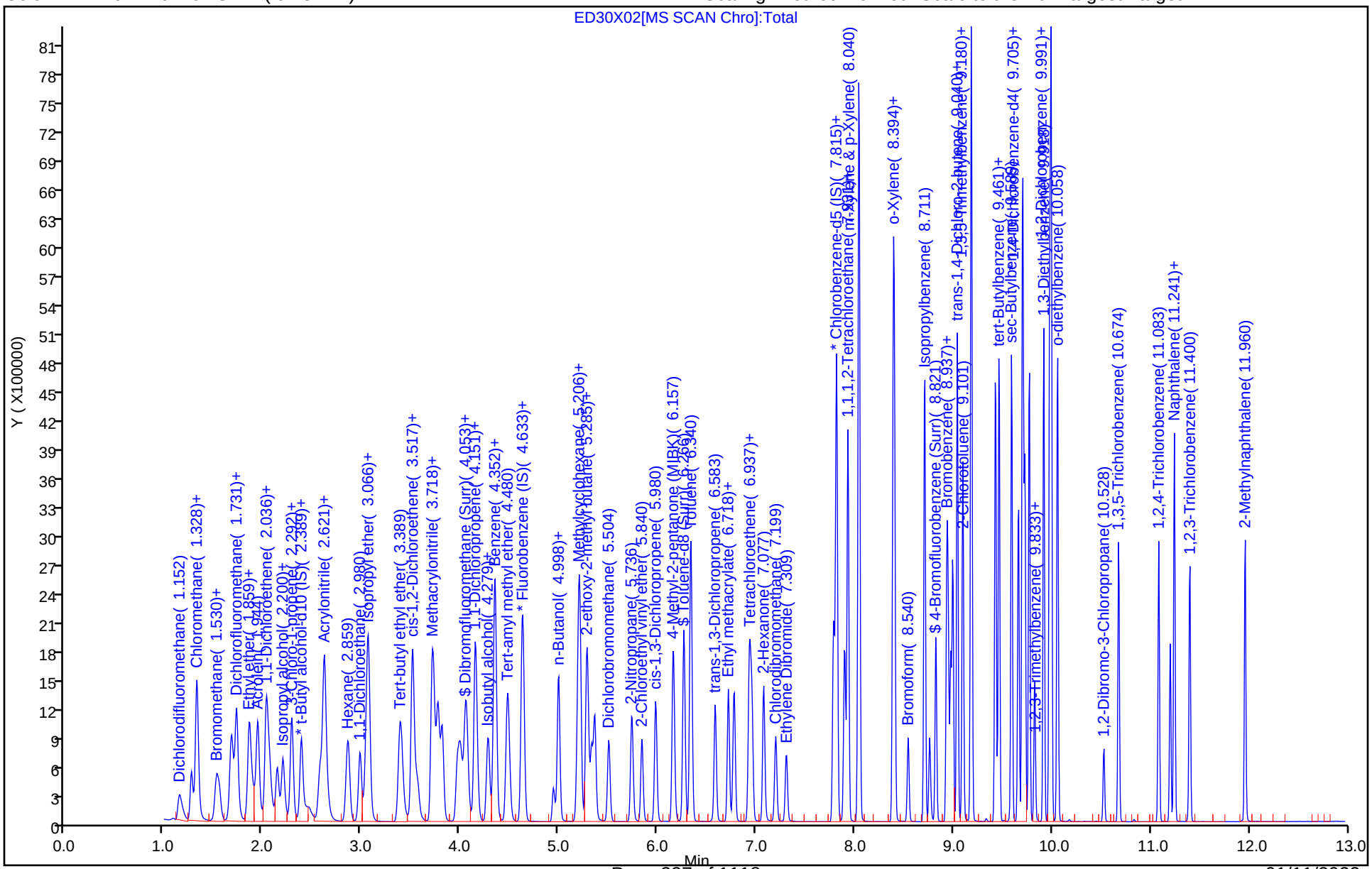
Report Date: 30-Dec-2021 17:37:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X02.D

Injection Date:	30-Dec-2021 16:23:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

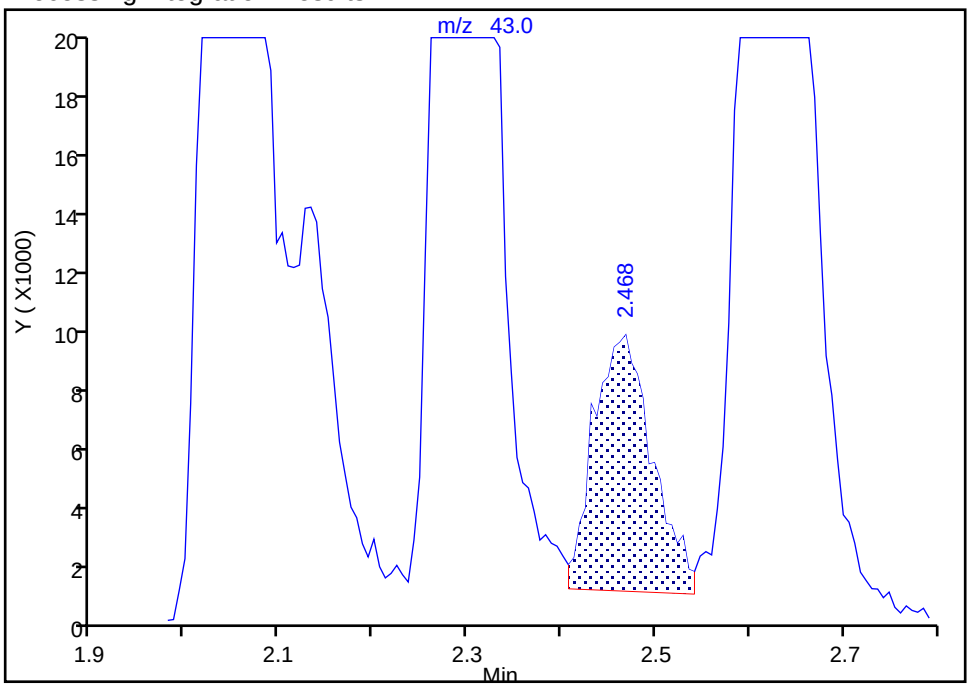
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Injection Date:	30-Dec-2021 16:23:30	Instrument ID:	15648		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	sej02002	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

23 Methyl acetate, CAS: 79-20-9

Signal: 1

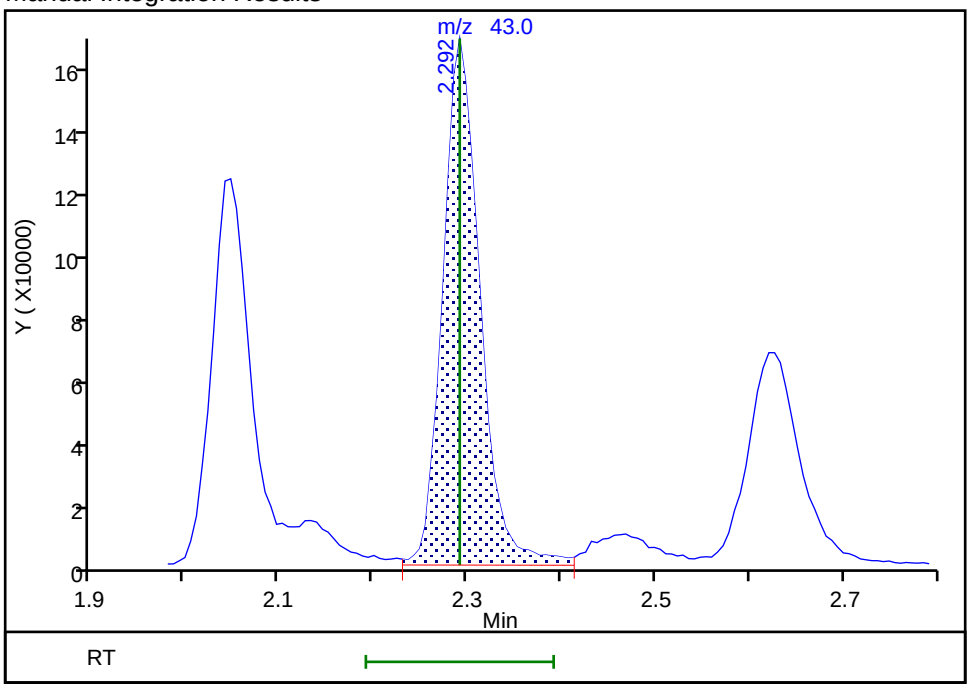
Processing Integration Results

RT: 2.47
Area: 36233
Amount: 4.162063
Amount Units: ug/l



Manual Integration Results

RT: 2.29
Area: 450064
Amount: 51.698581
Amount Units: ug/l



Reviewer: johnsons, 30-Dec-2021 17:04:10

Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

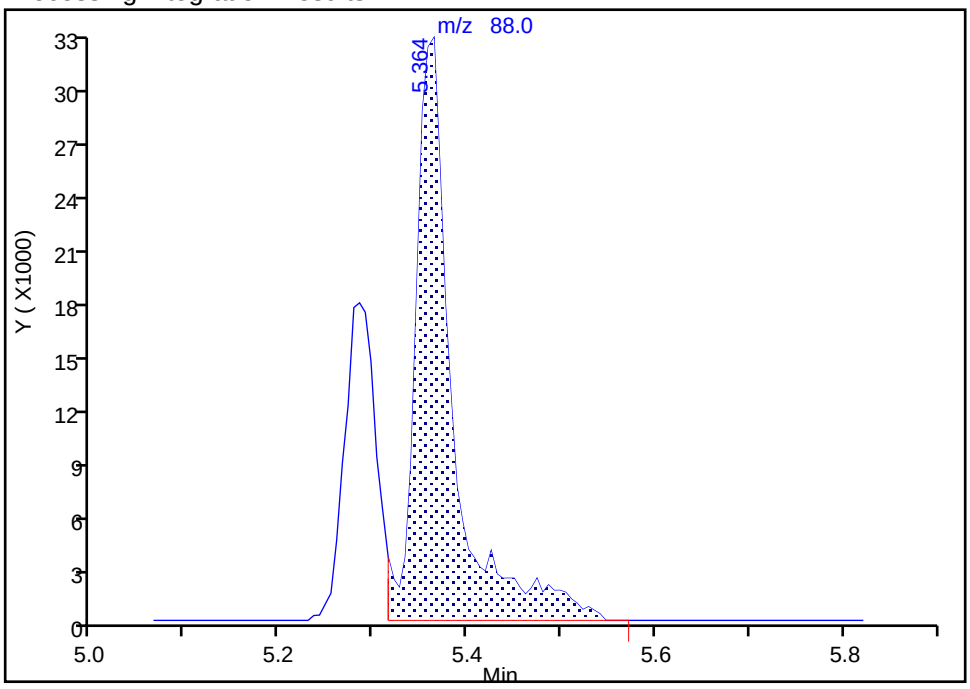
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Injection Date:	30-Dec-2021 16:23:30	Instrument ID:	15648		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	sej02002	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

63 1,4-Dioxane, CAS: 123-91-1

Signal: 1

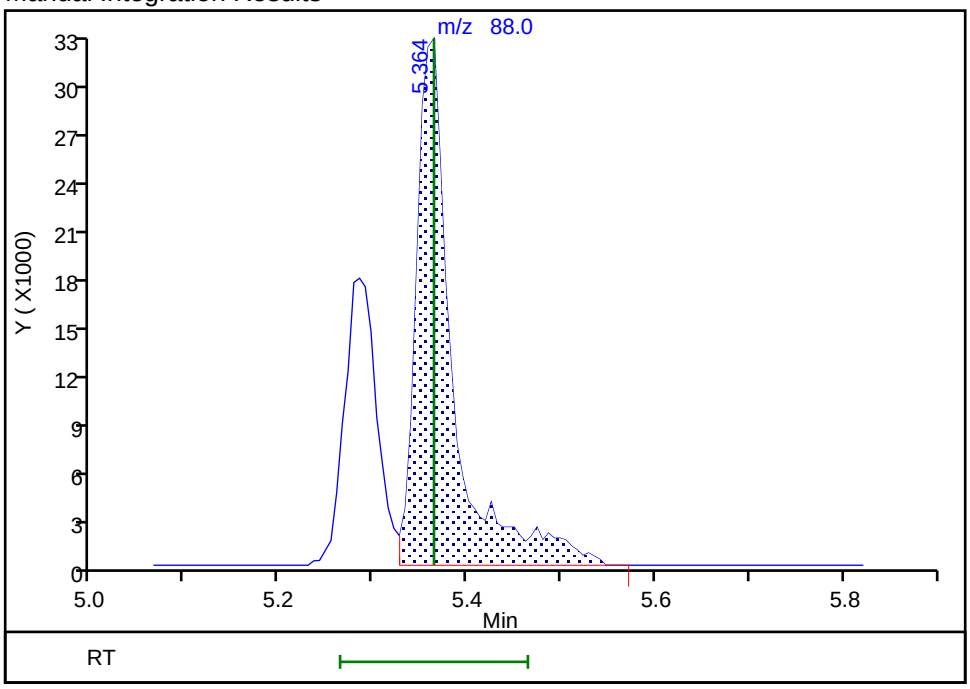
Processing Integration Results

RT: 5.36
Area: 90417
Amount: 760.3626
Amount Units: ug/l



Manual Integration Results

RT: 5.36
Area: 88295
Amount: 742.5176
Amount Units: ug/l



Reviewer: johnsons, 30-Dec-2021 17:07:17

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC

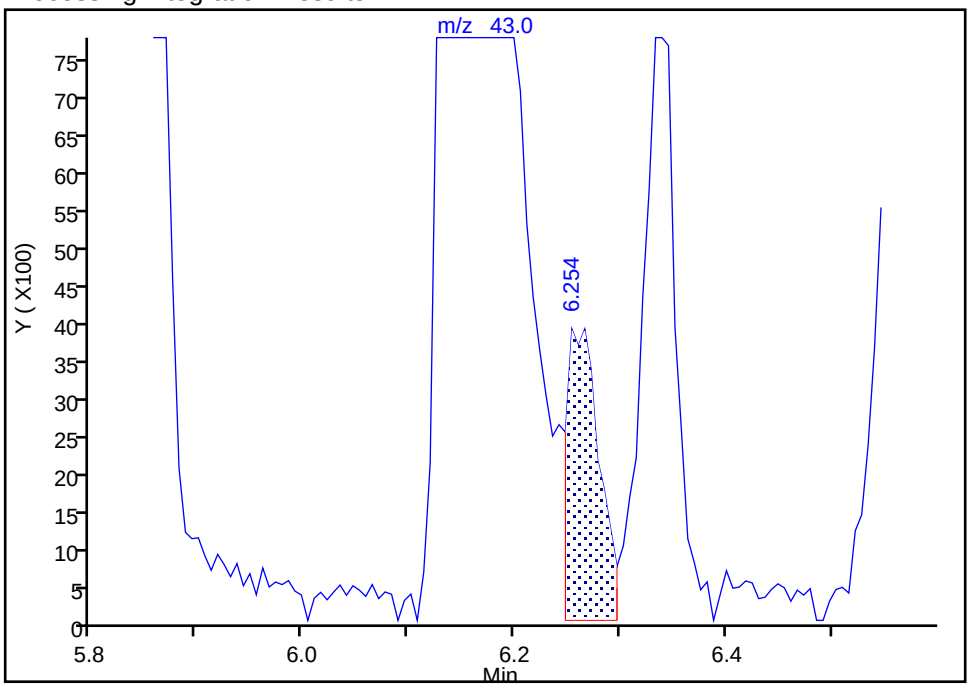
Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X02.D				
Injection Date:	30-Dec-2021 16:23:30	Instrument ID:	15648		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	sej02002	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

71 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

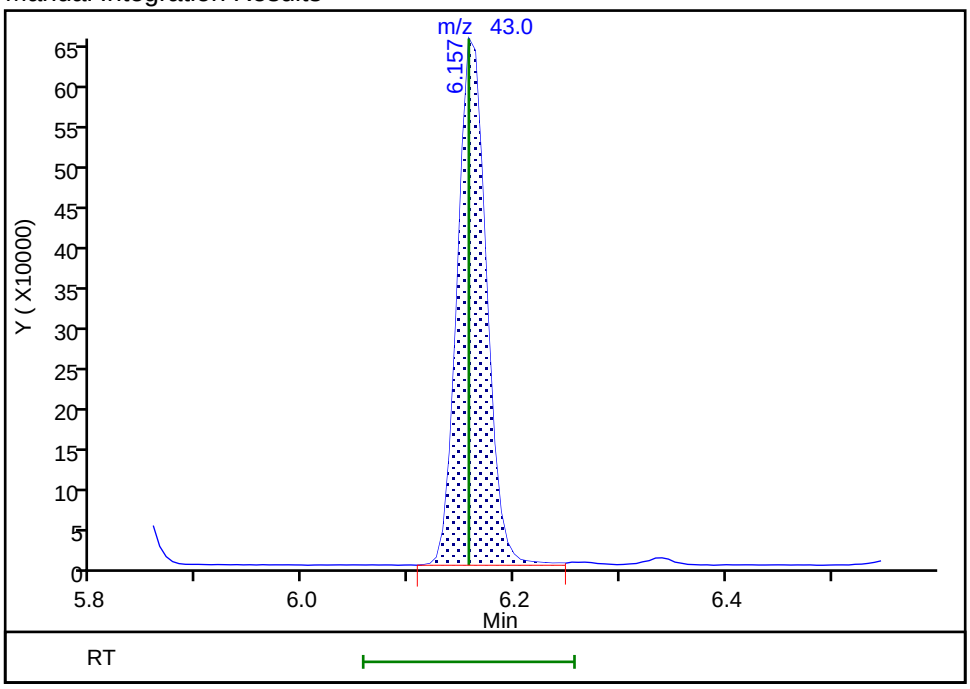
Processing Integration Results

RT: 6.25
Area: 8457
Amount: 0.680618
Amount Units: ug/l



Manual Integration Results

RT: 6.16
Area: 1257027
Amount: 101.1653
Amount Units: ug/l



Reviewer: johnsons, 30-Dec-2021 16:54:11
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

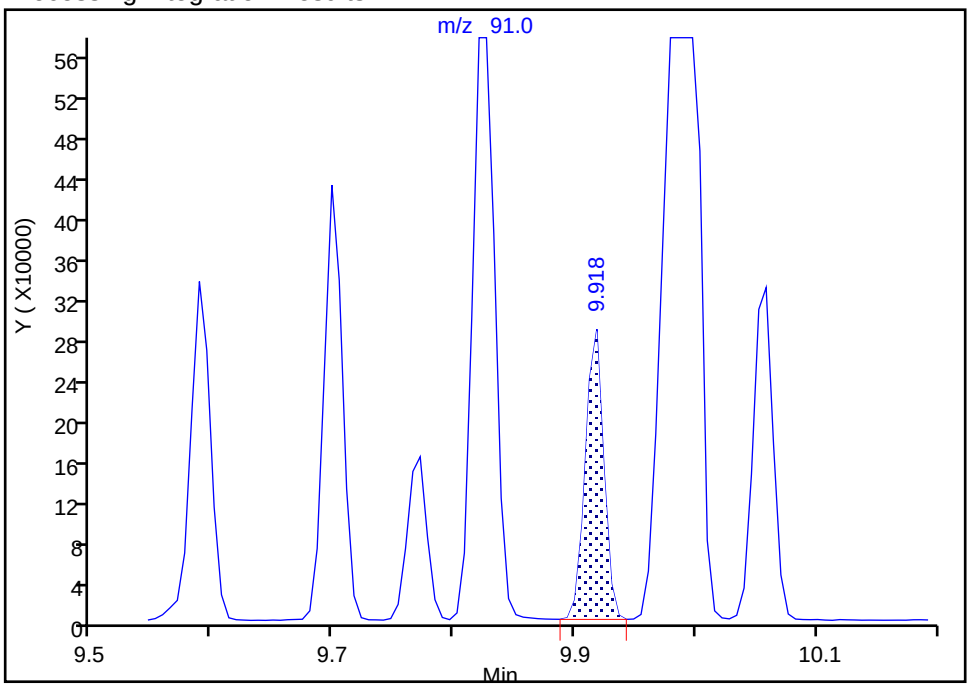
Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X02.D				
Injection Date:	30-Dec-2021 16:23:30	Instrument ID:	15648		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	sej02002	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

114 Benzyl chloride, CAS: 100-44-7

Signal: 1

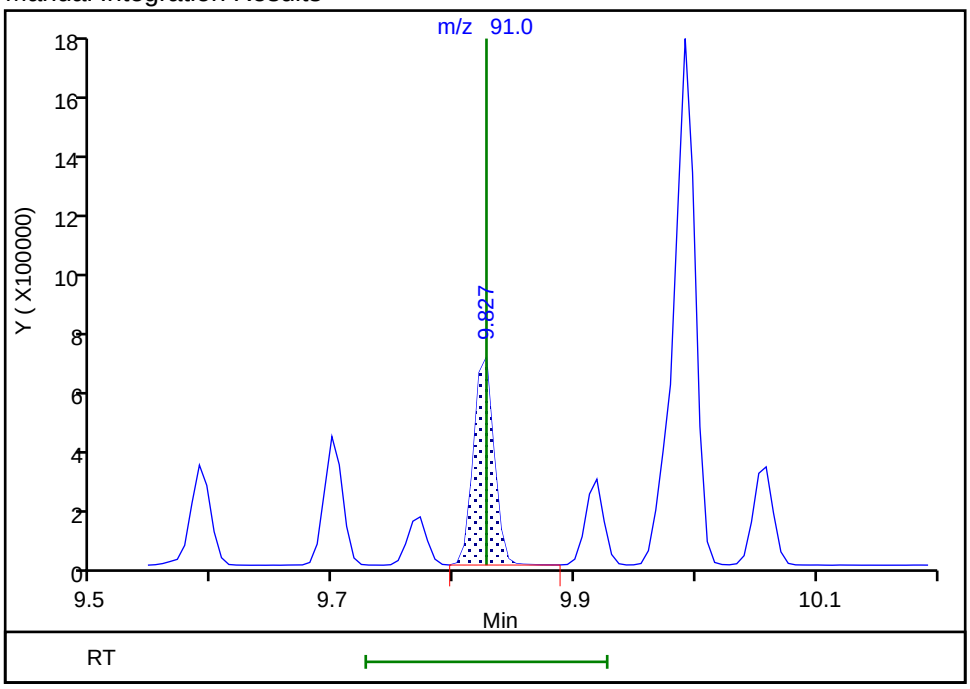
Processing Integration Results

RT: 9.92
Area: 299225
Amount: 10.654317
Amount Units: ug/l



Manual Integration Results

RT: 9.83
Area: 813511
Amount: 28.966175
Amount Units: ug/l



Reviewer: johnsons, 30-Dec-2021 17:02:08
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

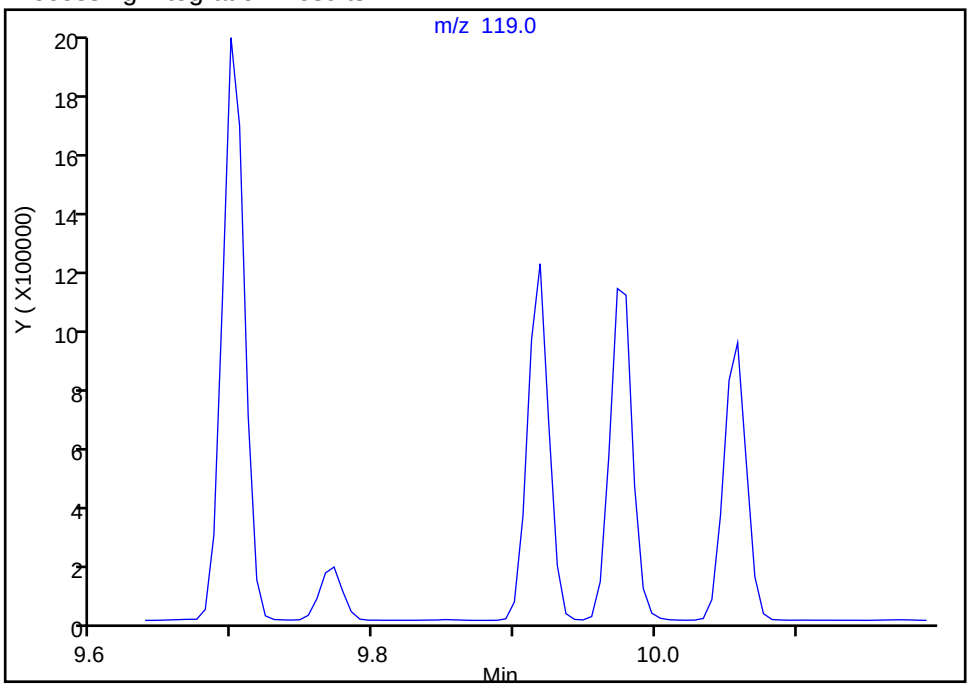
Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X02.D				
Injection Date:	30-Dec-2021 16:23:30	Instrument ID:	15648		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	sej02002	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

115 1,3-Diethylbenzene, CAS: 141-93-5

Signal: 1

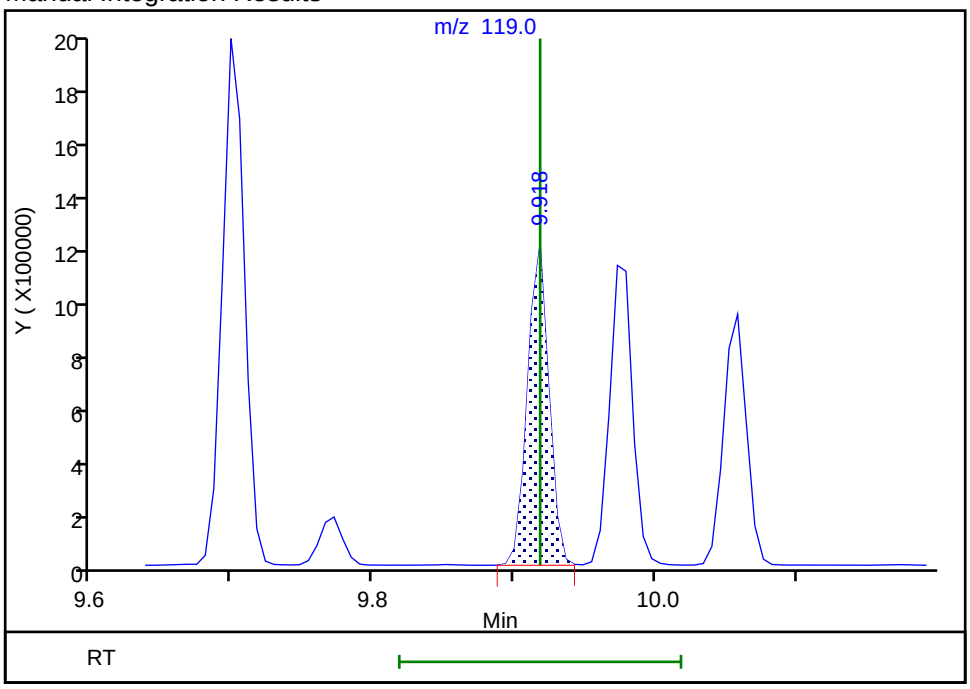
Not Detected
Expected RT: 9.92

Processing Integration Results



Manual Integration Results

RT: 9.92
Area: 1266815
Amount: 49.319424
Amount Units: ug/l



Reviewer: johnsons, 30-Dec-2021 17:02:19
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

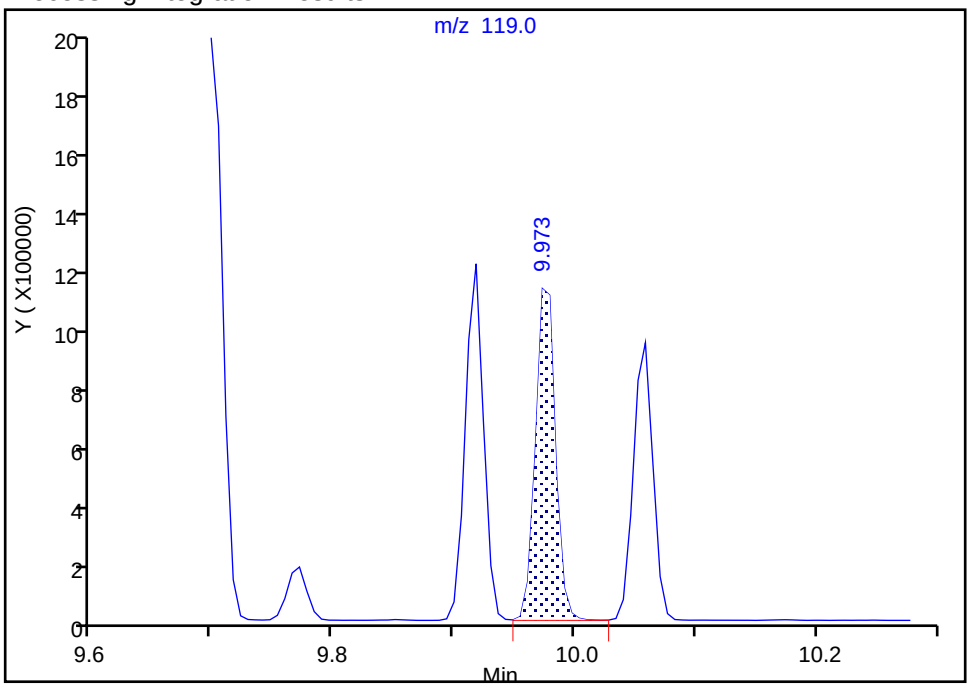
Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X02.D
Injection Date: 30-Dec-2021 16:23:30 Instrument ID: 15648
Lims ID: CCVIS
Client ID:
Operator ID: sej02002 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_15648 Limit Group: MSV - 8260C_D
Column: DB-624 20m 0.18mm (0.18 mm) Detector MS Quad

116 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

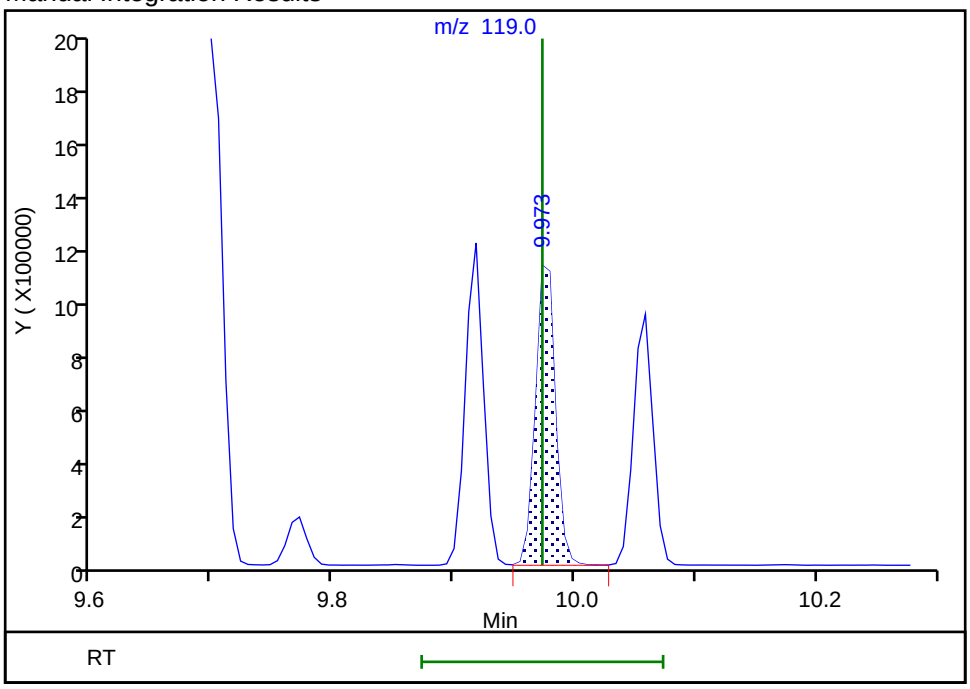
Processing Integration Results

RT: 9.97
Area: 1292327
Amount: 48.165214
Amount Units: ug/l



Manual Integration Results

RT: 9.97
Area: 1292327
Amount: 48.165214
Amount Units: ug/l



Reviewer: johnsons, 30-Dec-2021 17:06:50
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

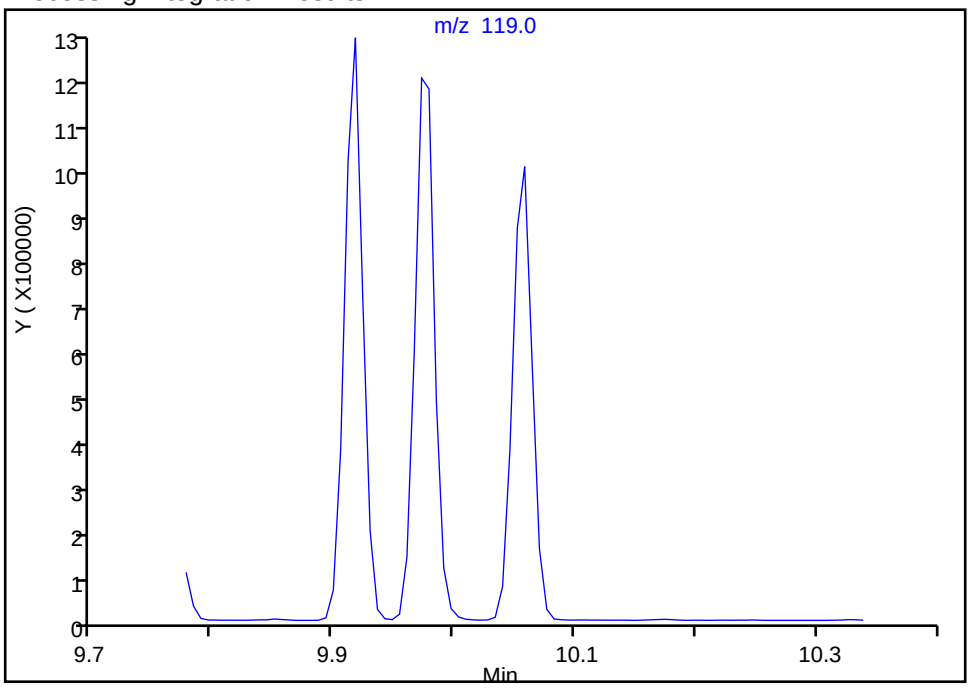
Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X02.D				
Injection Date:	30-Dec-2021 16:23:30	Instrument ID:	15648		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	sej02002	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		
Column:	DB-624 20m 0.18mm (0.18 mm)	Detector	MS Quad		

120 o-diethylbenzene, CAS: 135-01-3

Signal: 1

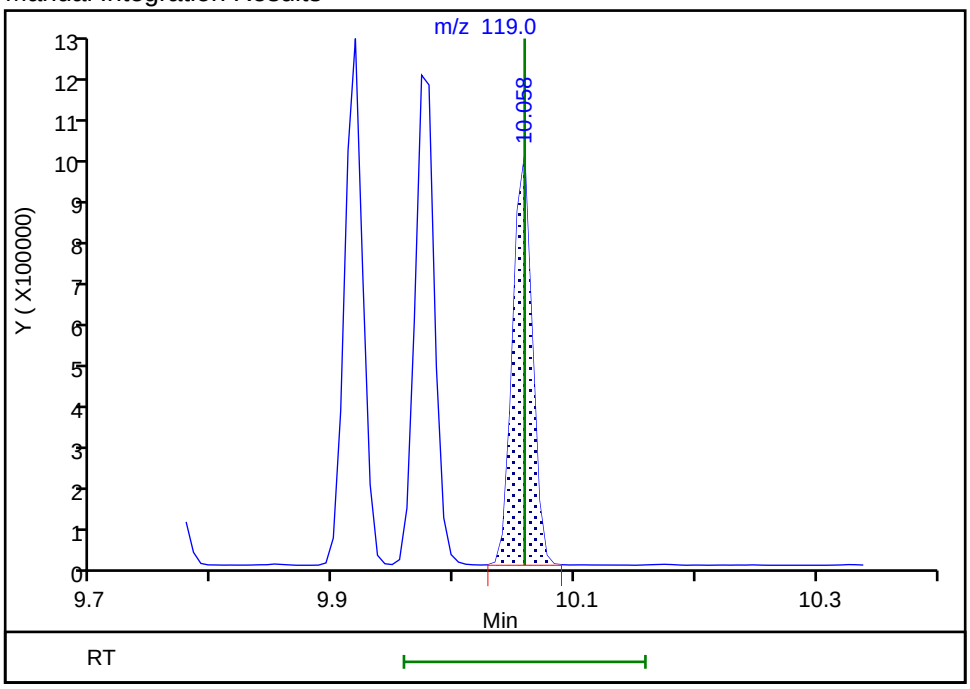
Not Detected
Expected RT: 10.06

Processing Integration Results



Manual Integration Results

RT: 10.06
Area: 1061815
Amount: 49.473464
Amount Units: ug/l



Reviewer: johnsons, 30-Dec-2021 17:06:41
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	06-Oct-2021 14:08:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-004878-001				
Misc. Info.:	BFB				
Operator ID:	jml01693	Instrument ID:	15648		
Method:	\\chromfs\Lancaster\ChromData\15648\20211006-40878.b\MSVoa_15648.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2021 14:32:37	Calib Date:	21-Sep-2021 16:51:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\15648\20210921-39623.b\ES21X17.D				
Column 1 :	DB-624 20m 0.18mm (0.18 mm)		Det: MS Quad		
Process Host:	CTX1630				
First Level Reviewer: longj		Date:	06-Oct-2021 14:32:37		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 161 BFB	95	3.971	3.971	0.000	0	176712	NC	NC	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

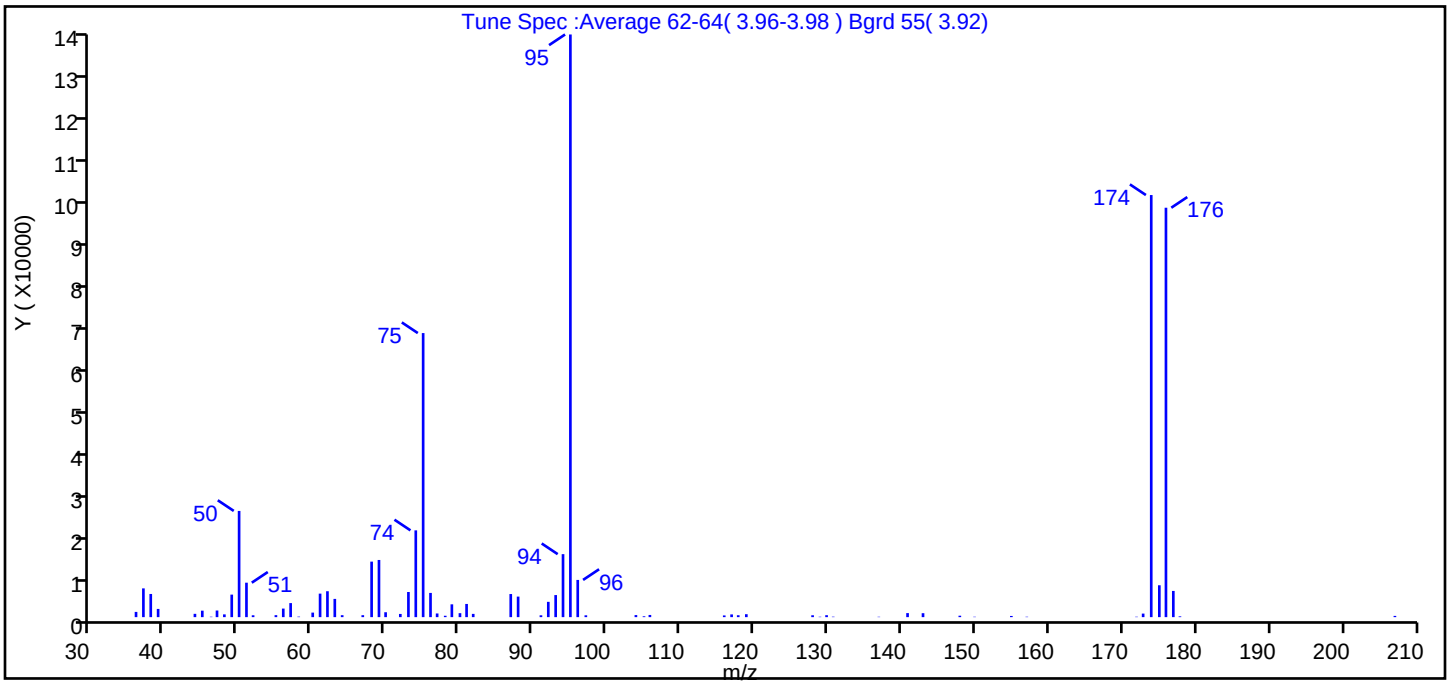
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06T01.D
Injection Date: 06-Oct-2021 14:08:30 Instrument ID: 15648
Lims ID: bfb
Client ID:
Operator ID: jml01693 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_15648 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 161 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.2
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.6 (0.8)
174	50 to 120% of m/z 95	72.4
175	5 to 9% of m/z 174	5.5 (7.6)
176	Greater than 95% but less than 101% of m/z 174	70.3 (97.0)
177	5 to 9% of m/z 176	4.5 (6.4)

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06T01.D\MSVoa_15648.rslt\spectra.d
Injection Date: 06-Oct-2021 14:08:30
Spectrum: Tune Spec :Average 62-64(3.96-3.98) Bgrd 55(3.92)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1229	61.00	5518	82.00	765	129.00	93
37.00	6748	62.00	6080	87.00	5420	130.00	457
38.00	5437	63.00	4281	88.00	4821	131.00	108
39.00	1927	64.00	459	91.00	433	137.00	88
44.00	777	67.00	459	92.00	3590	141.00	949
45.00	1520	68.00	13026	93.00	5180	143.00	926
46.00	99	69.00	13413	94.00	14780	148.00	336
47.00	1554	70.00	1151	95.00	136704	150.00	90
48.00	649	72.00	751	96.00	8732	155.00	279
49.00	5285	73.00	5900	97.00	431	157.00	96
50.00	24920	74.00	20360	104.00	483	172.00	98
51.00	8083	75.00	66648	105.00	197	173.00	834
52.00	438	76.00	5683	106.00	513	174.00	99032
55.00	466	77.00	861	116.00	401	175.00	7480
56.00	2009	78.00	325	117.00	641	176.00	96056
57.00	3296	79.00	3007	118.00	449	177.00	6148
58.00	122	80.00	932	119.00	691	178.00	180
60.00	1066	81.00	3095	128.00	442	207.00	293

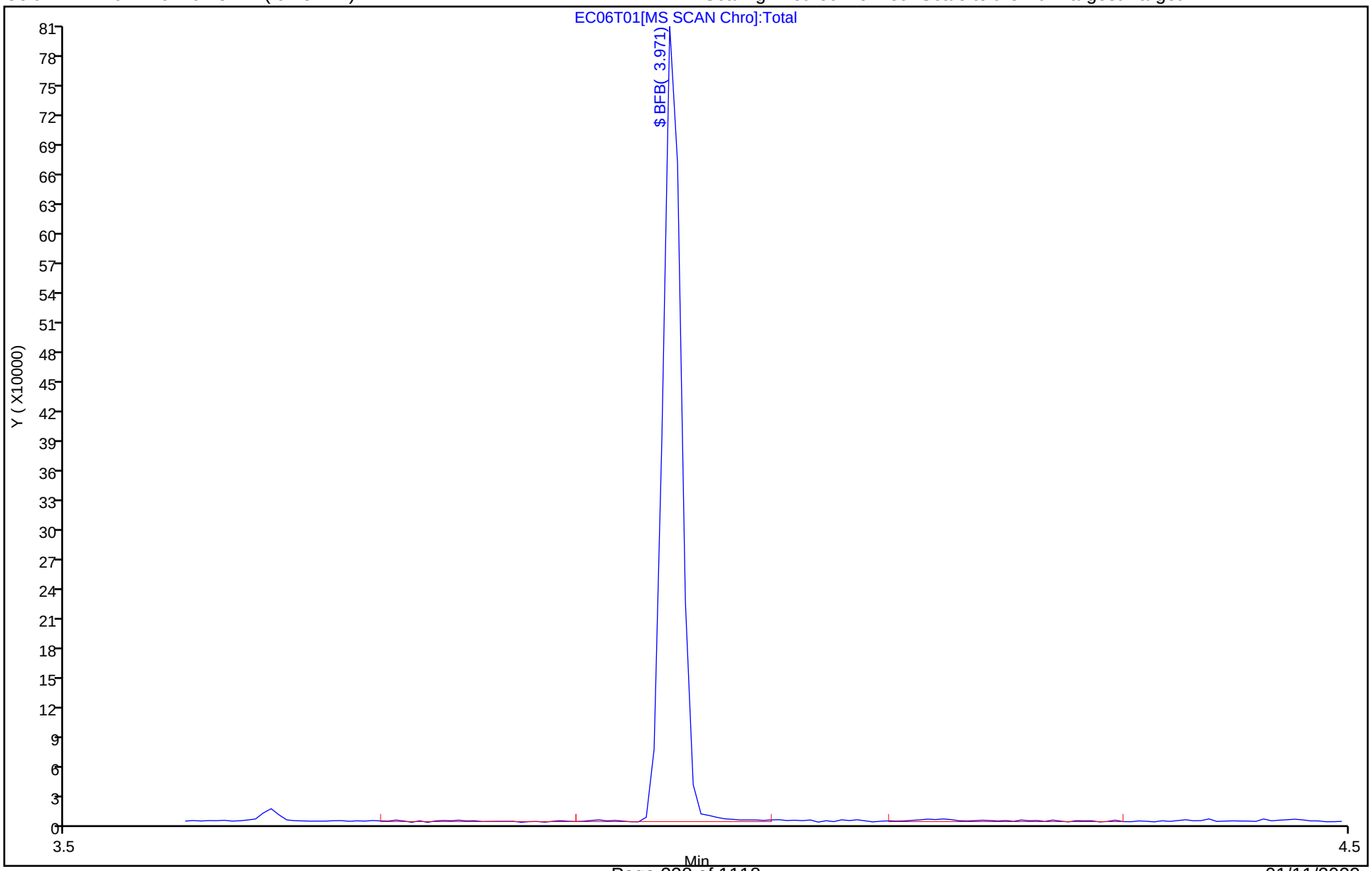
Report Date: 06-Oct-2021 14:32:37 Chrom Revision: 2.3 22-Sep-2021 15:38:46

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06T01.D

Injection Date:	06-Oct-2021 14:08:30	Instrument ID:	15648	Operator ID:	jml01693
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Dec-2021 15:38:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0047508-001				
Misc. Info.:	BFB				
Operator ID:	sej02002	Instrument ID:	15648		
Method:	\\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Dec-2021 17:37:13	Calib Date:	06-Oct-2021 16:55:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D				
Column 1 :	DB-624 20m 0.18mm (0.18 mm)		Det: MS Quad		
Process Host:	CTX1644				
First Level Reviewer: johnsons		Date:	30-Dec-2021 15:48:37		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 161 BFB	95	3.977	3.977	0.000	0	540887	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

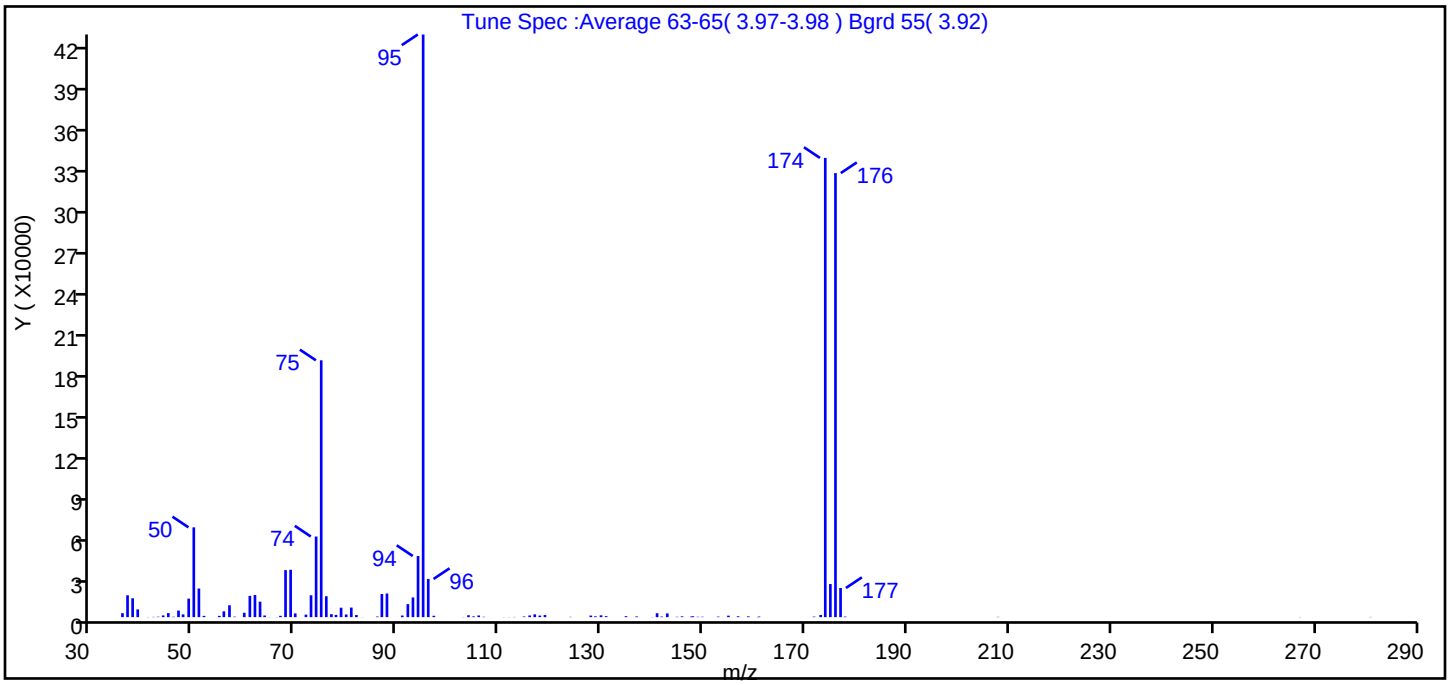
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30T01.D
Injection Date: 30-Dec-2021 15:38:30 Instrument ID: 15648
Lims ID: BFB
Client ID:
Operator ID: sej02002 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_15648 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 161 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.4
75	30 to 60% of m/z 95	44.1
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	78.8
175	5 to 9% of m/z 174	5.7 (7.2)
176	Greater than 95% but less than 101% of m/z 174	76.2 (96.7)
177	5 to 9% of m/z 176	5.0 (6.6)

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30T01.D\MSVoa_15648.rslt\spectra.d
Injection Date: 30-Dec-2021 15:38:30
Spectrum: Tune Spec :Average 63-65(3.97-3.98) Bgrd 55(3.92)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2927	65.00	101	95.00	428032	142.00	436
37.00	16064	66.00	88	96.00	28048	143.00	2736
38.00	13860	67.00	968	97.00	1017	145.00	272
39.00	5700	68.00	34560	103.00	106	146.00	594
41.00	114	69.00	34808	104.00	1386	148.00	362
42.00	180	70.00	2739	105.00	578	148.00	654
43.00	318	72.00	1832	106.00	1220	149.00	264
44.00	1253	73.00	16064	107.00	271	150.00	280
45.00	2947	74.00	59240	111.00	105	153.00	390
46.00	287	75.00	188672	112.00	93	155.00	1083
47.00	4831	76.00	15368	113.00	152	157.00	644
48.00	2010	77.00	2193	115.00	470	159.00	564
49.00	13584	78.00	1651	116.00	1230	161.00	87
50.00	65960	79.00	6931	117.00	2048	161.00	452
51.00	21024	80.00	1954	118.00	1163	172.00	391
52.00	924	81.00	7034	119.00	1544	173.00	1577
55.00	940	82.00	1534	124.00	215	174.00	337344
56.00	4256	83.00	90	128.00	1165	175.00	24320
57.00	8716	86.00	454	129.00	608	176.00	326208
58.00	357	87.00	17000	130.00	1340	177.00	21408
60.00	3201	88.00	17352	131.00	729	178.00	419
61.00	15619	91.00	1187	135.00	715	208.00	206
62.00	16249	92.00	9567	137.00	523	267.00	113
63.00	11375	93.00	14471	140.00	131	281.00	146
64.00	1212	94.00	44920	141.00	2861		

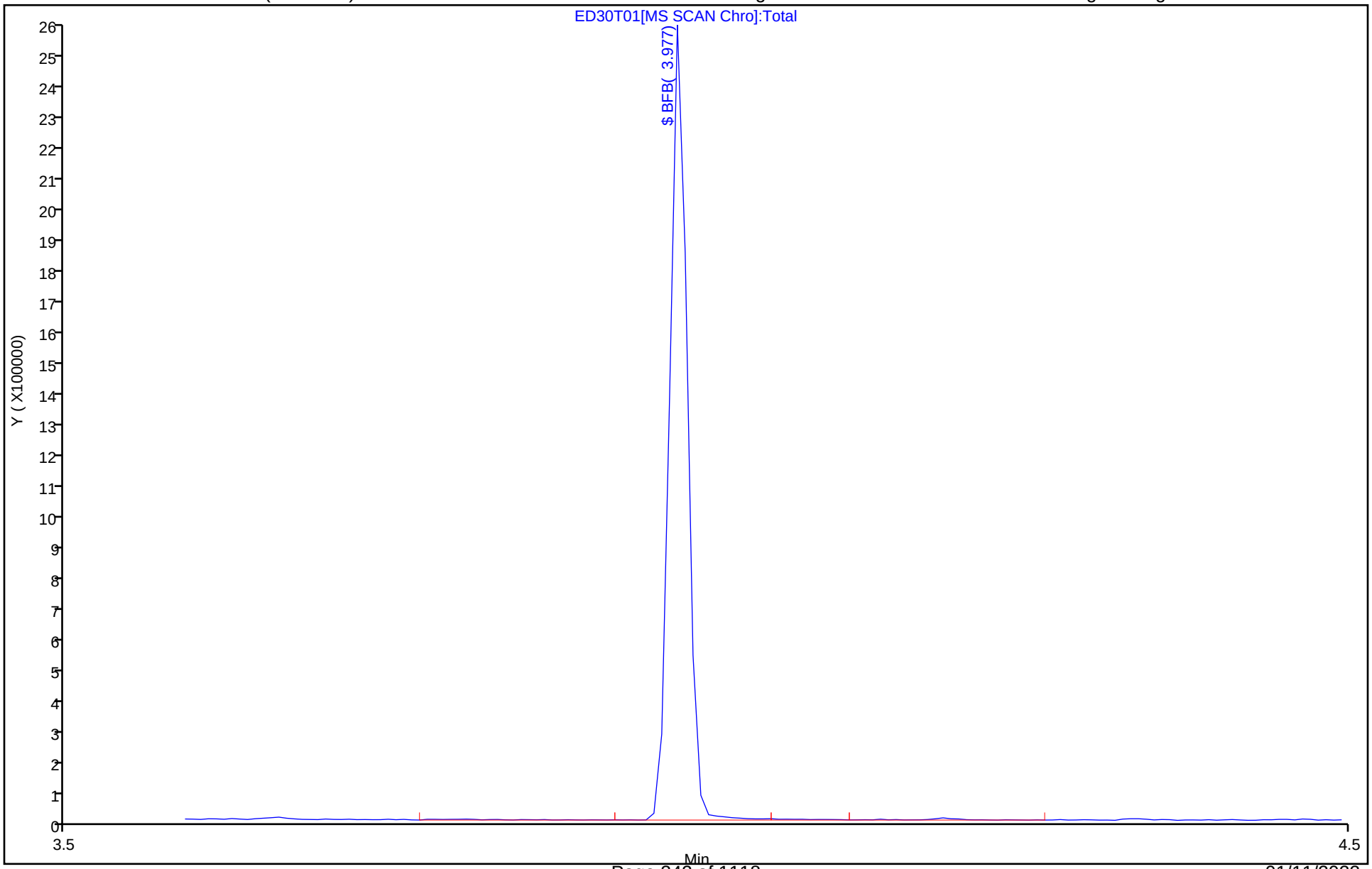
Report Date: 30-Dec-2021 17:37:14 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30T01.D

Injection Date:	30-Dec-2021 15:38:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-210699/6

Matrix: Water Lab File ID: ED30X05.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 17:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 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	0.20
1330-20-7	Xylenes, Total	ND		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	ND		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Dec-2021 17:24:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-006
Misc. Info.: MB
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:27:42 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 19:27:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
10 Chlorotrifluoroethene	116		1.145					ND	
1 Dichlorodifluoromethane	85		1.152					ND	
2 Chloromethane	50		1.273					ND	
11 Chlorodifluoromethane	51		1.322					ND	7
3 Butadiene	39		1.328					ND	7
4 Vinyl chloride	62		1.334					ND	
20 2-Chloro-1,1,1-Trifluoroethane	118		1.371					ND	
5 Bromomethane	94		1.530					ND	7
6 Chloroethane	64		1.554					ND	
7 Dichlorofluoromethane	67		1.676					ND	
8 Trichlorofluoromethane	101		1.719					ND	
9 Pentane	43		1.731					ND	
33 Ethanol	45		1.773					ND	
12 Ethyl ether	59		1.859					ND	
13 1,2-Dichloro-1,1,2-trifluoroetha	67		1.865					ND	
14 Acrolein	56		1.944					ND	
15 1,1-Dichloroethene	96		2.029					ND	
17 Acetone	58		2.048					ND	
16 112TCTFE	101		2.054					ND	
18 Isopropyl alcohol	45		2.133					ND	
19 Iodomethane	142		2.145					ND	
21 Carbon disulfide	76		2.200					ND	7
22 3-Chloro-1-propene	41		2.292					ND	
23 Methyl acetate	43		2.292					ND	
31 Acetonitrile	41		2.298					ND	
24 Methylene Chloride	84		2.389					ND	
* 25 t-Butyl alcohol-d10 (IS)	65	2.395	2.395	0.000	17	227470	250.0	250.0	
26 2-Methyl-2-propanol	59		2.462					ND	
27 Acrylonitrile	53		2.578					ND	
29 trans-1,2-Dichloroethene	96		2.621					ND	
28 Methyl tert-butyl ether	73		2.621					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
30 Hexane	57		2.859				ND		
32 1,1-Dichloroethane	63		2.980				ND		
58 Vinyl acetate	43		3.029				ND		
34 Isopropyl ether	45		3.060				ND		
35 2-Chloro-1,3-butadiene	53		3.066				ND		
36 Tert-butyl ethyl ether	59		3.389				ND		
37 cis-1,2-Dichloroethene	96		3.511				ND		
38 2-Butanone (MEK)	43		3.517				ND		
39 2,2-Dichloropropane	77		3.523				ND		
66 Ethyl acetate	43		3.535				ND		
40 Propionitrile	54		3.566				ND		
41 Methacrylonitrile	67		3.712				ND		
42 Chlorobromomethane	128		3.736				ND		
43 Tetrahydrofuran	71		3.773				ND		
44 Chloroform	83		3.816				ND		
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	320776	50.0	48.9	
46 1,1,1-Trichloroethane	97		3.999				ND		
47 Cyclohexane	56		4.053				ND		
48 1,1-Dichloropropene	75		4.151				ND		
49 Carbon tetrachloride	117		4.163				ND		
50 Isobutyl alcohol	41		4.273				ND		
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	75	372514	50.0	46.4	
52 Benzene	78		4.346				ND		
53 1,2-Dichloroethane	62		4.358				ND		7
79 Isopropyl acetate	43		4.450				ND		
54 Tert-amyl methyl ether	73		4.480				ND		
* 55 Fluorobenzene (IS)	96	4.626	4.626	0.000	99	1450596	50.0	50.0	
56 n-Heptane	43		4.639				ND		
57 n-Butanol	56		4.943				ND		
59 Trichloroethene	95		4.998				ND		
60 Methylcyclohexane	83		5.200				ND		
61 1,2-Dichloropropane	63		5.212				ND		
131 2-ethoxy-2-methyl butane	87		5.285				ND		
62 Dibromomethane	93		5.334				ND		
63 1,4-Dioxane	88		5.364				ND		
64 Methyl methacrylate	69		5.364				ND		
90 n-Propyl acetate	61		5.443				ND		
65 Dichlorobromomethane	83		5.504				ND		
67 2-Nitropropane	41		5.736				ND		
68 2-Chloroethyl vinyl ether	63		5.840				ND		
69 cis-1,3-Dichloropropene	75		5.980				ND		
S 70 1,2-Dichloroethene, Total	100		6.155				ND		7
71 4-Methyl-2-pentanone (MIBK)	43		6.157				ND		
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1443192	50.0	50.9	
73 Toluene	92		6.340				ND		
74 trans-1,3-Dichloropropene	75		6.583				ND		
75 Ethyl methacrylate	69		6.718				ND		
76 1,1,2-Trichloroethane	97		6.778				ND		
77 Tetrachloroethene	166		6.931				ND		
78 1,3-Dichloropropane	76		6.955				ND		
162 3,4-Dichloro-1-butene	75		7.016				ND		
80 2-Hexanone	43		7.077				ND		

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	81 Chlorodibromomethane	129		7.199					ND	
	121 n-Butyl acetate	43		7.211					ND	
	82 Ethylene Dibromide	107		7.303					ND	
	83 t-Amyl alcohol	73	7.784	7.778	0.006	35	3415		NC	
*	84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1071388	50.0	50.0	
	85 Chlorobenzene	112		7.809					ND	
	86 1-Chlorohexane	91		7.821					ND	U
	87 1,1,1,2-Tetrachloroethane	131		7.900					ND	
	88 Ethylbenzene	91		7.931					ND	
	89 m-Xylene & p-Xylene	106		8.040					ND	
	91 o-Xylene	106		8.388					ND	
	92 Styrene	104		8.400					ND	
	93 Bromoform	173		8.540					ND	
	94 Isopropylbenzene	105		8.711					ND	
	95 Cyclohexanone	55		8.760					ND	
	130 cis-1,4-Dichloro-2-butene	88		8.821					ND	U
$	96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	525579	50.0	48.7	
	97 Bromobenzene	156		8.937					ND	
	98 1,1,2,2-Tetrachloroethane	83		8.949					ND	
	99 1,2,3-Trichloropropane	110		8.973					ND	
	100 trans-1,4-Dichloro-2-butene	53		8.991					ND	
	101 N-Propylbenzene	91		9.040					ND	
	102 2-Chlorotoluene	126		9.095					ND	
	103 1,3,5-Trimethylbenzene	105		9.180					ND	
	104 4-Chlorotoluene	126		9.180					ND	
	163 2,3,4-Trichlorobutene	109		9.223					ND	
	106 Pentachloroethane	167		9.430					ND	
	105 tert-Butylbenzene	134		9.430					ND	
	107 1,2,4-Trimethylbenzene	105		9.461					ND	
	108 sec-Butylbenzene	105		9.589					ND	
	109 1,3-Dichlorobenzene	146		9.662					ND	
	110 4-Isopropyltoluene	119		9.699					ND	7
*	111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	94	575384	50.0	50.0	
	112 1,4-Dichlorobenzene	146		9.723					ND	
	113 1,2,3-Trimethylbenzene	105		9.772					ND	7
	114 Benzyl chloride	91		9.827					ND	
	115 1,3-Diethylbenzene	119		9.918					ND	
	116 p-Diethylbenzene	119		9.973					ND	
	119 1,2-Dichlorobenzene	146		9.991					ND	
	118 n-Butylbenzene	92		9.991					ND	
	120 o-diethylbenzene	119		10.058					ND	
S	117 1,3-Dichloropropene, Total	100		10.060					ND	7
	122 1,2-Dibromo-3-Chloropropane	75		10.528					ND	
	123 1,3,5-Trichlorobenzene	180		10.674					ND	7
	124 1,2,4-Trichlorobenzene	180		11.083					ND	
	126 Hexachlorobutadiene	225		11.198					ND	
	127 Naphthalene	128		11.241					ND	7
S	125 Xylenes, Total	106		11.245					ND	7
	128 1,2,3-Trichlorobenzene	180		11.400					ND	7
	129 2-Methylnaphthalene	142		11.960					ND	7
	132 Hexachloroethane	201		13.560					ND	
	133 C4-C10	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
168 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
155 3-chloro-1-Butene	1		0.000					ND	
156 C6-C10	1		0.000					ND	
157 Methyl acrylate	1		0.000					ND	
158 tert-Butyl Formate	1		0.000					ND	
173 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
171 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
222 n-butyl Acetate TIC	1		0.000					ND	
223 Tetranitromethane TIC	1		0.000					ND	
239 Chlorotrifluoromethane TIC	1		0.000					ND	
238 n-Octane TIC	1		0.000					ND	
166 Dodecane	57		0.000					ND	
167 Butane	1		0.000					ND	
170 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
149 Diethoxymethane	1		0.000					ND	
150 C5-C12	1		0.000					ND	
203 2,3-Dibromopropene TIC	1		0.000					ND	
221 Chlorodifluoromethane TIC	1		0.000					ND	
181 Acetonitrile TIC	1		0.000					ND	
S 212 Total BTEX	1		0.000					ND	
237 divinyl benzene TIC	1		0.000					ND	
206 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
229 Undecane TIC	1		0.000					ND	
227 n-Octane	1		0.000					ND	
226 n-Nonane	1		0.000					ND	
225 Butane TIC	1		0.000					ND	
220 Ethyl Acetate TIC	1		0.000					ND	
218 1-Chlorobutane TIC	1		0.000					ND	
217 Propionaldehyde TIC	1		0.000					ND	
216 Propane TIC	1		0.000					ND	
215 Ethyl ether TIC	1		0.000					ND	
214 2-Methylbutane TIC	1		0.000					ND	
228 Undecane	1		0.000					ND	
210 Ethanol TIC	1		0.000					ND	
199 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
178 Propargyl alcohol TIC	1		0.000					ND	
179 Monochloroacetic acid TIC	1		0.000					ND	
180 Propanol TIC	1		0.000					ND	
208 Pentachloroethane TIC	1		0.000					ND	
148 Methylal	1		0.000					ND	
165 n-Decane	57		0.000					ND	
207 1-Bromo-2-chloroethane TIC	1		0.000					ND	
240 n-Nonane TIC	1		0.000					ND	
190 2-Picoline (TIC)	1		0.000					ND	
191 Chloroacetaldehyde TIC	1		0.000					ND	
198 2-Bromo-3-chloropropene TIC	1		0.000					ND	
205 Chloral hydrate (TIC)	1		0.000					ND	
135 Propene oxide	1		0.000					ND	
152 C6-C12	1		0.000					ND	
S 154 Total Diethylbenzene	1		0.000					ND	7
137 C4-C12	1		0.000					ND	
138 1-Chlorobutane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
139 1,4-Divinylbenzene	1		0.000					ND	
140 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
141 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
174 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
194 Vinyl bromide TIC	1		0.000					ND	
197 Pentafluorobenzene TIC	1		0.000					ND	
219 Isooctane TIC	1		0.000					ND	
224 Diethoxymethane TIC	1		0.000					ND	
142 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
159 1,3-Divinylbenzene	1		0.000					ND	
193 Allyl Alcohol TIC	1		0.000					ND	
196 Epichlorohydrin TIC	1		0.000					ND	
175 n-Propylamine (TIC)	1		0.000					ND	
151 1-Bromo-2-chloroethane	1		0.000					ND	
204 Methanol TIC	1		0.000					ND	
176 beta-Propiolactone TIC	1		0.000					ND	
211 o-toluidine TIC	1		0.000					ND	
S 146 divinyl benzene	1		0.000					ND	7
143 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
160 Ethyl bromide	1		0.000					ND	
169 Ethyl acrylate	55		0.000					ND	
147 Chloroacetonitrile	1		0.000					ND	
195 1-Bromopropane TIC	1		0.000					ND	
230 4-Ethyltoluene TIC	1		0.000					ND	
231 Furan TIC	1		0.000					ND	
232 Decane TIC	1		0.000					ND	
233 1,2,4,5-Tetramethylbenzene TIC	1		0.000					ND	
192 Vinyl acetate (TIC)	1		0.000					ND	
234 Limonene TIC	1		0.000					ND	
189 Epibromohydrin TIC	1		0.000					ND	
188 Malononitrile (TIC)	1		0.000					ND	
187 2-Pentanone (TIC)	1		0.000					ND	
182 2-Chloroethanol TIC	1		0.000					ND	
201 Paraldehyde TIC	1		0.000					ND	
202 Bromoacetone (TIC)	1		0.000					ND	
177 2-Bromoethanol TIC	1		0.000					ND	
185 Nitrobenzene TIC	1		0.000					ND	
172 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
236 Methyl Isothiocyanate TIC	1		0.000					ND	
241 Methyal TIC	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_00004 Amount Added: 5.00 Units: uL Run Reagent

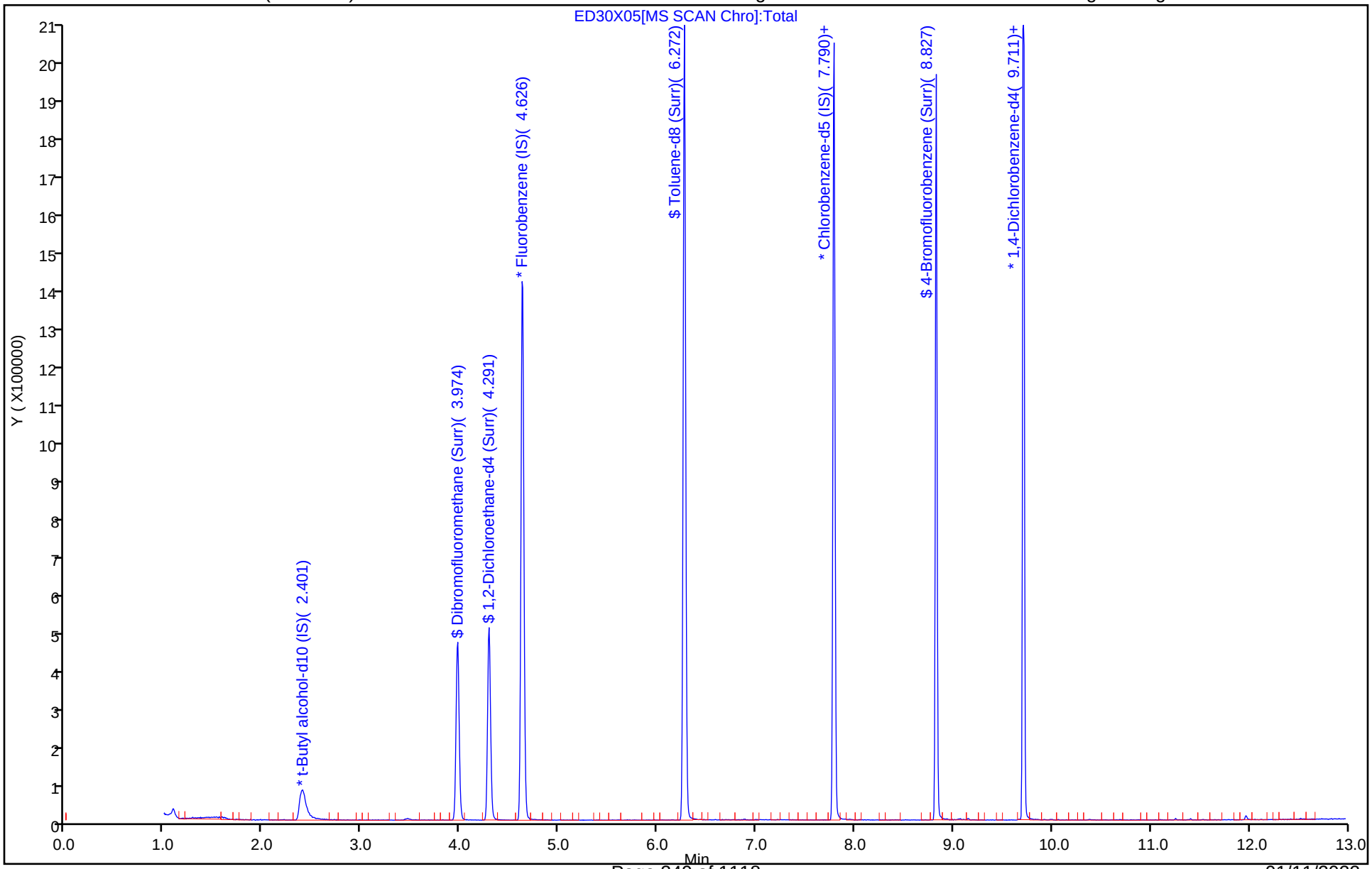
Report Date: 30-Dec-2021 19:28:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X05.D

Injection Date:	30-Dec-2021 17:24:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-210699/4

Matrix: Water Lab File ID: ED30X03.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 16:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	17.7		1.0	0.30
100-41-4	Ethylbenzene	17.5		1.0	0.40
108-88-3	Toluene	17.3		1.0	0.20
1330-20-7	Xylenes, Total	53.3		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	16.7		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Dec-2021 16:43:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-004
Misc. Info.: LCS
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 17:37:15 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: johnsons Date: 30-Dec-2021 17:10:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.151	1.152	-0.001	99	235581	20.0	18.0	
2 Chloromethane	50	1.273	1.273	0.000	99	235072	20.0	16.1	
3 Butadiene	39	1.322	1.328	-0.006	89	251781	20.0	16.9	
4 Vinyl chloride	62	1.334	1.334	0.000	98	241377	20.0	16.8	
5 Bromomethane	94	1.523	1.530	-0.007	90	142806	20.0	15.0	
6 Chloroethane	64	1.554	1.554	0.000	99	130284	20.0	15.4	
7 Dichlorofluoromethane	67	1.676	1.676	0.000	97	323152	20.0	16.3	
8 Trichlorofluoromethane	101	1.712	1.719	-0.006	97	297690	20.0	16.4	
9 Pentane	43	1.730	1.731	-0.001	97	282655	20.0	15.6	
12 Ethyl ether	59	1.858	1.859	-0.001	91	162165	19.9	17.6	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	1.865	1.865	0.000	91	224150	20.0	16.9	
14 Acrolein	56	1.944	1.944	0.000	100	381671	150.0	124.5	
15 1,1-Dichloroethene	96	2.029	2.029	0.000	97	173941	20.0	18.6	
17 Acetone	58	2.047	2.048	-0.001	99	292421	250.0	218.7	
16 112TCTFE	101	2.060	2.054	0.006	89	170135	20.0	17.3	
18 Isopropyl alcohol	45	2.139	2.133	0.006	46	117298	150.0	138.2	
19 Iodomethane	142	2.145	2.145	0.000	97	287047	20.0	17.9	
21 Carbon disulfide	76	2.200	2.200	0.000	98	479687	20.0	16.9	
22 3-Chloro-1-propene	41	2.291	2.292	-0.001	93	268272	20.0	15.6	
23 Methyl acetate	43	2.291	2.292	-0.001	65	176773	20.0	19.3	
24 Methylene Chloride	84	2.389	2.389	0.000	92	180879	20.0	17.8	
* 25 t-Butyl alcohol-d10 (IS)	65	2.395	2.395	0.000	99	254107	250.0	250.0	
26 2-Methyl-2-propanol	59	2.462	2.462	0.000	100	258982	200.0	168.3	
27 Acrylonitrile	53	2.578	2.578	0.000	100	460204	100.0	97.3	
29 trans-1,2-Dichloroethene	96	2.621	2.621	0.000	99	182771	20.0	17.4	
28 Methyl tert-butyl ether	73	2.621	2.621	0.000	94	537857	20.0	16.7	
30 Hexane	57	2.858	2.859	-0.001	90	225869	20.0	14.1	
32 1,1-Dichloroethane	63	2.980	2.980	0.000	96	317651	20.0	16.7	
34 Isopropyl ether	45	3.053	3.060	-0.007	94	562850	20.0	16.7	
35 2-Chloro-1,3-butadiene	53	3.066	3.066	0.000	89	280493	20.0	16.7	
36 Tert-butyl ethyl ether	59	3.395	3.389	0.006	98	554379	20.0	16.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	3.517	3.511	0.006	50	197559	20.0	17.6	
38 2-Butanone (MEK)	43	3.511	3.517	-0.006	99	1451564	250.0	236.4	
39 2,2-Dichloropropane	77	3.523	3.523	0.000	86	206302	20.0	12.7	
40 Propionitrile	54	3.565	3.566	-0.001	99	279801	150.0	140.0	
41 Methacrylonitrile	67	3.718	3.712	0.006	90	767662	150.0	141.6	
42 Chlorobromomethane	128	3.736	3.736	0.000	96	93204	20.0	18.3	
43 Tetrahydrofuran	71	3.779	3.773	0.006	91	168750	100.0	95.8	
44 Chloroform	83	3.815	3.816	-0.001	93	300394	20.0	17.1	
$ 45 Dibromofluoromethane (Surr)	113	3.968	3.968	0.000	94	330465	50.0	49.1	
46 1,1,1-Trichloroethane	97	3.998	3.999	-0.001	98	275653	20.0	16.7	
47 Cyclohexane	56	4.059	4.053	0.006	89	345248	20.0	17.2	
48 1,1-Dichloropropene	75	4.151	4.151	0.000	98	257880	20.0	17.4	
49 Carbon tetrachloride	117	4.157	4.163	-0.006	96	232225	20.0	17.4	
50 Isobutyl alcohol	41	4.273	4.273	0.000	95	207460	500.0	434.5	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.291	4.285	0.006	98	381536	50.0	46.3	
52 Benzene	78	4.352	4.346	0.006	95	786640	20.0	17.7	
53 1,2-Dichloroethane	62	4.358	4.358	0.000	96	214780	20.0	15.6	
54 Tert-amyl methyl ether	73	4.480	4.480	0.000	99	541489	20.0	17.0	
* 55 Fluorobenzene (IS)	96	4.626	4.626	0.000	99	1487622	50.0	50.0	
56 n-Heptane	43	4.638	4.639	-0.001	91	176616	20.0	11.4	
57 n-Butanol	56	4.949	4.943	0.006	86	365181	1000.0	933.5	
59 Trichloroethene	95	4.998	4.998	0.000	98	190652	20.0	17.1	
60 Methylcyclohexane	83	5.205	5.200	0.005	90	340709	20.0	16.7	
61 1,2-Dichloropropane	63	5.211	5.212	-0.001	97	191402	20.0	17.6	
131 2-ethoxy-2-methyl butane	87	5.285	5.285	0.000	95	285669	20.0	17.2	
62 Dibromomethane	93	5.333	5.334	-0.001	93	107424	20.0	16.9	
63 1,4-Dioxane	88	5.364	5.364	0.000	41	67415	500.0	496.7	M
64 Methyl methacrylate	69	5.364	5.364	0.000	90	154044	20.0	18.2	
65 Dichlorobromomethane	83	5.510	5.504	0.006	100	213272	20.0	16.7	
67 2-Nitropropane	41	5.742	5.736	0.006	96	47584	20.0	13.0	
68 2-Chloroethyl vinyl ether	63	5.846	5.840	0.006	91	133314	20.0	17.6	
69 cis-1,3-Dichloropropene	75	5.986	5.980	0.006	97	267360	20.0	15.6	
71 4-Methyl-2-pentanone (MIBK)	43	6.163	6.157	0.005	95	2986162	250.0	228.3	
$ 72 Toluene-d8 (Surr)	98	6.266	6.266	0.000	93	1474048	50.0	50.4	
73 Toluene	92	6.339	6.340	-0.001	98	487351	20.0	17.3	
74 trans-1,3-Dichloropropene	75	6.589	6.583	0.006	91	244354	20.0	15.7	
75 Ethyl methacrylate	69	6.723	6.718	0.005	89	252671	20.0	16.7	
76 1,1,2-Trichloroethane	97	6.778	6.778	0.000	88	170918	20.0	18.5	
77 Tetrachloroethene	166	6.931	6.931	0.000	97	202176	20.0	18.3	
78 1,3-Dichloropropane	76	6.961	6.955	0.006	89	287177	20.0	17.8	
80 2-Hexanone	43	7.077	7.077	0.000	96	2196728	250.0	240.9	
81 Chlorodibromomethane	129	7.199	7.199	0.000	90	166401	20.0	17.5	
82 Ethylene Dibromide	107	7.309	7.303	0.006	99	172114	20.0	17.8	
* 84 Chlorobenzene-d5 (IS)	117	7.784	7.784	0.000	84	1105495	50.0	50.0	
85 Chlorobenzene	112	7.815	7.809	0.006	95	519098	20.0	17.6	
86 1-Chlorohexane	91	7.821	7.821	0.000	96	257792	20.0	16.4	
87 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	96	170727	20.0	17.4	
88 Ethylbenzene	91	7.930	7.931	-0.001	98	929432	20.0	17.5	
89 m-Xylene & p-Xylene	106	8.046	8.040	0.006	100	731884	40.0	35.7	
91 o-Xylene	106	8.394	8.388	0.006	95	352631	20.0	17.6	
92 Styrene	104	8.406	8.400	0.006	95	557186	20.0	17.9	
93 Bromoform	173	8.546	8.540	0.006	97	115588	20.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
94 Isopropylbenzene	105	8.711	8.711	0.000	95	936684	20.0	18.1	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	548852	50.0	49.3	
97 Bromobenzene	156	8.936	8.937	-0.001	91	216860	20.0	18.7	
98 1,1,2,2-Tetrachloroethane	83	8.949	8.949	0.000	92	262947	20.0	18.5	
99 1,2,3-Trichloropropane	110	8.973	8.973	0.000	83	77568	20.0	18.5	
100 trans-1,4-Dichloro-2-butene	53	8.997	8.991	0.006	94	281052	100.0	62.4	
101 N-Propylbenzene	91	9.040	9.040	0.000	99	1033798	20.0	16.9	
102 2-Chlorotoluene	126	9.095	9.095	0.000	97	207572	20.0	16.9	
103 1,3,5-Trimethylbenzene	105	9.186	9.180	0.006	89	733258	20.0	16.9	
104 4-Chlorotoluene	126	9.186	9.180	0.006	94	215891	20.0	17.6	
105 tert-Butylbenzene	134	9.430	9.430	0.000	92	150800	20.0	16.2	
107 1,2,4-Trimethylbenzene	105	9.467	9.461	0.006	97	735258	20.0	16.9	
108 sec-Butylbenzene	105	9.589	9.589	0.000	94	898722	20.0	17.0	
109 1,3-Dichlorobenzene	146	9.662	9.662	0.000	98	384560	20.0	16.9	
110 4-Isopropyltoluene	119	9.705	9.699	0.005	97	760461	20.0	16.7	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	95	593924	50.0	50.0	
112 1,4-Dichlorobenzene	146	9.729	9.723	0.006	96	402275	20.0	17.4	
113 1,2,3-Trimethylbenzene	105	9.772	9.772	0.000	98	740914	20.0	16.7	
114 Benzyl chloride	91	9.826	9.827	-0.001	98	286125	20.0	9.60	
115 1,3-Diethylbenzene	119	9.918	9.918	0.000	95	433897	20.0	15.9	
116 p-Diethylbenzene	119	9.979	9.973	0.006	95	450284	20.0	15.8	
119 1,2-Dichlorobenzene	146	9.991	9.991	0.000	79	382012	20.0	17.5	
118 n-Butylbenzene	92	9.991	9.991	0.000	97	337798	20.0	15.1	
120 o-diethylbenzene	119	10.058	10.058	0.000	94	372557	20.0	16.4	
122 1,2-Dibromo-3-Chloropropane	75	10.528	10.528	0.000	88	48200	20.0	15.6	
123 1,3,5-Trichlorobenzene	180	10.680	10.674	0.006	98	247465	20.0	16.4	
124 1,2,4-Trichlorobenzene	180	11.082	11.083	-0.001	94	229242	20.0	16.6	
126 Hexachlorobutadiene	225	11.198	11.198	0.000	97	85176	20.0	16.2	
127 Naphthalene	128	11.241	11.241	0.000	96	830240	20.0	17.3	
128 1,2,3-Trichlorobenzene	180	11.399	11.400	-0.001	96	230081	20.0	17.2	
129 2-Methylnaphthalene	142	11.960	11.960	0.000	93	417431	20.0	16.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_ACROL_00036	Amount Added:	50.00	Units: uL	
MSV_LCS_2CEVE_00038	Amount Added:	50.00	Units: uL	
MSV_LCS_VOC#1_00033	Amount Added:	50.00	Units: uL	
MSV_LCS_EE_00001	Amount Added:	50.00	Units: uL	
MSV_LCS_Gases_00062	Amount Added:	50.00	Units: uL	
MSV_Cent_ISSS_00004	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 30-Dec-2021 17:37:21 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X03.D

Injection Date: 30-Dec-2021 16:43:30 Instrument ID: 15648 Operator ID: sej02002

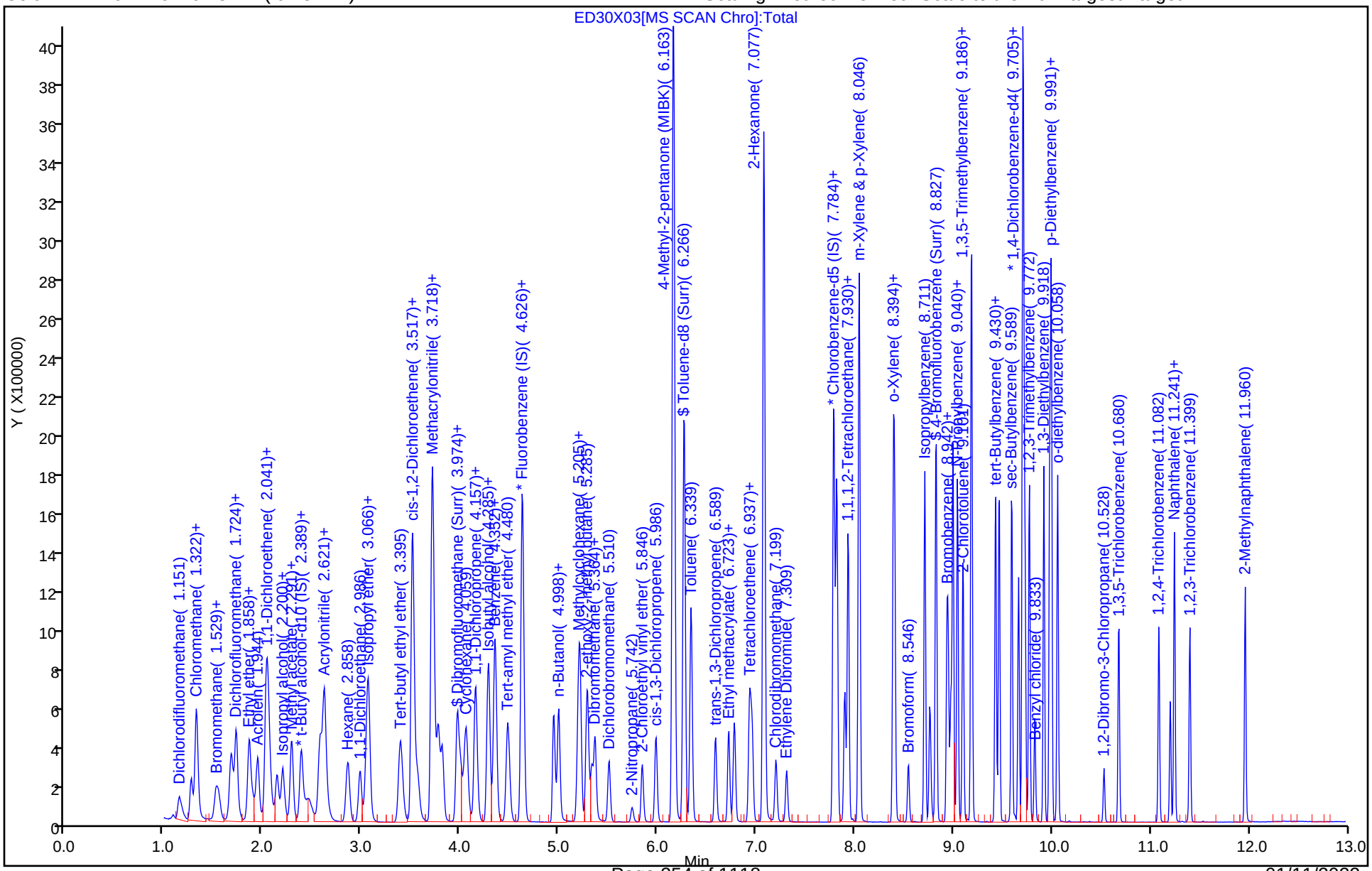
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_15648 Limit Group: MSV - 8260C_D

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7S-20211221 MS Lab Sample ID: 410-68043-6 MS

Matrix: Ground Water Lab File ID: ED30X14.D

Analysis Method: 8260C Date Collected: 12/21/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 20:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21.6		1.0	0.30
100-41-4	Ethylbenzene	21.0		1.0	0.40
108-88-3	Toluene	21.2		1.0	0.20
1330-20-7	Xylenes, Total	64.1		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	18.9		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X14.D
Lims ID: 410-68043-C-6 MS
Client ID: MW-7S-20211221
Sample Type: MS
Inject. Date: 30-Dec-2021 20:25:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-015
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 18:47:15 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 20:57:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	98	193279	250.0	250.0	
28 Methyl tert-butyl ether	73	2.639	2.621	0.018	94	565761	20.0	18.9	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	314013	50.0	50.0	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	96	351832	50.0	45.8	
52 Benzene	78	4.358	4.346	0.012	95	897343	20.0	21.6	
* 55 Fluorobenzene (IS)	96	4.632	4.626	0.006	99	1388635	50.0	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	93	1377177	50.0	50.4	
73 Toluene	92	6.346	6.340	0.006	99	558605	20.0	21.2	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	83	1033547	50.0	50.0	
88 Ethylbenzene	91	7.937	7.931	0.006	97	1044221	20.0	21.0	
89 m-Xylene & p-Xylene	106	8.046	8.040	0.006	100	826195		43.1	
91 o-Xylene	106	8.394	8.388	0.006	96	394283		21.0	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	90	505189	50.0	48.5	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	95	555541	50.0	50.0	
S 125 Xylenes, Total	106				0			64.1	

QC Flag Legend
Processing Flags

Reagents:

MSV_LCS_VOC#1_00033	Amount Added:	21.50	Units: uL	
MSV_LCS_ACROL_00036	Amount Added:	21.50	Units: uL	
MSV_LCS_2CEVE_00038	Amount Added:	21.50	Units: uL	
MSV_LCS_Gases_00062	Amount Added:	21.50	Units: uL	
MSV_Cent_ISSS_00004	Amount Added:	5.00	Units: uL	Run Reagent

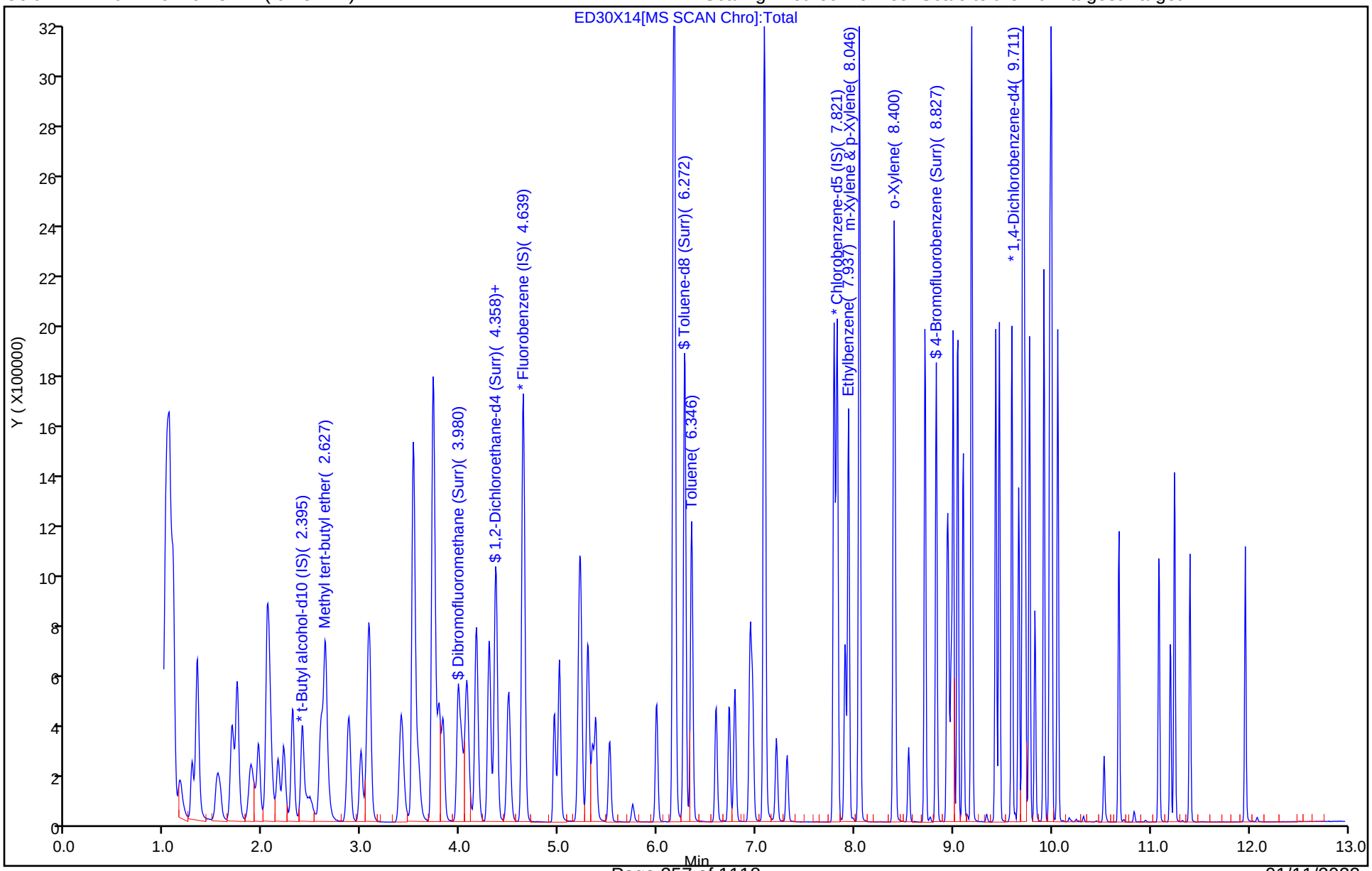
Report Date: 30-Dec-2021 20:58:37 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X14.D

Injection Date:	30-Dec-2021 20:25:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-6 MS			Worklist Smp#:	15
Client ID:	MW-7S-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7S-20211221 MSD Lab Sample ID: 410-68043-6 MSD

Matrix: Ground Water Lab File ID: ED30X15.D

Analysis Method: 8260C Date Collected: 12/21/2021 09:16

Sample wt/vol: 5(mL) Date Analyzed: 12/30/2021 20:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 20m ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 210699 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	22.0		1.0	0.30
100-41-4	Ethylbenzene	21.7		1.0	0.40
108-88-3	Toluene	21.7		1.0	0.20
1330-20-7	Xylenes, Total	65.8		1.0	0.40
1634-04-4	Methyl tertiary butyl ether	19.4		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X15.D
Lims ID: 410-68043-C-6 MSD
Client ID: MW-7S-20211221
Sample Type: MSD
Inject. Date: 30-Dec-2021 20:46:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0047508-016
Operator ID: sej02002 Instrument ID: 15648

Method: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\MSVoa_15648.m
Limit Group: MSV - 8260C_D
Last Update: 30-Dec-2021 19:07:20 Calib Date: 06-Oct-2021 16:55:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\15648\20211006-40878.b\EC06X17.D

Column 1 : DB-624 20m 0.18mm (0.18 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: beckerk Date: 30-Dec-2021 21:21:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 25 t-Butyl alcohol-d10 (IS)	65	2.401	2.395	0.006	99	188756	250.0	250.0	
28 Methyl tert-butyl ether	73	2.639	2.621	0.018	94	590385	20.0	19.4	
$ 45 Dibromofluoromethane (Surr)	113	3.974	3.968	0.006	94	315480	50.0	49.6	
$ 51 1,2-Dichloroethane-d4 (Surr)	65	4.297	4.285	0.012	98	359514	50.0	46.2	
52 Benzene	78	4.358	4.346	0.012	95	923972	20.0	22.0	
* 55 Fluorobenzene (IS)	96	4.633	4.626	0.006	99	1406254	50.0	50.0	
$ 72 Toluene-d8 (Surr)	98	6.272	6.266	0.006	92	1397490	50.0	51.0	
73 Toluene	92	6.346	6.340	0.006	98	572129	20.0	21.7	
* 84 Chlorobenzene-d5 (IS)	117	7.790	7.784	0.006	84	1036179	50.0	50.0	
88 Ethylbenzene	91	7.937	7.931	0.006	98	1080049	20.0	21.7	
89 m-Xylene & p-Xylene	106	8.046	8.040	0.006	100	851538		44.3	
91 o-Xylene	106	8.394	8.388	0.006	96	404607		21.5	
$ 96 4-Bromofluorobenzene (Surr)	95	8.827	8.821	0.006	91	512778	50.0	49.1	
* 111 1,4-Dichlorobenzene-d4	152	9.711	9.711	0.000	95	564840	50.0	50.0	
S 125 Xylenes, Total	106				0			65.8	

QC Flag Legend

Processing Flags

Reagents:

MSV_LCS_ACROL_00036	Amount Added: 21.50	Units: uL	
MSV_LCS_2CEVE_00038	Amount Added: 21.50	Units: uL	
MSV_LCS_Gases_00062	Amount Added: 21.50	Units: uL	
MSV_LCS_VOC#1_00033	Amount Added: 21.50	Units: uL	
MSV_Cent_ISSS_00004	Amount Added: 5.00	Units: uL	Run Reagent

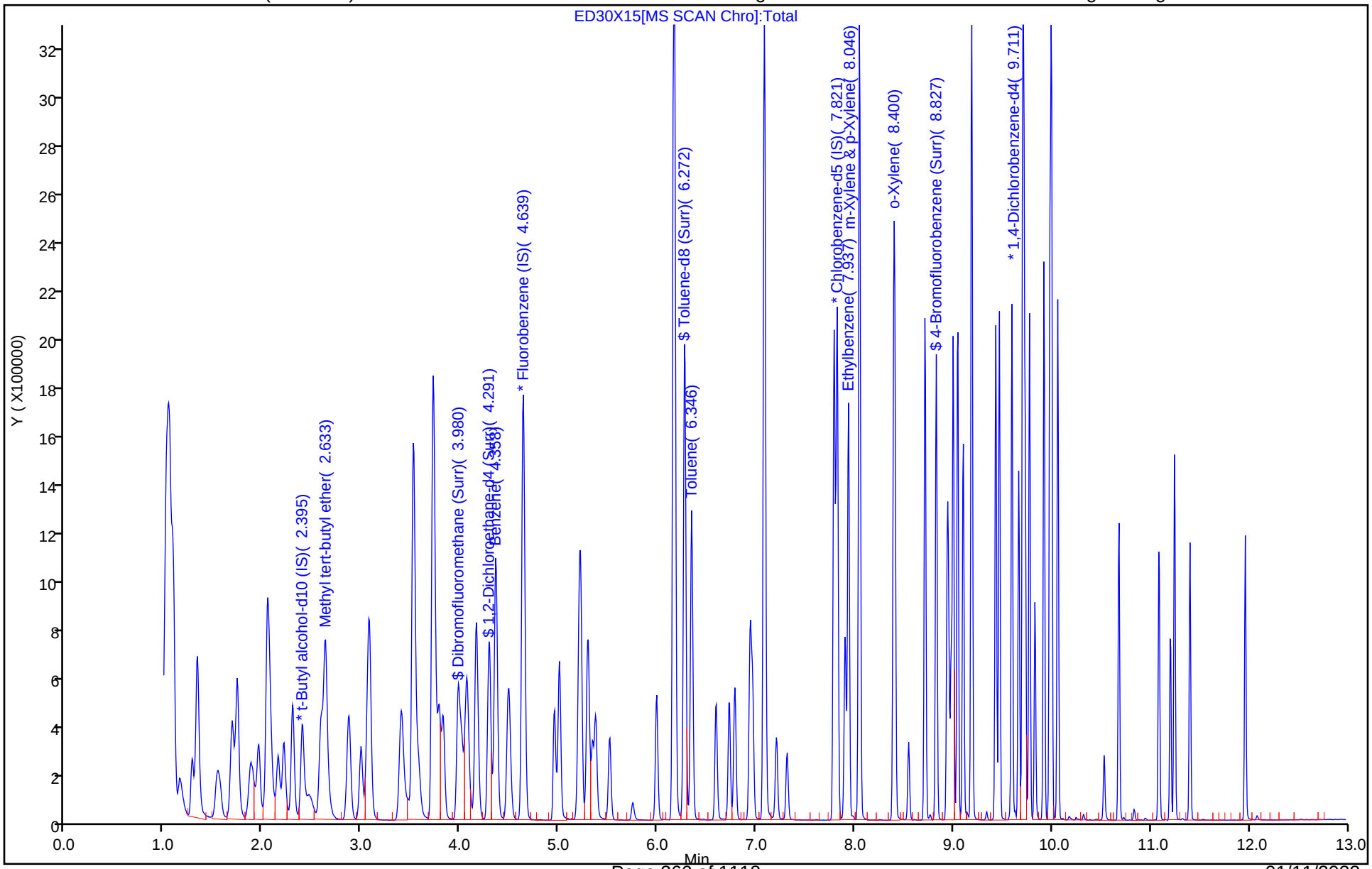
Report Date: 30-Dec-2021 21:21:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\15648\20211230-47508.b\ED30X15.D

Injection Date:	30-Dec-2021 20:46:30	Instrument ID:	15648	Operator ID:	sej02002
Lims ID:	410-68043-C-6 MSD			Worklist Smp#:	16
Client ID:	MW-7S-20211221				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_15648	Limit Group:	MSV - 8260C_D		

Column: DB-624 20m 0.18mm (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: 15648 Start Date: 10/06/2021 14:08

Analysis Batch Number: 179603 End Date: 10/06/2021 17:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-179603/1		10/06/2021 14:08	1	EC06T01.D	DB-624 20m 0.18(mm)
IC 410-179603/11		10/06/2021 14:54	1	EC06X11.D	DB-624 20m 0.18(mm)
IC 410-179603/12		10/06/2021 15:14	1	EC06X12.D	DB-624 20m 0.18(mm)
ICIS 410-179603/13		10/06/2021 15:34	1	EC06X13.D	DB-624 20m 0.18(mm)
IC 410-179603/14		10/06/2021 15:54	1	EC06X14.D	DB-624 20m 0.18(mm)
IC 410-179603/15		10/06/2021 16:15	1	EC06X15.D	DB-624 20m 0.18(mm)
IC 410-179603/16		10/06/2021 16:35	1	EC06X16.D	DB-624 20m 0.18(mm)
IC 410-179603/17		10/06/2021 16:55	1	EC06X17.D	DB-624 20m 0.18(mm)
ICV 410-179603/19		10/06/2021 17:36	1	EC06X19.D	DB-624 20m 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: 15648 Start Date: 12/30/2021 15:38

Analysis Batch Number: 210699 End Date: 12/31/2021 01:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-210699/1		12/30/2021 15:38	1	ED30T01.D	DB-624 20m 0.18(mm)
CCVIS 410-210699/3		12/30/2021 16:23	1	ED30X02.D	DB-624 20m 0.18(mm)
LCS 410-210699/4		12/30/2021 16:43	1	ED30X03.D	DB-624 20m 0.18(mm)
MB 410-210699/6		12/30/2021 17:24	1	ED30X05.D	DB-624 20m 0.18(mm)
410-68043-10	EB-20211221	12/30/2021 17:44	1	ED30X06.D	DB-624 20m 0.18(mm)
410-68043-21	TB-20211222	12/30/2021 18:04	1	ED30X07.D	DB-624 20m 0.18(mm)
410-68043-1	MW-1-20211220	12/30/2021 18:24	1	ED30X08.D	DB-624 20m 0.18(mm)
410-68043-2	MW-10S-20211220	12/30/2021 18:45	1	ED30X09.D	DB-624 20m 0.18(mm)
410-68043-3	MW-10D-20211220	12/30/2021 19:05	1	ED30X10.D	DB-624 20m 0.18(mm)
410-68043-4	MW-8S-20211220	12/30/2021 19:25	1	ED30X11.D	DB-624 20m 0.18(mm)
410-68043-5	MW-8D-20211220	12/30/2021 19:45	1	ED30X12.D	DB-624 20m 0.18(mm)
410-68043-6	MW-7S-20211221	12/30/2021 20:05	1	ED30X13.D	DB-624 20m 0.18(mm)
410-68043-6 MS	MW-7S-20211221 MS	12/30/2021 20:25	1	ED30X14.D	DB-624 20m 0.18(mm)
410-68043-6 MSD	MW-7S-20211221 MSD	12/30/2021 20:46	1	ED30X15.D	DB-624 20m 0.18(mm)
410-68043-7	MW-7D-20211221	12/30/2021 21:26	1	ED30X17.D	DB-624 20m 0.18(mm)
410-68043-8	MW-14S-20211221	12/30/2021 21:46	1	ED30X18.D	DB-624 20m 0.18(mm)
410-68043-9	MW-14D-20211221	12/30/2021 22:07	1	ED30X19.D	DB-624 20m 0.18(mm)
410-68043-11	MW-12S-20211221	12/30/2021 22:27	1	ED30X20.D	DB-624 20m 0.18(mm)
410-68043-12	MW-12D-20211221	12/30/2021 22:47	1	ED30X21.D	DB-624 20m 0.18(mm)
410-68043-13	MW-11S-20211221	12/30/2021 23:07	1	ED30X22.D	DB-624 20m 0.18(mm)
410-68043-14	MW-11D-20211221	12/30/2021 23:27	1	ED30X23.D	DB-624 20m 0.18(mm)
410-68043-15	MW-4S-20211222	12/30/2021 23:47	1	ED30X24.D	DB-624 20m 0.18(mm)
410-68043-16	MW-4D-20211222	12/31/2021 00:08	1	ED30X25.D	DB-624 20m 0.18(mm)
410-68043-17	MW-3-20211222	12/31/2021 00:28	1	ED30X26.D	DB-624 20m 0.18(mm)
410-68043-18	MW-13S-20211222	12/31/2021 00:48	1	ED30X27.D	DB-624 20m 0.18(mm)
410-68043-19	MW-13D-20211222	12/31/2021 01:08	1	ED30X28.D	DB-624 20m 0.18(mm)
410-68043-20	Dup-20211222	12/31/2021 01:29	1	ED30X29.D	DB-624 20m 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 179603 Batch Start Date: 10/06/21 14:08 Batch Analyst: Keller, Kelly E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEE 00262	MSV_CCV_2CEVE 00021	MSV_CCV_GASES 00086
BFB 410-179603/1		8260C		1 uL	1 uL				
IC 410-179603/11		8260C		5 mL	5 mL	2602		15 uL	7.5 uL
IC 410-179603/12		8260C		5 mL	5 mL	2602		5 uL	2.5 uL
ICIS 410-179603/13		8260C		5 mL	5 mL	2602		5 uL	2.5 uL
IC 410-179603/14		8260C		5 mL	5 mL	2602		4 uL	2 uL
IC 410-179603/15		8260C		5 mL	5 mL	2602		2 uL	1 uL
IC 410-179603/16		8260C		5 mL	5 mL	2602		4 uL	2 uL
IC 410-179603/17		8260C		5 mL	5 mL	2602	12.5 mL		
ICV 410-179603/19		8260C		5 mL	5 mL	2602			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_VOC#1 00023	MSV_CCV_VOC#3 00022	MSV_Cent_ISSS 00001	MSV_LCS_2CEVE 00023	MSV_LCS_ACROL 00023	MSV_LCS_Gases 00040
BFB 410-179603/1		8260C							
IC 410-179603/11		8260C		15 uL	12 uL	5 uL			
IC 410-179603/12		8260C		5 uL	4 uL	5 uL			
ICIS 410-179603/13		8260C		5 uL	4 uL	5 uL			
IC 410-179603/14		8260C		4 uL	3.2 uL	5 uL			
IC 410-179603/15		8260C		2 uL	1.6 uL	5 uL			
IC 410-179603/16		8260C		4 uL	3.2 uL	5 uL			
IC 410-179603/17		8260C				5 uL			
ICV 410-179603/19		8260C				5 uL	50 uL	50 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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 179603 Batch Start Date: 10/06/21 14:08 Batch Analyst: Keller, Kelly E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00021	MSV_Q_EE 00004	MSV_QCYC 00006	MSV_V_BFB 00006	MSV_V_EE 00005	MSV_V_VOA2 00108
BFB 410-179603/1		8260C					1 uL		
IC 410-179603/11		8260C						15 uL	
IC 410-179603/12		8260C						5 uL	
ICIS 410-179603/13		8260C						5 uL	
IC 410-179603/14		8260C						4 uL	4 uL
IC 410-179603/15		8260C						2 uL	2 uL
IC 410-179603/16		8260C						4 uL	12 uL
IC 410-179603/17		8260C							
ICV 410-179603/19		8260C		50 uL	50 uL	50 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_VCYC 00007					
BFB 410-179603/1		8260C							
IC 410-179603/11		8260C		30 uL					
IC 410-179603/12		8260C		10 uL					
ICIS 410-179603/13		8260C		10 uL					
IC 410-179603/14		8260C		16 uL					
IC 410-179603/15		8260C		8 uL					
IC 410-179603/16		8260C		32 uL					
IC 410-179603/17		8260C							
ICV 410-179603/19		8260C							

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 179603 Batch Start Date: 10/06/21 14:08 Batch Analyst: Keller, Kelly E

Batch Method: 8260C Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 210699 Batch Start Date: 12/30/21 15:38 Batch Analyst: Johnson, Sara E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-210699/1		8260C		1 uL	1 uL				
CCVIS 410-210699/3		8260C		5 mL	5 mL				2617
LCS 410-210699/4		8260C		5 mL	5 mL				2617
MB 410-210699/6		8260C		5 mL	5 mL				2617
410-68043-C-10	EB-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-A-21	TB-20211222	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-1	MW-1-20211220	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-2	MW-10S-20211220	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-3	MW-10D-20211220	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-4	MW-8S-20211220	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-5	MW-8D-20211220	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-6	MW-7S-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-6 MS	MW-7S-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-6 MSD	MW-7S-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-7	MW-7D-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-8	MW-14S-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-9	MW-14D-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-11	MW-12S-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-12	MW-12D-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-13	MW-11S-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-14	MW-11D-20211221	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-15	MW-4S-20211222	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-16	MW-4D-20211222	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-17	MW-3-20211222	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-18	MW-13S-20211222	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-19	MW-13D-20211222	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-68043-C-20	Dup-20211222	8260C	T	5 mL	5 mL	<2 SU	N	N	

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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 210699 Batch Start Date: 12/30/21 15:38 Batch Analyst: Johnson, Sara E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_CCV_2CEVE 00042	MSV_CCV_EE 00001	MSV_CCV_GASES 00125	MSV_CCV_VOC#1 00045	MSV_CCV_VOC#3 00044	MSV_Cent_ISSS 00004
BFB 410-210699/1		8260C							
CCVIS 410-210699/3		8260C		5 uL	5 uL	2.5 uL	5 uL	4 uL	5 uL
LCS 410-210699/4		8260C							5 uL
MB 410-210699/6		8260C							5 uL
410-68043-C-10	EB-20211221	8260C	T						5 uL
410-68043-A-21	TB-20211222	8260C	T						5 uL
410-68043-C-1	MW-1-20211220	8260C	T						5 uL
410-68043-C-2	MW-10S-20211220	8260C	T						5 uL
410-68043-C-3	MW-10D-20211220	8260C	T						5 uL
410-68043-C-4	MW-8S-20211220	8260C	T						5 uL
410-68043-C-5	MW-8D-20211220	8260C	T						5 uL
410-68043-C-6	MW-7S-20211221	8260C	T						5 uL
410-68043-C-6 MS	MW-7S-20211221	8260C	T						5 uL
410-68043-C-6 MSD	MW-7S-20211221	8260C	T						5 uL
410-68043-C-7	MW-7D-20211221	8260C	T						5 uL
410-68043-C-8	MW-14S-20211221	8260C	T						5 uL
410-68043-C-9	MW-14D-20211221	8260C	T						5 uL
410-68043-C-11	MW-12S-20211221	8260C	T						5 uL
410-68043-C-12	MW-12D-20211221	8260C	T						5 uL
410-68043-C-13	MW-11S-20211221	8260C	T						5 uL
410-68043-C-14	MW-11D-20211221	8260C	T						5 uL
410-68043-C-15	MW-4S-20211222	8260C	T						5 uL
410-68043-C-16	MW-4D-20211222	8260C	T						5 uL
410-68043-C-17	MW-3-20211222	8260C	T						5 uL
410-68043-C-18	MW-13S-20211222	8260C	T						5 uL
410-68043-C-19	MW-13D-20211222	8260C	T						5 uL
410-68043-C-20	Dup-20211222	8260C	T						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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 210699 Batch Start Date: 12/30/21 15:38 Batch Analyst: Johnson, Sara E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_2CEVE 00038	MSV_LCS_ACROL 00036	MSV_LCS_EE 00001	MSV_LCS_Gases 00062	MSV_LCS_VOC#1 00033	MSV_V_BFB 00006
BFB 410-210699/1		8260C							1 uL
CCVIS 410-210699/3		8260C							
LCS 410-210699/4		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	
MB 410-210699/6		8260C							
410-68043-C-10	EB-20211221	8260C	T						
410-68043-A-21	TB-20211222	8260C	T						
410-68043-C-1	MW-1-20211220	8260C	T						
410-68043-C-2	MW-10S-20211220	8260C	T						
410-68043-C-3	MW-10D-20211220	8260C	T						
410-68043-C-4	MW-8S-20211220	8260C	T						
410-68043-C-5	MW-8D-20211220	8260C	T						
410-68043-C-6	MW-7S-20211221	8260C	T						
410-68043-C-6 MS	MW-7S-20211221	8260C	T	21.5 uL	21.5 uL		21.5 uL	21.5 uL	
410-68043-C-6 MSD	MW-7S-20211221	8260C	T	21.5 uL	21.5 uL		21.5 uL	21.5 uL	
410-68043-C-7	MW-7D-20211221	8260C	T						
410-68043-C-8	MW-14S-20211221	8260C	T						
410-68043-C-9	MW-14D-20211221	8260C	T						
410-68043-C-11	MW-12S-20211221	8260C	T						
410-68043-C-12	MW-12D-20211221	8260C	T						
410-68043-C-13	MW-11S-20211221	8260C	T						
410-68043-C-14	MW-11D-20211221	8260C	T						
410-68043-C-15	MW-4S-20211222	8260C	T						
410-68043-C-16	MW-4D-20211222	8260C	T						
410-68043-C-17	MW-3-20211222	8260C	T						
410-68043-C-18	MW-13S-20211222	8260C	T						
410-68043-C-19	MW-13D-20211222	8260C	T						
410-68043-C-20	Dup-20211222	8260C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 210699 Batch Start Date: 12/30/21 15:38 Batch Analyst: Johnson, Sara E

Batch Method: 8260C Batch End Date:

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 8270D SIM

Semivolatile Organic Compounds (GC/MS SIM) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
MW-1-20211220	410-68043-1	97	91	86
MW-10S-20211220	410-68043-2	97 cn	93 cn	90 cn
MW-10S-20211220 RE	410-68043-2 RE	84	93	80
MW-10D-20211220	410-68043-3	88	82	65
MW-8S-20211220	410-68043-4	95 cn	98 cn	91 cn
MW-8S-20211220 RE	410-68043-4 RE	87	94	85
MW-8D-20211220	410-68043-5	85 cn	89 cn	74 cn
MW-8D-20211220 RE	410-68043-5 RE	93	96	76
MW-7S-20211221	410-68043-6	92	91	79
MW-7D-20211221	410-68043-7	87	86	81
MW-14S-20211221	410-68043-8	94	91	91
MW-14D-20211221	410-68043-9	95 cn	94 cn	54 cn
MW-14D-20211221 RE	410-68043-9 RE	83	90	45
EB-20211221	410-68043-10	70	74	67
MW-12S-20211221	410-68043-11	96 cn	92 cn	61 *3 cn
MW-12S-20211221 RA	410-68043-11 RA	98 cn	95 cn	73 *3 cn
MW-12D-20211221	410-68043-12	94	94	41
MW-11S-20211221	410-68043-13	93 cn	91 cn	96 cn
MW-11S-20211221 DL	410-68043-13 DL	97 cn	86 cn	60 cn
MW-11S-20211221 RE	410-68043-13 RE	80	76	73
MW-11D-20211221	410-68043-14	78	78	70
MW-4S-20211222	410-68043-15	82	79	71
MW-4S-20211222 DL	410-68043-15 DL	95	102	61
MW-4D-20211222	410-68043-16	85	89	64
MW-3-20211222	410-68043-17	75	87	77
MW-3-20211222 DL	410-68043-17 DL	81	102	65
MW-13S-20211222	410-68043-18	85	90	84
MW-13D-20211222	410-68043-19	84	92	72
Dup-20211222	410-68043-20	81	101	86
Dup-20211222 DL	410-68043-20 DL	95	112	41
	MB 410-209023/1-A	92	93	96
	MB 410-209125/1-A	66	81	81

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	36-111
FLN10 = Fluoranthene-d10 (Surr)	47-128
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-110

Column to be used to flag recovery values

FORM II 8270D SIM

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
	MB 410-210459/1-A	87	93	87
	LCS 410-209023/2-A	94	94	91
	LCS 410-209125/2-A	90	96	96
	LCS 410-210459/2-A	90	94	88
MW-7S-20211221 MS	410-68043-6 MS	82	77	77
MW-7S-20211221 MSD	410-68043-6 MSD	94	96	92

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	36-111
FLN10 = Fluoranthene-d10 (Surr)	47-128
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-110

Column to be used to flag recovery values

FORM II 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL1203.D

Lab ID: LCS 410-209023/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.907	91	42-120	
Acenaphthylene	1.00	0.884	88	49-120	
Anthracene	1.00	0.934	93	54-121	
Benzo[a]anthracene	1.00	1.06	106	61-122	
Benzo[a]pyrene	1.00	1.14	114	60-120	
Benzo[b]fluoranthene	1.00	1.51	151	58-122	*+
Benzo[g,h,i]perylene	1.00	1.26	126	50-120	*+
Benzo[k]fluoranthene	1.00	1.37	137	57-128	*+
Chrysene	1.00	1.06	106	55-123	
Dibenz(a,h)anthracene	1.00	1.37	137	50-121	*+
Fluoranthene	1.00	1.03	103	61-123	
Fluorene	1.00	1.00	100	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.45	145	47-143	*+
Naphthalene	1.00	0.917	92	20-120	
Phenanthrene	1.00	0.986	99	59-120	
Pyrene	1.00	0.913	91	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL1473.D

Lab ID: LCS 410-209125/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.992	99	42-120	
Acenaphthylene	1.00	1.07	107	49-120	
Anthracene	1.00	1.03	103	54-121	
Benzo[a]anthracene	1.00	1.20	120	61-122	
Benzo[a]pyrene	1.00	1.02	102	60-120	
Benzo[b]fluoranthene	1.00	1.21	121	58-122	
Benzo[g,h,i]perylene	1.00	0.940	94	50-120	
Benzo[k]fluoranthene	1.00	0.989	99	57-128	
Chrysene	1.00	1.02	102	55-123	
Dibenz(a,h)anthracene	1.00	0.949	95	50-121	
Fluoranthene	1.00	1.20	120	61-123	
Fluorene	1.00	1.10	110	55-120	
Indeno[1,2,3-cd]pyrene	1.00	1.04	104	47-143	
Naphthalene	1.00	0.899	90	20-120	
Phenanthrene	1.00	1.13	113	59-120	
Pyrene	1.00	0.921	92	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ML1803.D

Lab ID: LCS 410-210459/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.738	74	42-120	
Acenaphthylene	1.00	0.775	78	49-120	
Anthracene	1.00	0.857	86	54-121	
Benzo[a]anthracene	1.00	0.866	87	61-122	
Benzo[a]pyrene	1.00	0.839	84	60-120	
Benzo[b]fluoranthene	1.00	0.906	91	58-122	
Benzo[g,h,i]perylene	1.00	0.830	83	50-120	
Benzo[k]fluoranthene	1.00	0.885	89	57-128	
Chrysene	1.00	0.831	83	55-123	
Dibenz(a,h)anthracene	1.00	0.821	82	50-121	
Fluoranthene	1.00	0.901	90	61-123	
Fluorene	1.00	0.843	84	55-120	
Indeno[1,2,3-cd]pyrene	1.00	0.835	84	47-143	
Naphthalene	1.00	0.692	69	20-120	
Phenanthrene	1.00	0.827	83	59-120	
Pyrene	1.00	0.808	81	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL1214.D

Lab ID: 410-68043-6 MS Client ID: MW-7S-20211221 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	1.04	0.087	0.920	80	42-120	
Acenaphthylene	1.04	0.015 J	0.879	83	49-120	
Anthracene	1.04	0.021 J	0.862	81	54-121	
Benzo[a]anthracene	1.04	ND	0.974	94	61-122	
Benzo[a]pyrene	1.04	ND	0.818	79	60-120	
Benzo[b]fluoranthene	1.04	ND	0.939	91	58-122	
Benzo[g,h,i]perylene	1.04	ND	0.645	62	50-120	
Benzo[k]fluoranthene	1.04	ND	0.800	77	57-128	
Chrysene	1.04	ND	0.893	86	55-123	
Dibenz(a,h)anthracene	1.04	ND	0.782	75	50-121	
Fluoranthene	1.04	ND	0.857	83	61-123	
Fluorene	1.04	0.017 J	0.919	87	55-120	
Indeno[1,2,3-cd]pyrene	1.04	ND	0.796	77	47-143	
Naphthalene	1.04	ND	0.798	77	20-120	
Phenanthrene	1.04	ND	0.879	85	59-120	
Pyrene	1.04	ND	0.806	78	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Matrix: Water Level: Low Lab File ID: NL1215.D

Lab ID: 410-68043-6 MSD Client ID: MW-7S-20211221 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.01	1.07	97	15	30	42-120	
Acenaphthylene	1.01	1.02	99	14	30	49-120	
Anthracene	1.01	1.08	104	22	30	54-121	
Benzo[a]anthracene	1.01	1.13	112	15	30	61-122	
Benzo[a]pyrene	1.01	0.914	91	11	30	60-120	
Benzo[b]fluoranthene	1.01	1.04	103	10	30	58-122	
Benzo[g,h,i]perylene	1.01	0.637	63	1	30	50-120	
Benzo[k]fluoranthene	1.01	0.900	89	12	30	57-128	
Chrysene	1.01	1.02	101	14	30	55-123	
Dibenz(a,h)anthracene	1.01	0.754	75	4	30	50-121	
Fluoranthene	1.01	1.04	104	20	30	61-123	
Fluorene	1.01	1.06	103	14	30	55-120	
Indeno[1,2,3-cd]pyrene	1.01	0.756	75	5	30	47-143	
Naphthalene	1.01	0.945	94	17	30	20-120	
Phenanthrene	1.01	1.08	107	20	30	59-120	
Pyrene	1.01	0.908	90	12	30	46-122	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Lab File ID: NL1202.D Lab Sample ID: MB 410-209023/1-A

Matrix: Water Date Extracted: 12/27/2021 03:09

Instrument ID: HP23263 Date Analyzed: 12/27/2021 15:08

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-209023/2-A	NL1203.D	12/27/2021 15:36
MW-1-20211220	410-68043-1	NL1208.D	12/27/2021 17:54
MW-10S-20211220	410-68043-2	NL1209.D	12/27/2021 18:22
MW-10D-20211220	410-68043-3	NL1210.D	12/27/2021 18:50
MW-8S-20211220	410-68043-4	NL1211.D	12/27/2021 19:18
MW-8D-20211220	410-68043-5	NL1212.D	12/27/2021 19:46
MW-7S-20211221	410-68043-6	NL1213.D	12/27/2021 20:13
MW-7S-20211221 MS	410-68043-6 MS	NL1214.D	12/27/2021 20:41
MW-7S-20211221 MSD	410-68043-6 MSD	NL1215.D	12/27/2021 21:09
MW-7D-20211221	410-68043-7	NL1216.D	12/27/2021 21:37
MW-14S-20211221	410-68043-8	NL1217.D	12/27/2021 22:05
MW-14D-20211221	410-68043-9	NL1218.D	12/27/2021 22:32
EB-20211221	410-68043-10	NL1219.D	12/27/2021 23:00
MW-12S-20211221	410-68043-11	NL1220.D	12/27/2021 23:28
MW-12D-20211221	410-68043-12	NL1221.D	12/27/2021 23:56
MW-11S-20211221	410-68043-13	NL1222.D	12/28/2021 00:23
MW-11D-20211221	410-68043-14	NL1223.D	12/28/2021 00:51
MW-12S-20211221 RA	410-68043-11 RA	NL1260.D	12/28/2021 12:34
MW-11S-20211221 DL	410-68043-13 DL	NL1261.D	12/28/2021 13:02

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Lab File ID: NL1472.D Lab Sample ID: MB 410-209125/1-A

Matrix: Water Date Extracted: 12/27/2021 10:30

Instrument ID: HP23263 Date Analyzed: 12/30/2021 06:40

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-209125/2-A	NL1473.D	12/30/2021 07:08
MW-4S-20211222	410-68043-15	NL1489.D	12/30/2021 14:33
MW-4D-20211222	410-68043-16	NL1490.D	12/30/2021 15:01
MW-3-20211222	410-68043-17	NL1491.D	12/30/2021 15:28
MW-13S-20211222	410-68043-18	NL1492.D	12/30/2021 15:56
MW-13D-20211222	410-68043-19	NL1493.D	12/30/2021 16:24
Dup-20211222	410-68043-20	NL1494.D	12/30/2021 16:52
MW-4S-20211222 DL	410-68043-15 DL	NA0002.D	01/03/2022 06:52
MW-3-20211222 DL	410-68043-17 DL	NA0003.D	01/03/2022 07:20
Dup-20211222 DL	410-68043-20 DL	NA0004.D	01/03/2022 07:48

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-68043-1

SDG No.:

Lab File ID: ML1802.D Lab Sample ID: MB 410-210459/1-A

Matrix: Water Date Extracted: 12/30/2021 09:26

Instrument ID: HP21585 Date Analyzed: 12/31/2021 14:43

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-210459/2-A	ML1803.D	12/31/2021 15:13
MW-10S-20211220 RE	410-68043-2 RE	ML1804.D	12/31/2021 15:43
MW-8S-20211220 RE	410-68043-4 RE	ML1805.D	12/31/2021 16:13
MW-8D-20211220 RE	410-68043-5 RE	ML1806.D	12/31/2021 16:43
MW-14D-20211221 RE	410-68043-9 RE	ML1807.D	12/31/2021 17:13
MW-11S-20211221 RE	410-68043-13 RE	ML1808.D	12/31/2021 17:43

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: ML1100.D DFTPP Injection Date: 12/21/2021

Instrument ID: HP21585 DFTPP Injection Time: 09:37

Analysis Batch No.: 207883

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	29.4	
68	Less than 2% of mass 69	0.6	(1.5) 1
69	Mass 69 Relative abundance	38.6	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	43.0	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	31.6	
365	Greater than 1% of mass 198	5.1	
441	present but less than 24% of mass 442	28.1	(15.3) 2
442	Greater than 50% of mass 198	184.0	
443	15-24% of mass 442	35.4	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 410-207883/2	ML1101.D	12/21/2021	9:55
	IC 410-207883/3	ML1102.D	12/21/2021	10:25
	IC 410-207883/4	ML1103.D	12/21/2021	10:54
	IC 410-207883/5	ML1104.D	12/21/2021	11:24
	IC 410-207883/6	ML1105.D	12/21/2021	11:54
	IC 410-207883/7	ML1106.D	12/21/2021	12:24
	ICV 410-207883/9	ML1108.D	12/21/2021	13:24
	ICV 410-207883/10	ML1109.D	12/21/2021	13:54
	ICV 410-207883/11	ML1110.D	12/21/2021	14:24

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: ML1800.D DFTPP Injection Date: 12/31/2021

Instrument ID: HP21585 DFTPP Injection Time: 12:02

Analysis Batch No.: 210855

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	22.2	
68	Less than 2% of mass 69	0.5	(1.8) 1
69	Mass 69 Relative abundance	29.6	
70	Less than 2% of mass 69	0.2	(0.7) 1
127	10-80% of Base Peak	35.7	
197	Less than 2% of mass 198	0.2	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	33.5	
365	Greater than 1% of mass 198	5.2	
441	present but less than 24% of mass 442	31.4	(15.4) 2
442	Greater than 50% of mass 198	203.5	
443	15-24% of mass 442	39.1	(19.2) 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 410-210855/2	ML1801.D	12/31/2021	12:55
	MB 410-210459/1-A	ML1802.D	12/31/2021	14:43
	LCS 410-210459/2-A	ML1803.D	12/31/2021	15:13
MW-10S-20211220 RE	410-68043-2 RE	ML1804.D	12/31/2021	15:43
MW-8S-20211220 RE	410-68043-4 RE	ML1805.D	12/31/2021	16:13
MW-8D-20211220 RE	410-68043-5 RE	ML1806.D	12/31/2021	16:43
MW-14D-20211221 RE	410-68043-9 RE	ML1807.D	12/31/2021	17:13
MW-11S-20211221 RE	410-68043-13 RE	ML1808.D	12/31/2021	17:43

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: NL0600.D DFTPP Injection Date: 12/16/2021

Instrument ID: HP23263 DFTPP Injection Time: 08:56

Analysis Batch No.: 206078

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	66.6	
68	Less than 2% of mass 69	1.2	(1.6) 1
69	Mass 69 Relative abundance	77.0	
70	Less than 2% of mass 69	0.3	(0.4) 1
127	10-80% of Base Peak	65.2	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	26.9	
365	Greater than 1% of mass 198	5.0	
441	present but less than 24% of mass 442	16.4	(16.3) 2
442	Greater than 50% of mass 198	100.8	
443	15-24% of mass 442	19.5	(19.3) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 410-206078/2	NL0601.D	12/16/2021	9:13
	IC 410-206078/3	NL0602.D	12/16/2021	9:46
	IC 410-206078/4	NL0603.D	12/16/2021	10:13
	IC 410-206078/5	NL0604.D	12/16/2021	10:41
	IC 410-206078/6	NL0605.D	12/16/2021	11:09
	IC 410-206078/7	NL0606.D	12/16/2021	11:36
	ICV 410-206078/9	NL0608.D	12/16/2021	12:32
	ICV 410-206078/10	NL0609.D	12/16/2021	12:59
	ICV 410-206078/11	NL0610.D	12/16/2021	13:27

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: NL1200a.D DFTPP Injection Date: 12/27/2021

Instrument ID: HP23263 DFTPP Injection Time: 12:51

Analysis Batch No.: 209113

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	65.2	
68	Less than 2% of mass 69	1.2	(1.6) 1
69	Mass 69 Relative abundance	74.3	
70	Less than 2% of mass 69	0.4	(0.5) 1
127	10-80% of Base Peak	63.7	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	27.7	
365	Greater than 1% of mass 198	5.4	
441	present but less than 24% of mass 442	16.9	(16.9) 2
442	Greater than 50% of mass 198	99.9	
443	15-24% of mass 442	20.2	(20.2) 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 410-209113/2	NL1201.D	12/27/2021	13:26
	MB 410-209023/1-A	NL1202.D	12/27/2021	15:08
	LCS 410-209023/2-A	NL1203.D	12/27/2021	15:36
MW-1-20211220	410-68043-1	NL1208.D	12/27/2021	17:54
MW-10S-20211220	410-68043-2	NL1209.D	12/27/2021	18:22
MW-10D-20211220	410-68043-3	NL1210.D	12/27/2021	18:50
MW-8S-20211220	410-68043-4	NL1211.D	12/27/2021	19:18
MW-8D-20211220	410-68043-5	NL1212.D	12/27/2021	19:46
MW-7S-20211221	410-68043-6	NL1213.D	12/27/2021	20:13
MW-7S-20211221 MS	410-68043-6 MS	NL1214.D	12/27/2021	20:41
MW-7S-20211221 MSD	410-68043-6 MSD	NL1215.D	12/27/2021	21:09
MW-7D-20211221	410-68043-7	NL1216.D	12/27/2021	21:37
MW-14S-20211221	410-68043-8	NL1217.D	12/27/2021	22:05
MW-14D-20211221	410-68043-9	NL1218.D	12/27/2021	22:32
EB-20211221	410-68043-10	NL1219.D	12/27/2021	23:00
MW-12S-20211221	410-68043-11	NL1220.D	12/27/2021	23:28
MW-12D-20211221	410-68043-12	NL1221.D	12/27/2021	23:56
MW-11S-20211221	410-68043-13	NL1222.D	12/28/2021	0:23
MW-11D-20211221	410-68043-14	NL1223.D	12/28/2021	0:51

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: NL1250.D DFTPP Injection Date: 12/28/2021

Instrument ID: HP23263 DFTPP Injection Time: 07:26

Analysis Batch No.: 209501

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	66.3	
68	Less than 2% of mass 69	1.0	(1.4) 1
69	Mass 69 Relative abundance	71.0	
70	Less than 2% of mass 69	0.4	(0.6) 1
127	10-80% of Base Peak	63.1	
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	27.2	
365	Greater than 1% of mass 198	6.2	
441	present but less than 24% of mass 442	19.1	(17.6) 2
442	Greater than 50% of mass 198	109.0	
443	15-24% of mass 442	21.8	(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
	CCVIS 410-209501/2	NL1251.D	12/28/2021	8:17
MW-12S-20211221 RA	410-68043-11 RA	NL1260.D	12/28/2021	12:34
MW-11S-20211221 DL	410-68043-13 DL	NL1261.D	12/28/2021	13:02

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: NL1470.D DFTPP Injection Date: 12/30/2021

Instrument ID: HP23263 DFTPP Injection Time: 05:22

Analysis Batch No.: 210397

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	39.1	
68	Less than 2% of mass 69	0.1	(0.2) 1
69	Mass 69 Relative abundance	36.6	
70	Less than 2% of mass 69	0.2	(0.6) 1
127	10-80% of Base Peak	47.8	
197	Less than 2% of mass 198	0.5	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	37.3	
365	Greater than 1% of mass 198	8.6	
441	present but less than 24% of mass 442	36.4	(17.1) 2
442	Greater than 50% of mass 198	212.5	
443	15-24% of mass 442	42.9	(20.2) 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 410-210397/2	NL1471.D	12/30/2021	5:41
	MB 410-209125/1-A	NL1472.D	12/30/2021	6:40
	LCS 410-209125/2-A	NL1473.D	12/30/2021	7:08
MW-4S-20211222	410-68043-15	NL1489.D	12/30/2021	14:33
MW-4D-20211222	410-68043-16	NL1490.D	12/30/2021	15:01
MW-3-20211222	410-68043-17	NL1491.D	12/30/2021	15:28
MW-13S-20211222	410-68043-18	NL1492.D	12/30/2021	15:56
MW-13D-20211222	410-68043-19	NL1493.D	12/30/2021	16:24
Dup-20211222	410-68043-20	NL1494.D	12/30/2021	16:52

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Lab File ID: NA0000.D DFTPP Injection Date: 01/03/2022

Instrument ID: HP23263 DFTPP Injection Time: 05:49

Analysis Batch No.: 210939

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	42.8	
68	Less than 2% of mass 69	0.0	(0.0) 1
69	Mass 69 Relative abundance	41.9	
70	Less than 2% of mass 69	0.3	(0.6) 1
127	10-80% of Base Peak	51.1	
197	Less than 2% of mass 198	0.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.2	
275	10-60% of Base Peak	36.1	
365	Greater than 1% of mass 198	6.5	
441	present but less than 24% of mass 442	29.0	(16.9) 2
442	Greater than 50% of mass 198	171.2	
443	15-24% of mass 442	34.9	(20.4) 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 410-210939/2	NA0001.D	01/03/2022	6:06
MW-4S-20211222 DL	410-68043-15 DL	NA0002.D	01/03/2022	6:52
MW-3-20211222 DL	410-68043-17 DL	NA0003.D	01/03/2022	7:20
Dup-20211222 DL	410-68043-20 DL	NA0004.D	01/03/2022	7:48

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: ICIS 410-207883/2 Date Analyzed: 12/21/2021 09:55

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ML1101.D Heated Purge: (Y/N) N

Calibration ID: 34110

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		63558	7.10	215330	9.01	135017	11.77
UPPER LIMIT		127116	7.60	430660	9.51	270034	12.27
LOWER LIMIT		31779	6.60	107665	8.51	67509	11.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-207883/9		60940	7.10	199860	8.99	135258	11.76
ICV 410-207883/10		75934	7.10	245680	8.99	163495	11.76
ICV 410-207883/11		59225	7.12	199630	9.01	133578	11.77
CCVIS 410-210855/2		42891	7.01	134339	8.93	92009	11.71

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: ICIS 410-207883/2 Date Analyzed: 12/21/2021 09:55

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ML1101.D Heated Purge: (Y/N) N

Calibration ID: 34110

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		266282	13.65	290771	17.77	342589	20.25
UPPER LIMIT		532564	14.15	581542	18.27	685178	20.75
LOWER LIMIT		133141	13.15	145386	17.27	171295	19.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-207883/9		268368	13.65	291650	17.77	330293	20.25
ICV 410-207883/10		321440	13.65	364849	17.77	410312	20.25
ICV 410-207883/11		260431	13.65	284661	17.77	340339	20.25
CCVIS 410-210855/2		196553	13.60	236138	17.70	276181	20.17

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210855/2 Date Analyzed: 12/31/2021 12:55

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ML1801.D Heated Purge: (Y/N) N

Calibration ID: 34110

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		42891	7.01	134339	8.93	92009	11.71
UPPER LIMIT		85782	7.51	268678	9.43	184018	12.21
LOWER LIMIT		21446	6.51	67170	8.43	46005	11.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-210459/1-A		45656	7.01	137484	8.93	95930	11.71
LCS 410-210459/2-A		40873	7.01	127064	8.93	91445	11.71
410-68043-2 RE	MW-10S-20211220 RE	40906	7.01	126580	8.93	90421	11.71
410-68043-4 RE	MW-8S-20211220 RE	41118	7.01	127887	8.93	88956	11.71
410-68043-5 RE	MW-8D-20211220 RE	41453	7.01	126971	8.93	91723	11.71
410-68043-9 RE	MW-14D-20211221 RE	41142	7.01	126992	8.93	89663	11.71
410-68043-13 RE	MW-11S-20211221 RE	41218	7.01	126298	8.93	93786	11.71

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210855/2 Date Analyzed: 12/31/2021 12:55

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): ML1801.D Heated Purge: (Y/N) N

Calibration ID: 34110

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		196553	13.60	236138	17.70	276181	20.17
UPPER LIMIT		393106	14.10	472276	18.20	552362	20.67
LOWER LIMIT		98277	13.10	118069	17.20	138091	19.67
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-210459/1-A		203171	13.60	231514	17.69	270134	20.18
LCS 410-210459/2-A		192441	13.60	223853	17.69	252099	20.17
410-68043-2 RE	MW-10S-20211220 RE	192723	13.60	211839	17.69	247689	20.17
410-68043-4 RE	MW-8S-20211220 RE	193502	13.60	218439	17.69	253412	20.17
410-68043-5 RE	MW-8D-20211220 RE	195500	13.60	217453	17.70	257625	20.17
410-68043-9 RE	MW-14D-20211221 RE	193879	13.60	214939	17.69	244678	20.17
410-68043-13 RE	MW-11S-20211221 RE	198251	13.60	215055	17.69	243732	20.17

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: ICIS 410-206078/2 Date Analyzed: 12/16/2021 09:13

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL0601.D Heated Purge: (Y/N) N

Calibration ID: 34022

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		92306	5.98	318012	8.01	169229	10.86
UPPER LIMIT		184612	6.48	636024	8.51	338458	11.36
LOWER LIMIT		46153	5.48	159006	7.51	84615	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-206078/9		89596	5.99	312295	8.01	171041	10.87
ICV 410-206078/10		110090	5.99	385065	8.01	212089	10.87
ICV 410-206078/11		93924	6.03	322391	8.01	184946	10.87
CCVIS 410-209113/2		82688	5.94	285941	7.98	155057	10.84
CCVIS 410-210397/2		56648	5.92	172469	7.96	92146	10.82
CCVIS 410-210939/2		52206	5.89	160333	7.94	86672	10.81

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: ICIS 410-206078/2 Date Analyzed: 12/16/2021 09:13

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL0601.D Heated Purge: (Y/N) N

Calibration ID: 34022

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		312153	12.83	229531	16.79	228872	19.24
UPPER LIMIT		624306	13.33	459062	17.29	457744	19.74
LOWER LIMIT		156077	12.33	114766	16.29	114436	18.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-206078/9		302192	12.84	224203	16.79	226290	19.25
ICV 410-206078/10		353400	12.84	254607	16.79	268269	19.25
ICV 410-206078/11		319696	12.84	253214	16.80	249451	19.25
CCVIS 410-209113/2		276421	12.83	218398	16.74	230675	19.18
CCVIS 410-210397/2		177334	12.83	164688	16.70	192663	19.14
CCVIS 410-210939/2		172563	12.82	168982	16.69	203376	19.12

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-209113/2 Date Analyzed: 12/27/2021 13:26

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL1201.D Heated Purge: (Y/N) N

Calibration ID: 34022

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		82688	5.94	285941	7.98	155057	10.84
UPPER LIMIT		165376	6.44	571882	8.48	310114	11.34
LOWER LIMIT		41344	5.44	142971	7.48	77529	10.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-209023/1-A		83654	5.94	283284	7.98	158969	10.84
LCS 410-209023/2-A		79176	5.96	272842	7.98	152266	10.84
410-68043-1	MW-1-20211220	88958	5.96	290834	7.98	175829	10.84
410-68043-2	MW-10S-20211220	85349	5.96	295449	7.98	170354	10.84
410-68043-3	MW-10D-20211220	88347	5.96	306054	7.98	172345	10.84
410-68043-4	MW-8S-20211220	91185	5.96	312284	7.98	168913	10.84
410-68043-5	MW-8D-20211220	84101	5.96	291225	7.98	156347	10.85
410-68043-6	MW-7S-20211221	86539	5.96	294238	7.98	172507	10.84
410-68043-6 MS	MW-7S-20211221 MS	89281	5.96	303153	7.98	170146	10.84
410-68043-6 MSD	MW-7S-20211221 MSD	83434	5.96	282445	7.98	158845	10.84
410-68043-7	MW-7D-20211221	84428	5.96	277230	7.98	159510	10.85
410-68043-8	MW-14S-20211221	84674	5.96	284837	7.98	161814	10.85
410-68043-9	MW-14D-20211221	83476	5.96	285719	7.98	159638	10.85
410-68043-10	EB-20211221	86300	5.96	292477	7.98	160163	10.85
410-68043-11	MW-12S-20211221	84781	5.96	283614	7.98	157105	10.85
410-68043-12	MW-12D-20211221	83921	5.96	287018	7.98	159354	10.85
410-68043-13	MW-11S-20211221	82263	5.96	274120	7.98	159392	10.84
410-68043-14	MW-11D-20211221	83728	5.96	272233	7.98	162826	10.85

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-209113/2 Date Analyzed: 12/27/2021 13:26

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL1201.D Heated Purge: (Y/N) N

Calibration ID: 34022

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		276421	12.83	218398	16.74	230675	19.18
UPPER LIMIT		552842	13.33	436796	17.24	461350	19.68
LOWER LIMIT		138211	12.33	109199	16.24	115338	18.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-209023/1-A		282144	12.84	225686	16.74	217824	19.18
LCS 410-209023/2-A		269705	12.84	212203	16.74	152049	19.18
410-68043-1	MW-1-20211220	277661	12.84	228426	16.74	280556	19.18
410-68043-2	MW-10S-20211220	273035	12.84	232322	16.74	267816	19.18
410-68043-3	MW-10D-20211220	297932	12.84	247523	16.74	266434	19.18
410-68043-4	MW-8S-20211220	296294	12.84	263792	16.74	283847	19.18
410-68043-5	MW-8D-20211220	262360	12.84	242821	16.74	252167	19.18
410-68043-6	MW-7S-20211221	275784	12.84	240442	16.74	264823	19.18
410-68043-6 MS	MW-7S-20211221 MS	303879	12.84	232296	16.74	265858	19.18
410-68043-6 MSD	MW-7S-20211221 MSD	257838	12.84	209932	16.74	241610	19.18
410-68043-7	MW-7D-20211221	267699	12.84	223845	16.75	232674	19.18
410-68043-8	MW-14S-20211221	274856	12.84	222653	16.74	230376	19.18
410-68043-9	MW-14D-20211221	273929	12.84	222321	16.74	221869	19.18
410-68043-10	EB-20211221	272658	12.85	217279	16.75	139559	19.19
410-68043-11	MW-12S-20211221	274894	12.84	218100	16.75	59815*3	19.20
410-68043-12	MW-12D-20211221	265892	12.84	222418	16.74	210286	19.18
410-68043-13	MW-11S-20211221	263451	12.84	199217	16.74	229641	19.18
410-68043-14	MW-11D-20211221	265925	12.84	215113	16.74	222959	19.18

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-209501/2 Date Analyzed: 12/28/2021 08:17

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL1251.D Heated Purge: (Y/N) N

Calibration ID: 34022

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		84920	5.97	293157	8.01	163504	10.87
UPPER LIMIT		169840	6.47	586314	8.51	327008	11.37
LOWER LIMIT		42460	5.47	146579	7.51	81752	10.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-68043-11 RA	MW-12S-20211221 RA	91351	5.97	301159	8.01	168500	10.87
410-68043-13 DL	MW-11S-20211221 DL	90868	5.97	294176	8.01	191570	10.87

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-209501/2 Date Analyzed: 12/28/2021 08:17

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL1251.D Heated Purge: (Y/N) N

Calibration ID: 34022

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		292077	12.87	245558	16.76	260382	19.19
UPPER LIMIT		584154	13.37	491116	17.26	520764	19.69
LOWER LIMIT		146039	12.37	122779	16.26	130191	18.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-68043-11 RA	MW-12S-20211221 RA	308041	12.87	260172	16.77	21992*3	19.21
410-68043-13 DL	MW-11S-20211221 DL	351510	12.87	307225	16.77	303120	19.20

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210397/2 Date Analyzed: 12/30/2021 05:41

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL1471.D Heated Purge: (Y/N) N

Calibration ID: 34022

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		56648	5.92	172469	7.96	92146	10.82
UPPER LIMIT		113296	6.42	344938	8.46	184292	11.32
LOWER LIMIT		28324	5.42	86235	7.46	46073	10.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-209125/1-A		57863	5.91	173749	7.96	97493	10.82
LCS 410-209125/2-A		58410	5.92	172605	7.96	96373	10.82
410-68043-15	MW-4S-20211222	57569	5.92	178568	7.96	95444	10.83
410-68043-16	MW-4D-20211222	58002	5.92	176648	7.96	102028	10.83
410-68043-17	MW-3-20211222	51267	5.92	158912	7.97	82657	10.83
410-68043-18	MW-13S-20211222	58494	5.92	169297	7.96	98042	10.82
410-68043-19	MW-13D-20211222	57415	5.92	174973	7.97	97189	10.82
410-68043-20	Dup-20211222	51507	5.92	158266	7.97	83907	10.83

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210397/2 Date Analyzed: 12/30/2021 05:41

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NL1471.D Heated Purge: (Y/N) N

Calibration ID: 34022

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		177334	12.83	164688	16.70	192663	19.14
UPPER LIMIT		354668	13.33	329376	17.20	385326	19.64
LOWER LIMIT		88667	12.33	82344	16.20	96332	18.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-209125/1-A		178722	12.83	171986	16.71	175515	19.14
LCS 410-209125/2-A		181001	12.83	171015	16.71	183905	19.13
410-68043-15	MW-4S-20211222	178167	12.83	161631	16.71	194845	19.14
410-68043-16	MW-4D-20211222	177813	12.83	167909	16.71	195863	19.15
410-68043-17	MW-3-20211222	128811	12.83	141311	16.71	189162	19.15
410-68043-18	MW-13S-20211222	168319	12.83	159250	16.71	200858	19.15
410-68043-19	MW-13D-20211222	180873	12.83	168226	16.72	199864	19.15
410-68043-20	Dup-20211222	126901	12.83	146815	16.71	189728	19.15

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210939/2 Date Analyzed: 01/03/2022 06:06

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NA0001.D Heated Purge: (Y/N) N

Calibration ID: 34022

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		52206	5.89	160333	7.94	86672	10.81
UPPER LIMIT		104412	6.39	320666	8.44	173344	11.31
LOWER LIMIT		26103	5.39	80167	7.44	43336	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-68043-15 DL	MW-4S-20211222 DL	53295	5.89	150375	7.94	86672	10.81
410-68043-17 DL	MW-3-20211222 DL	52469	5.89	153180	7.94	92396	10.81
410-68043-20 DL	Dup-20211222 DL	53517	5.89	156694	7.94	88981	10.80

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 8270D SIM

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Sample No.: CCVIS 410-210939/2 Date Analyzed: 01/03/2022 06:06

Instrument ID: HP23263 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): NA0001.D Heated Purge: (Y/N) N

Calibration ID: 34022

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		172563	12.82	168982	16.69	203376	19.12
UPPER LIMIT		345126	13.32	337964	17.19	406752	19.62
LOWER LIMIT		86282	12.32	84491	16.19	101688	18.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-68043-15 DL	MW-4S-20211222 DL	171617	12.82	162230	16.69	185610	19.12
410-68043-17 DL	MW-3-20211222 DL	175482	12.82	173815	16.69	199054	19.12
410-68043-20 DL	Dup-20211222 DL	177916	12.82	175201	16.69	195695	19.12

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 8270D SIM

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-1-20211220 Lab Sample ID: 410-68043-1

Matrix: Ground Water Lab File ID: NL1208.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 13:18

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 243.9(mL) Date Analyzed: 12/27/2021 17:54

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 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	0.021
206-44-0	Fluoranthene	ND		0.051	0.010
86-73-7	Fluorene	0.011	J	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	ND		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	86		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	97		36-111
93951-69-0	Fluoranthene-d10 (Surr)	91		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1208.D
Lims ID: 410-68043-A-1-A
Client ID: MW-1-20211220
Sample Type: Client
Inject. Date: 27-Dec-2021 17:54:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-1-A
Misc. Info.: 410-0047167-009
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:13:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	98	88958	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	290834	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	149347	0.2420	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	97	175829	0.2500	
17 Fluorene	166	11.696	11.696	0.000	51	2552	0.002781	M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	277661	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	98	241320	0.2268	
* 29 Chrysene-d12	240	16.744	16.737	0.007	81	228426	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	97	217478	0.2149	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	280556	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

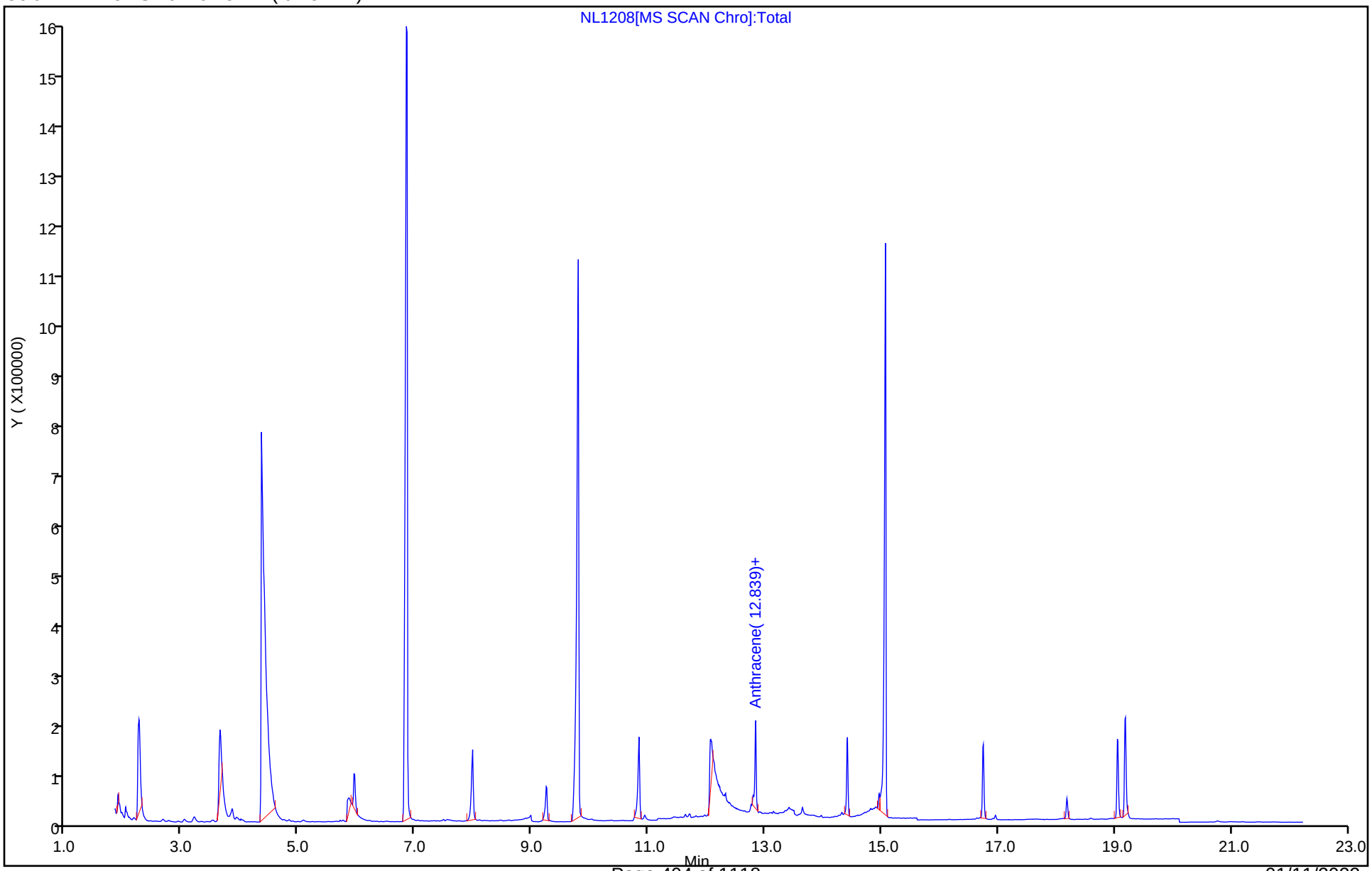
Report Date: 28-Dec-2021 06:59:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1208.D

Injection Date:	27-Dec-2021 17:54:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-1-A	Lab Sample ID:	410-68043-1	Worklist Smp#:	9
Client ID:	MW-1-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

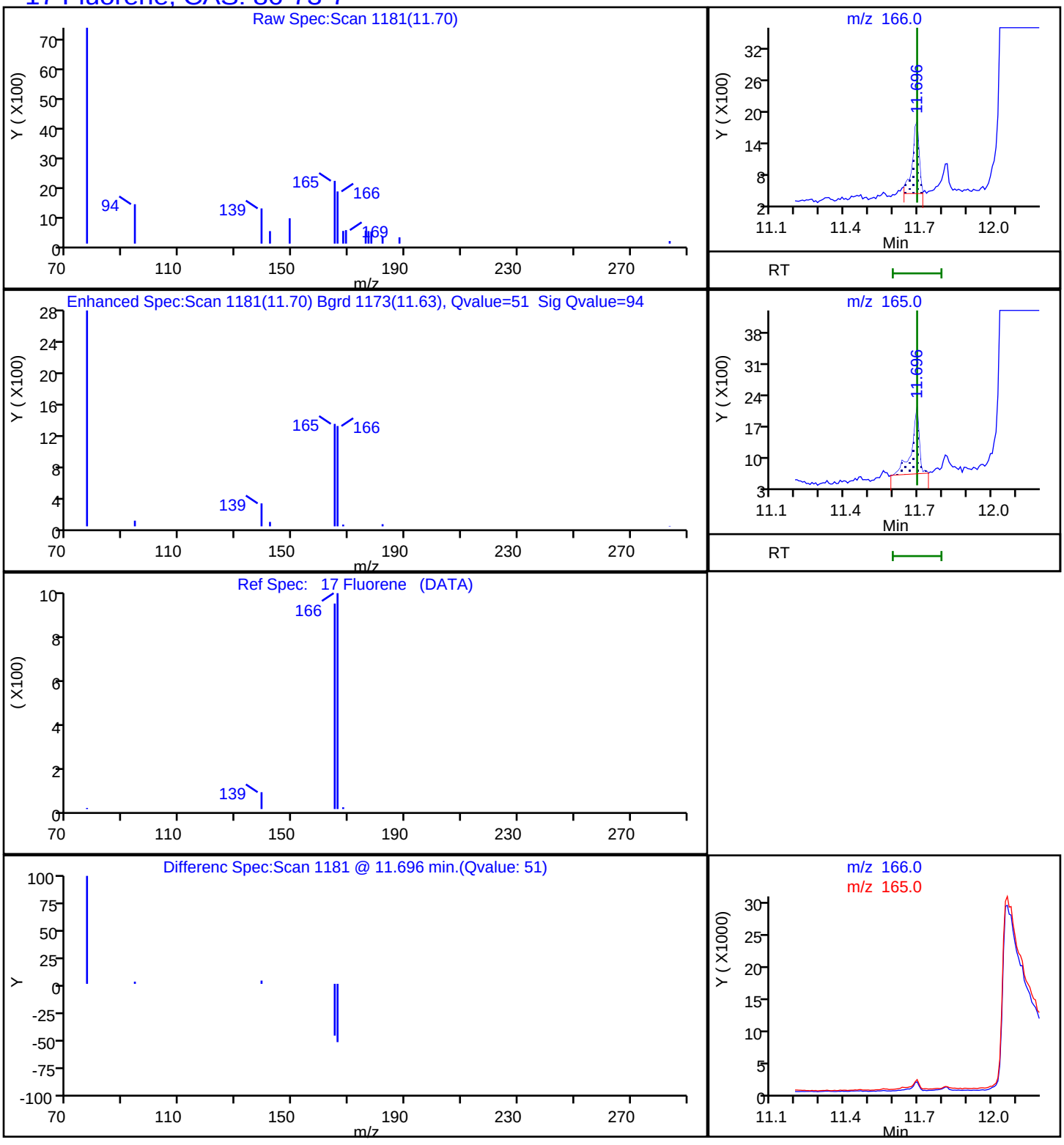
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1208.D		
Injection Date:	27-Dec-2021 17:54:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-1-A	Lab Sample ID:	410-68043-1
Client ID:	MW-1-20211220		
Operator ID:	whs02991	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

17 Fluorene, CAS: 86-73-7



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

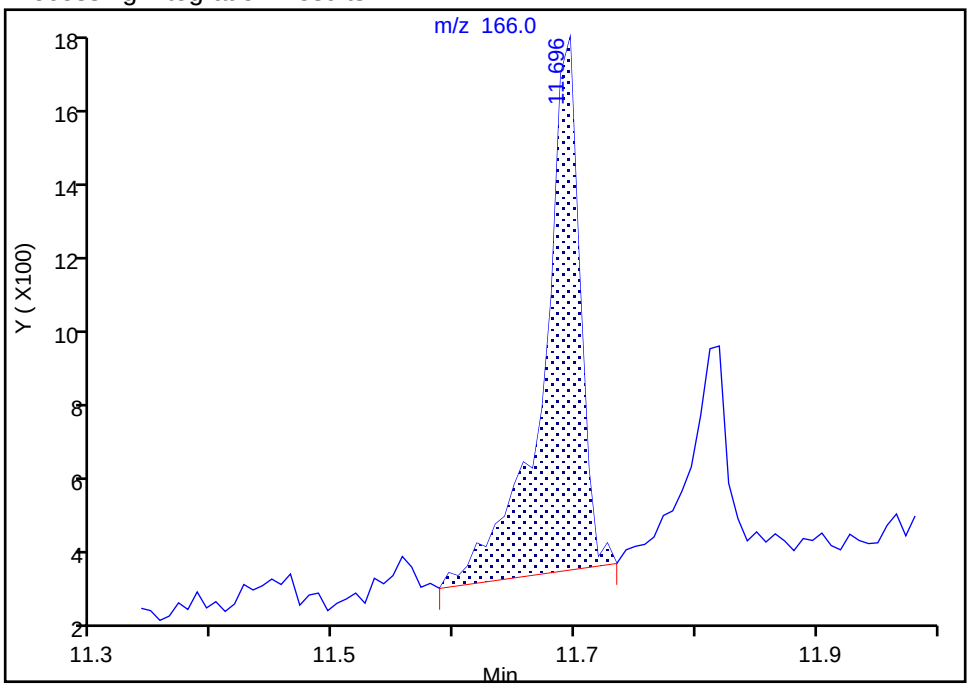
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Injection Date:	27-Dec-2021 17:54:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-1-A	Lab Sample ID:	410-68043-1		
Client ID:	MW-1-20211220				
Operator ID:	whs02991	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

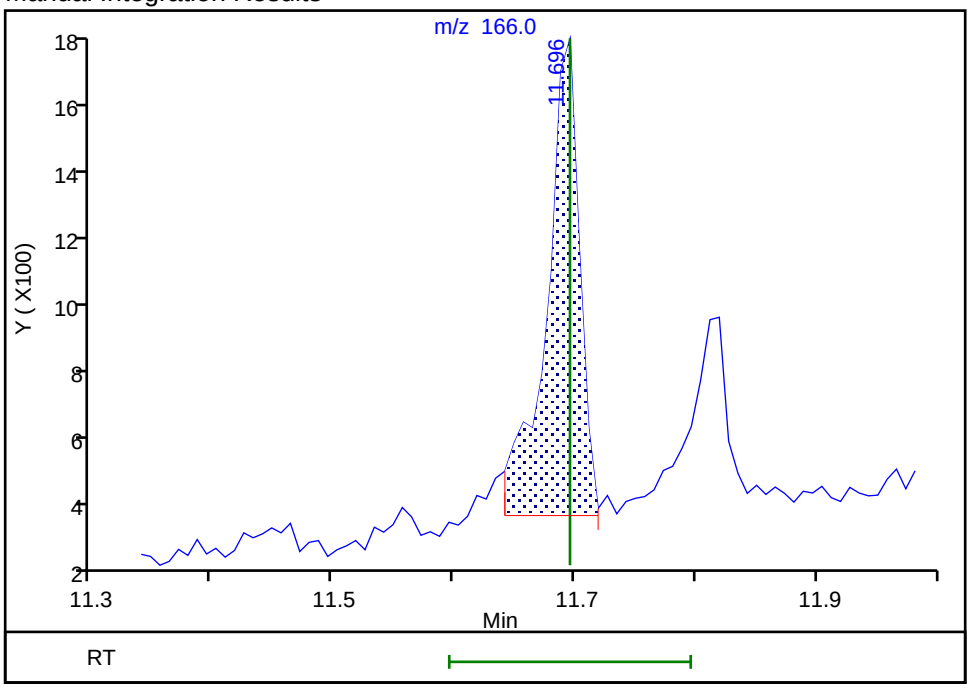
Processing Integration Results

RT: 11.70
Area: 2913
Amount: 0.003174
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 2552
Amount: 0.002781
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:13:16

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-10S-20211220 Lab Sample ID: 410-68043-2

Matrix: Ground Water Lab File ID: NL1209.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 14:47

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 243.7(mL) Date Analyzed: 12/27/2021 18:22

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND	cn	0.051	0.010
208-96-8	Acenaphthylene	ND	cn	0.051	0.010
120-12-7	Anthracene	ND	cn	0.051	0.010
56-55-3	Benzo[a]anthracene	0.017	J cn	0.051	0.010
50-32-8	Benzo[a]pyrene	0.018	J cn	0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.026	J *+ cn	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	0.016	J *+ cn	0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND	*+ cn	0.051	0.010
218-01-9	Chrysene	ND	cn	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND	*+ cn	0.051	0.021
206-44-0	Fluoranthene	0.017	J cn	0.051	0.010
86-73-7	Fluorene	0.010	J cn	0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.051	0.021
91-20-3	Naphthalene	ND	cn	0.072	0.031
85-01-8	Phenanthrene	ND	cn	0.072	0.031
129-00-0	Pyrene	0.023	J cn	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	90	cn	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	97	cn	36-111
93951-69-0	Fluoranthene-d10 (Surr)	93	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D
Lims ID: 410-68043-A-2-A
Client ID: MW-10S-20211220
Sample Type: Client
Inject. Date: 27-Dec-2021 18:22:30 ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-2-A
Misc. Info.: 410-0047167-010
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:15:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	98	85349	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	295449	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	152318	0.2429	
12 Acenaphthylene	152	10.604	10.614	0.010	100	1756	0.001446	M
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	95	170354	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	68	1688	0.002230	M
17 Fluorene	166	11.696	11.696	0.000	68	2168	0.002438	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	273035	0.2500	
22 Anthracene	178	12.931	12.939	0.007	97	1275	0.001138	7M
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	243190	0.2324	
25 Fluoranthene	202	14.437	14.448	0.006	47	4939	0.004207	
26 Pyrene	202	14.769	14.775	0.012	94	8001	0.005504	
28 Benzo[a]anthracene	228	16.729	16.736	0.008	6	4629	0.004158	
* 29 Chrysene-d12	240	16.744	16.737	0.007	82	232322	0.2500	
33 Benzo[b]fluoranthene	252	18.585	18.592	0.031	99	8299	0.006296	M
34 Benzo[k]fluoranthene	252	18.623	18.639	0.023	80	2720	0.001811	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	98	218144	0.2262	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	99	5616	0.004410	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	267816	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.817	20.845	0.042	97	4719	0.004066	
42 Benzo[g,h,i]perylene	276	21.177	21.168	0.035	94	5794	0.003947	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

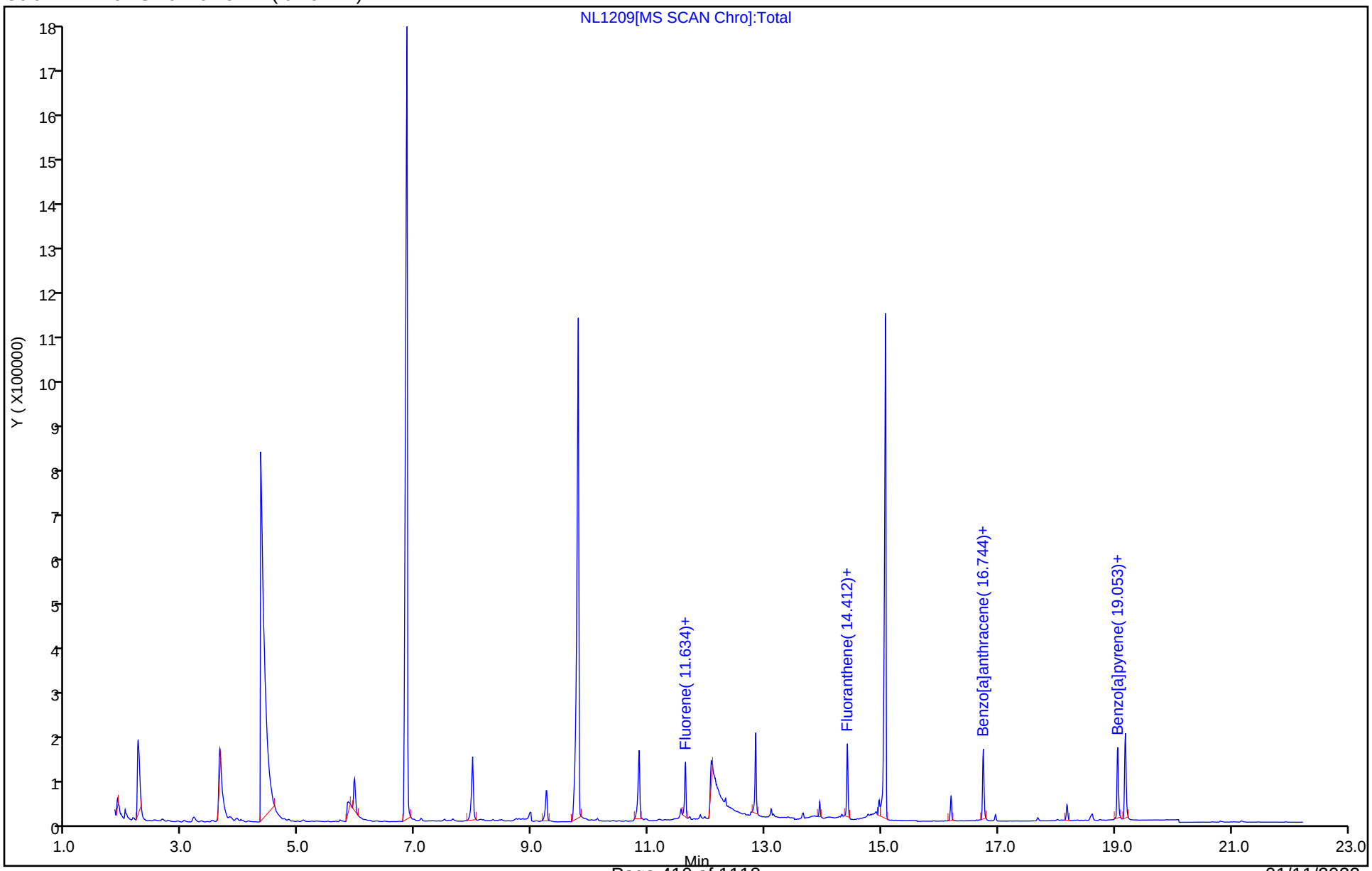
Report Date: 28-Dec-2021 06:59:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D

Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2	Worklist Smp#:	10
Client ID:	MW-10S-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

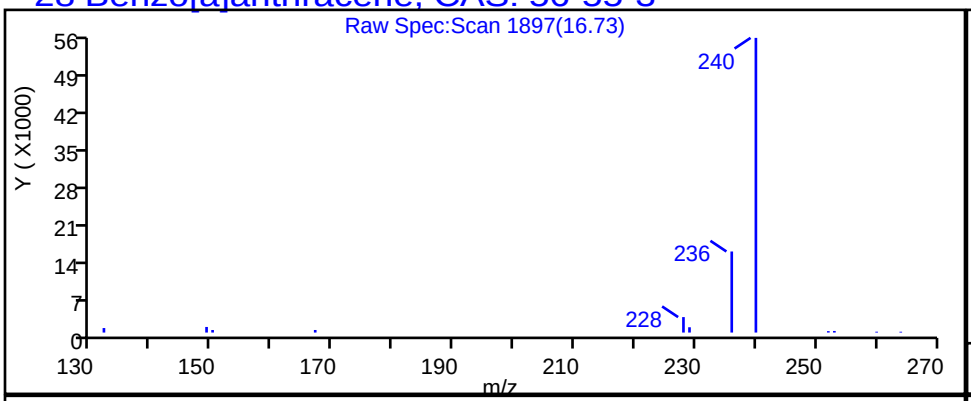
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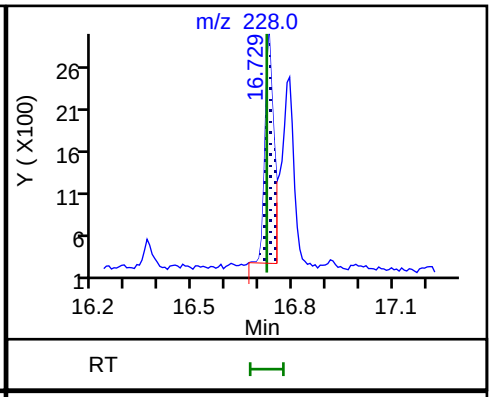


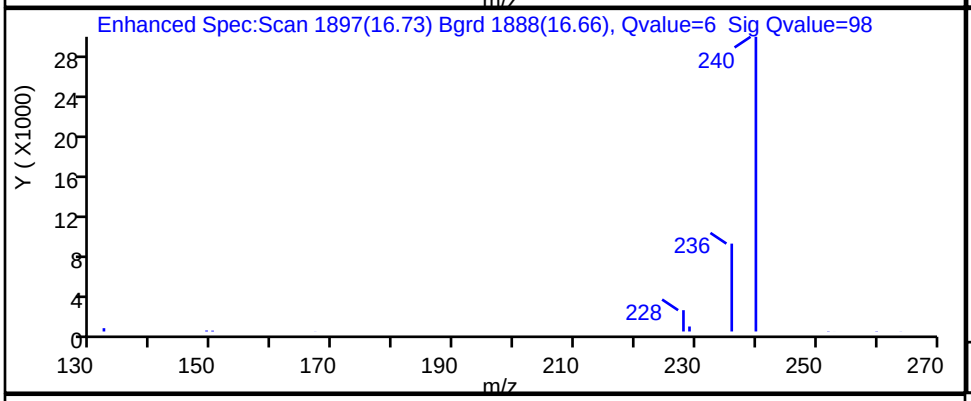
Eurofins Lancaster Laboratories Env, LLC

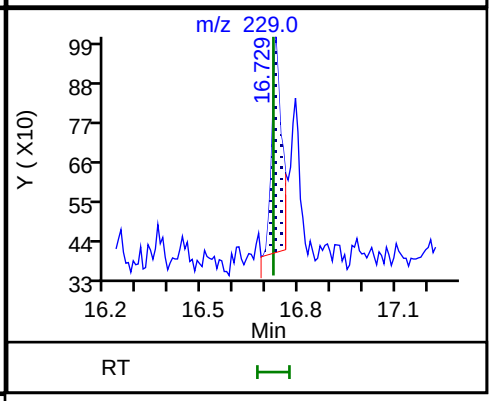
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Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

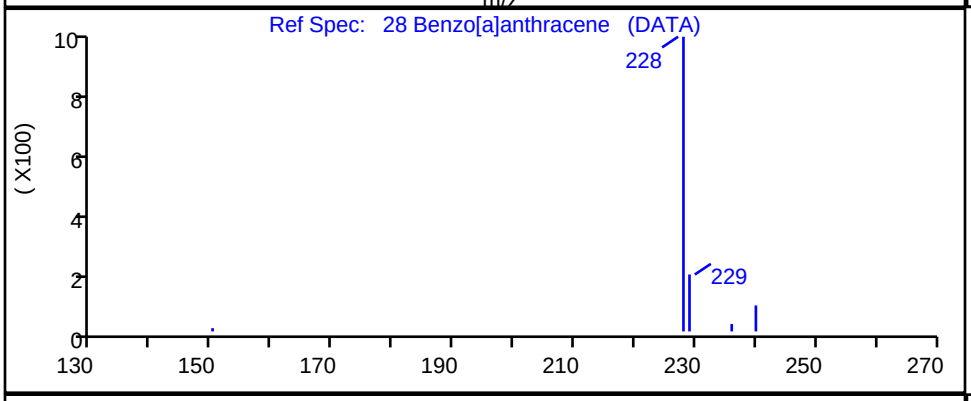
28 Benzo[a]anthracene, CAS: 56-55-3

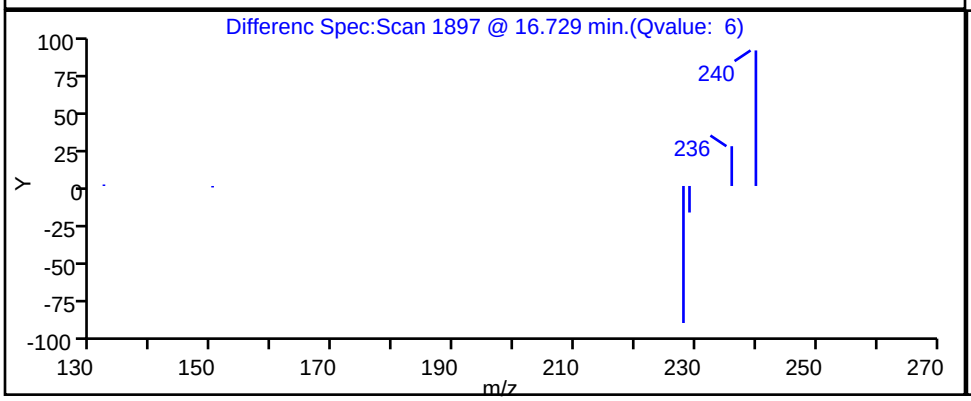


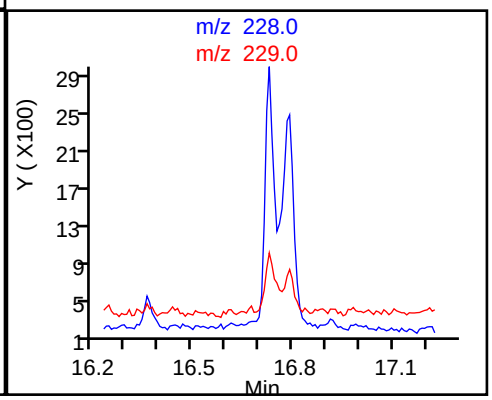












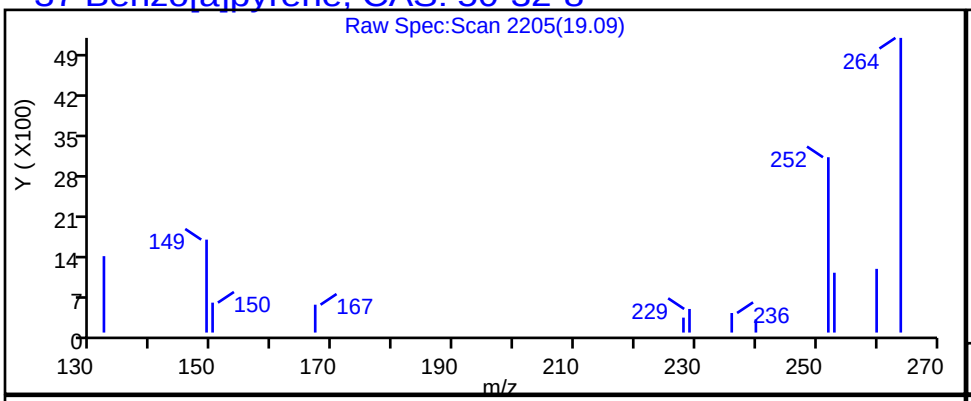
Report Date: 28-Dec-2021 06:59:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

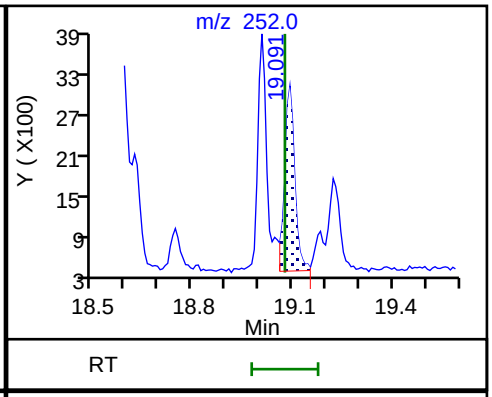
Eurofins Lancaster Laboratories Env, LLC

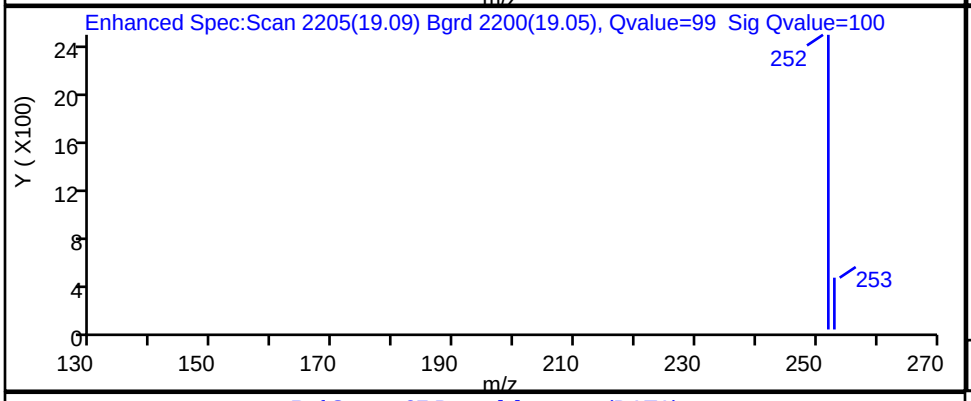
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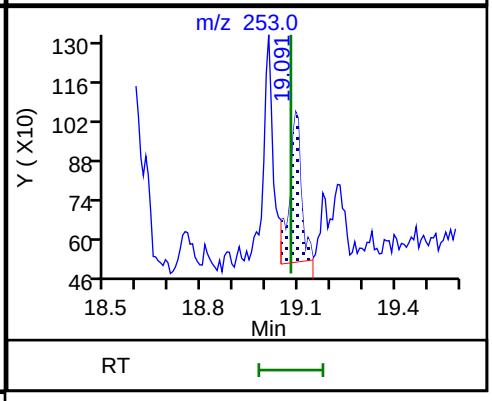
Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

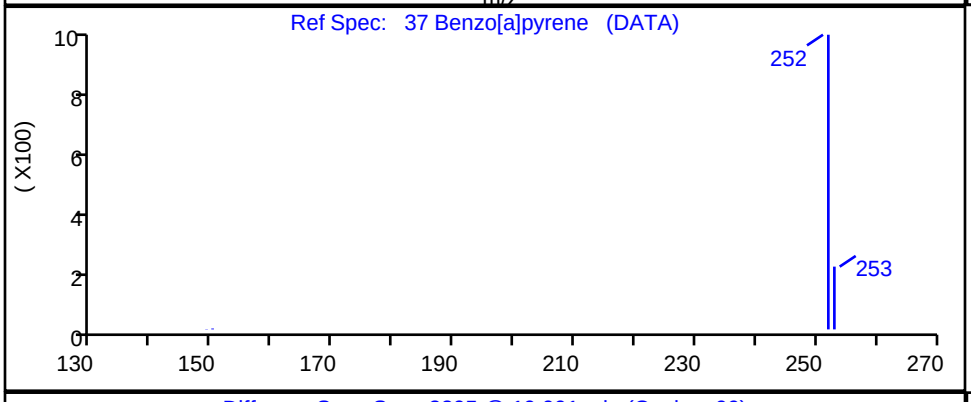
37 Benzo[a]pyrene, CAS: 50-32-8

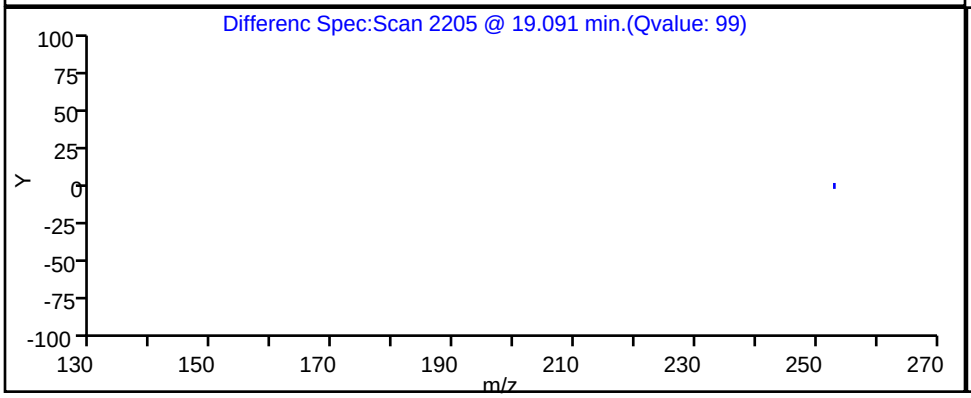


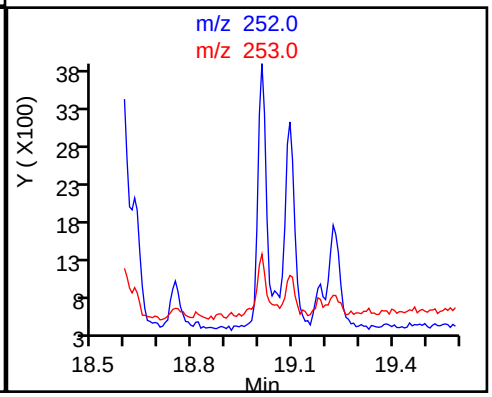








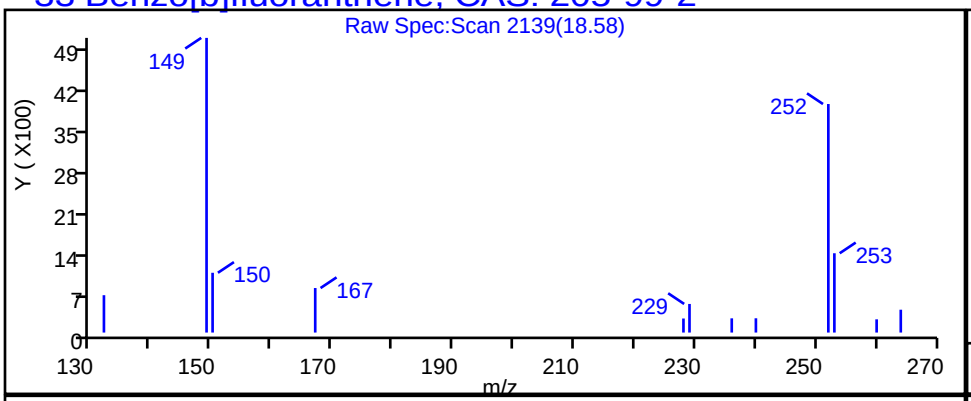


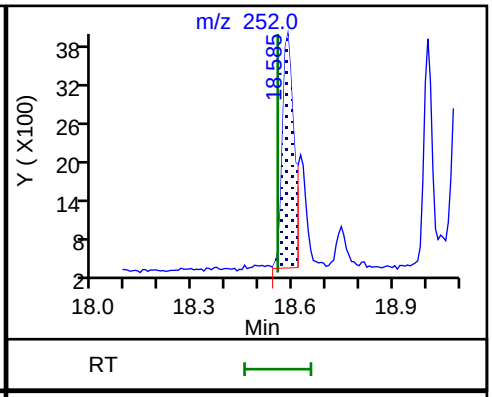


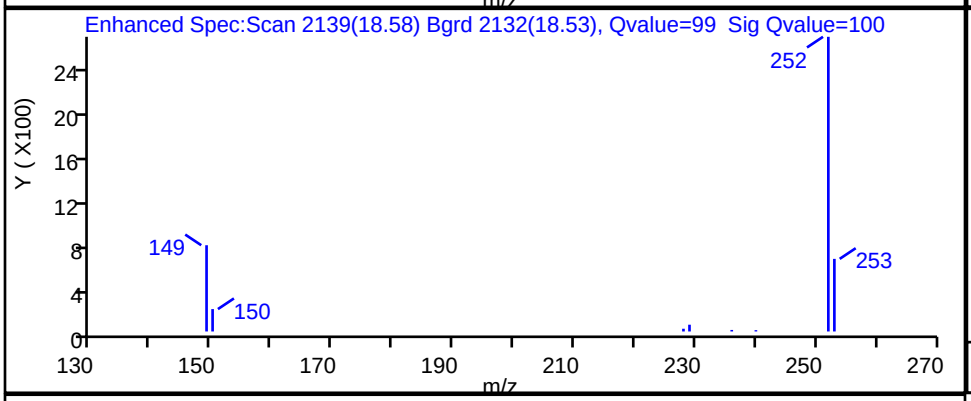
Eurofins Lancaster Laboratories Env, LLC

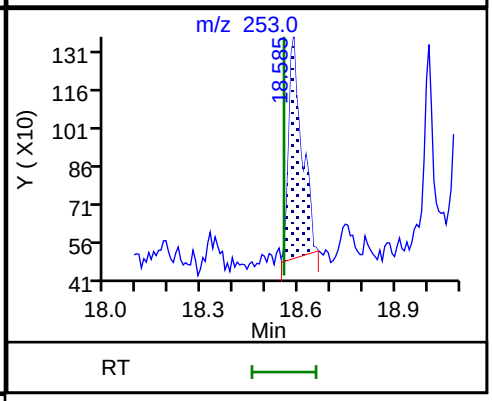
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Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

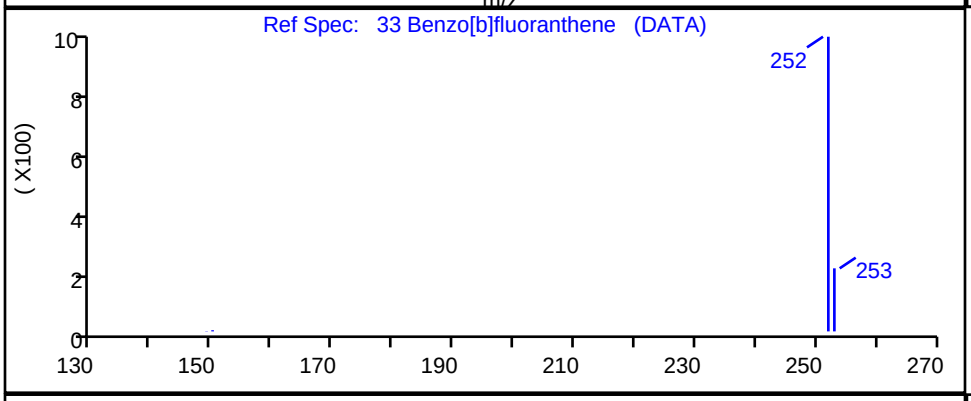
33 Benzo[b]fluoranthene, CAS: 205-99-2

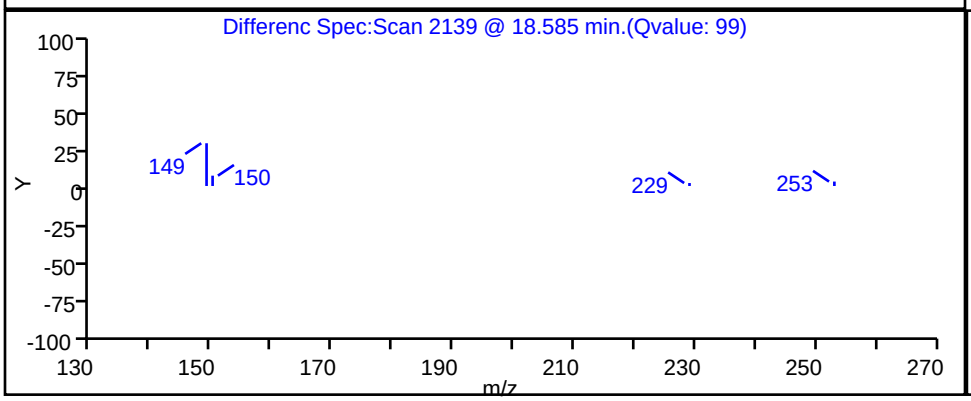


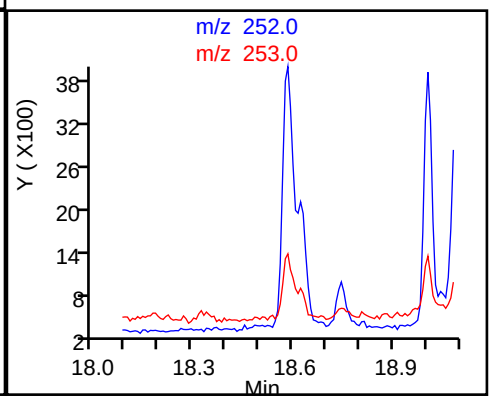












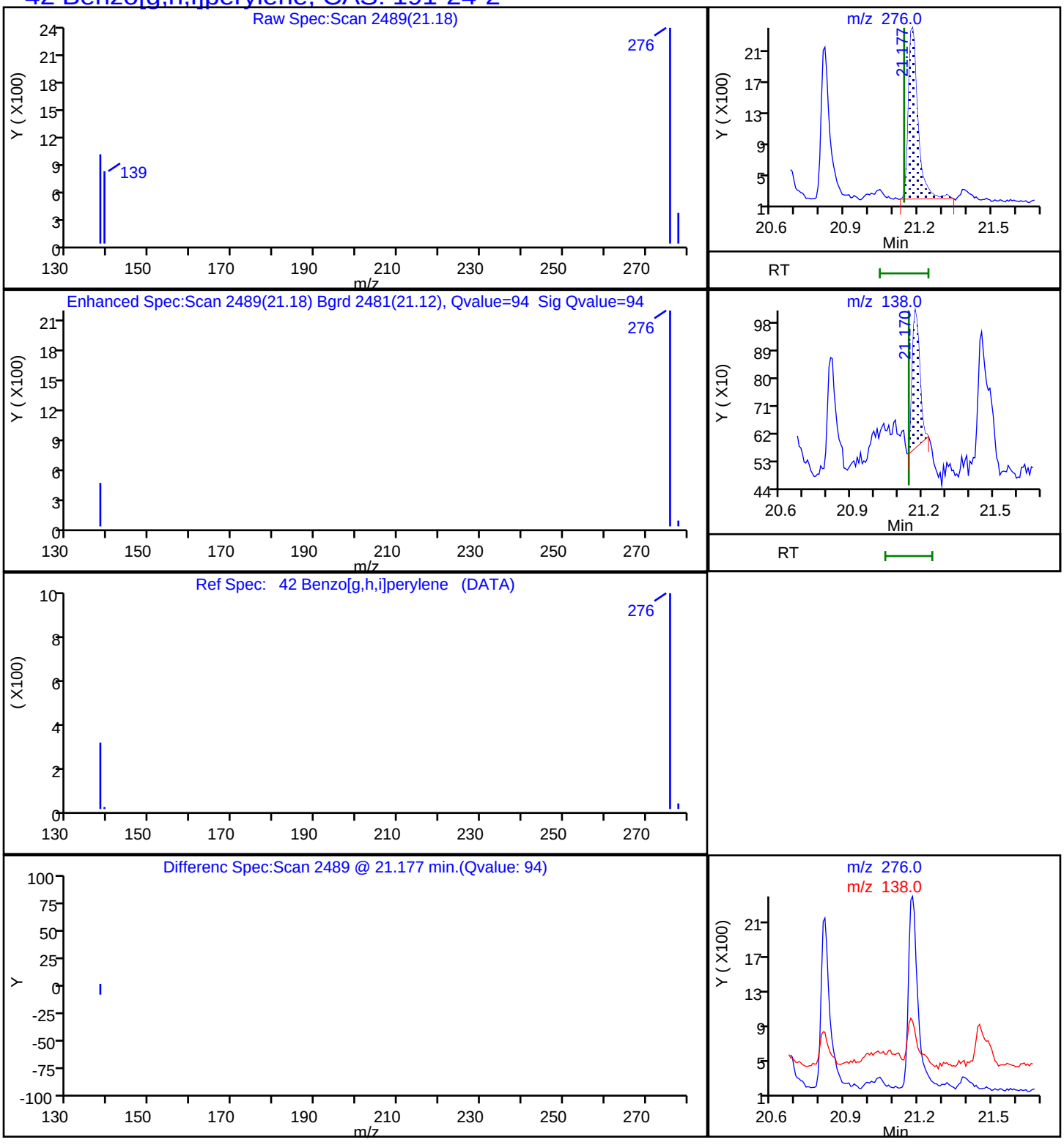
Report Date: 28-Dec-2021 06:59:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D

Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
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



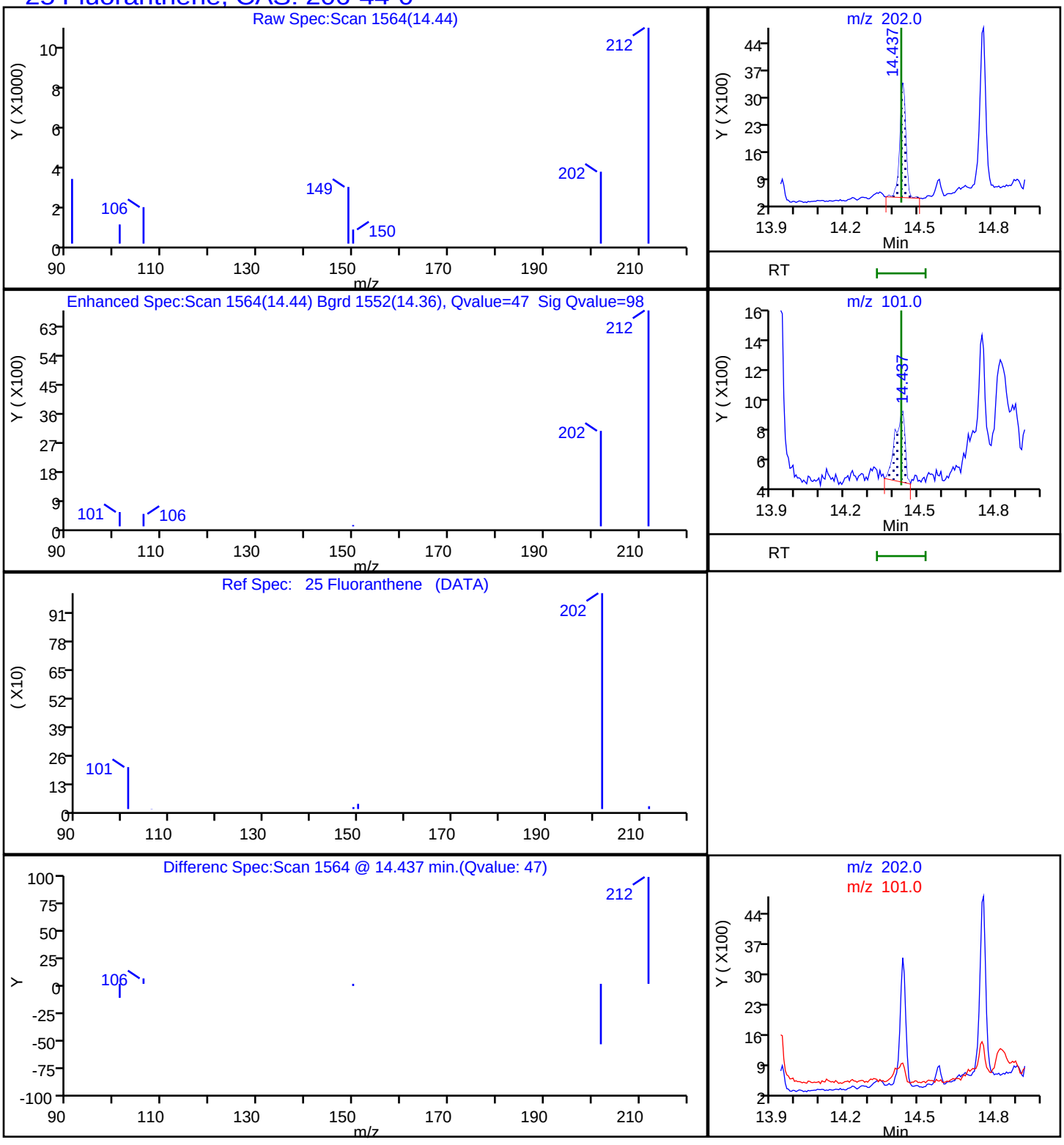
Report Date: 28-Dec-2021 06:59:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D

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Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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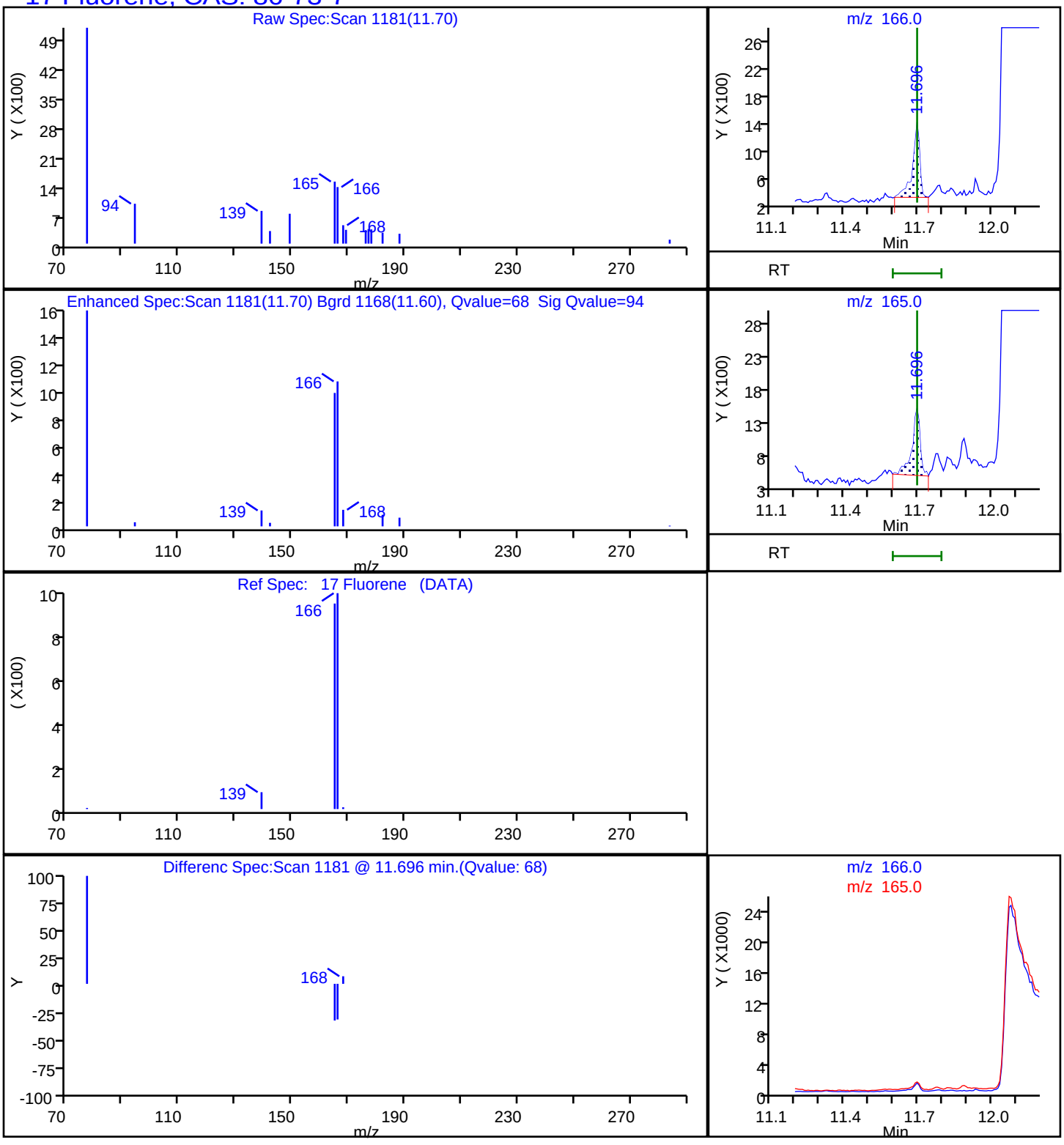
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D				
Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
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		

17 Fluorene, CAS: 86-73-7



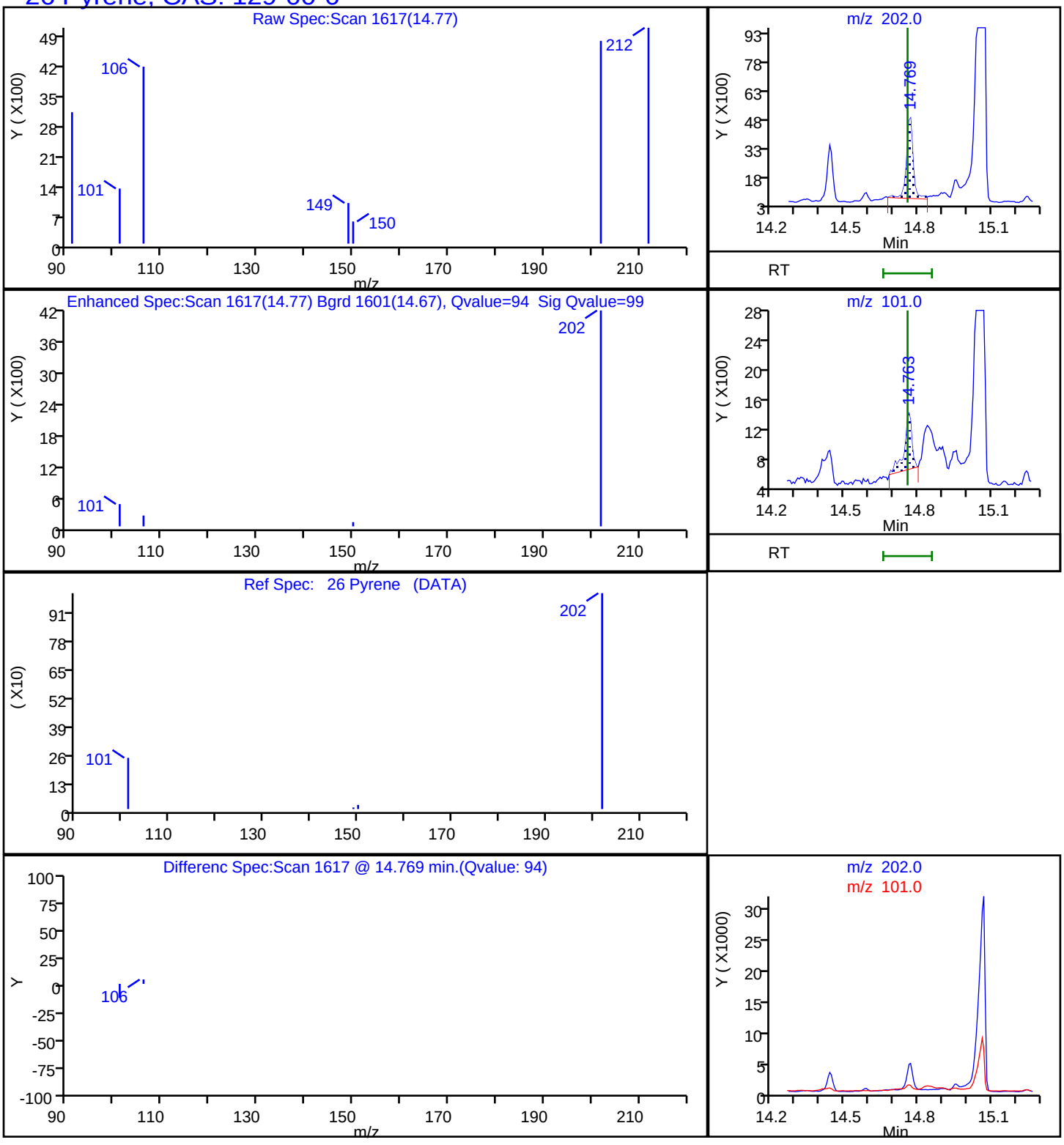
Report Date: 28-Dec-2021 06:59:09 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D

Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
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		

26 Pyrene, CAS: 129-00-0



Eurofins Lancaster Laboratories Env, LLC

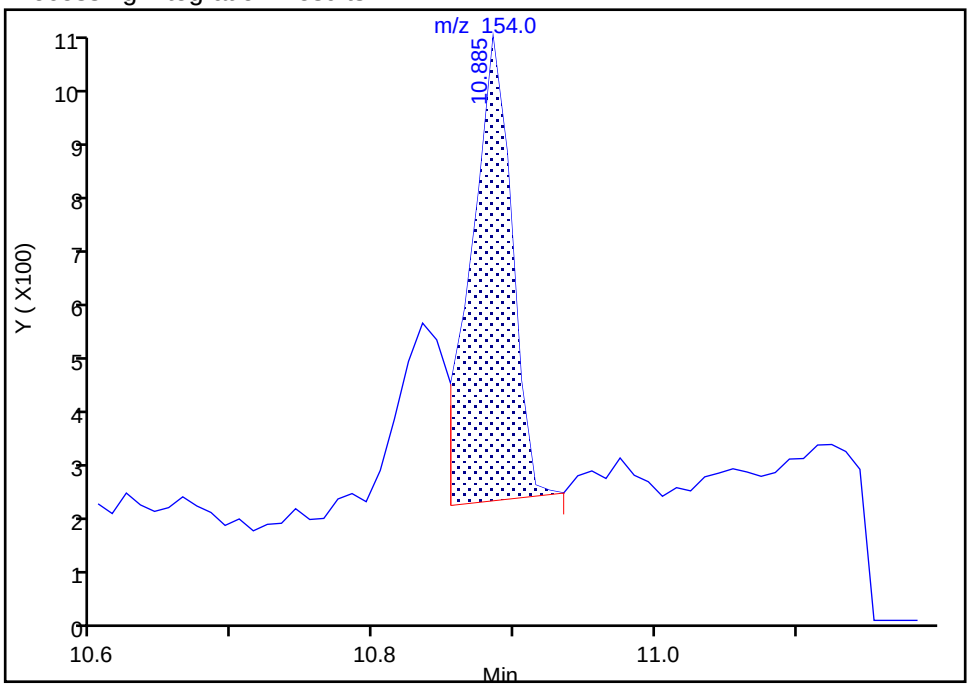
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Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2
Client ID:	MW-10S-20211220		
Operator ID:	whs02991	ALS Bottle#:	10 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

14 Acenaphthene, CAS: 83-32-9

Signal: 1

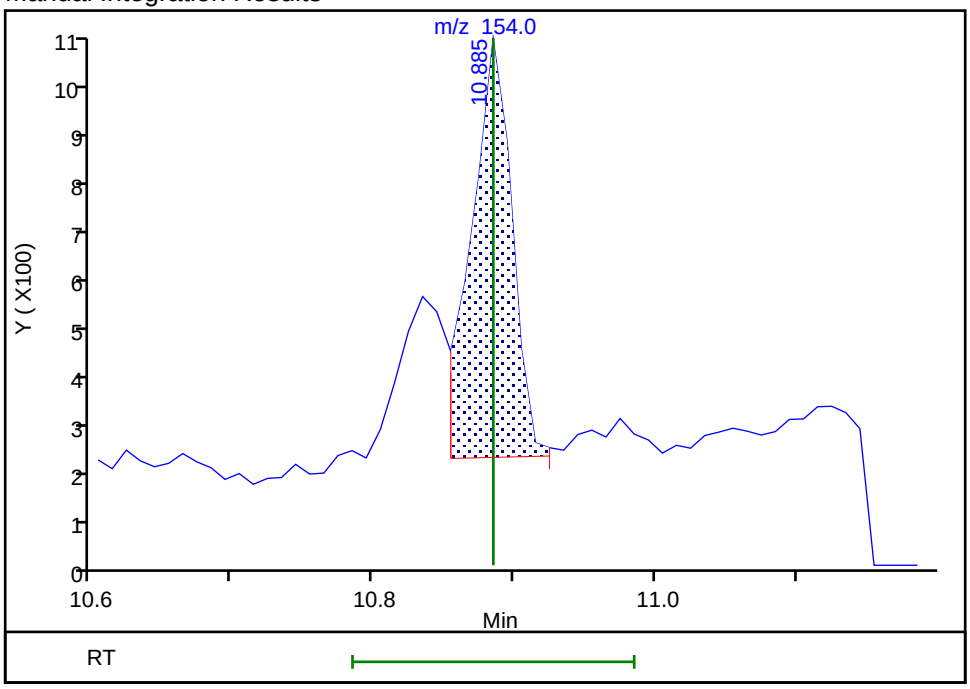
Processing Integration Results

RT: 10.88
Area: 1684
Amount: 0.002225
Amount Units: ug/ml



Manual Integration Results

RT: 10.88
Area: 1688
Amount: 0.002230
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:14:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

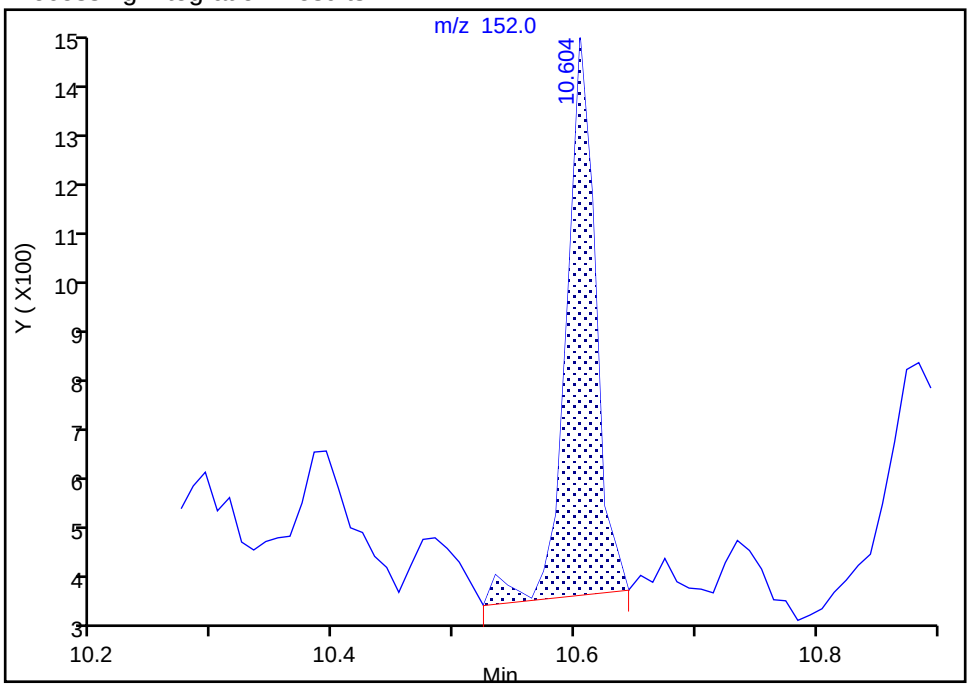
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Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

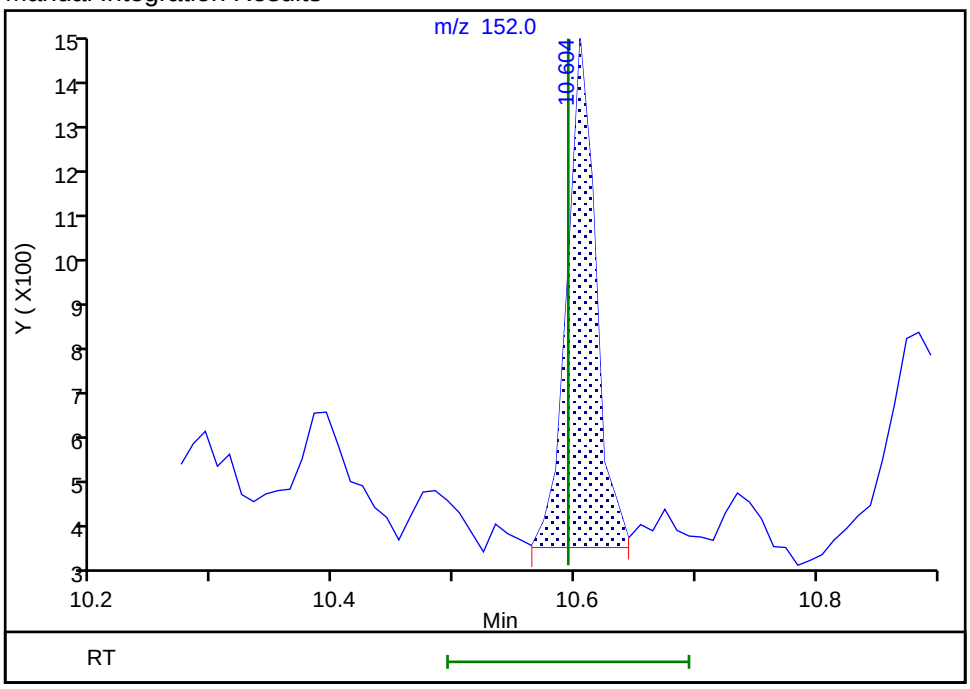
Processing Integration Results

RT: 10.60
Area: 1772
Amount: 0.001459
Amount Units: ug/ml



Manual Integration Results

RT: 10.60
Area: 1756
Amount: 0.001446
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:14:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

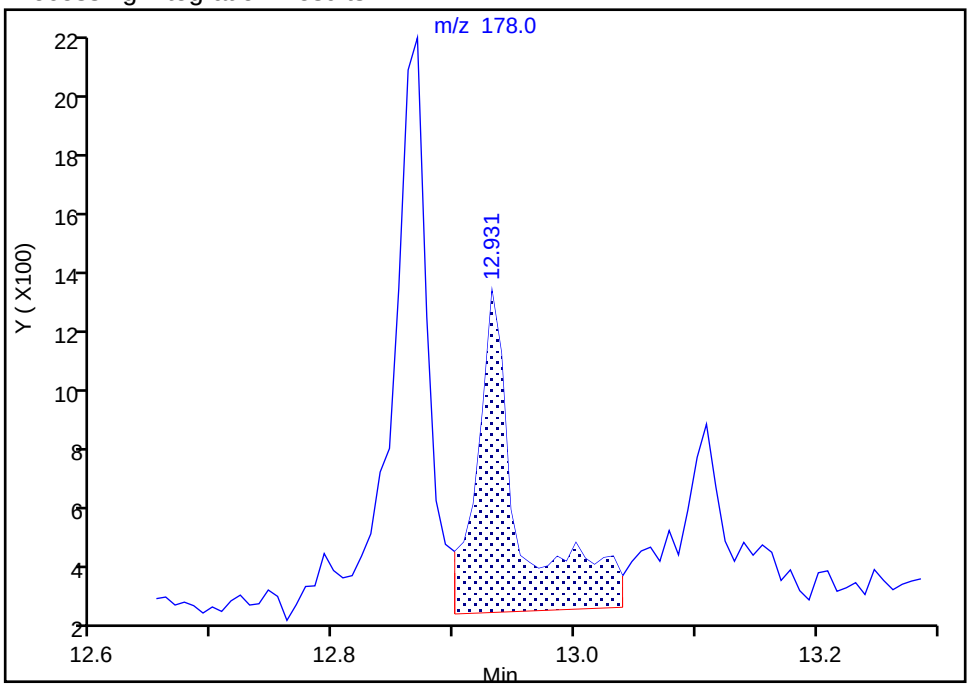
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Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

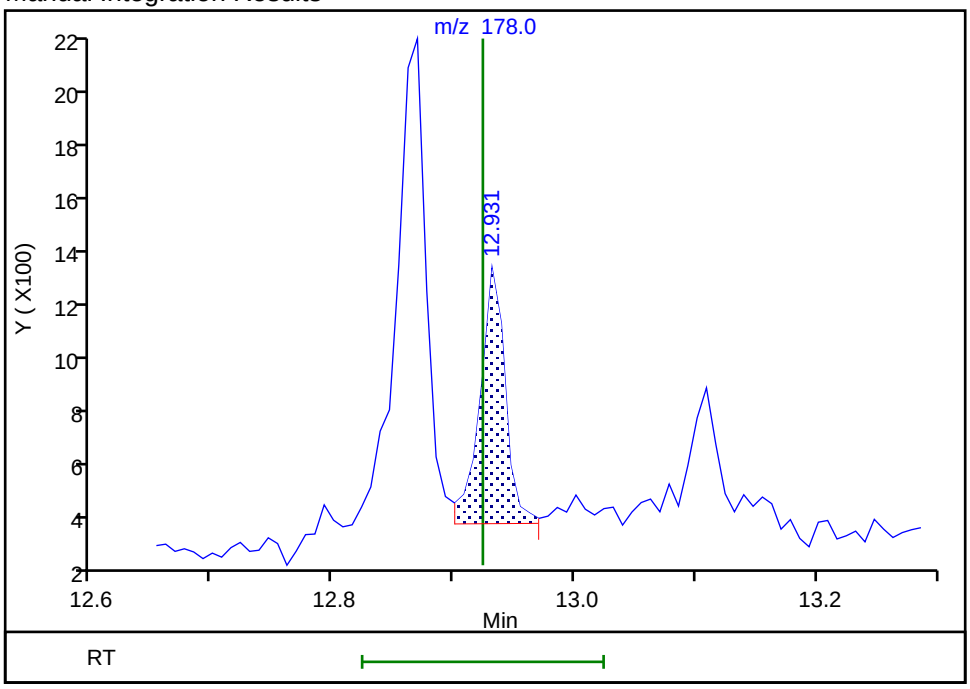
Processing Integration Results

RT: 12.93
Area: 2415
Amount: 0.002156
Amount Units: ug/ml



Manual Integration Results

RT: 12.93
Area: 1275
Amount: 0.001138
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:14:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

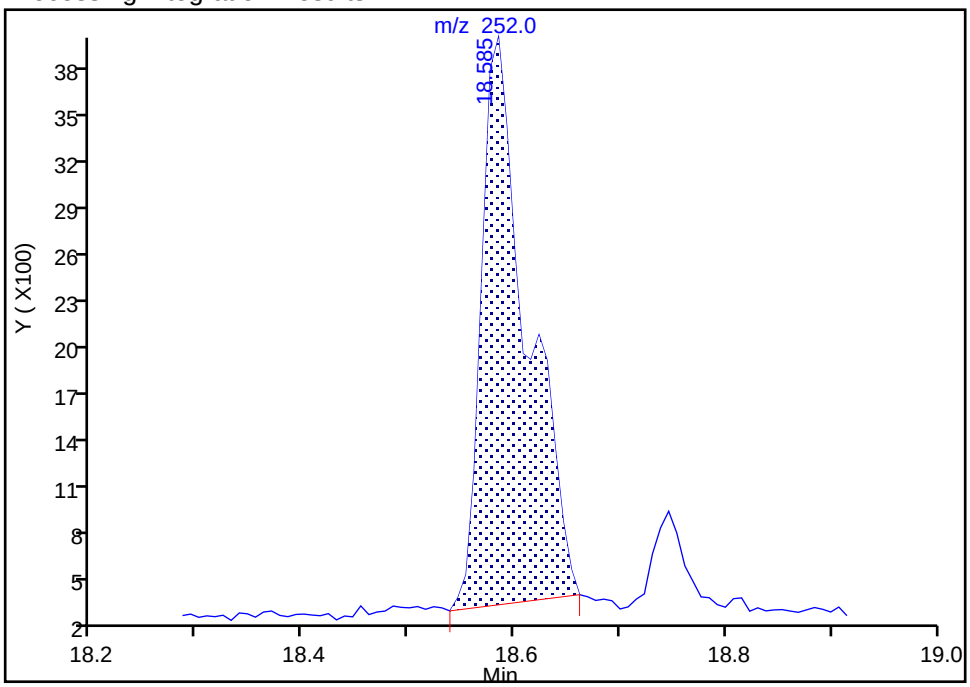
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D				
Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	whs02991	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 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		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

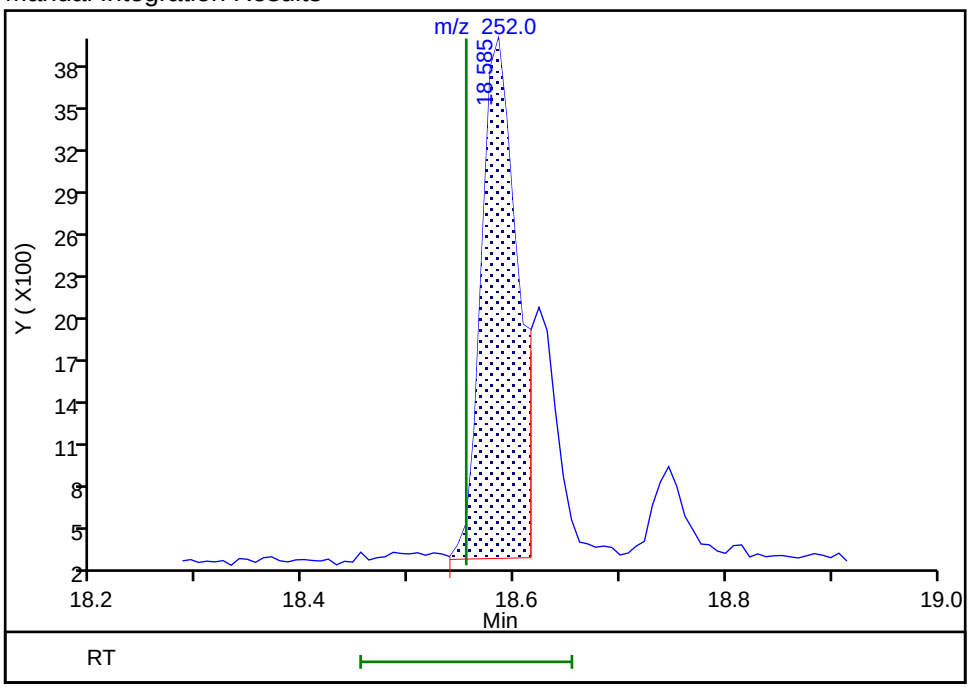
Processing Integration Results

RT: 18.58
Area: 10596
Amount: 0.008039
Amount Units: ug/ml



Manual Integration Results

RT: 18.58
Area: 8299
Amount: 0.006296
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:14:43

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

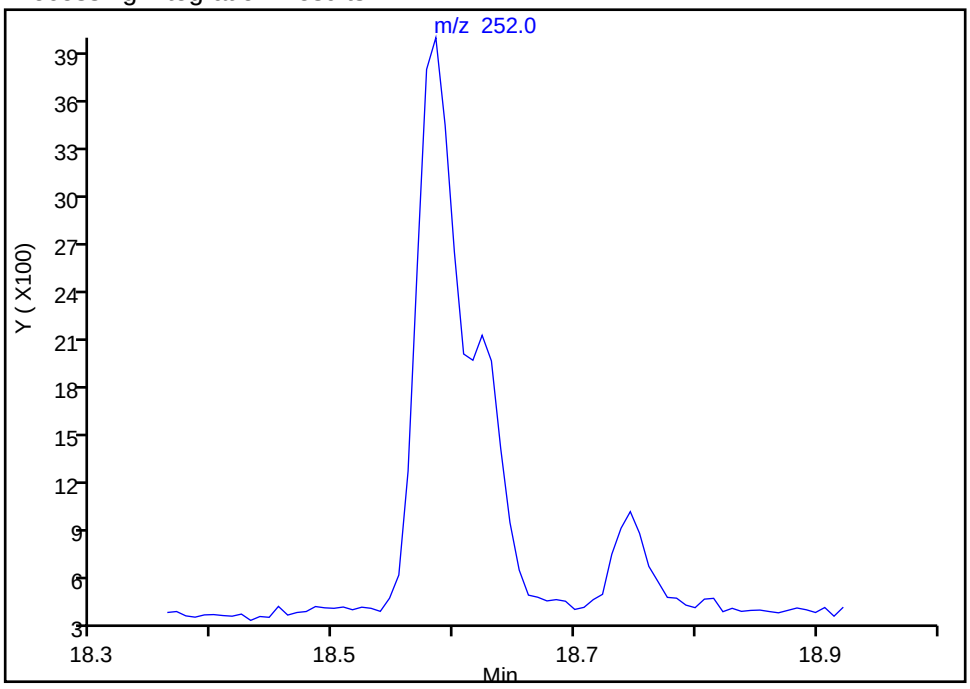
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1209.D		
Injection Date:	27-Dec-2021 18:22:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-2-A	Lab Sample ID:	410-68043-2
Client ID:	MW-10S-20211220		
Operator ID:	whs02991	ALS Bottle#:	10 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. 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

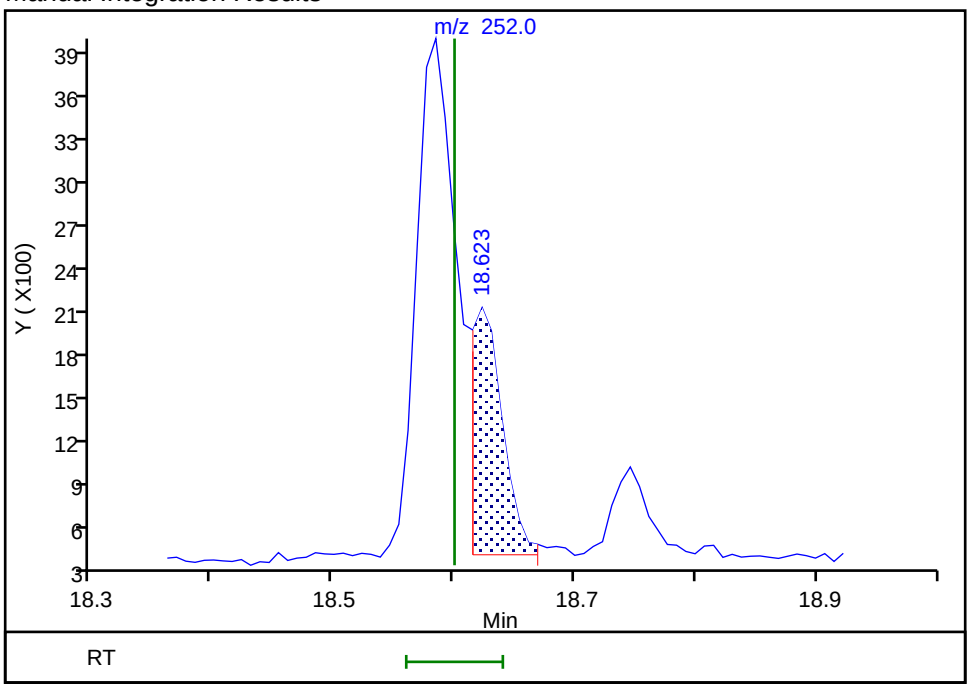
Not Detected
Expected RT: 18.60

Processing Integration Results



Manual Integration Results

RT: 18.62
Area: 2720
Amount: 0.001811
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:14:53
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-10S-20211220 RE Lab Sample ID: 410-68043-2 RE

Matrix: Ground Water Lab File ID: ML1804.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 14:47

Extract. Method: 3510C Date Extracted: 12/30/2021 09:26

Sample wt/vol: 244(mL) Date Analyzed: 12/31/2021 15:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210855 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*ND*	*H*	*0.051*	*0.010*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.051*	*0.010*
120-12-7	*Anthracene*	*ND*	*H*	*0.051*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.016*	*J H*	*0.051*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.023*	*J H*	*0.051*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.025*	*J H*	*0.051*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.020*	*J H*	*0.051*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.051*	*0.010*
218-01-9	*Chrysene*	*0.019*	*J H*	*0.051*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.051*	*0.020*
206-44-0	*Fluoranthene*	*0.020*	*J H*	*0.051*	*0.010*
86-73-7	*Fluorene*	*ND*	*H*	*0.051*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.020*	*J H*	*0.051*	*0.020*
91-20-3	*Naphthalene*	*ND*	*H*	*0.072*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.072*	*0.031*
129-00-0	*Pyrene*	*0.034*	*J H*	*0.051*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	80		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	84		36-111
93951-69-0	Fluoranthene-d10 (Surr)	93		47-128

Eurofins Lancaster Laboratories Environment Testing LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D
Lims ID: 410-68043-B-2-A
Client ID: MW-10S-20211220
Sample Type: Client
Inject. Date: 31-Dec-2021 15:43:38 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-B-2-A
Misc. Info.: 410-0047541-005
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jan-2022 12:12:17 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: transuea Date: 04-Jan-2022 13:02:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	90	40906	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	94	126580	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.154	10.166	-0.012	99	61868	0.2105	
* 13 Acenaphthene-d10	164	11.706	11.706	0.000	89	90421	0.2500	
* 20 Phenanthrene-d10	188	13.597	13.597	0.000	95	192723	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.270	15.275	-0.005	96	197129	0.2328	
25 Fluoranthene	202	15.302	15.300	0.002	98	4995	0.004842	
26 Pyrene	202	15.647	15.647	-0.004	97	8921	0.008186	
28 Benzo[a]anthracene	228	17.676	17.668	0.003	100	4203	0.003978	M
* 29 Chrysene-d12	240	17.691	17.696	-0.005	57	211839	0.2500	
30 Chrysene	228	17.737	17.737	-0.005	100	5288	0.004636	M
33 Benzo[b]fluoranthene	252	19.547	19.540	0.003	100	7284	0.006132	M
34 Benzo[k]fluoranthene	252	19.593	19.586	0.003	98	2797	0.002228	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.038	20.038	-0.005	97	179392	0.2001	M
37 Benzo[a]pyrene	252	20.076	20.076	-0.005	100	6278	0.005539	
* 38 Perylene-d12	264	20.168	20.173	-0.005	97	247689	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.857	21.842	0.010	98	5738	0.004759	
42 Benzo[g,h,i]perylene	276	22.302	22.294	0.003	93	7025	0.004888	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

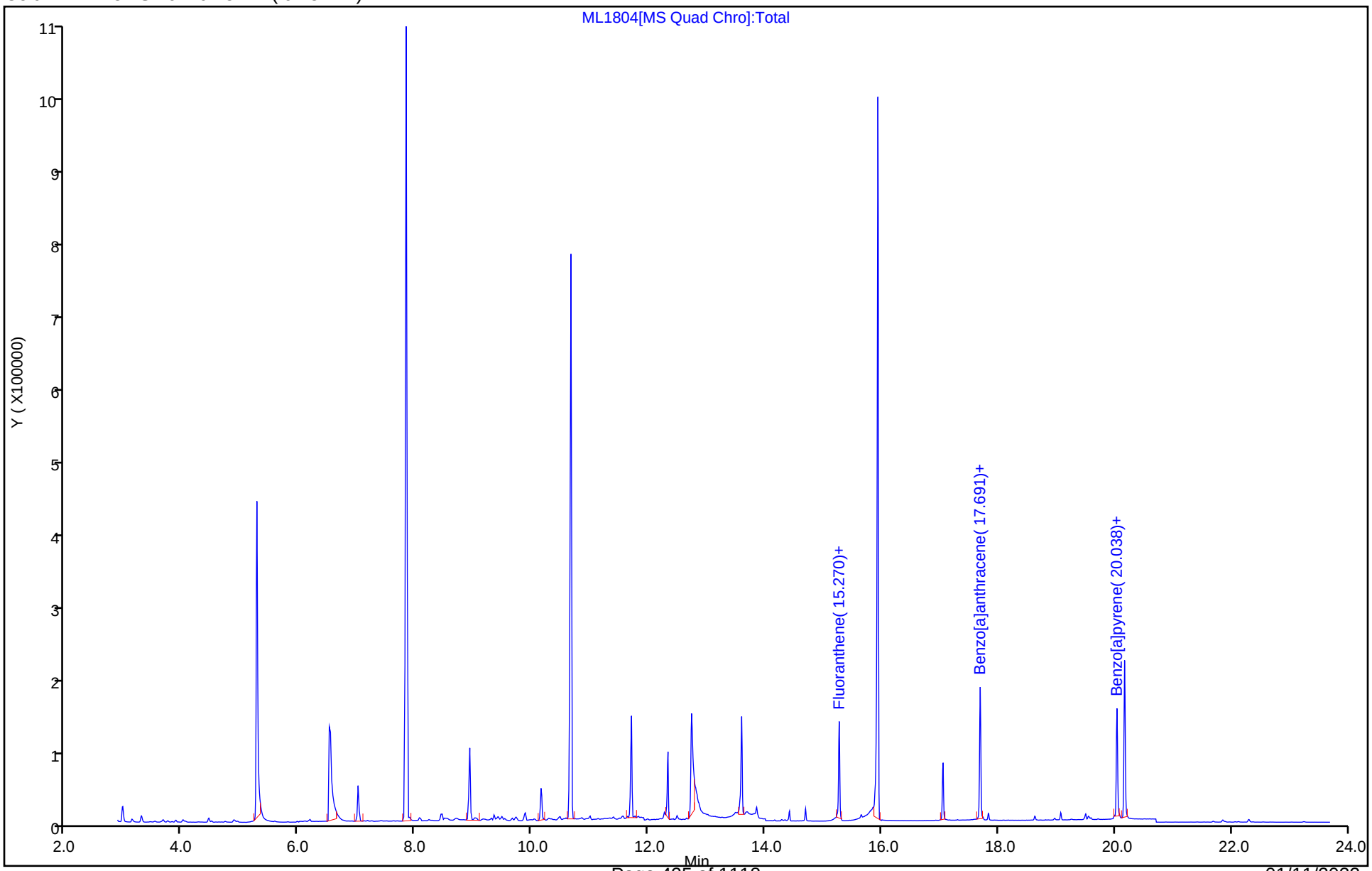
MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 05-Jan-2022 12:12:17 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Environment Testing LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D				
Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2	Worklist Smp#:	5
Client ID:	MW-10S-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

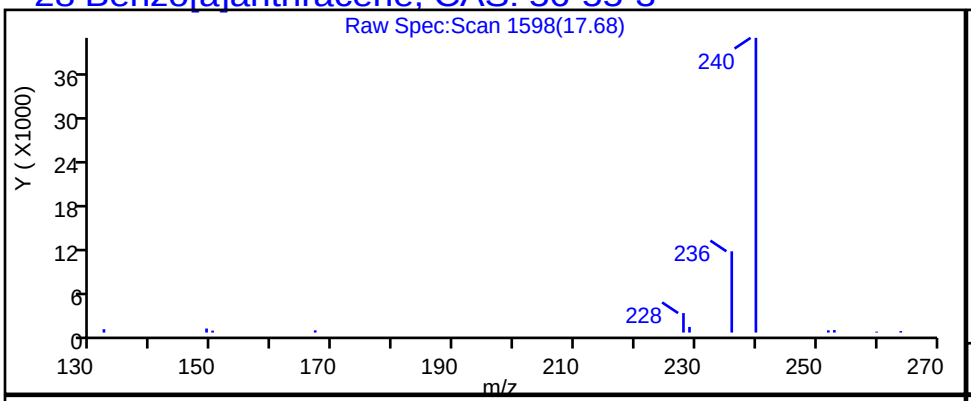
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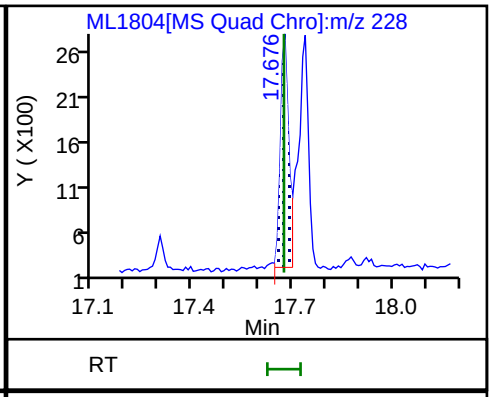


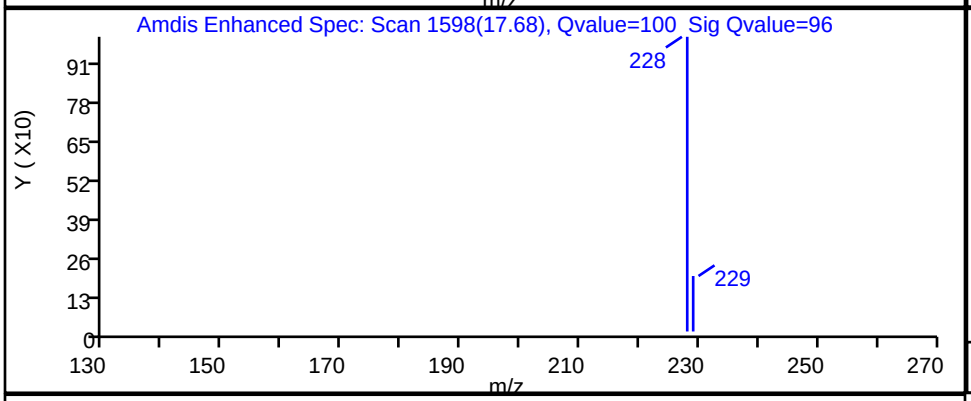
Eurofins Lancaster Laboratories Environment Testing LLC

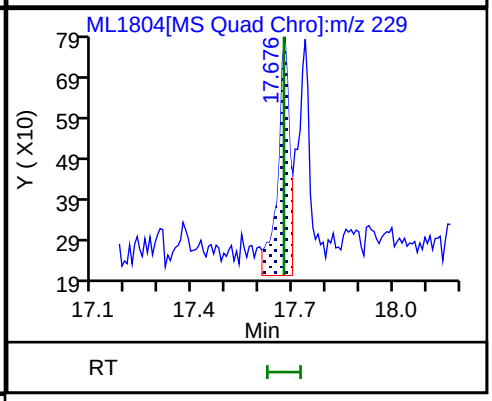
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Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2
Client ID:	MW-10S-20211220		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

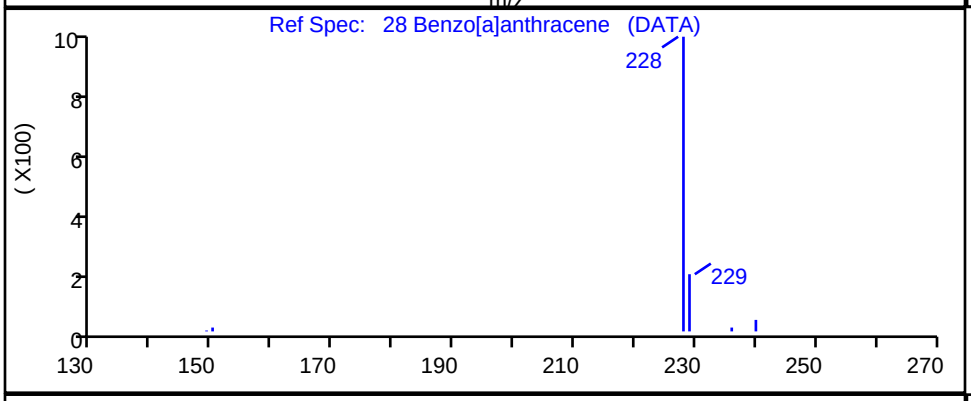
28 Benzo[a]anthracene, CAS: 56-55-3

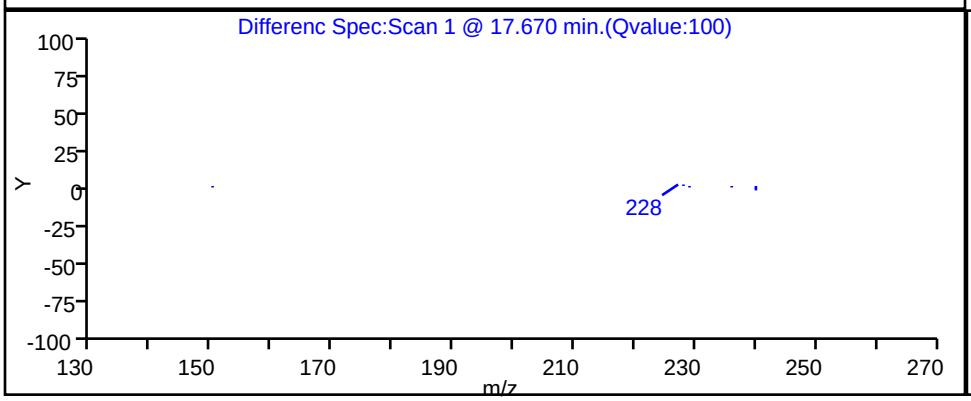


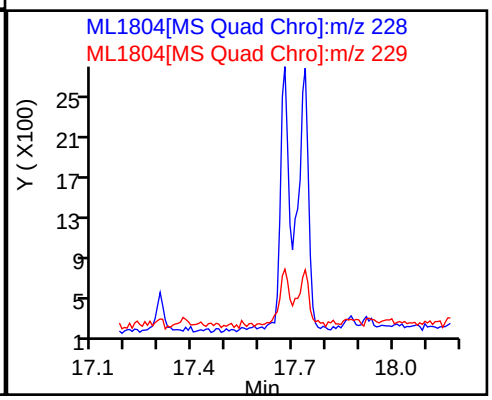








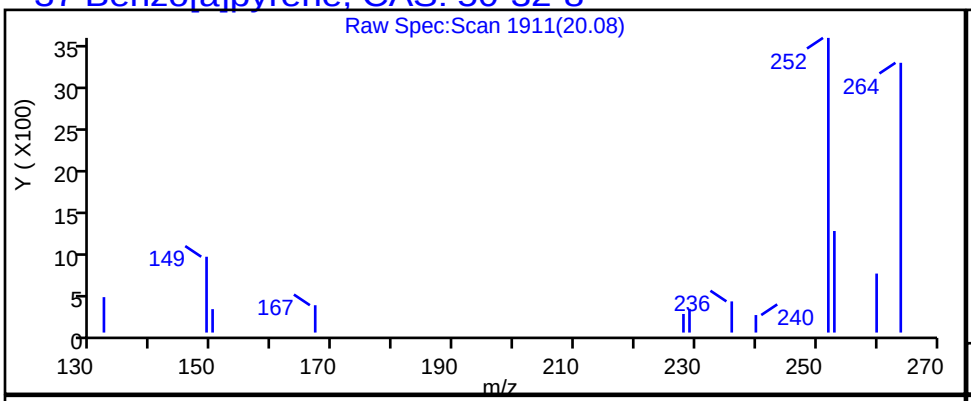


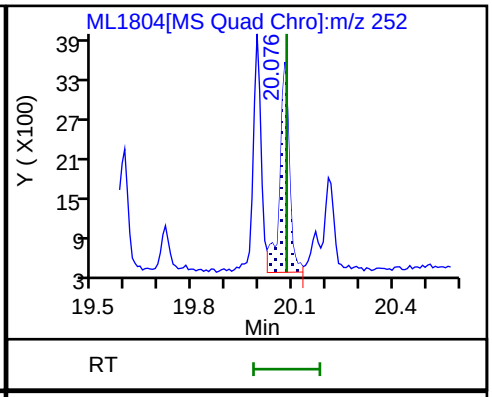


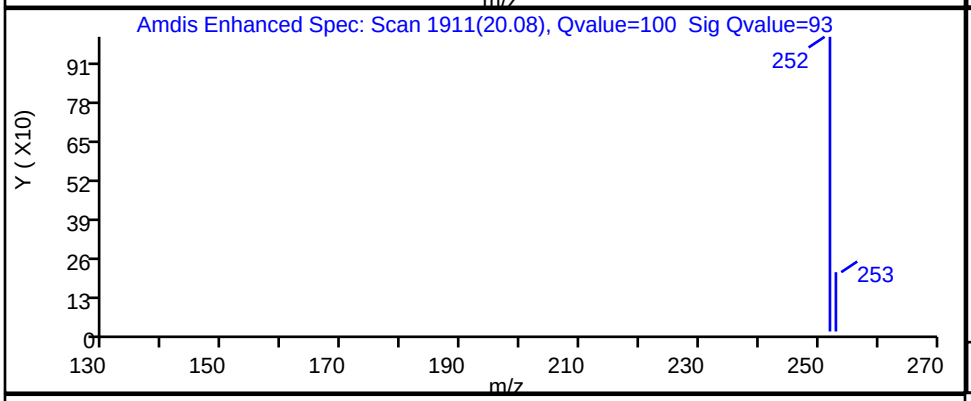
Eurofins Lancaster Laboratories Environment Testing LLC

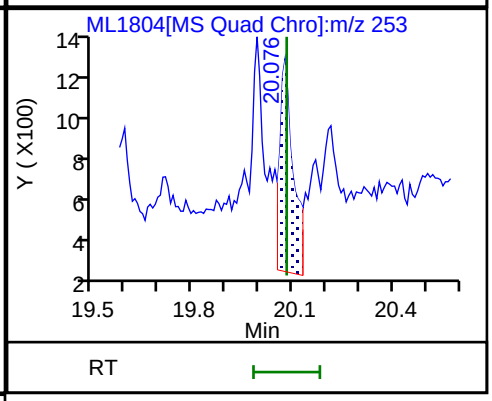
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D				
Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	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		

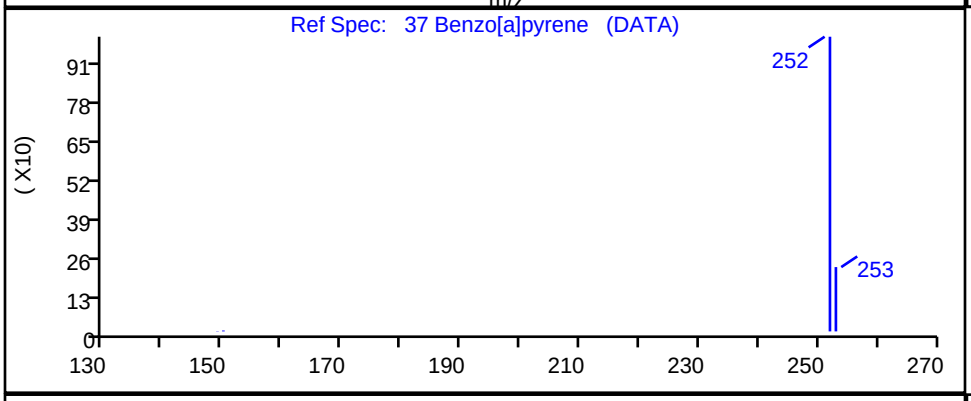
37 Benzo[a]pyrene, CAS: 50-32-8

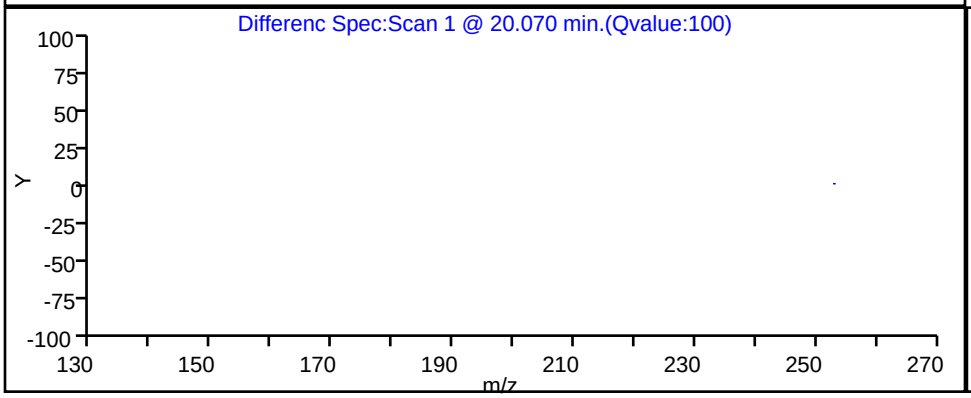


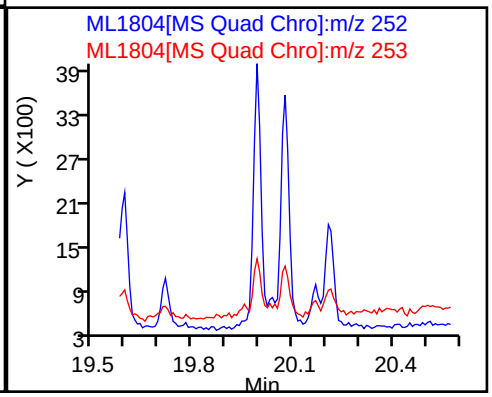










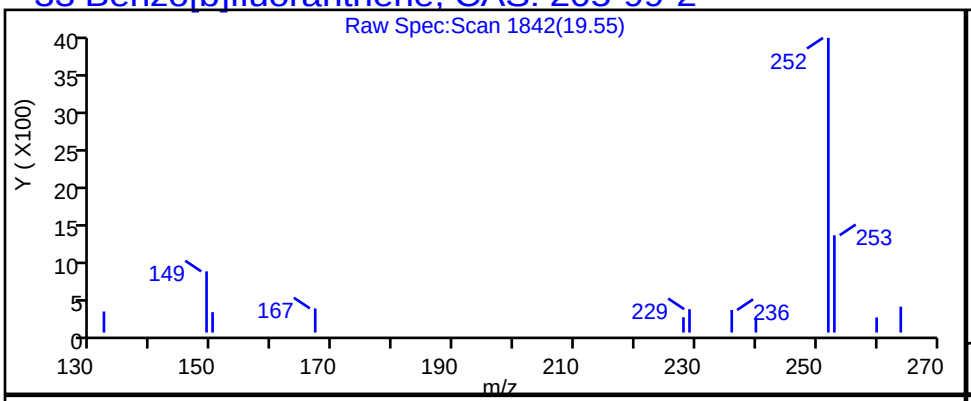


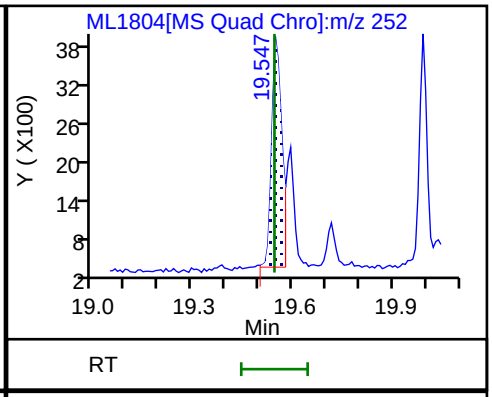
Report Date: 05-Jan-2022 12:12:17 Chrom Revision: 2.3 03-Jan-2022 17:03:12

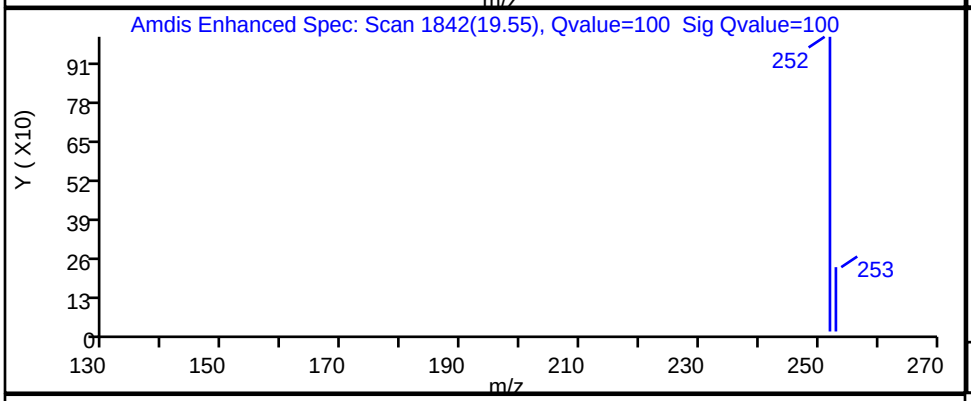
Eurofins Lancaster Laboratories Environment Testing LLC

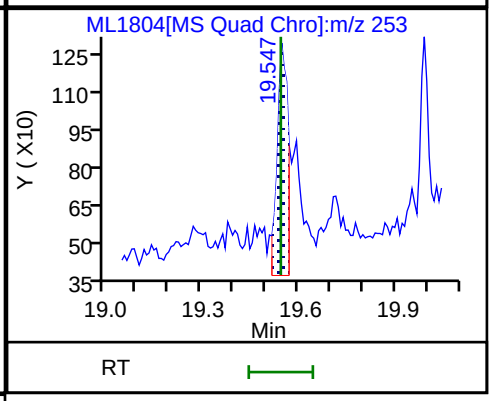
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D				
Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	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		

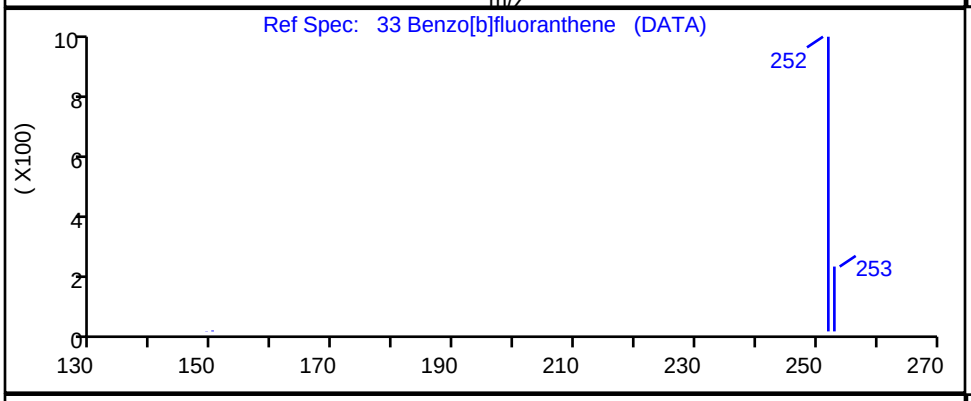
33 Benzo[b]fluoranthene, CAS: 205-99-2

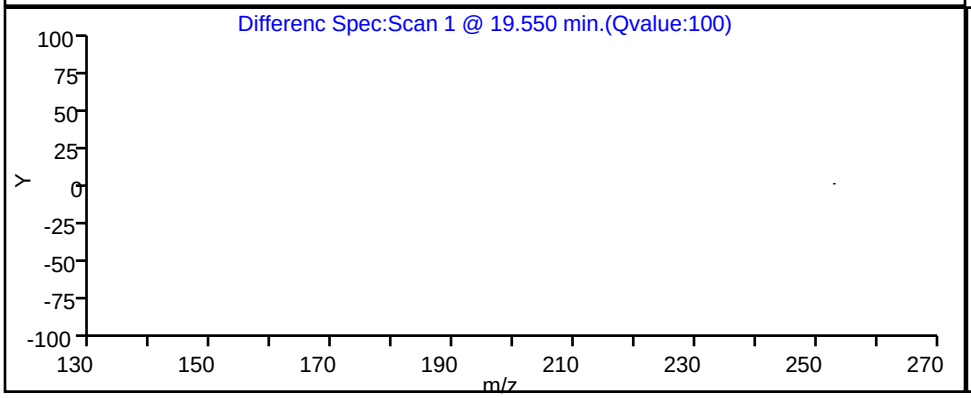


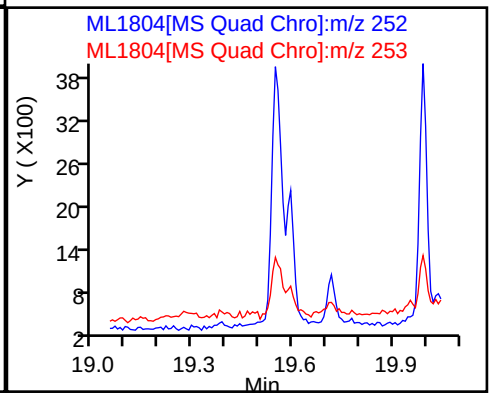












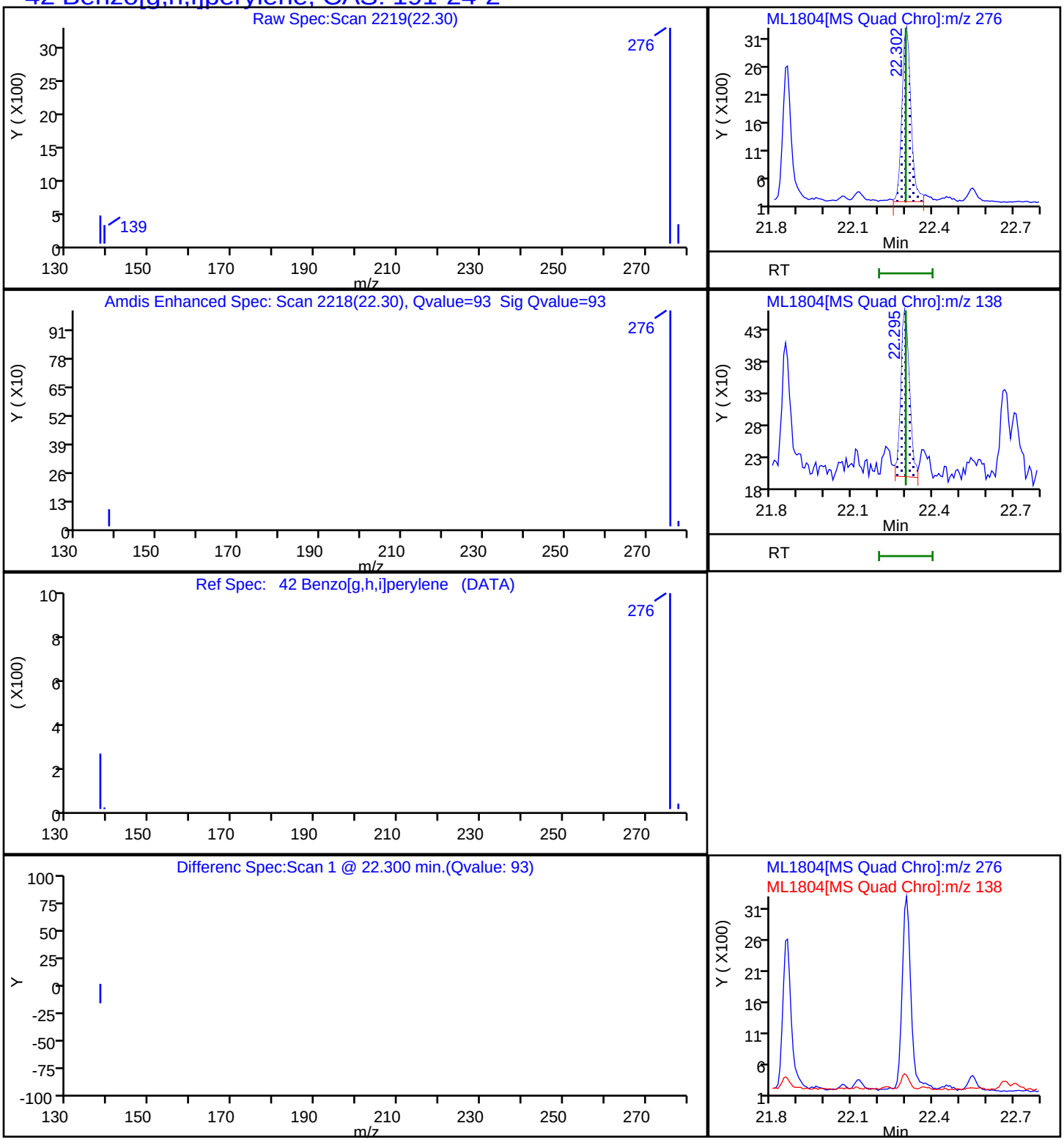
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Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D

Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	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		

42 Benzo[g,h,i]perylene, CAS: 191-24-2



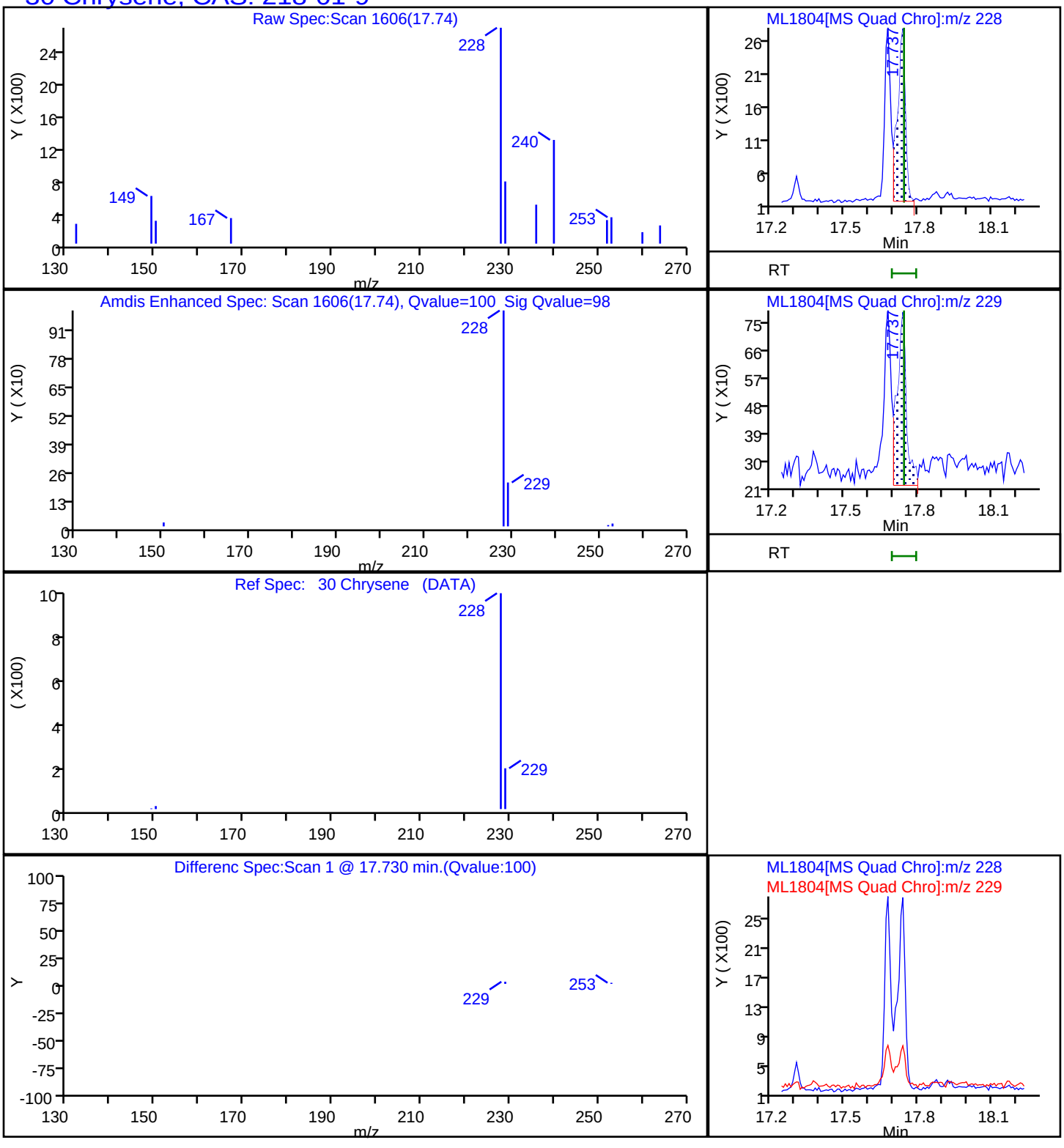
Report Date: 05-Jan-2022 12:12:17 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Environment Testing LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D

Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	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		

30 Chrysene, CAS: 218-01-9



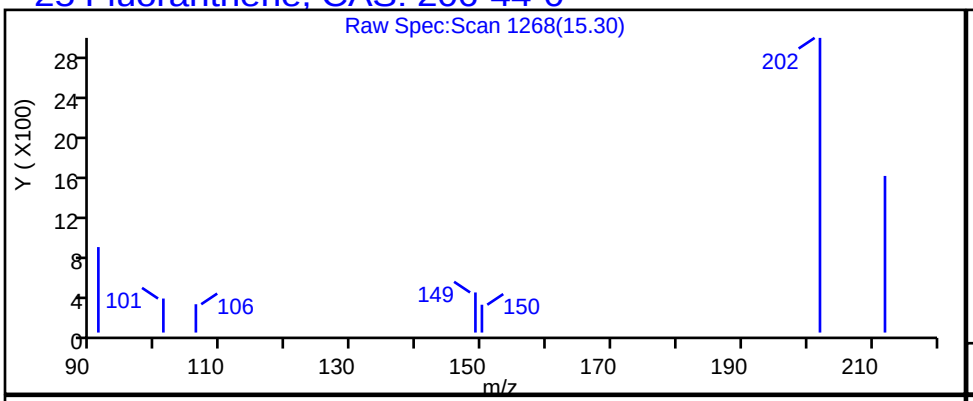
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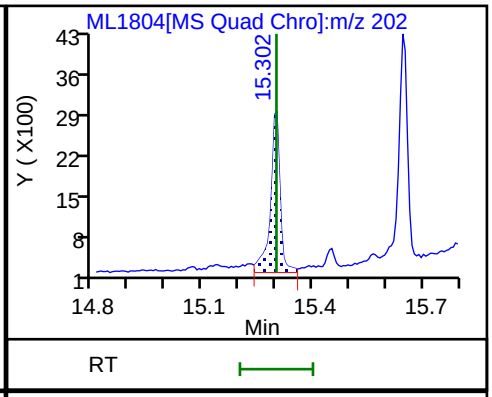
Eurofins Lancaster Laboratories Environment Testing LLC

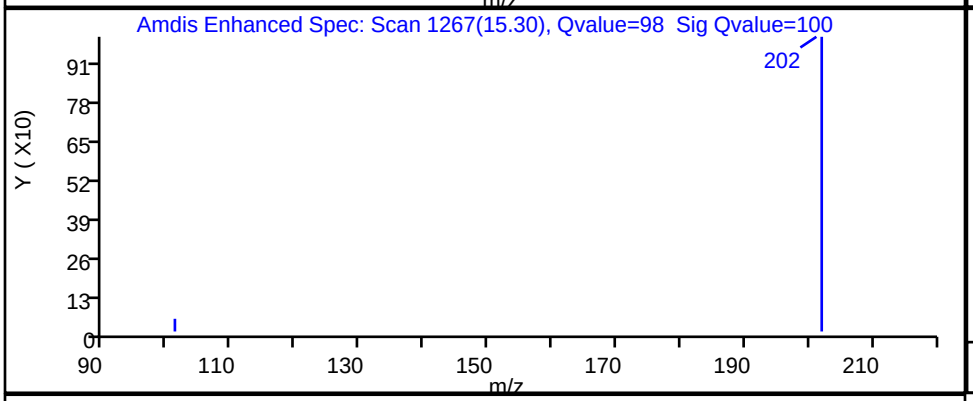
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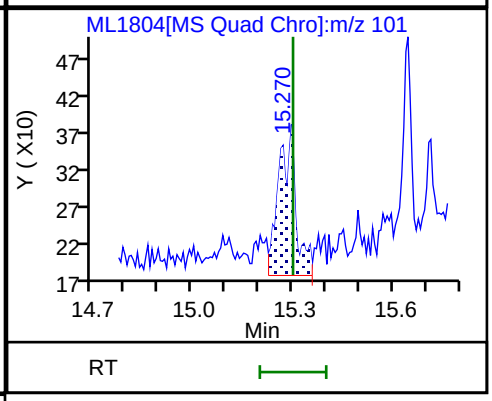
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Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

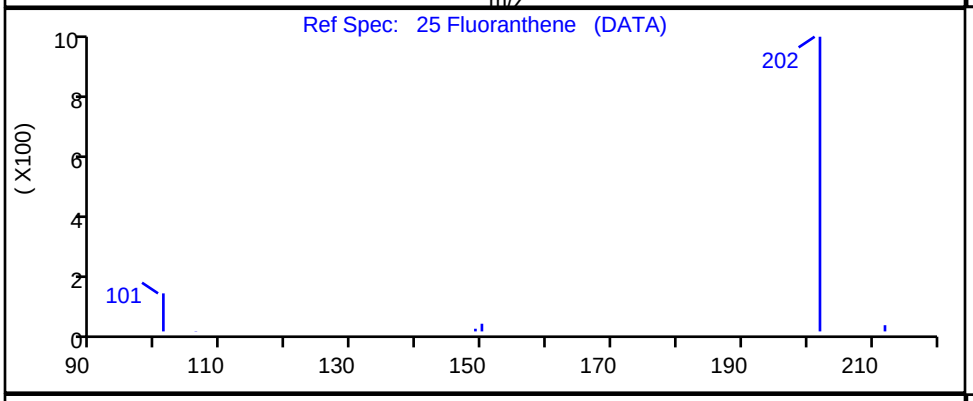
25 Fluoranthene, CAS: 206-44-0

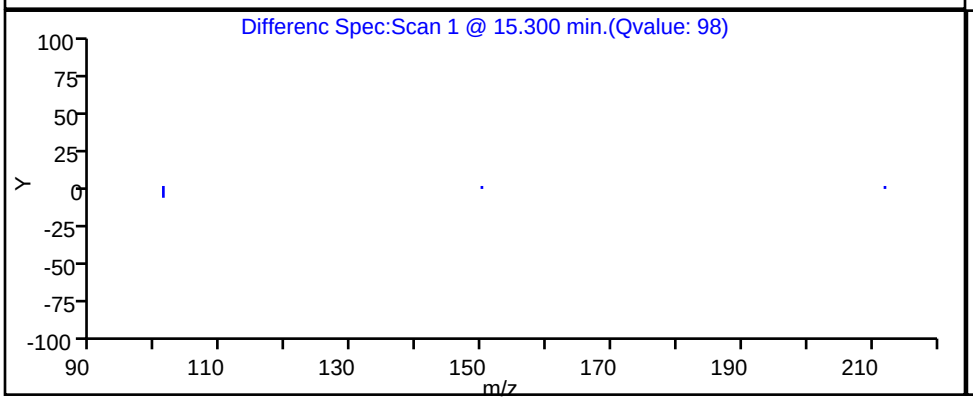


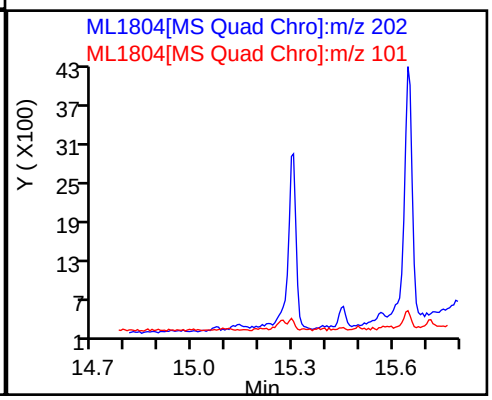












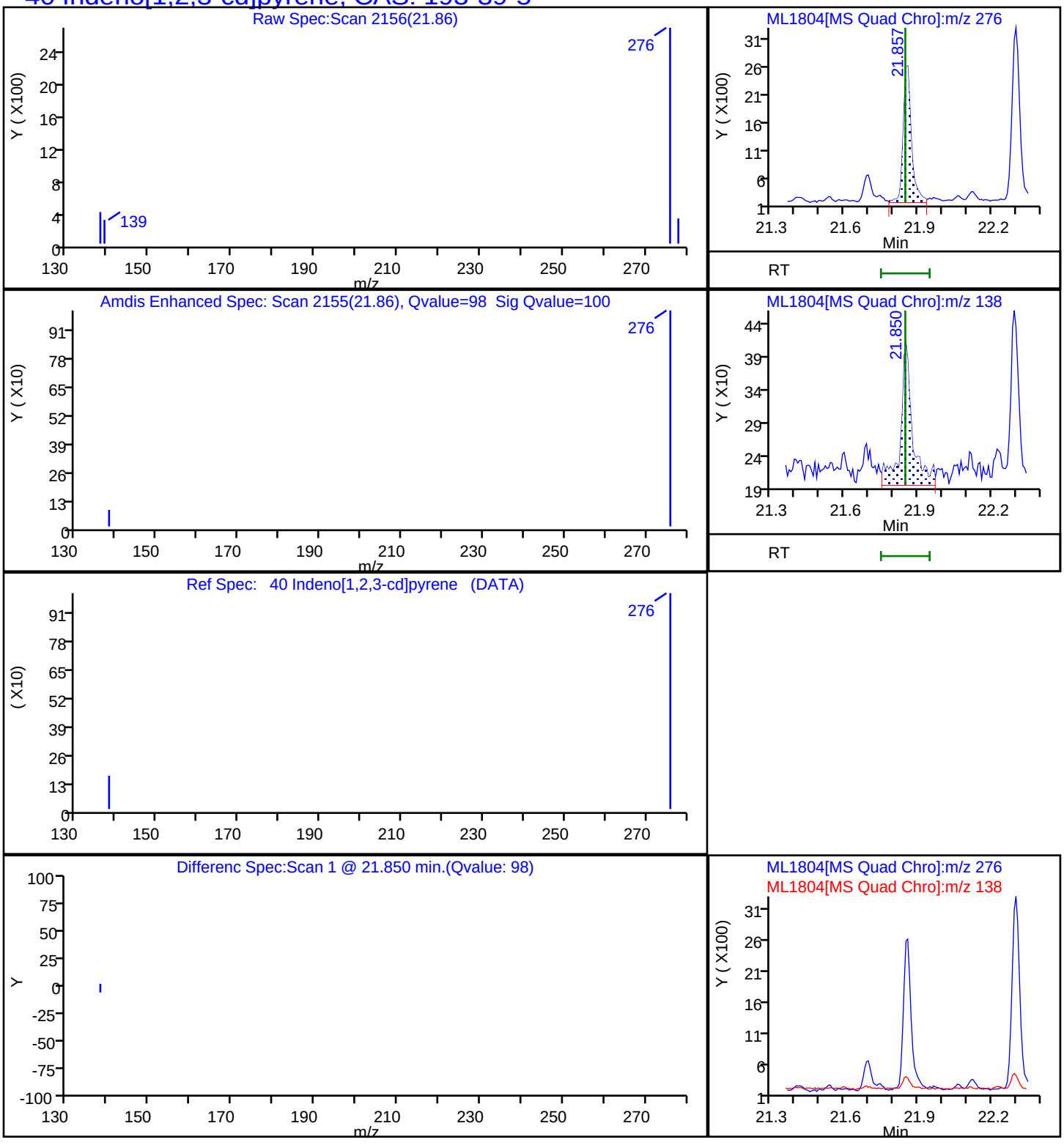
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Eurofins Lancaster Laboratories Environment Testing LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D

Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	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



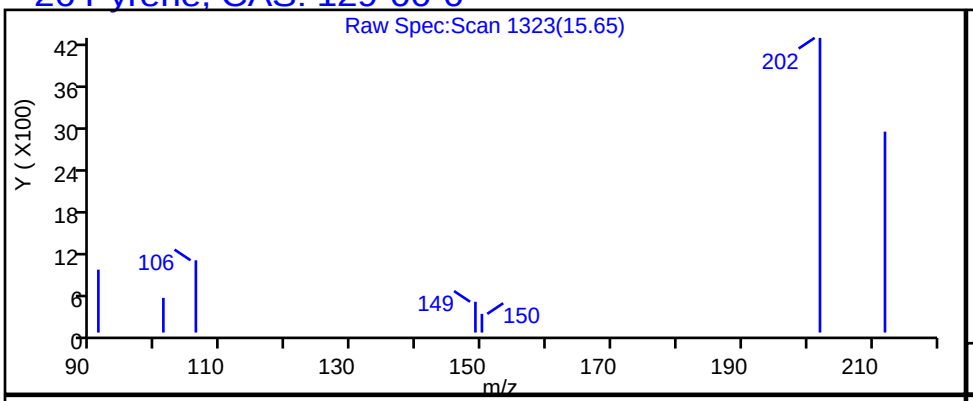
Report Date: 05-Jan-2022 12:12:17 Chrom Revision: 2.3 03-Jan-2022 17:03:12

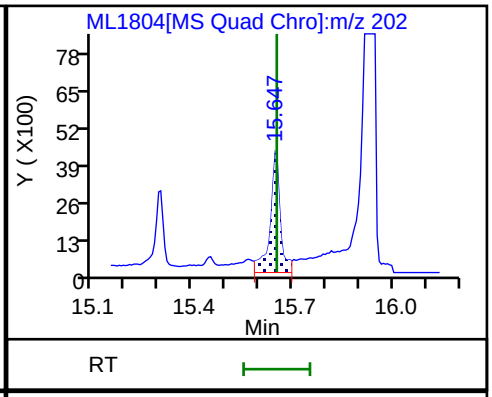
Eurofins Lancaster Laboratories Environment Testing LLC

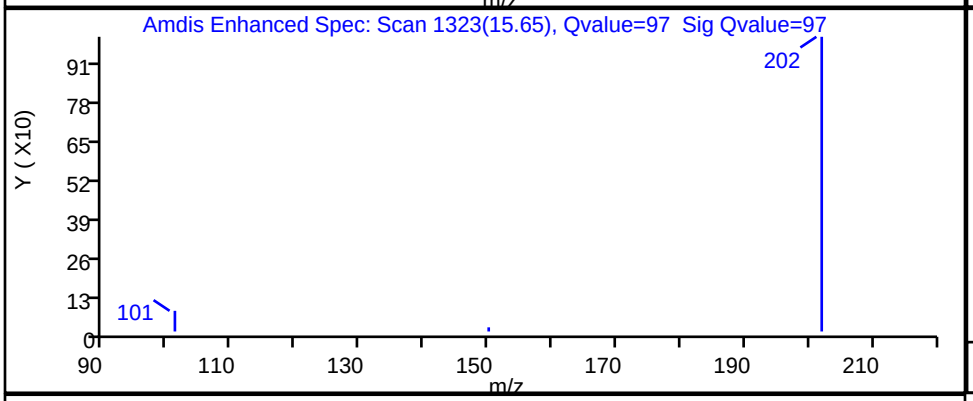
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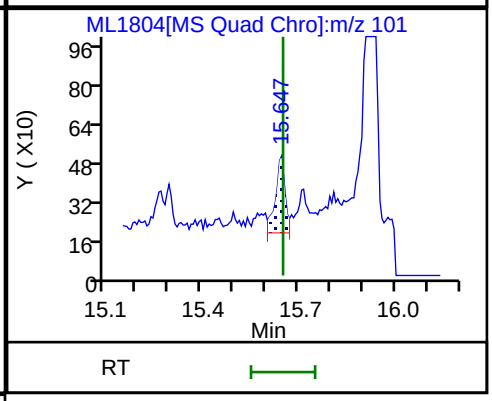
Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2
Client ID:	MW-10S-20211220		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

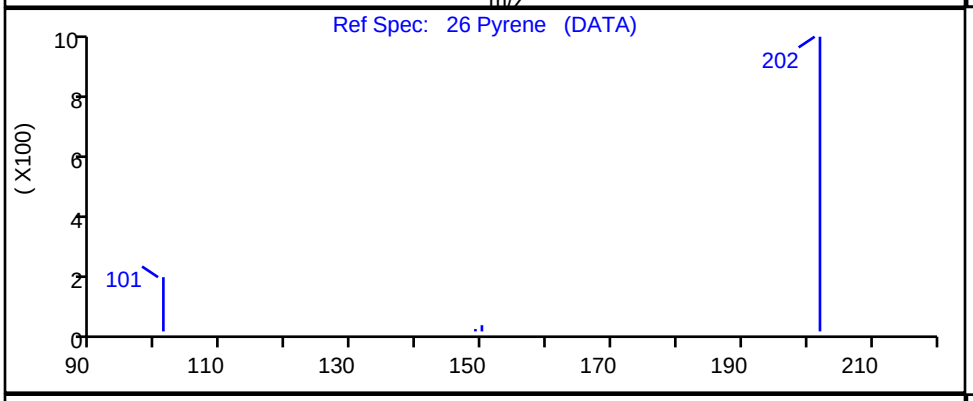
26 Pyrene, CAS: 129-00-0

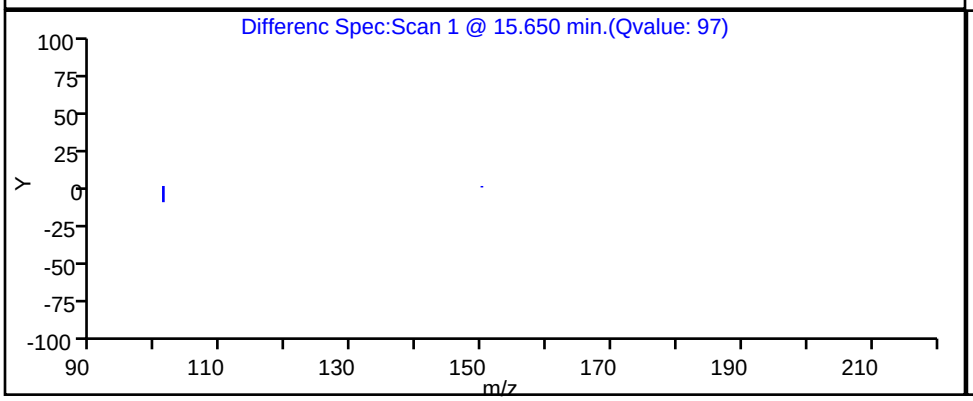


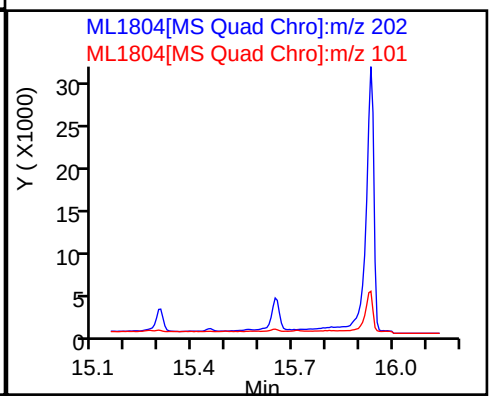












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

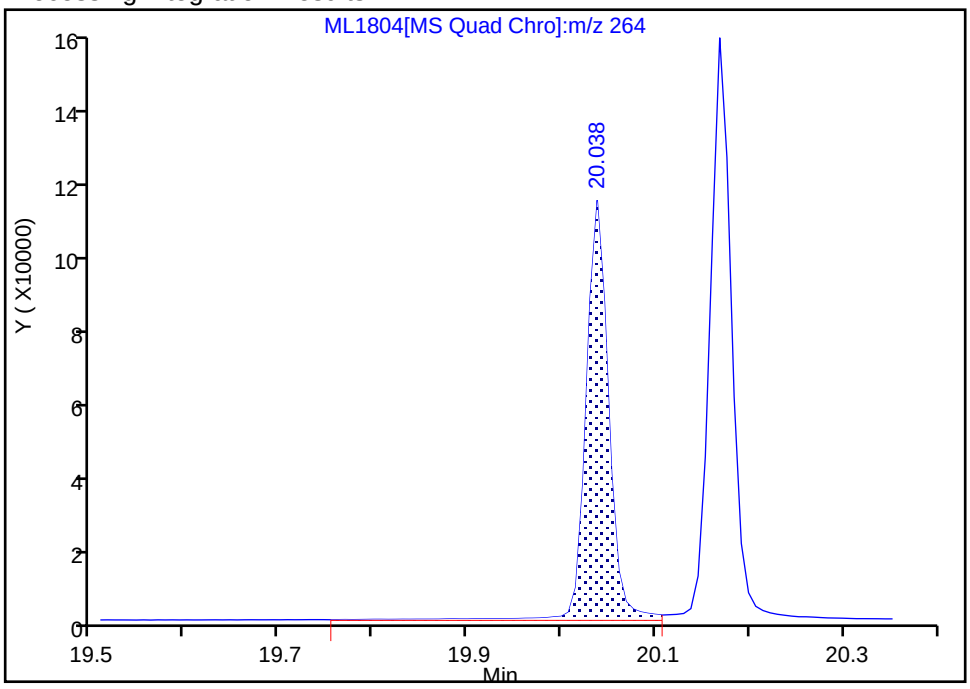
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D				
Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	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		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

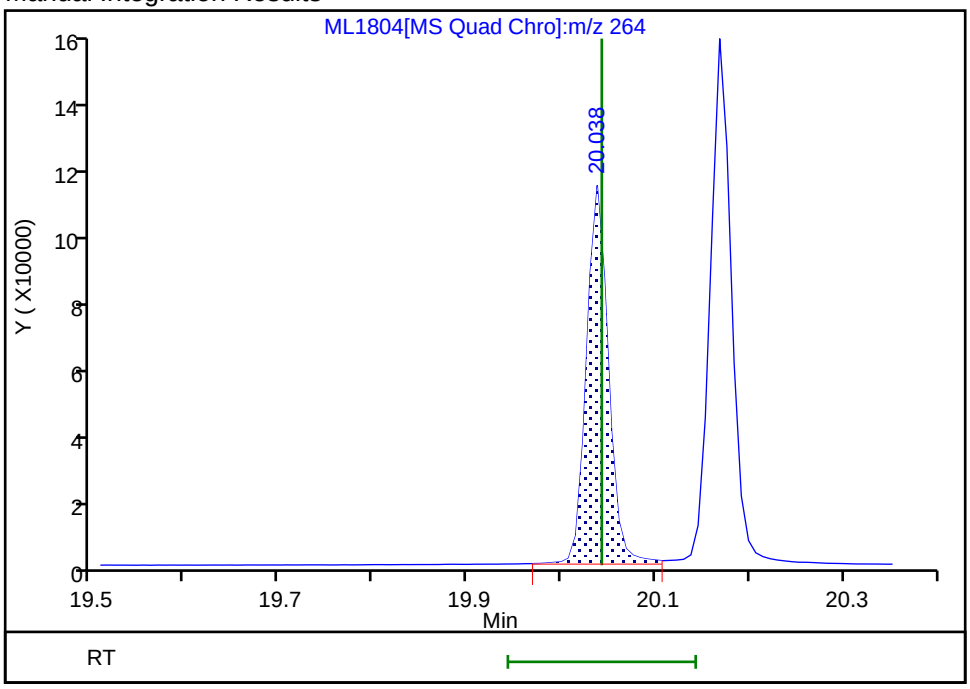
Processing Integration Results

RT: 20.04
Area: 186946
Amount: 0.208474
Amount Units: ug/ml



Manual Integration Results

RT: 20.04
Area: 179392
Amount: 0.200050
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:02:14

Audit Action: Manually Integrated Audit Reason: Baseline

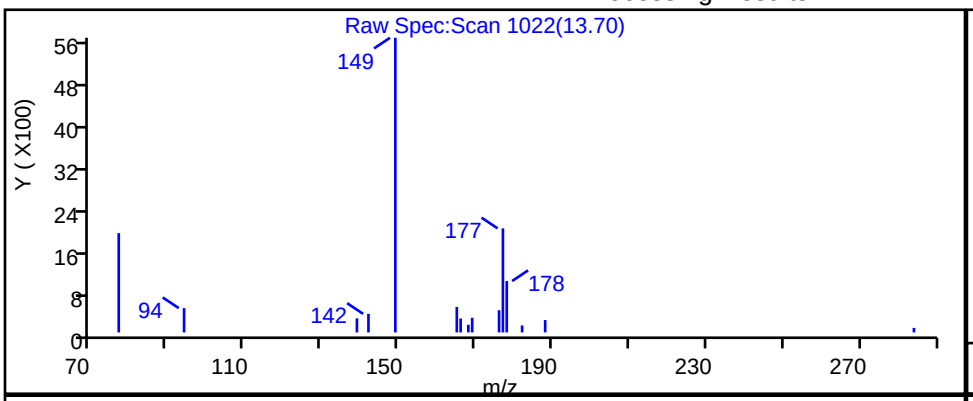
User Disabled Compound Report

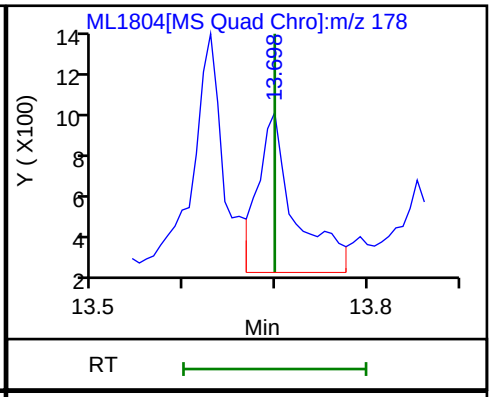
Eurofins Lancaster Laboratories Environment Testing LLC

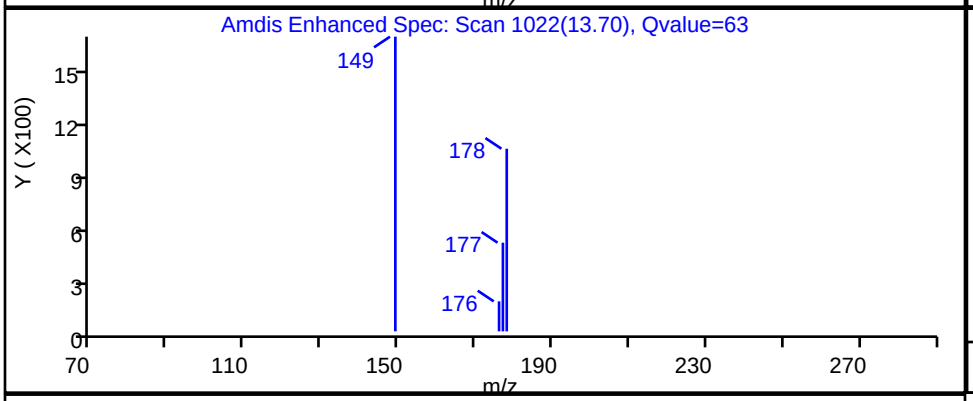
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Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

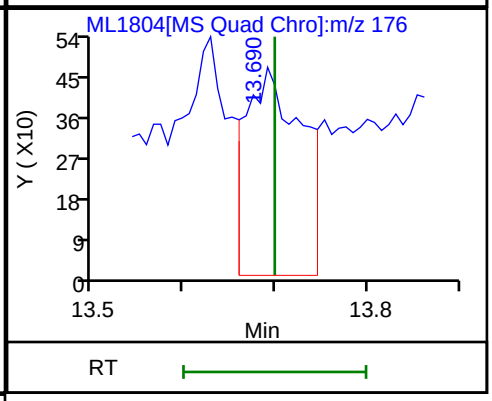
22 Anthracene, CAS: 120-12-7

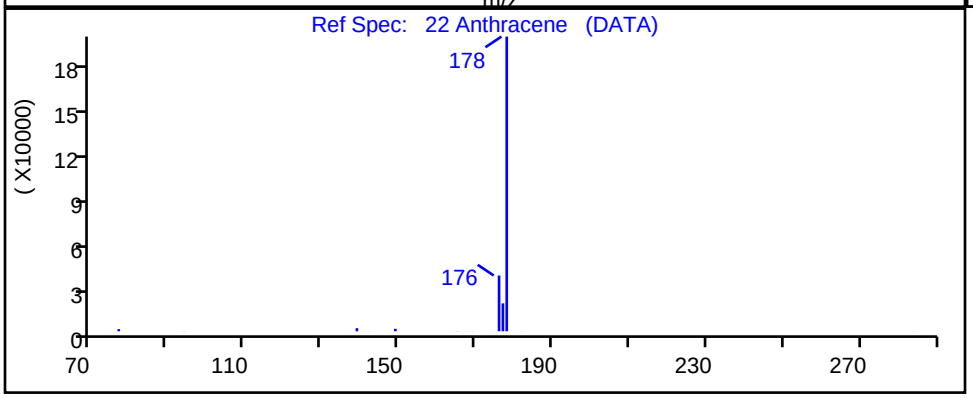
Processing Results











RT	Mass	Response	Amount
13.70	178.00	2075	0.002585
13.69	176.00	1922	

Reviewer: transuea, 04-Jan-2022 13:01:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

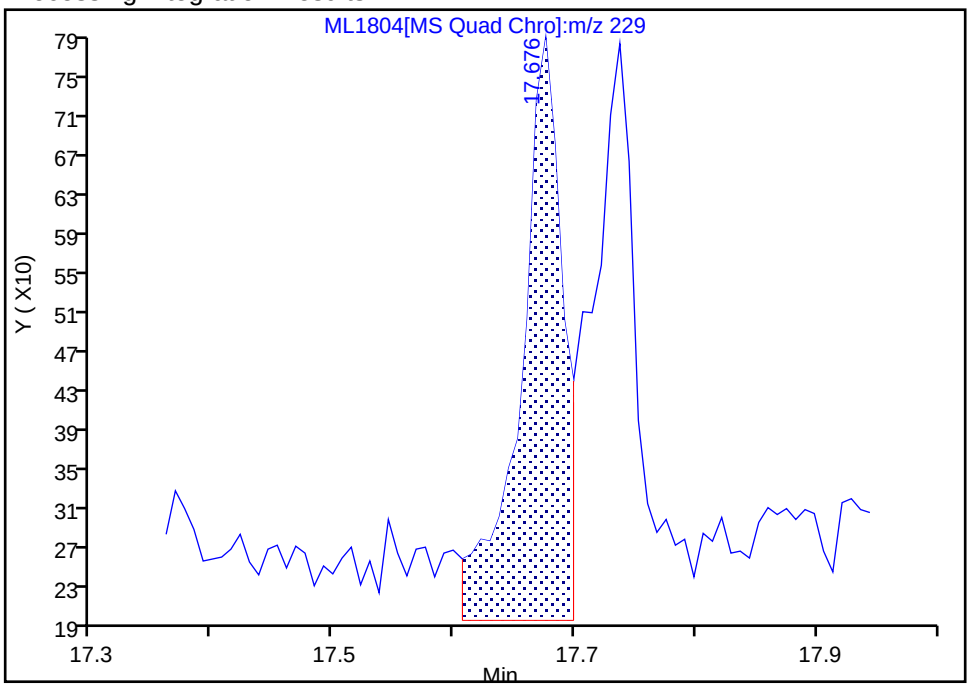
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Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 2

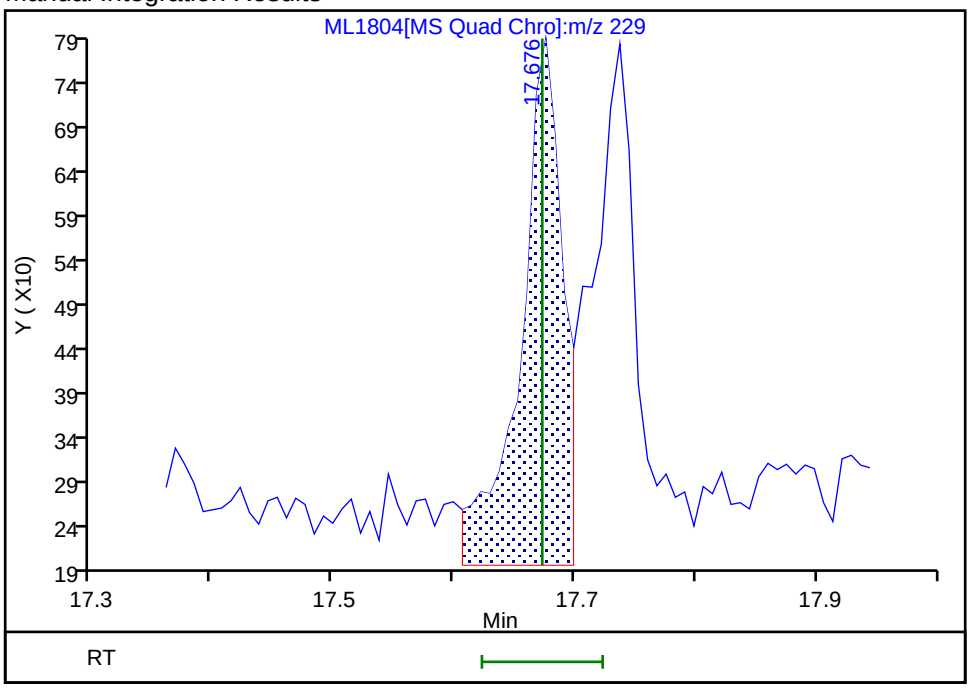
Processing Integration Results

RT: 17.68
Area: 1394
Amount: 0.004247
Amount Units: ug/ml



Manual Integration Results

RT: 17.68
Area: 1394
Amount: 0.003978
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:01:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

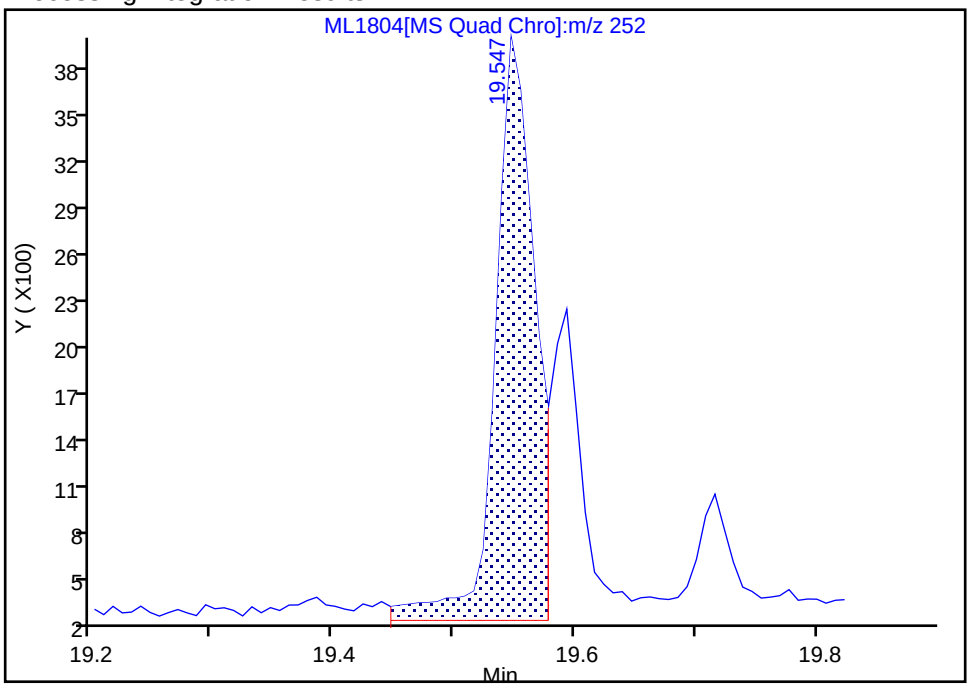
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1804.D				
Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	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		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

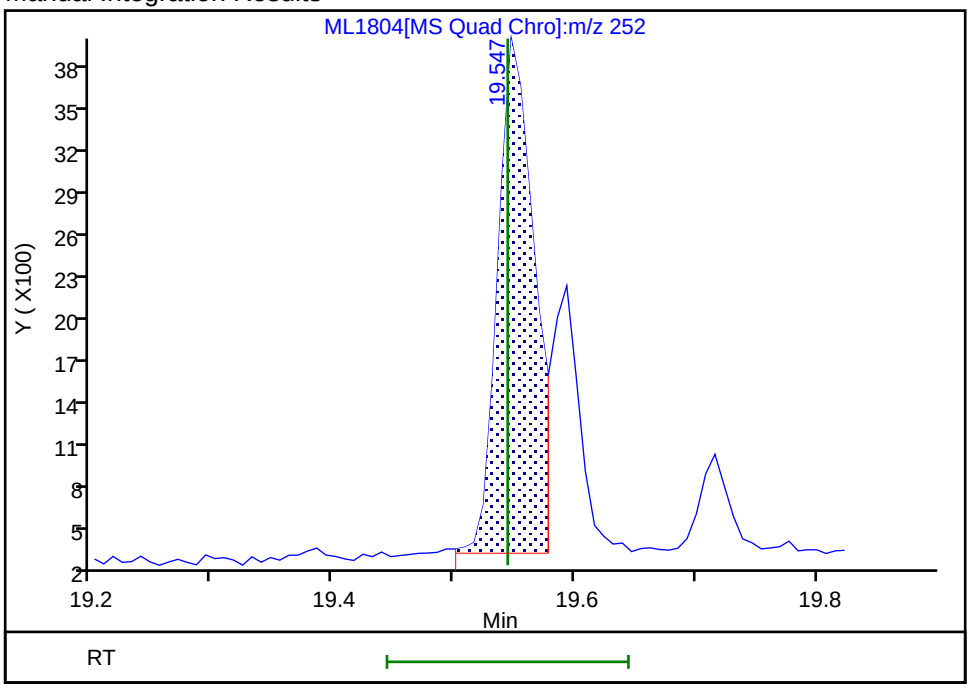
Processing Integration Results

RT: 19.55
Area: 8150
Amount: 0.006861
Amount Units: ug/ml



Manual Integration Results

RT: 19.55
Area: 7284
Amount: 0.006132
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:01:59

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

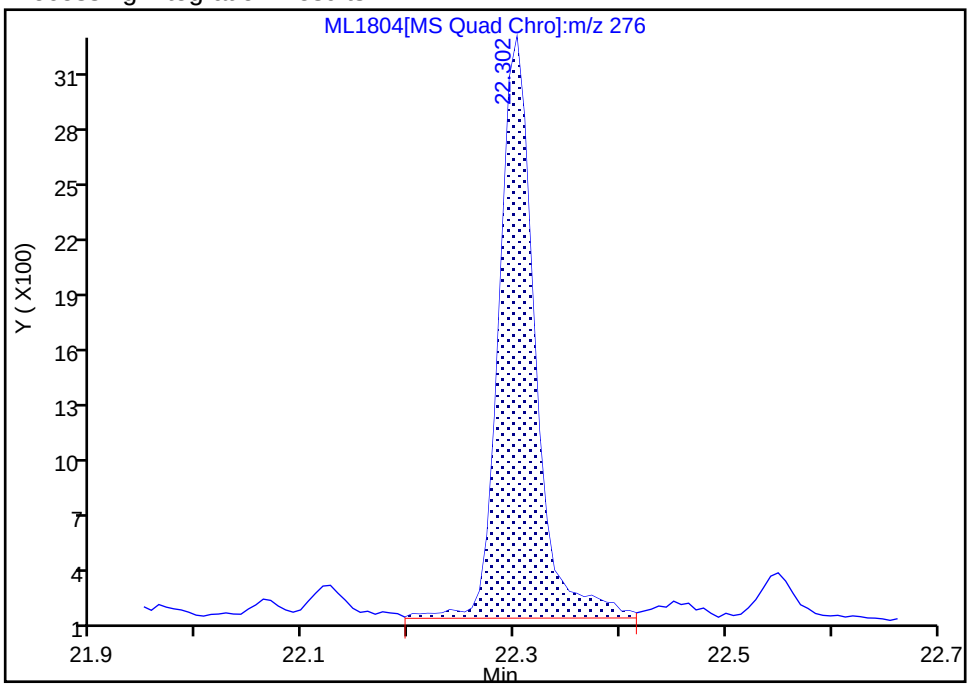
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Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

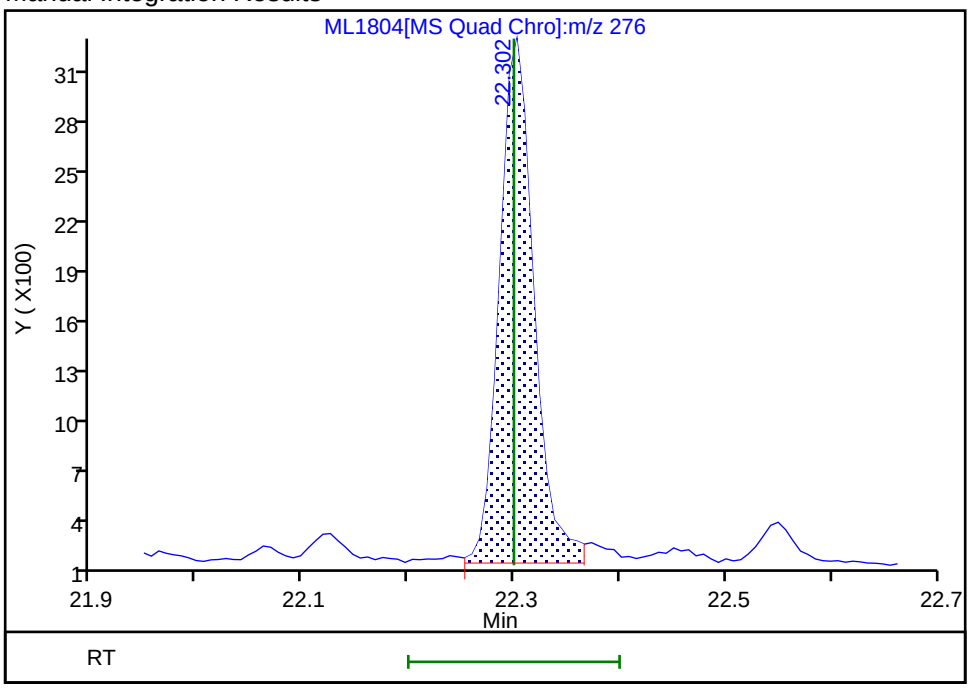
Processing Integration Results

RT: 22.30
Area: 7353
Amount: 0.005116
Amount Units: ug/ml



Manual Integration Results

RT: 22.30
Area: 7025
Amount: 0.004888
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:02:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

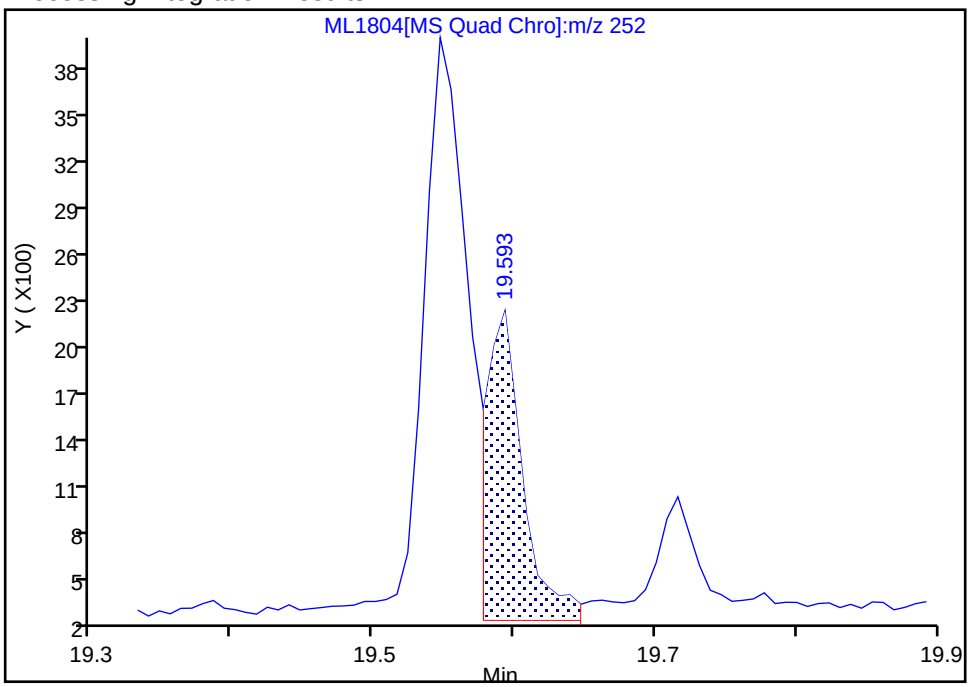
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Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

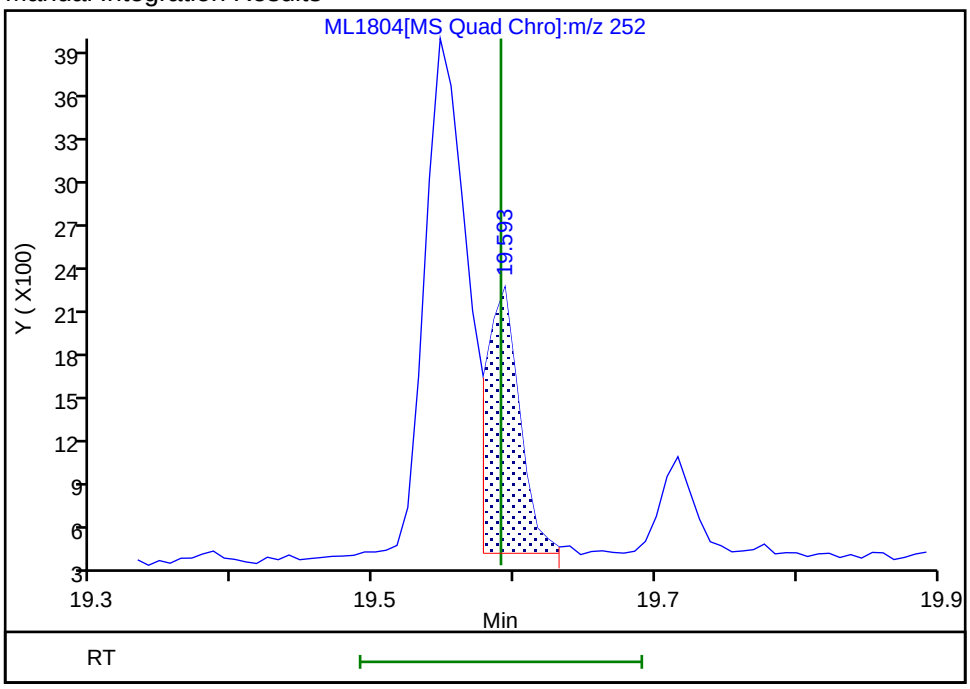
Processing Integration Results

RT: 19.59
Area: 3279
Amount: 0.002612
Amount Units: ug/ml



Manual Integration Results

RT: 19.59
Area: 2797
Amount: 0.002228
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:02:06

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

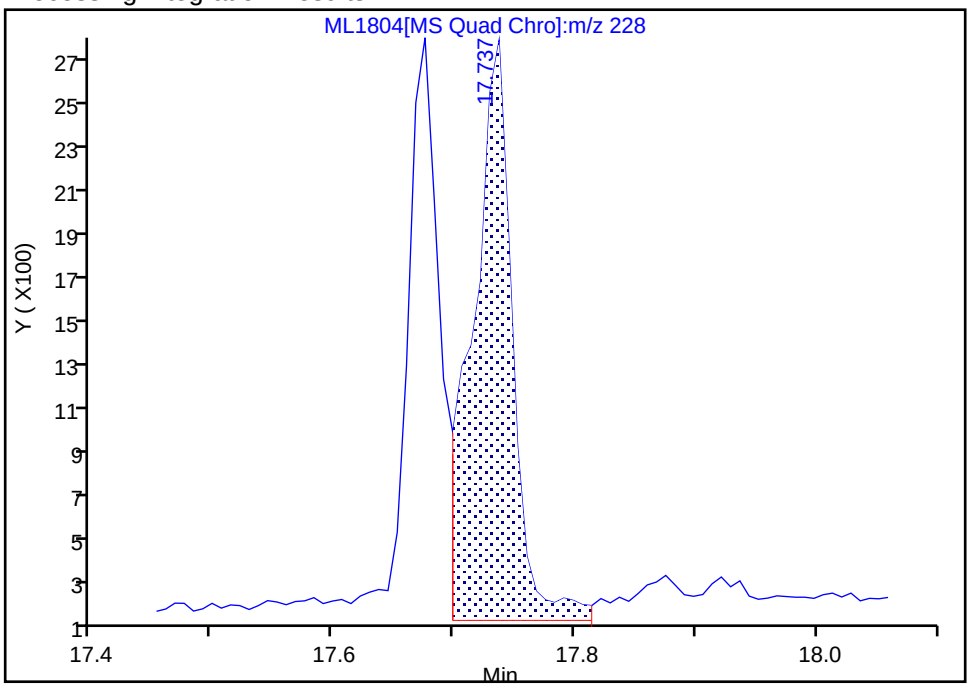
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Injection Date:	31-Dec-2021 15:43:38	Instrument ID:	HP21585		
Lims ID:	410-68043-B-2-A	Lab Sample ID:	410-68043-2		
Client ID:	MW-10S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

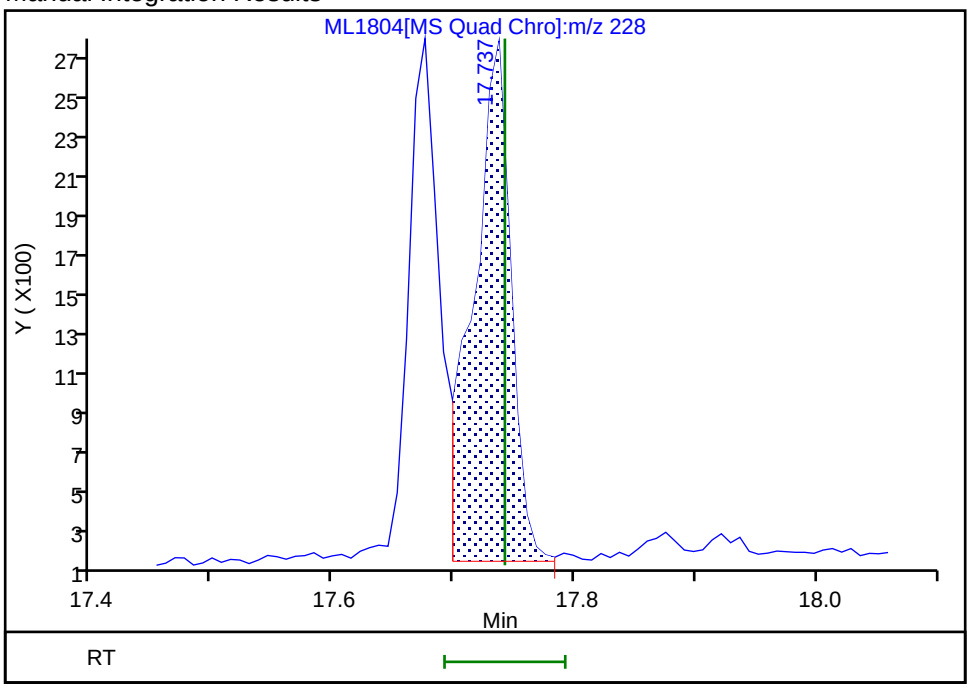
Processing Integration Results

RT: 17.74
Area: 5737
Amount: 0.005030
Amount Units: ug/ml



Manual Integration Results

RT: 17.74
Area: 5288
Amount: 0.004636
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:01:32

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-10D-20211220 Lab Sample ID: 410-68043-3

Matrix: Ground Water Lab File ID: NL1210.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 15:24

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 248.8(mL) Date Analyzed: 12/27/2021 18:50

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 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)	65		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	88		36-111
93951-69-0	Fluoranthene-d10 (Surr)	82		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1210.D
Lims ID: 410-68043-A-3-A
Client ID: MW-10D-20211220
Sample Type: Client
Inject. Date: 27-Dec-2021 18:50:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-3-A
Misc. Info.: 410-0047167-011
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:16:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	98	88347	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	306054	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	142610	0.2196	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	96	172345	0.2500	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	297932	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	234502	0.2054	
25 Fluoranthene	202	14.437	14.448	0.006	22	2284	0.001783	
26 Pyrene	202	14.769	14.775	0.012	95	3307	0.002135	
28 Benzo[a]anthracene	228	16.729	16.736	0.008	2	2213	0.001866	M
* 29 Chrysene-d12	240	16.744	16.737	0.007	82	247523	0.2500	
33 Benzo[b]fluoranthene	252	18.585	18.592	0.031	98	2477	0.001889	M
34 Benzo[k]fluoranthene	252	18.631	18.639	0.031	96	1147	0.000768	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	98	157813	0.1627	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	97	1874	0.001479	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	266434	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.831	20.845	0.056	97	1608	0.001393	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

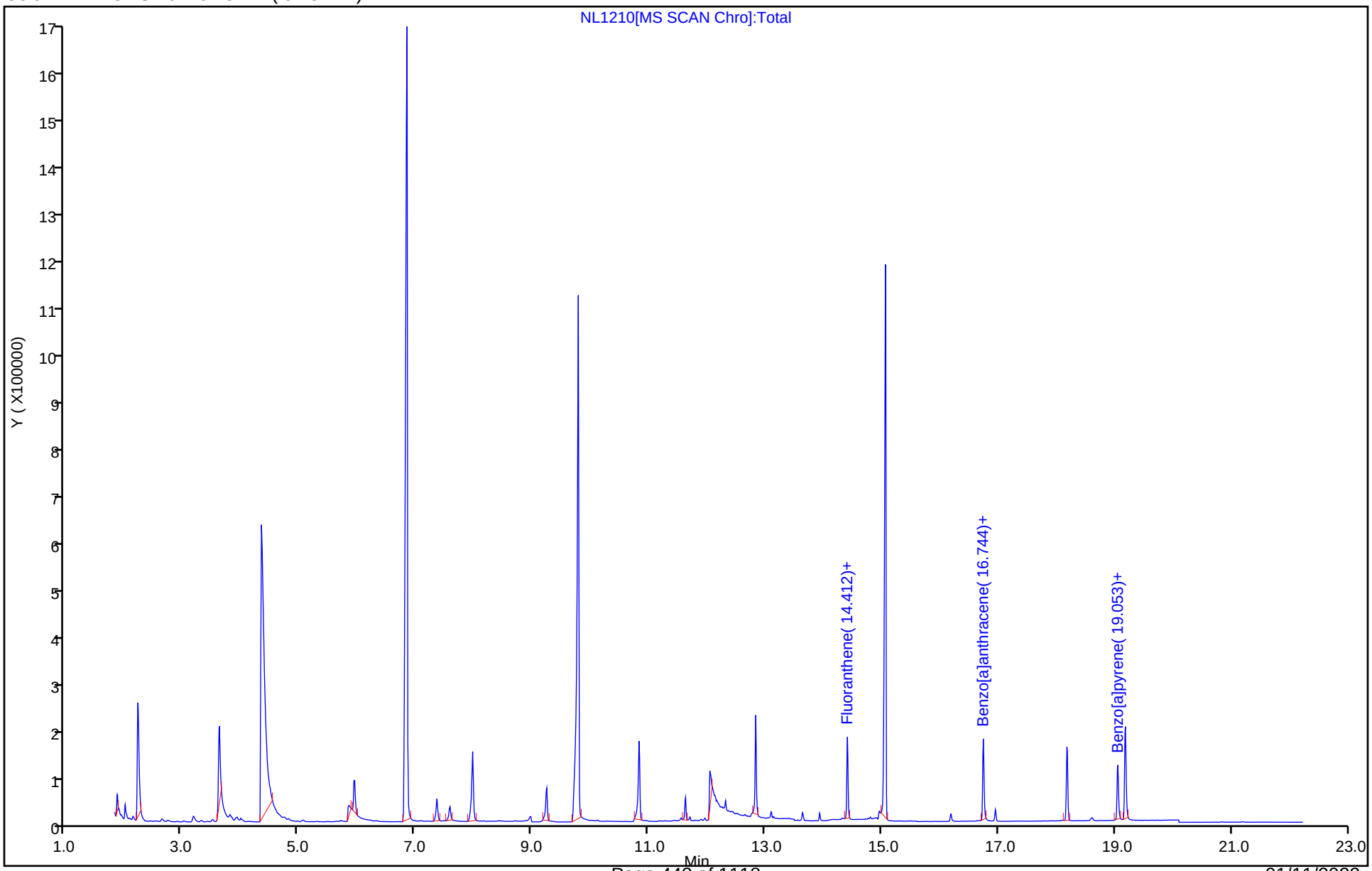
Report Date: 28-Dec-2021 06:59:10 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1210.D

Injection Date:	27-Dec-2021 18:50:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-3-A	Lab Sample ID:	410-68043-3	Worklist Smp#:	11
Client ID:	MW-10D-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



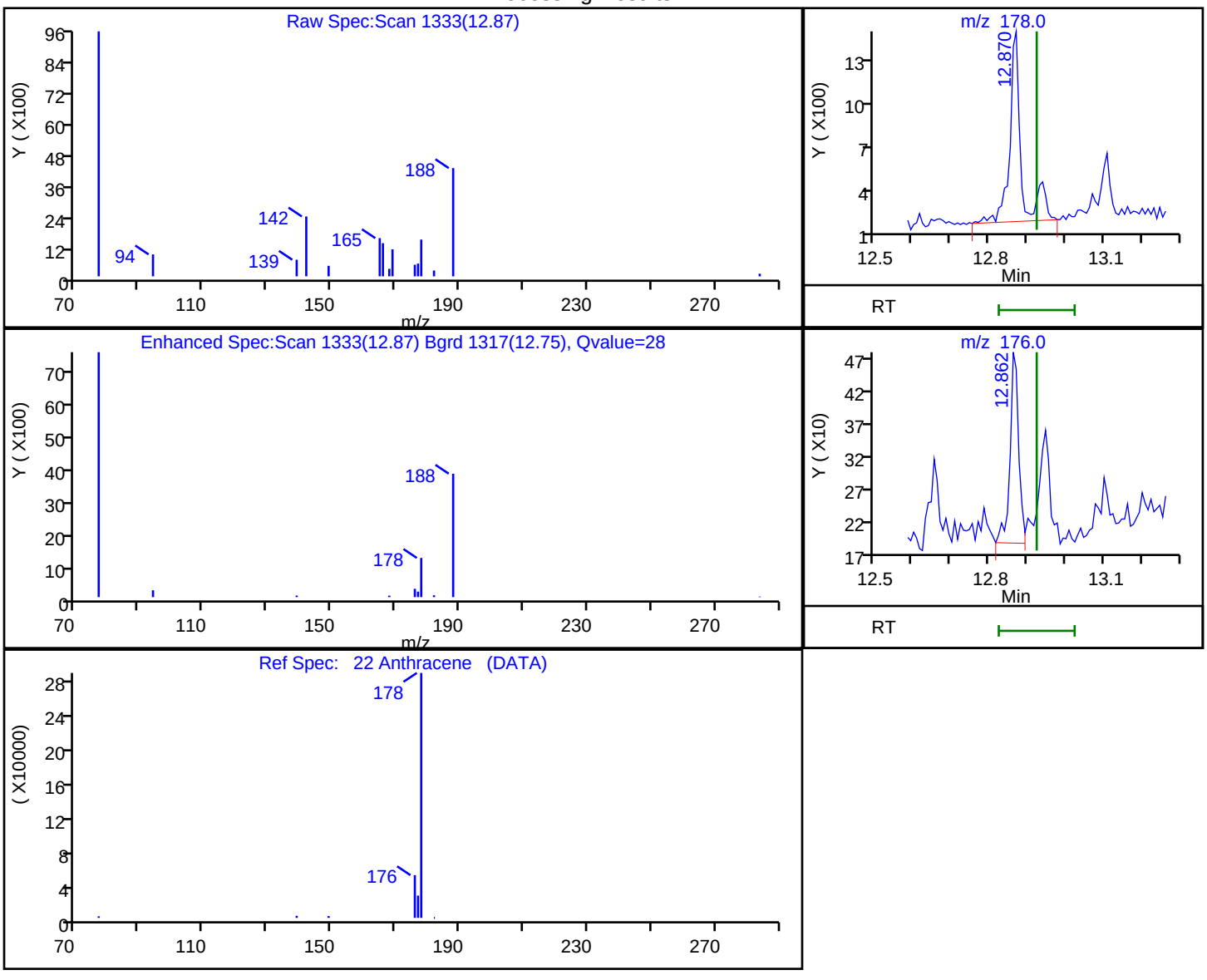
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1210.D				
Injection Date:	27-Dec-2021 18:50:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-3-A	Lab Sample ID:	410-68043-3		
Client ID:	MW-10D-20211220				
Operator ID:	whs02991	ALS Bottle#:	11	Worklist Smp#:	11
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		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
12.87	178.00	2527	0.002067
12.86	176.00	457	

Reviewer: gamblerj, 28-Dec-2021 06:15:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

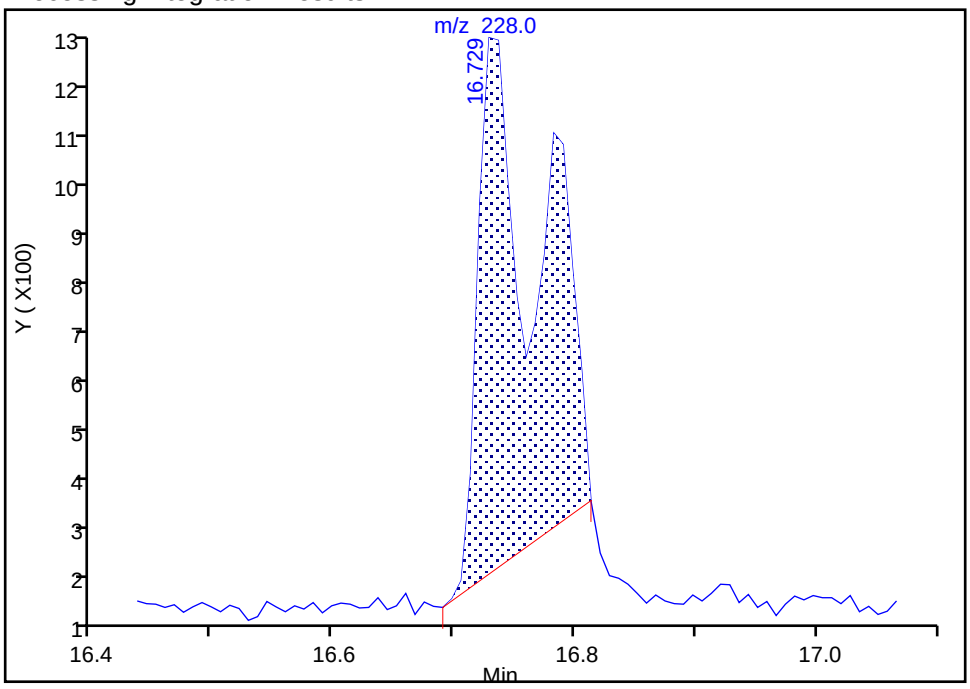
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Injection Date:	27-Dec-2021 18:50:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-3-A	Lab Sample ID:	410-68043-3		
Client ID:	MW-10D-20211220				
Operator ID:	whs02991	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

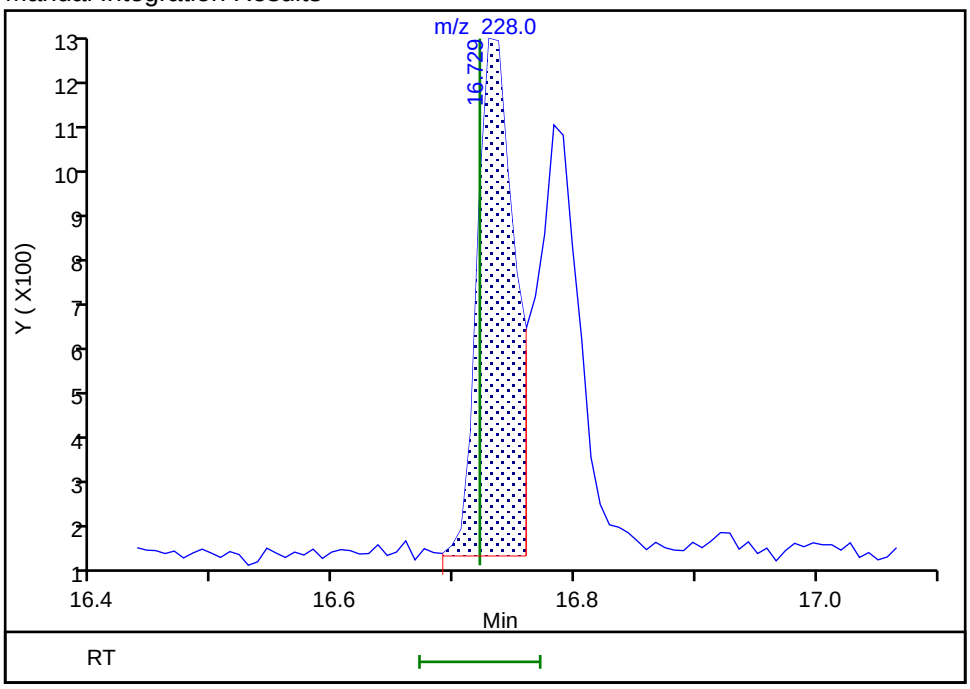
Processing Integration Results

RT: 16.73
Area: 3451
Amount: 0.002909
Amount Units: ug/ml



Manual Integration Results

RT: 16.73
Area: 2213
Amount: 0.001866
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:16:06

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

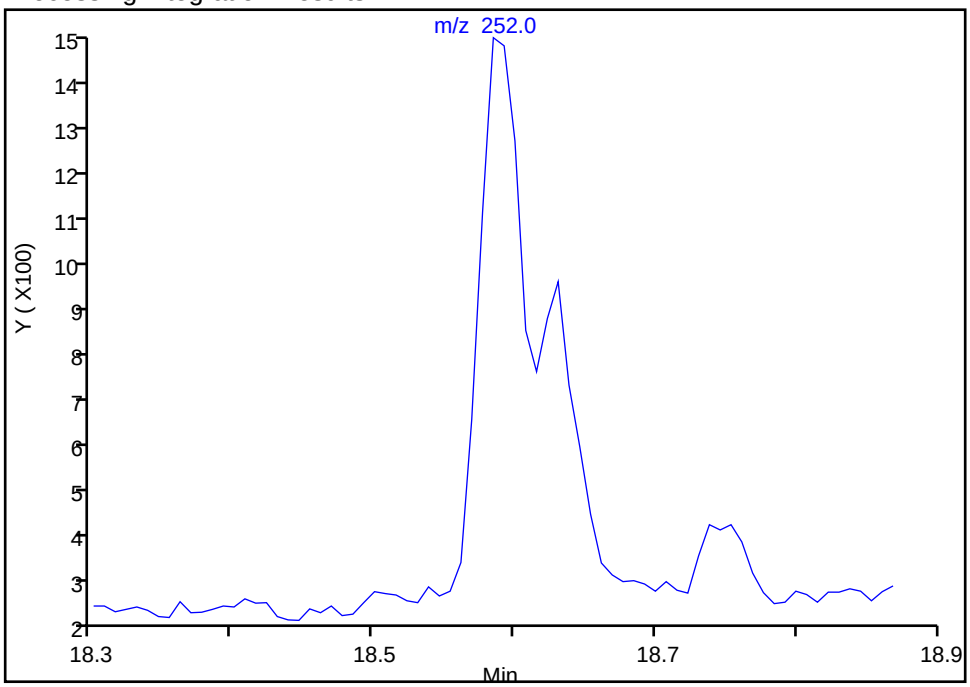
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Injection Date:	27-Dec-2021 18:50:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-3-A	Lab Sample ID:	410-68043-3
Client ID:	MW-10D-20211220		
Operator ID:	whs02991	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

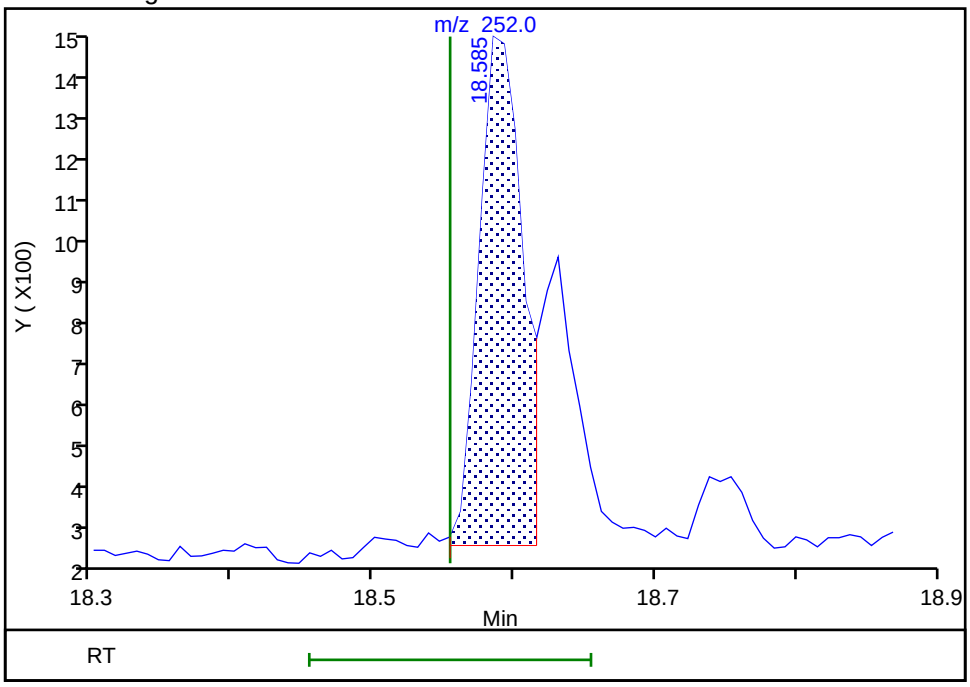
Not Detected
Expected RT: 18.55

Processing Integration Results



Manual Integration Results

RT: 18.58
Area: 2477
Amount: 0.001889
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:16:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

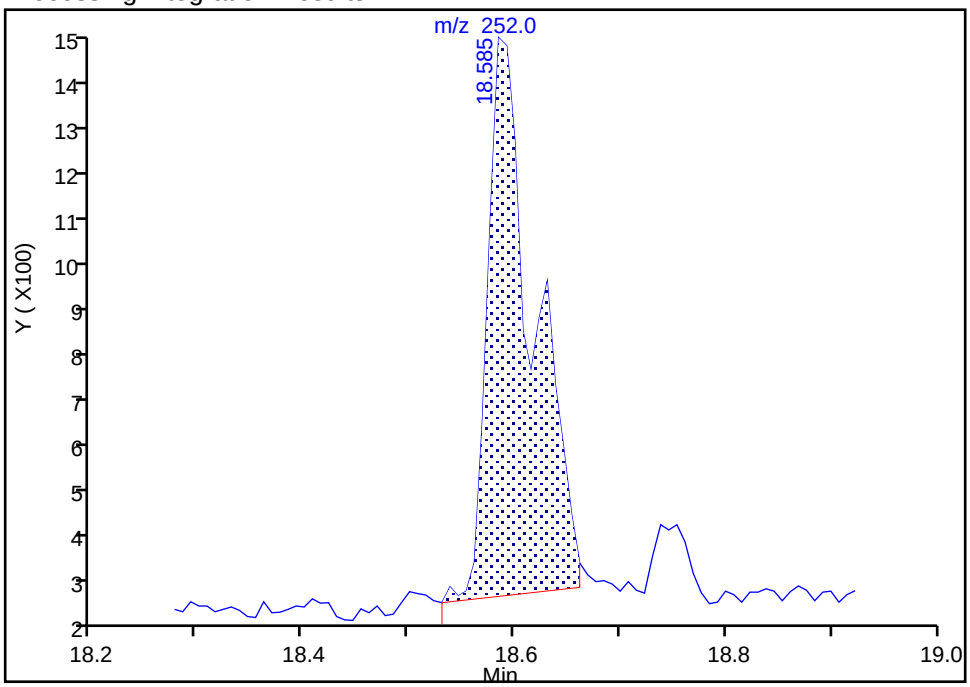
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Injection Date:	27-Dec-2021 18:50:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-3-A	Lab Sample ID:	410-68043-3
Client ID:	MW-10D-20211220		
Operator ID:	whs02991	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	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

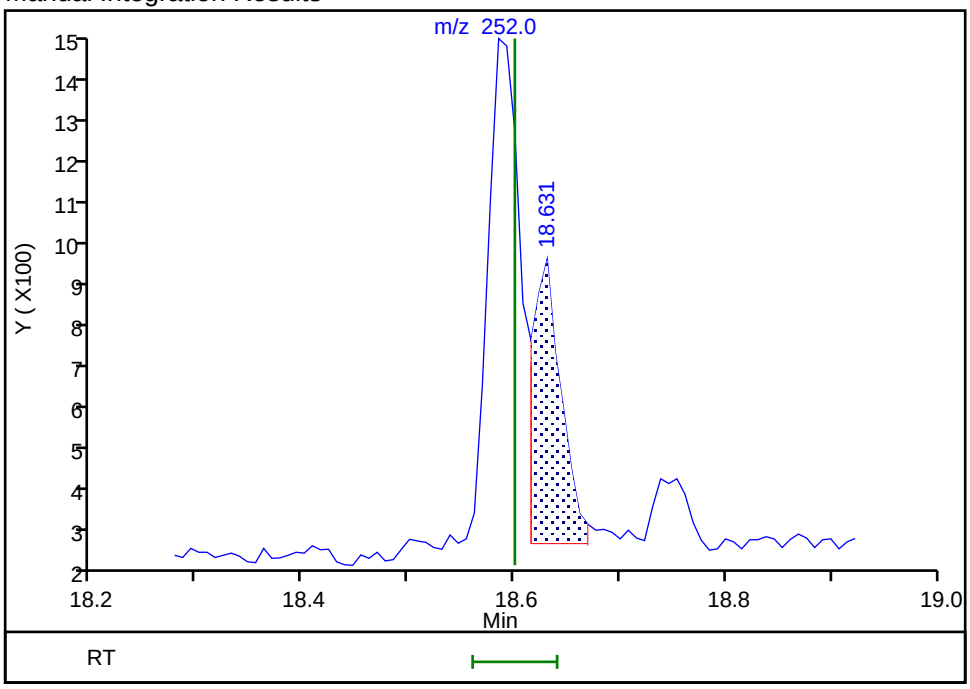
Processing Integration Results

RT: 18.58
Area: 3550
Amount: 0.002376
Amount Units: ug/ml



Manual Integration Results

RT: 18.63
Area: 1147
Amount: 0.000768
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:16:21

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-8S-20211220 Lab Sample ID: 410-68043-4

Matrix: Ground Water Lab File ID: NL1211.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 16:18

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 248.5(mL) Date Analyzed: 12/27/2021 19:18

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.26	cn	0.050	0.010
208-96-8	Acenaphthylene	ND	cn	0.050	0.010
120-12-7	Anthracene	ND	cn	0.050	0.010
56-55-3	Benzo[a]anthracene	0.016	J cn	0.050	0.010
50-32-8	Benzo[a]pyrene	0.018	J cn	0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.030	J *+ cn	0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.017	J *+ cn	0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.011	J *+ cn	0.050	0.010
218-01-9	Chrysene	ND	cn	0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND	*+ cn	0.050	0.020
206-44-0	Fluoranthene	0.045	J cn	0.050	0.010
86-73-7	Fluorene	0.014	J cn	0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.050	0.020
91-20-3	Naphthalene	ND	cn	0.070	0.030
85-01-8	Phenanthrene	0.058	J cn	0.070	0.030
129-00-0	Pyrene	0.043	J cn	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	91	cn	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	95	cn	36-111
93951-69-0	Fluoranthene-d10 (Surr)	98	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1211.D
Lims ID: 410-68043-A-4-A
Client ID: MW-8S-20211220
Sample Type: Client
Inject. Date: 27-Dec-2021 19:18:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-4-A
Misc. Info.: 410-0047167-012
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:17:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	96	91185	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	312284	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	157281	0.2373	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	94	168913	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	100	48770	0.0650	
17 Fluorene	166	11.696	11.696	0.000	98	3049	0.003458	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	296294	0.2500	
21 Phenanthrene	178	12.870	12.870	0.008	98	18823	0.0145	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	277066	0.2440	
25 Fluoranthene	202	14.437	14.448	0.006	88	14153	0.0111	
26 Pyrene	202	14.769	14.775	0.012	97	17778	0.0108	
28 Benzo[a]anthracene	228	16.729	16.736	0.008	6	5089	0.004026	
* 29 Chrysene-d12	240	16.744	16.737	0.007	82	263792	0.2500	
33 Benzo[b]fluoranthene	252	18.585	18.592	0.031	100	10475	0.007498	
34 Benzo[k]fluoranthene	252	18.623	18.639	0.023	98	4221	0.002652	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	97	232566	0.2275	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	99	5997	0.004443	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	283847	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.818	20.845	0.043	97	5452	0.004432	
42 Benzo[g,h,i]perylene	276	21.178	21.168	0.036	97	6400	0.004114	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

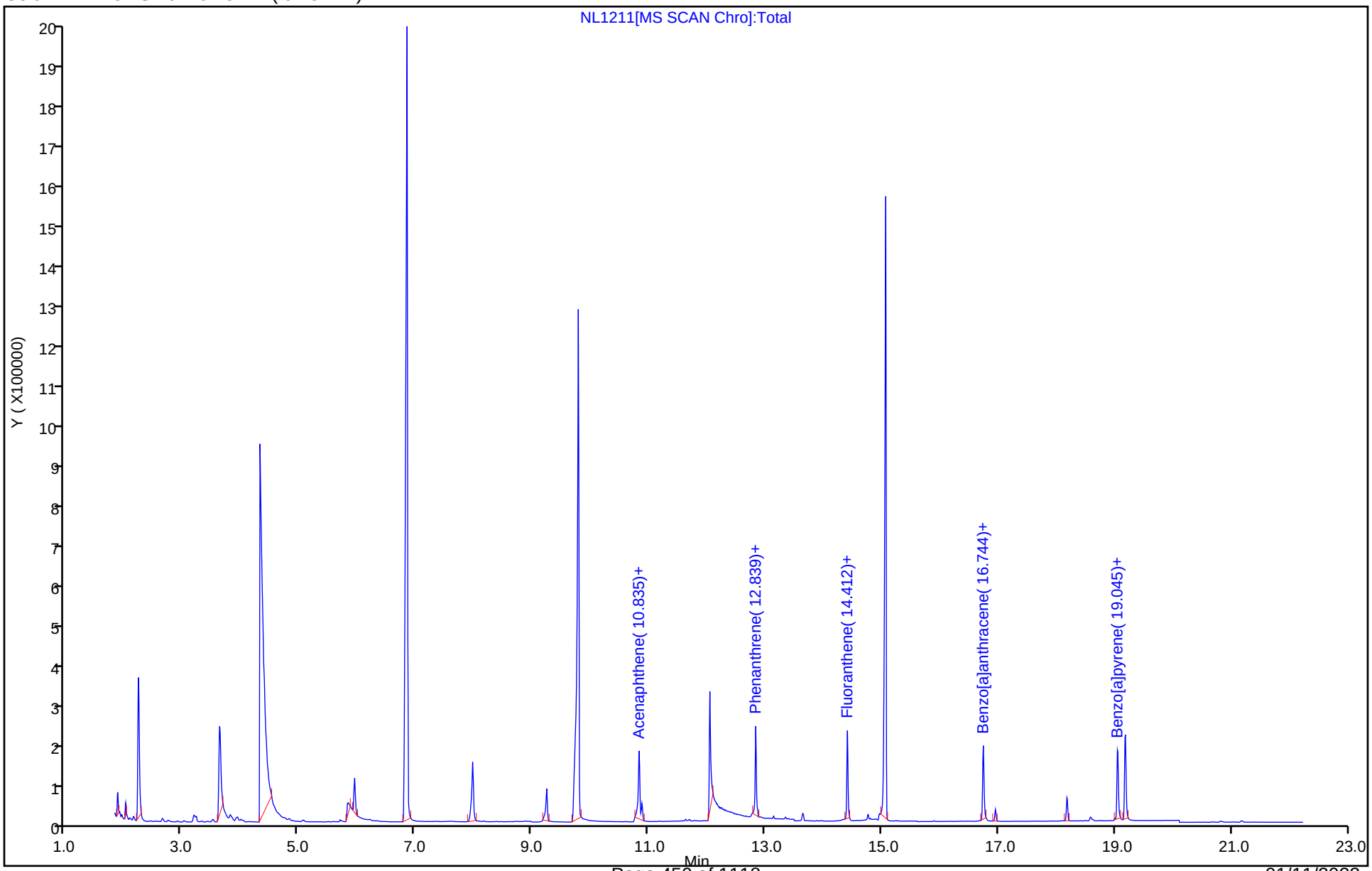
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4	Worklist Smp#:	12
Client ID:	MW-8S-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

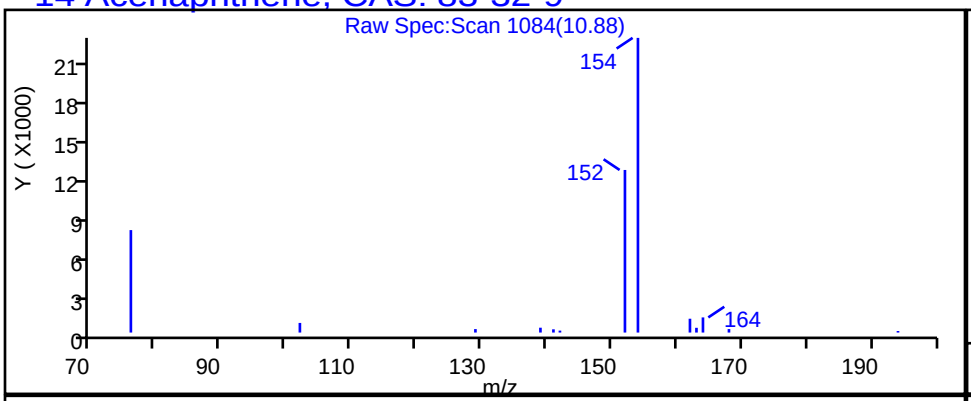
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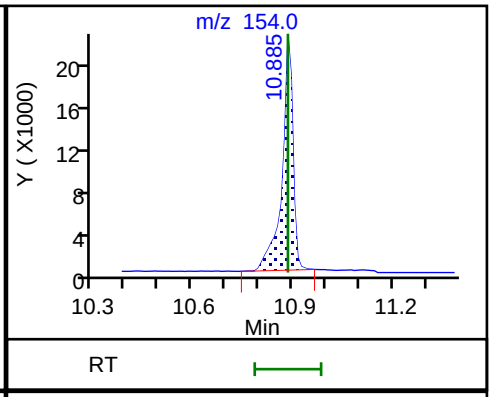


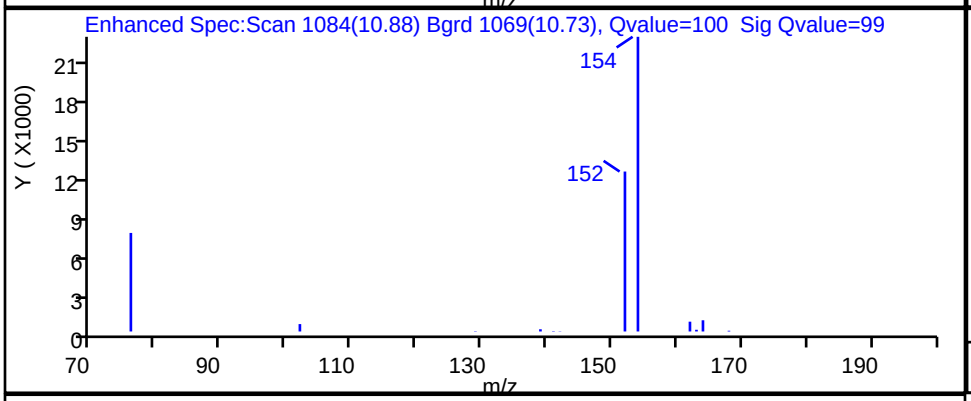
Eurofins Lancaster Laboratories Env, LLC

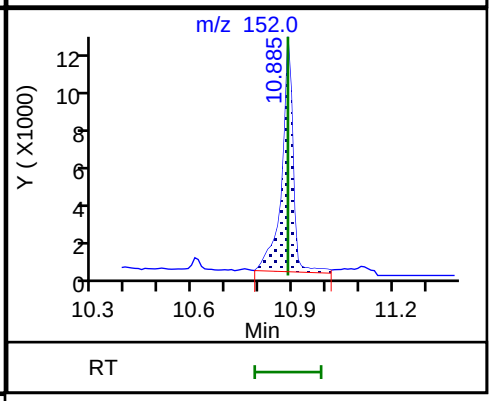
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Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

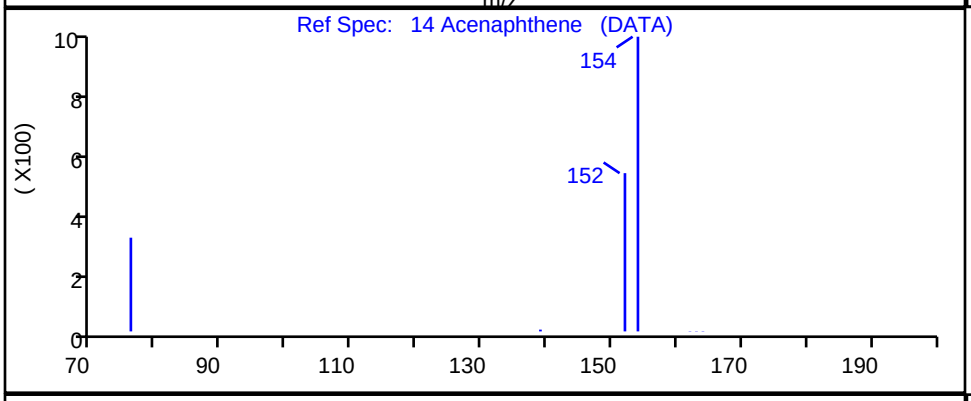
14 Acenaphthene, CAS: 83-32-9

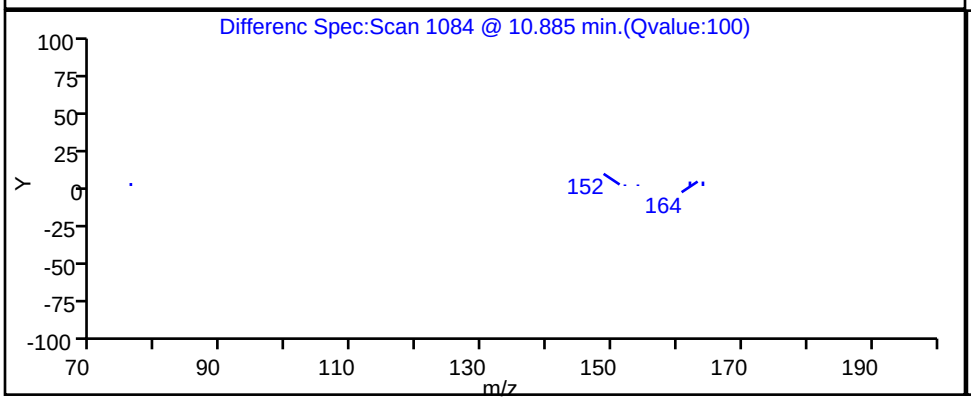


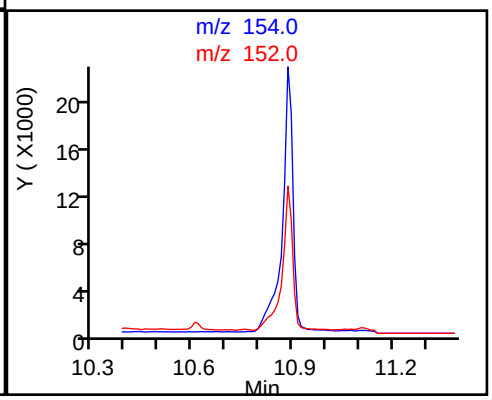








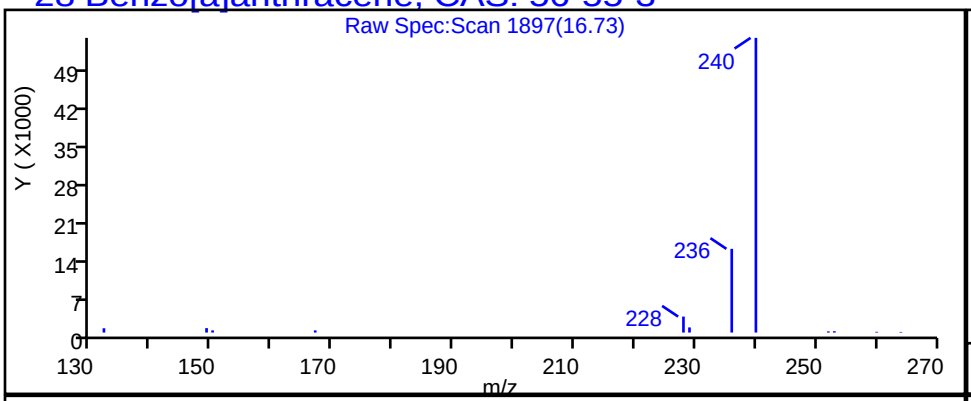


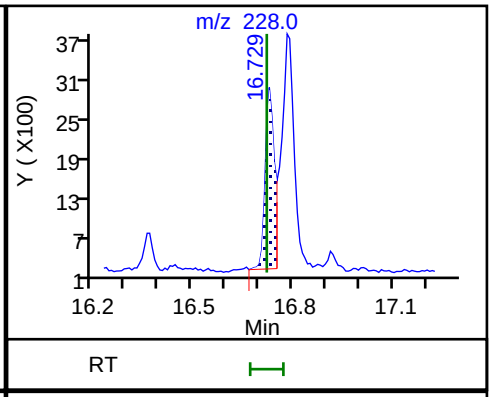


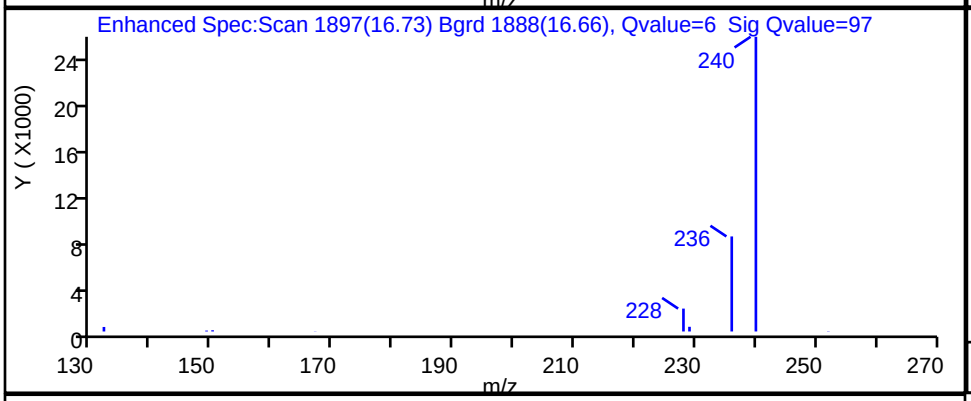
Eurofins Lancaster Laboratories Env, LLC

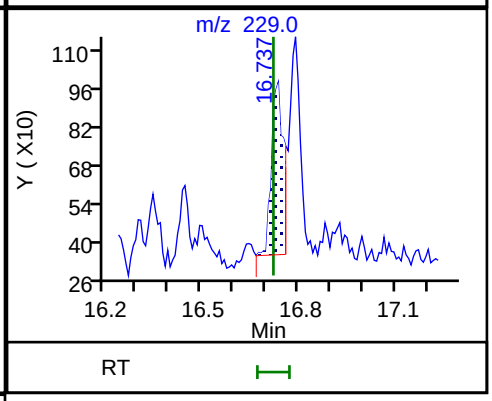
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Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

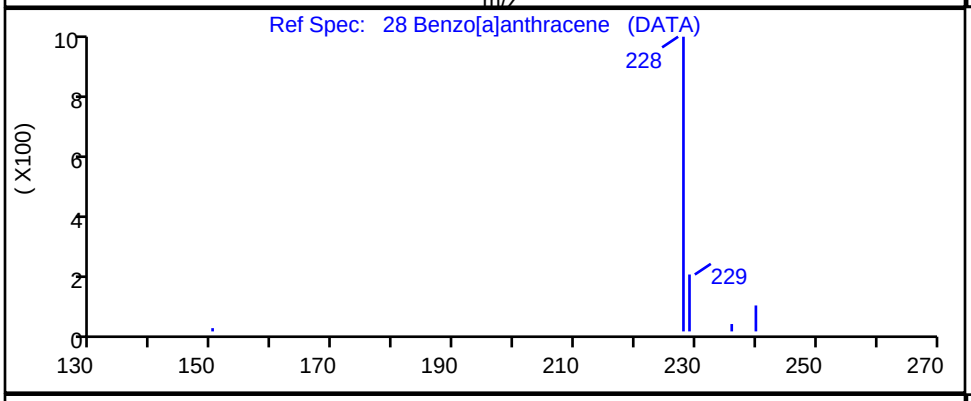
28 Benzo[a]anthracene, CAS: 56-55-3

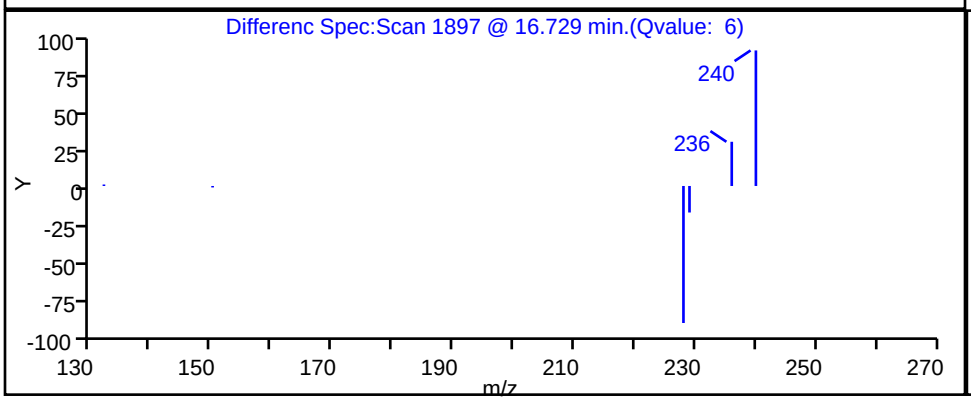


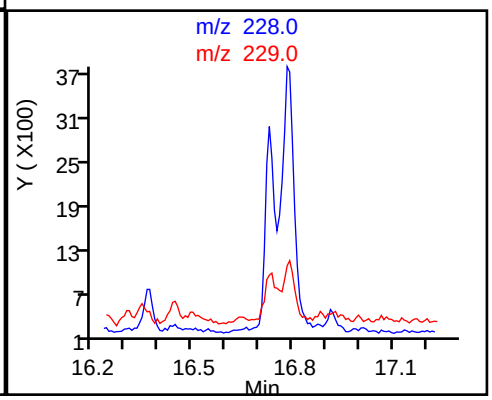








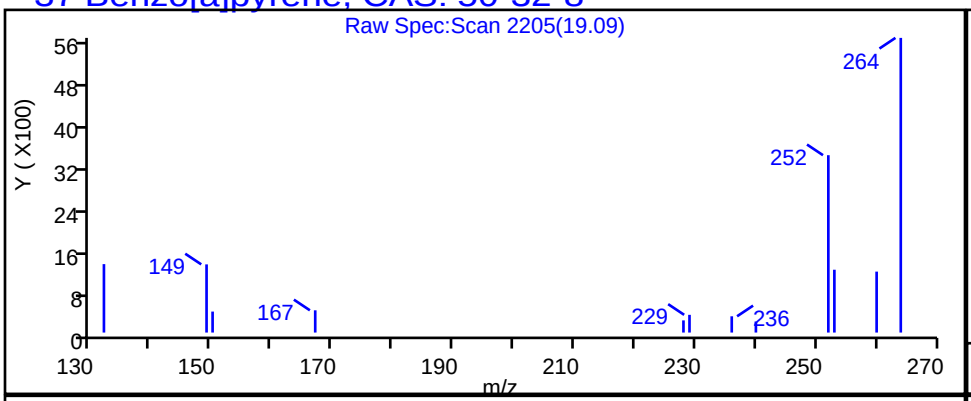


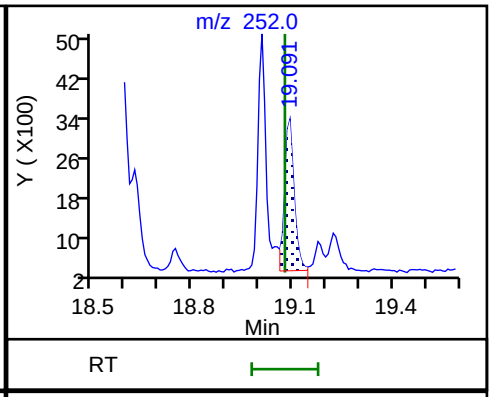


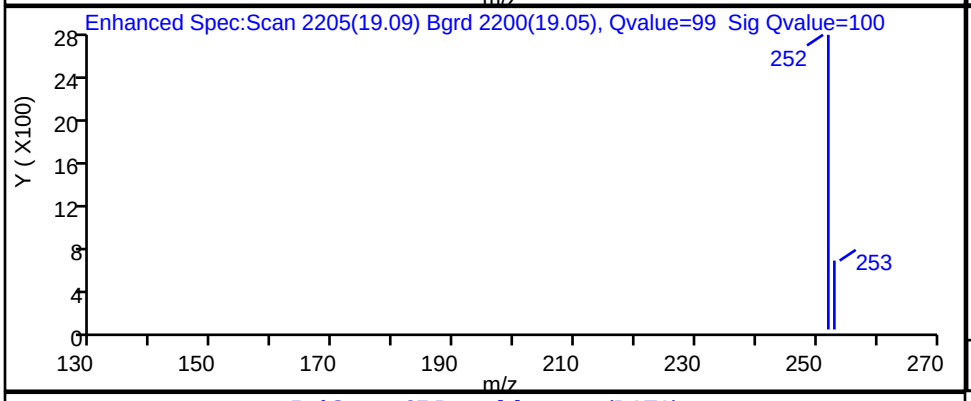
Eurofins Lancaster Laboratories Env, LLC

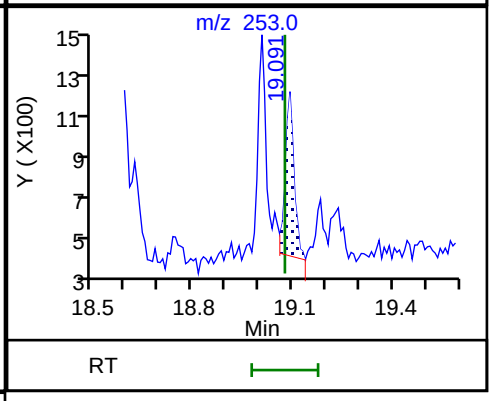
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Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

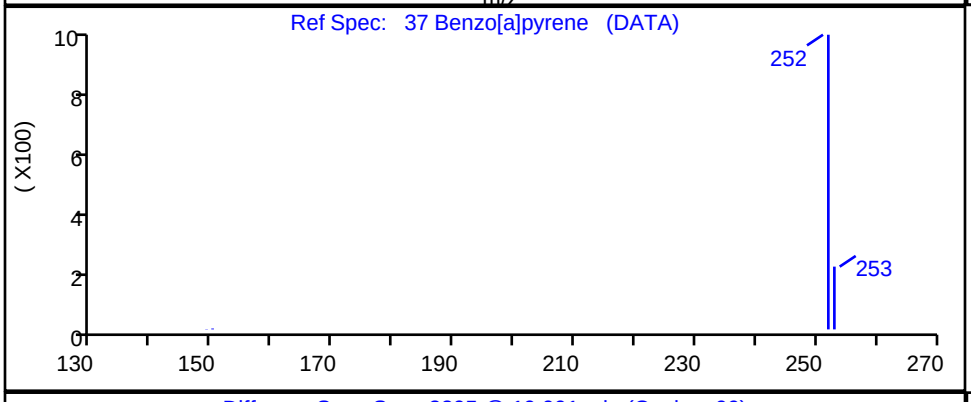
37 Benzo[a]pyrene, CAS: 50-32-8

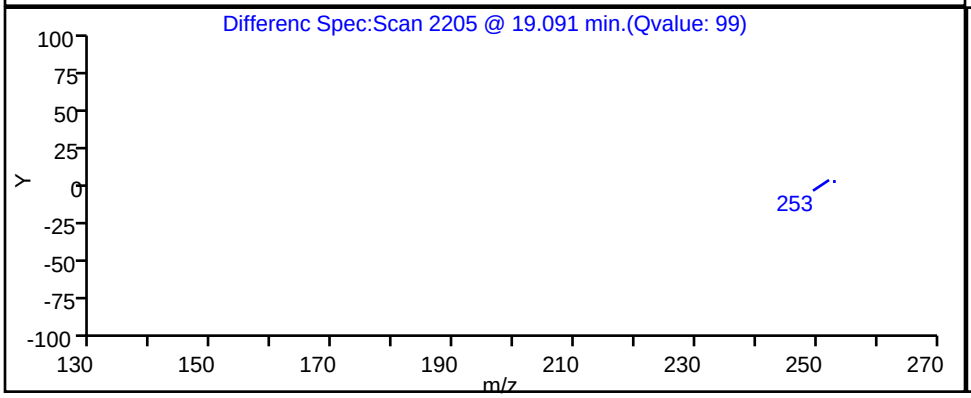


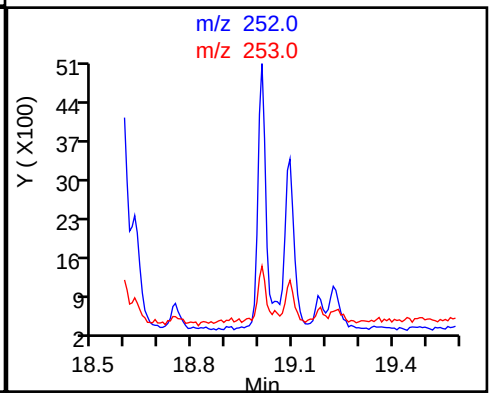












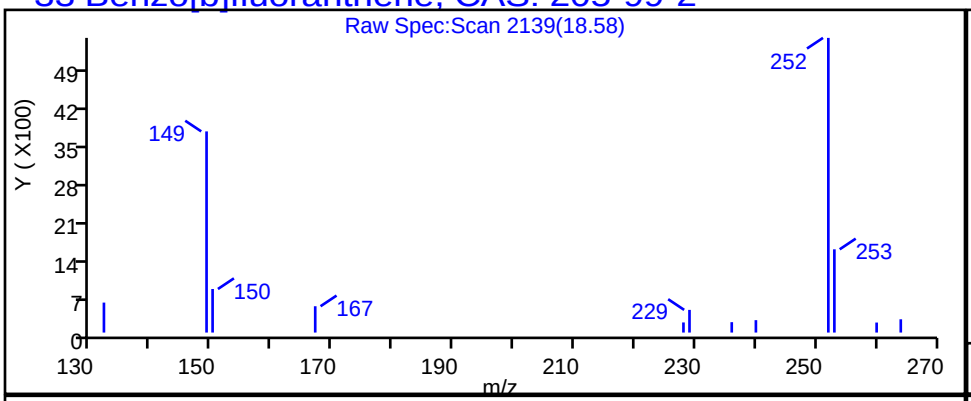
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

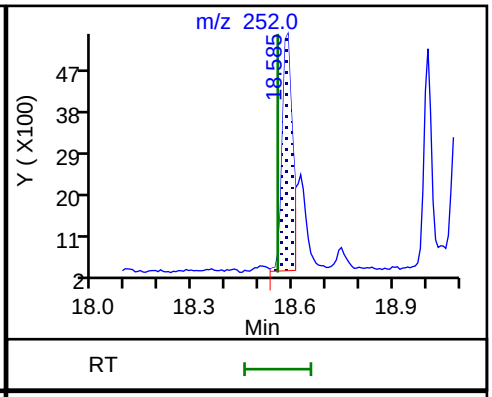
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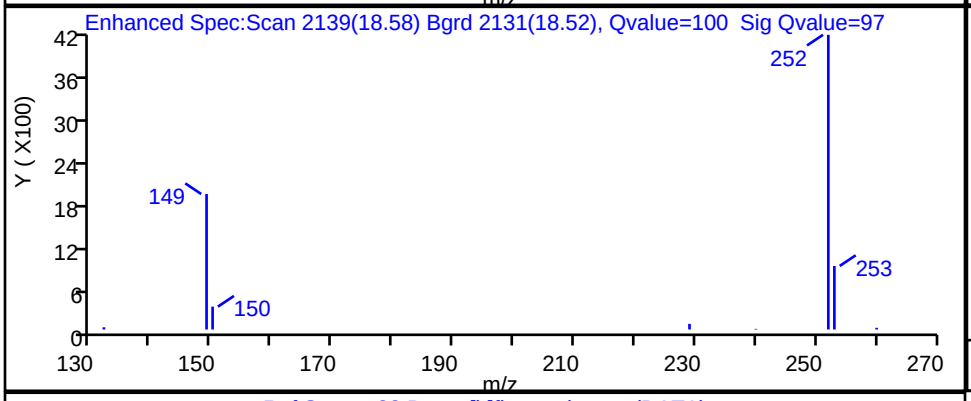
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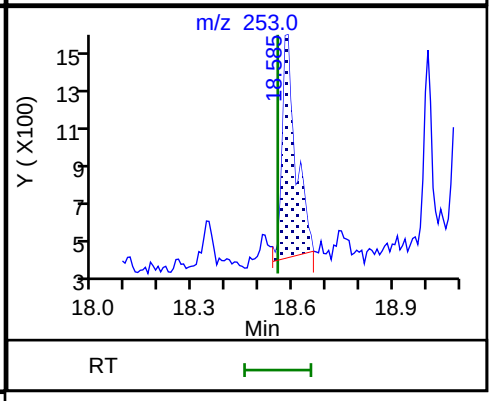
Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4
Client ID:	MW-8S-20211220		
Operator ID:	whs02991	ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

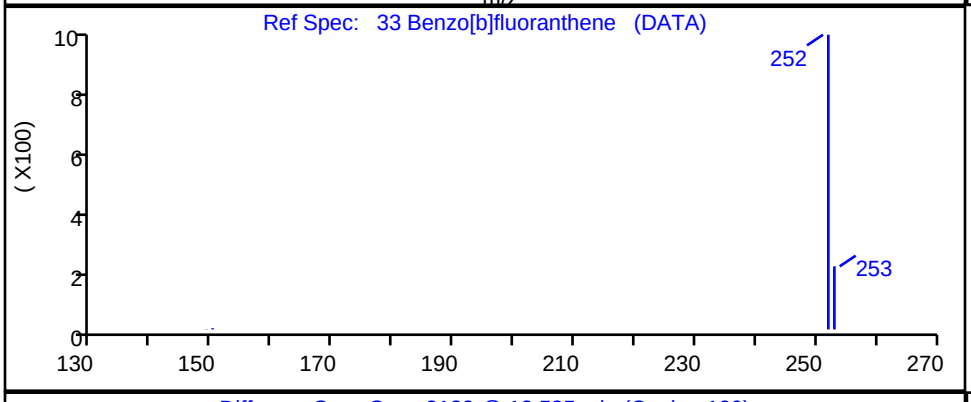
33 Benzo[b]fluoranthene, CAS: 205-99-2

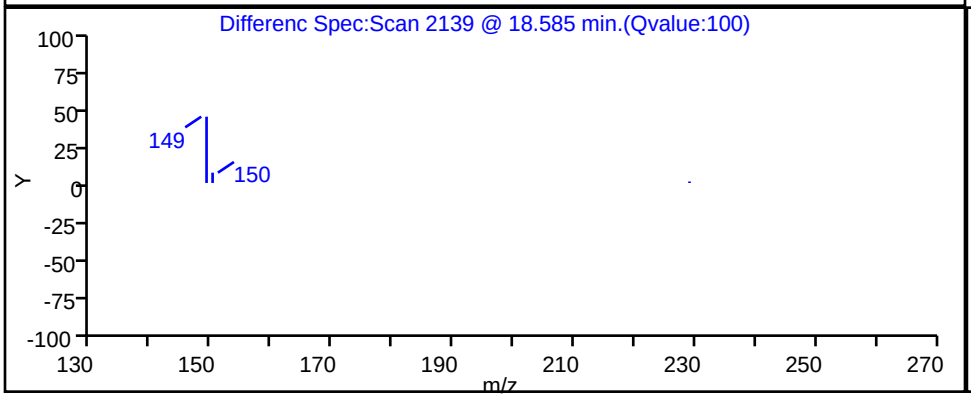


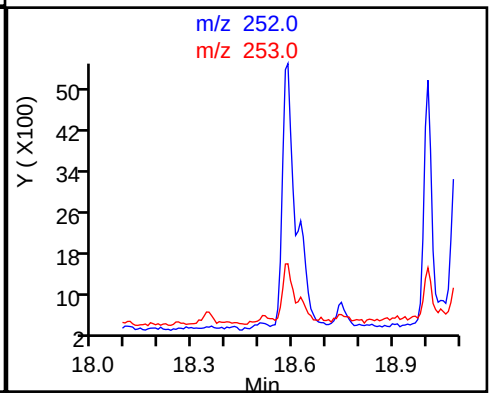








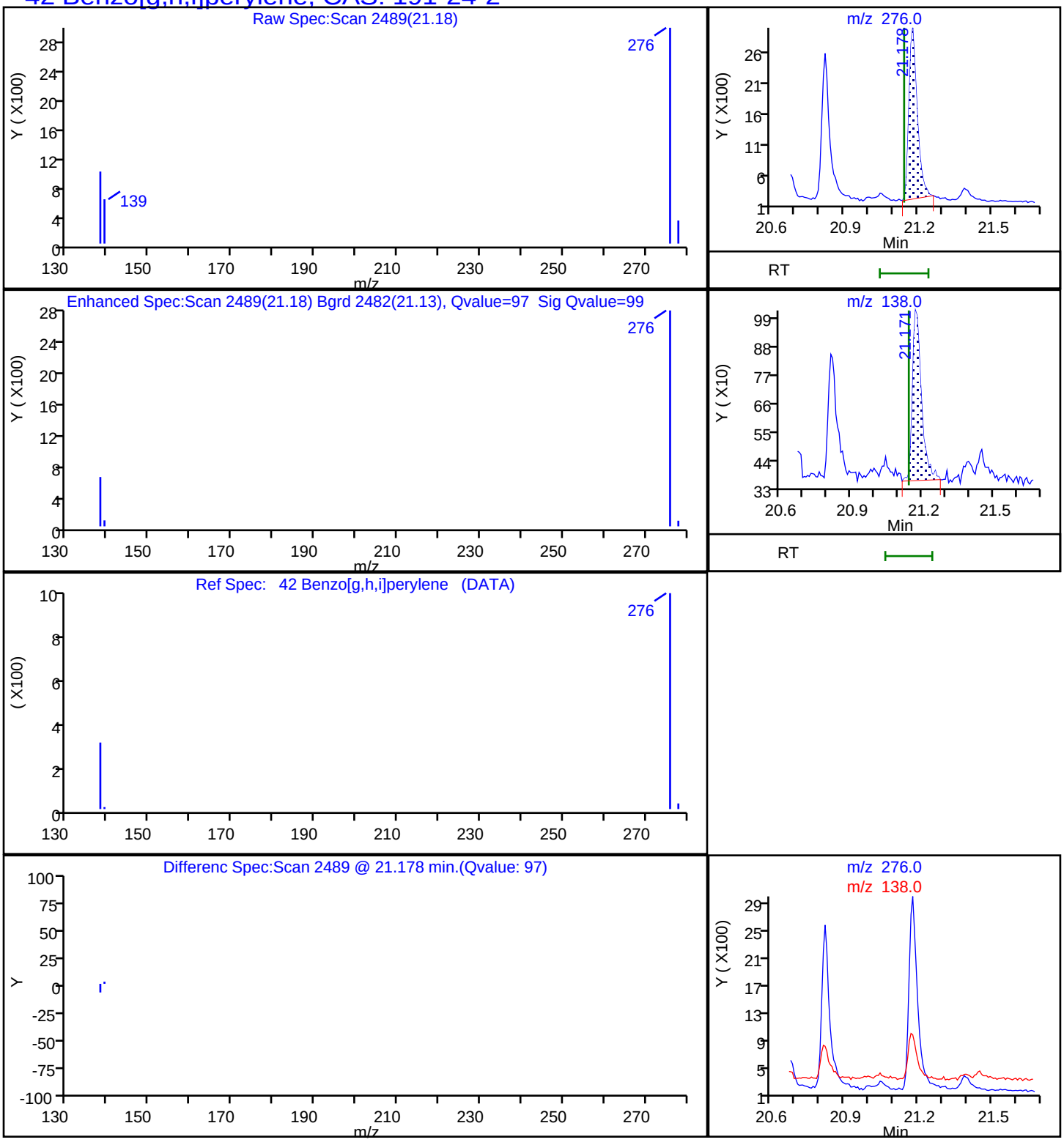




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Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2



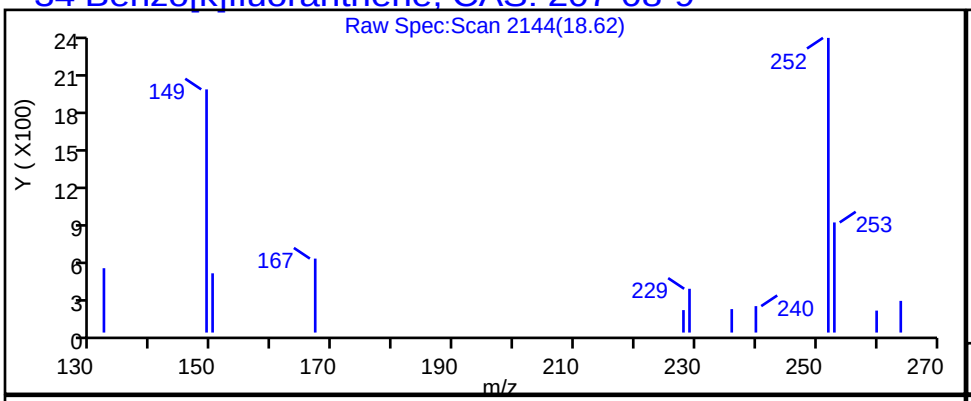
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

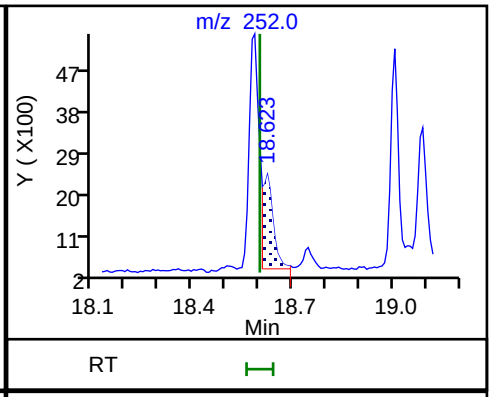
Eurofins Lancaster Laboratories Env, LLC

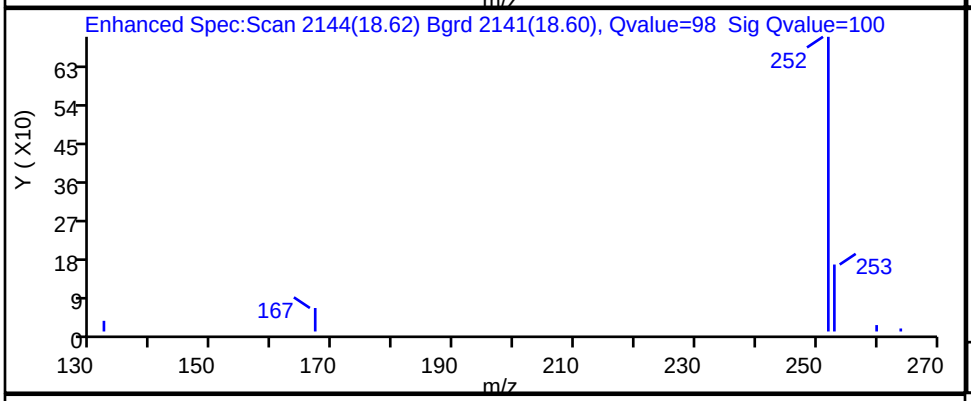
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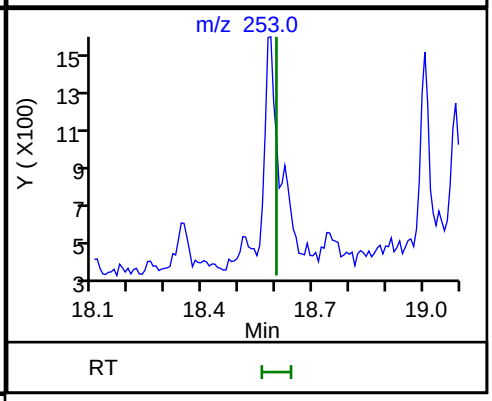
Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

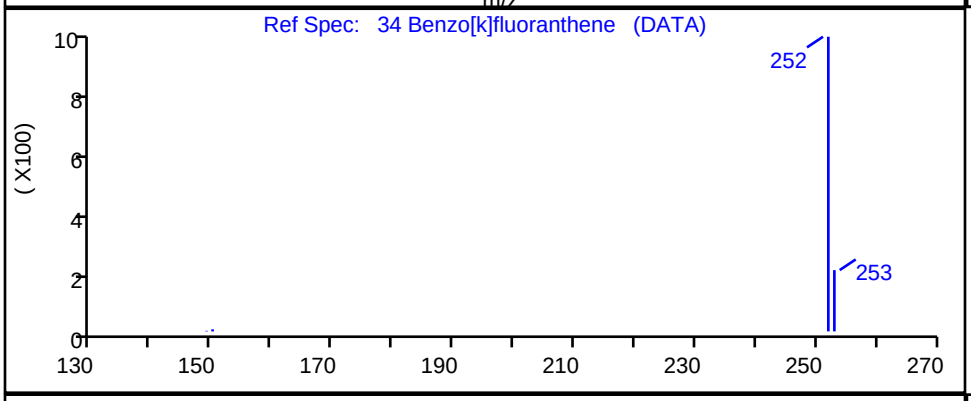
34 Benzo[k]fluoranthene, CAS: 207-08-9

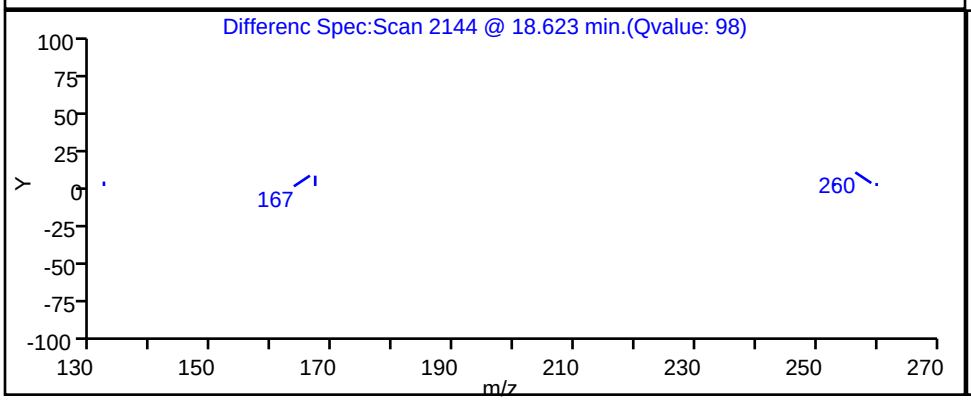


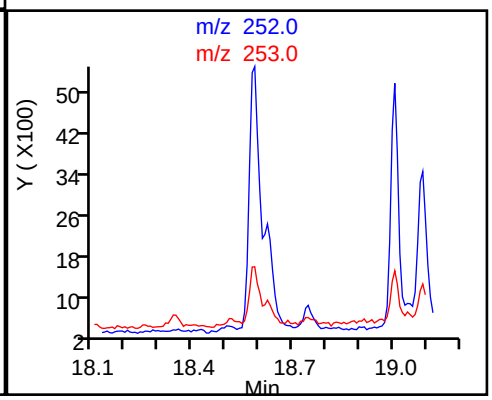












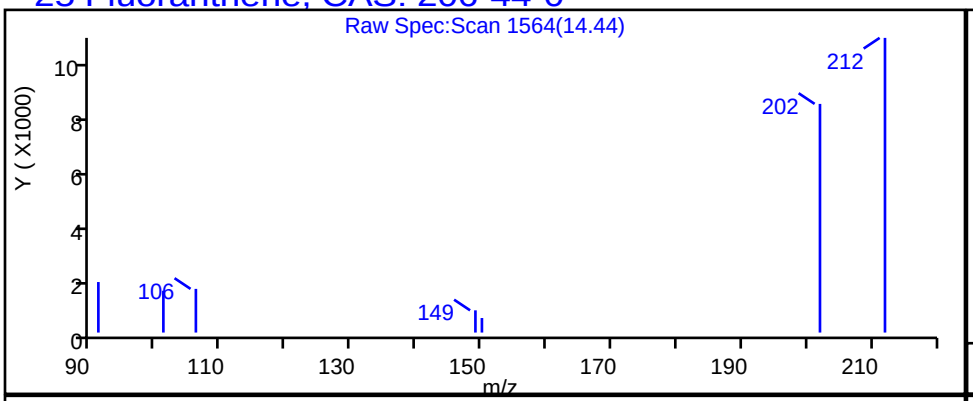
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

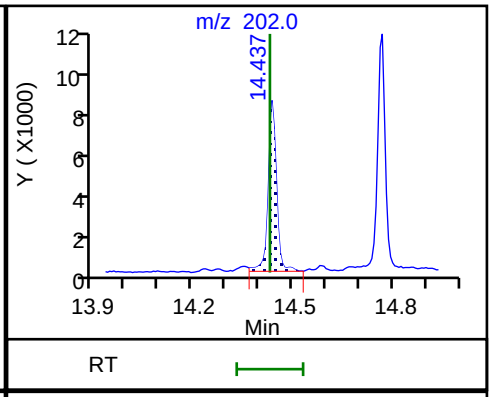
Eurofins Lancaster Laboratories Env, LLC

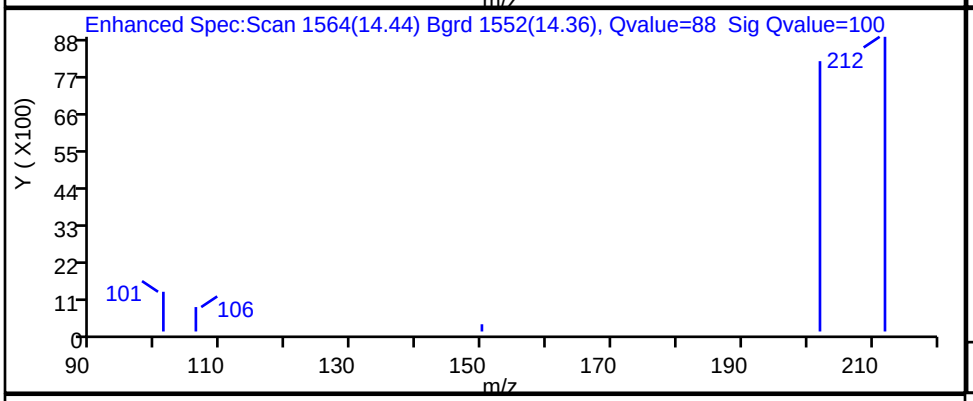
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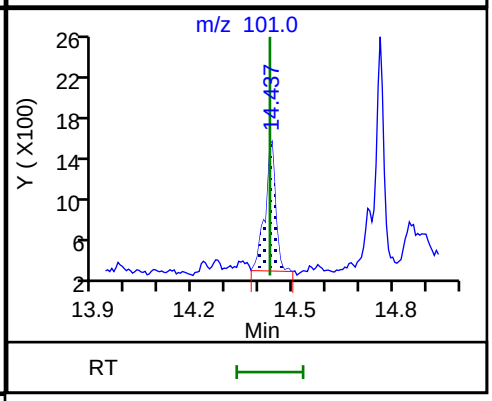
Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

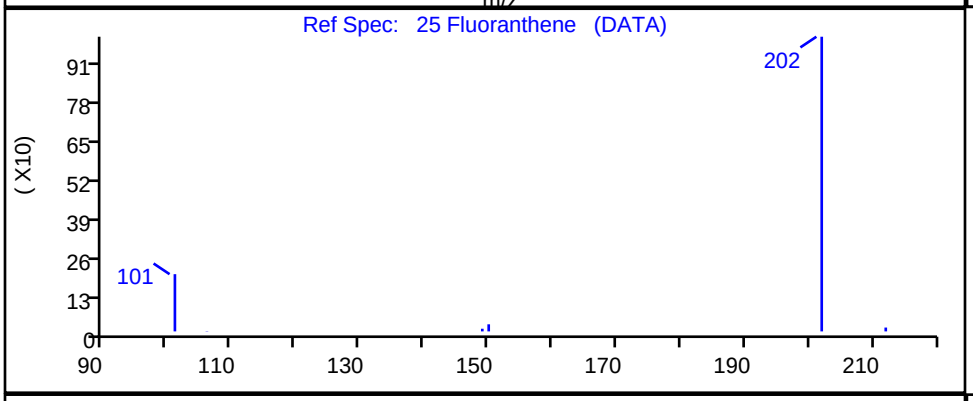
25 Fluoranthene, CAS: 206-44-0

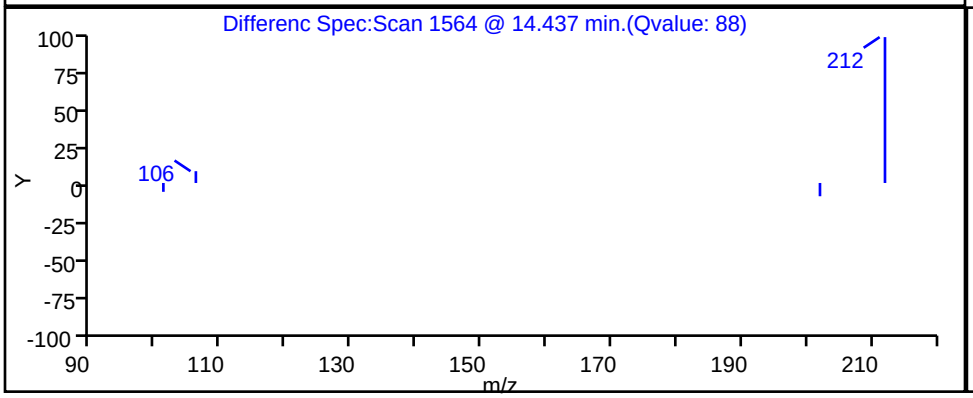


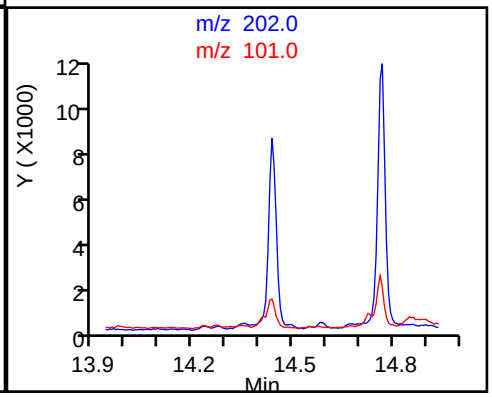








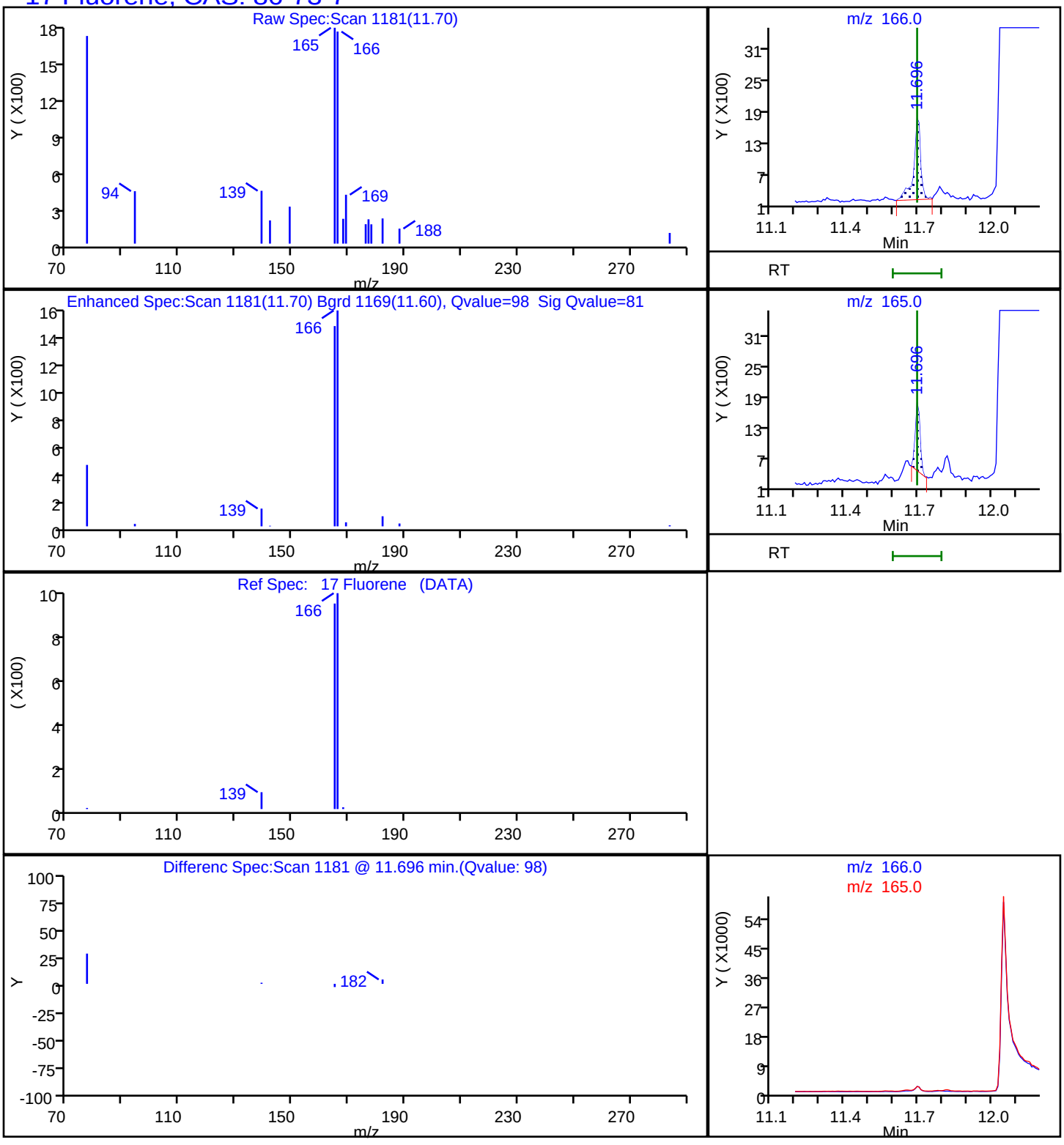




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Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1211.D				
Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
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		

17 Fluorene, CAS: 86-73-7



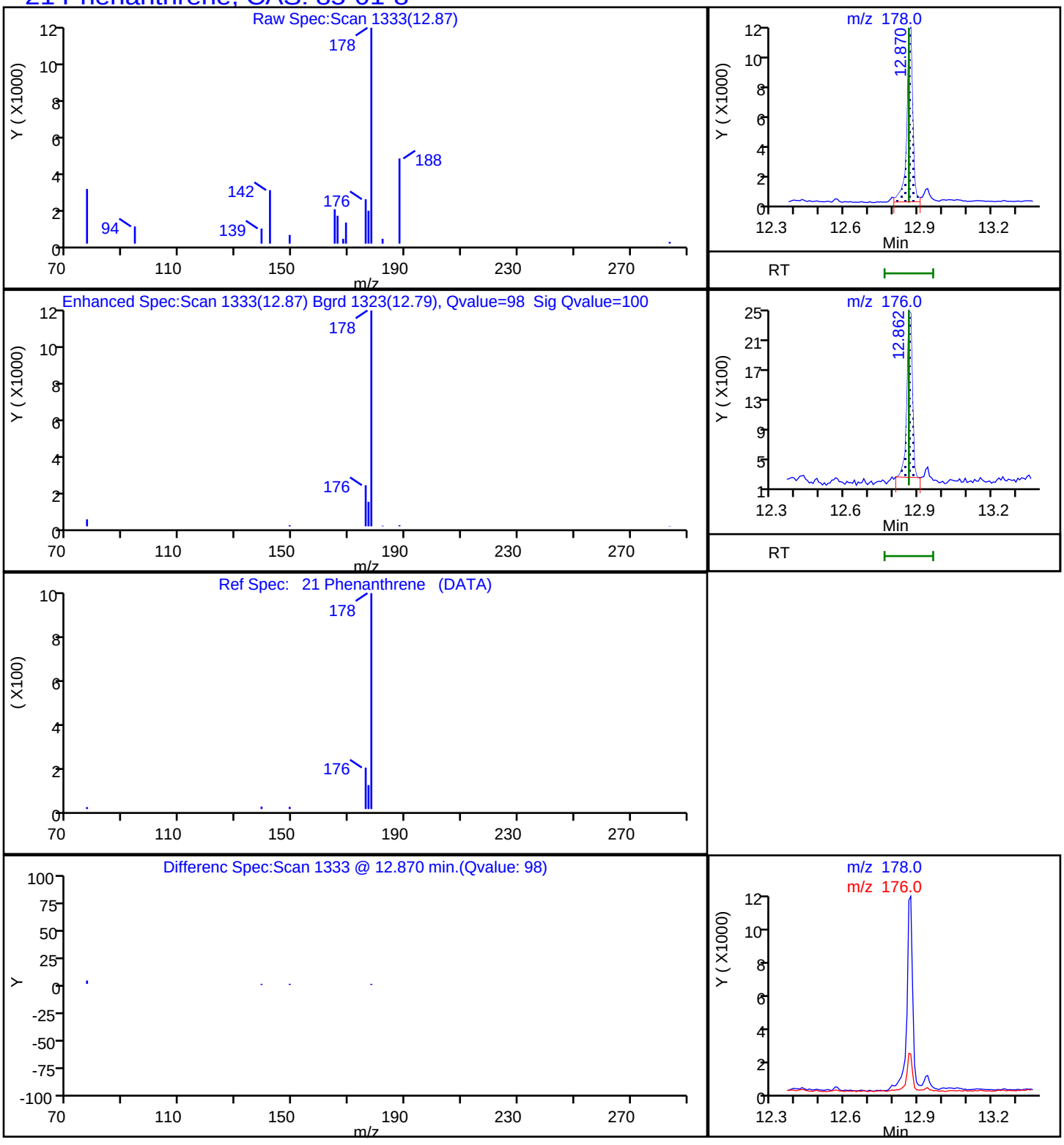
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1211.D

Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
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		

21 Phenanthrene, CAS: 85-01-8



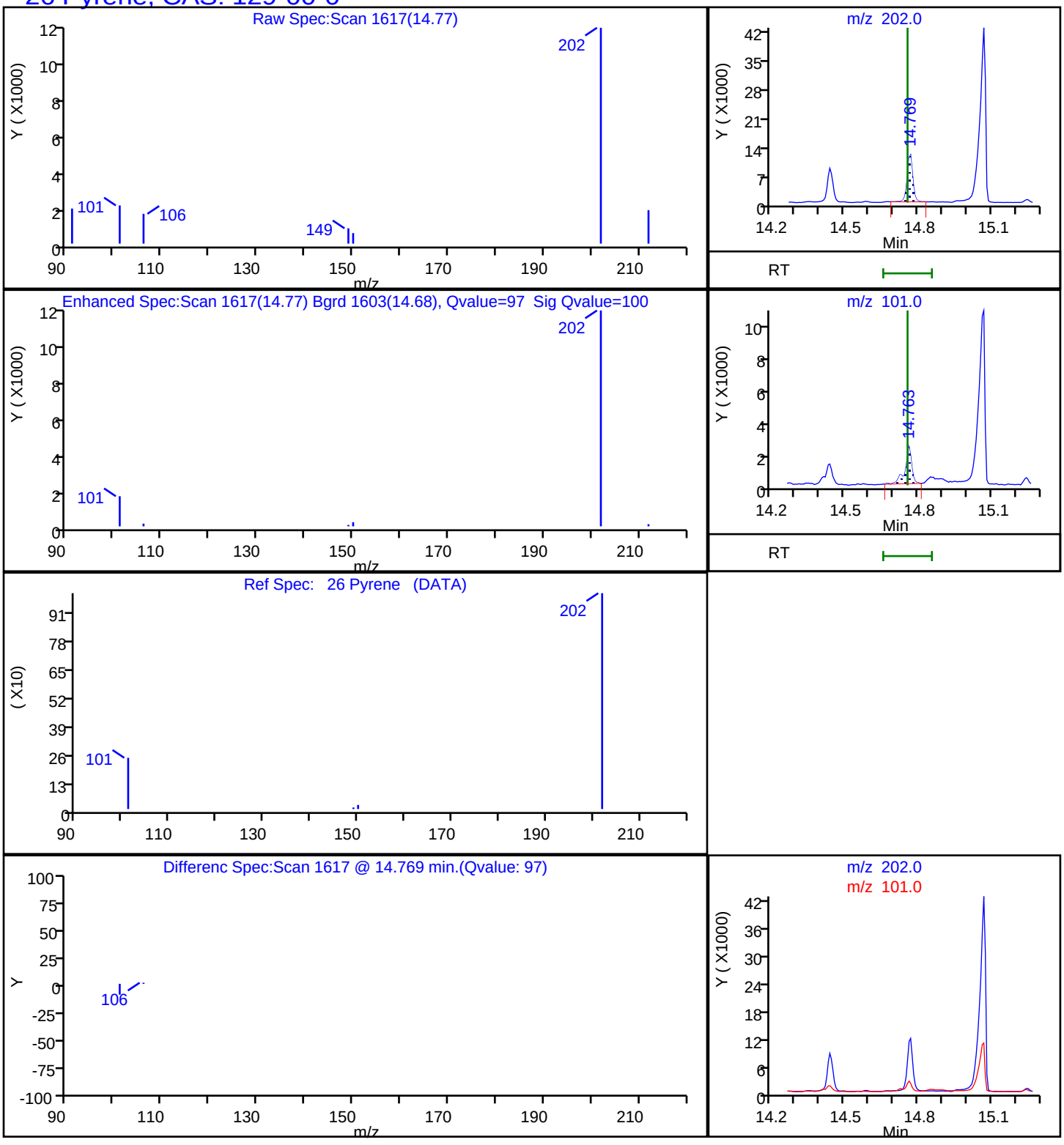
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1211.D

Injection Date:	27-Dec-2021 19:18:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	whs02991	ALS Bottle#:	12	Worklist Smp#:	12
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		

26 Pyrene, CAS: 129-00-0



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-8S-20211220 RE Lab Sample ID: 410-68043-4 RE

Matrix: Ground Water Lab File ID: ML1805.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 16:18

Extract. Method: 3510C Date Extracted: 12/30/2021 09:26

Sample wt/vol: 239.5(mL) Date Analyzed: 12/31/2021 16:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210855 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.22*	*H*	*0.052*	*0.010*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.052*	*0.010*
120-12-7	*Anthracene*	*ND*	*H*	*0.052*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.018*	*J H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.018*	*J H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.029*	*J H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.019*	*J H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.011*	*J H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*0.026*	*J H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*0.040*	*J H*	*0.052*	*0.010*
86-73-7	*Fluorene*	*ND*	*H*	*0.052*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*	*H*	*0.052*	*0.021*
91-20-3	*Naphthalene*	*ND*	*H*	*0.073*	*0.031*
85-01-8	*Phenanthrene*	*0.057*	*J H*	*0.073*	*0.031*
129-00-0	*Pyrene*	*0.046*	*J H*	*0.052*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	85		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	87		36-111
93951-69-0	Fluoranthene-d10 (Surr)	94		47-128

Eurofins Lancaster Laboratories Environment Testing LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1805.D
Lims ID: 410-68043-B-4-A
Client ID: MW-8S-20211220
Sample Type: Client
Inject. Date: 31-Dec-2021 16:13:26 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-B-4-A
Misc. Info.: 410-0047541-006
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jan-2022 12:12:23 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: transuea Date: 04-Jan-2022 13:05:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	91	41118	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	92	127887	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.154	10.166	-0.012	99	64860	0.2184	
* 13 Acenaphthene-d10	164	11.706	11.706	0.000	89	88956	0.2500	
14 Acenaphthene	154	11.743	11.755	-0.012	92	21376	0.0515	
* 20 Phenanthrene-d10	188	13.597	13.597	0.000	95	193502	0.2500	
21 Phenanthrene	178	13.628	13.628	0.000	100	11729	0.0136	M
$ 24 Fluoranthene-d10 (Surr)	212	15.269	15.275	-0.006	96	198913	0.2339	
25 Fluoranthene	202	15.300	15.300	0.000	98	9811	0.009472	M
26 Pyrene	202	15.645	15.647	-0.006	96	12478	0.0111	M
28 Benzo[a]anthracene	228	17.673	17.668	0.000	98	4618	0.004239	
* 29 Chrysene-d12	240	17.688	17.696	-0.008	58	218439	0.2500	
30 Chrysene	228	17.734	17.737	-0.008	100	7196	0.006118	M
33 Benzo[b]fluoranthene	252	19.544	19.540	0.000	100	8432	0.006938	M
34 Benzo[k]fluoranthene	252	19.590	19.586	0.000	99	3248	0.002529	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.035	20.038	-0.008	97	194554	0.2121	M
37 Benzo[a]pyrene	252	20.074	20.076	-0.007	100	5109	0.004406	
* 38 Perylene-d12	264	20.173	20.173	0.000	97	253412	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.854	21.842	0.007	97	5234	0.004243	M
42 Benzo[g,h,i]perylene	276	22.299	22.294	0.000	93	6840	0.004651	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

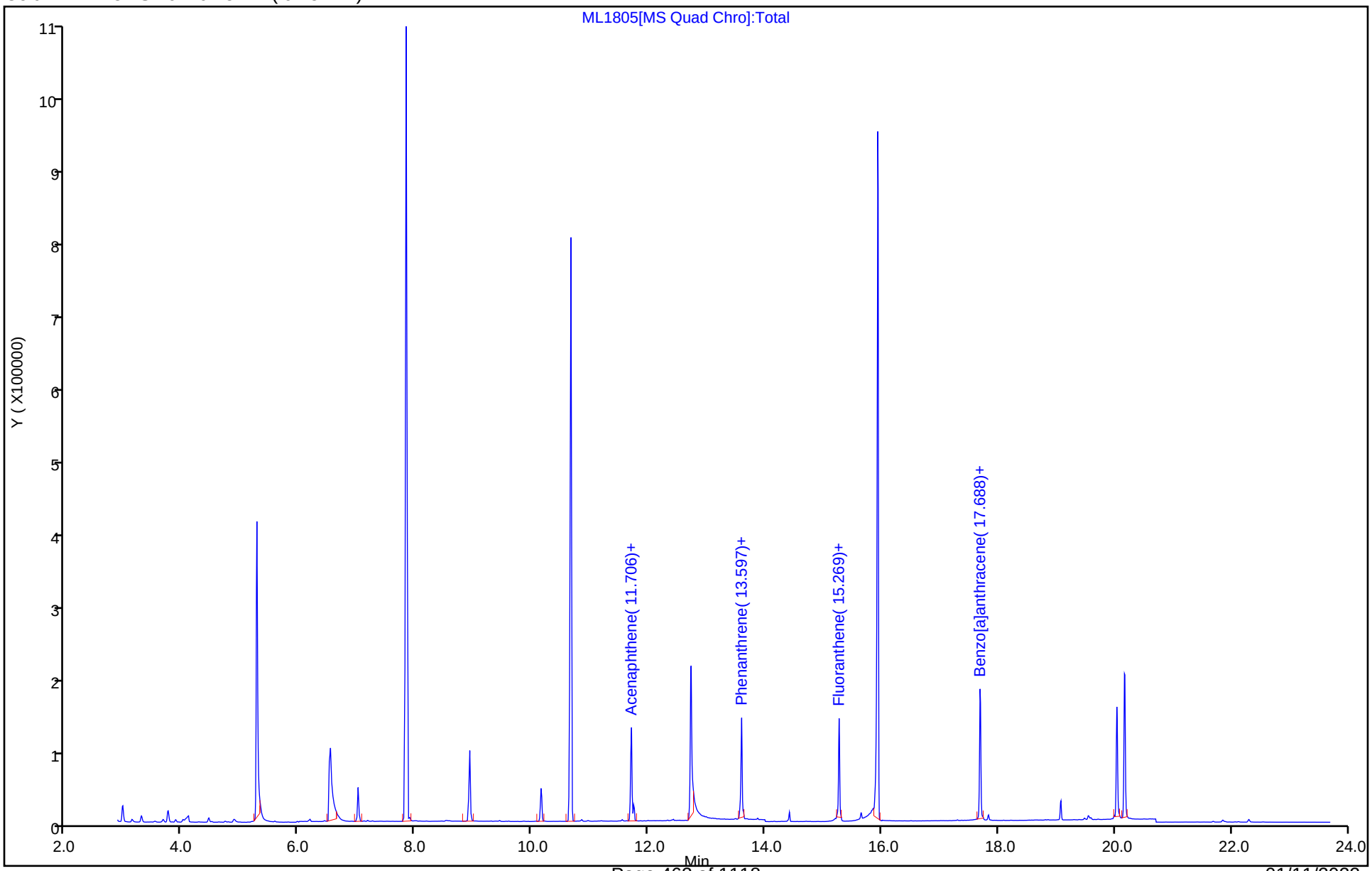
Report Date: 05-Jan-2022 12:12:23 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Environment Testing LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1805.D

Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4	Worklist Smp#:	6
Client ID:	MW-8S-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

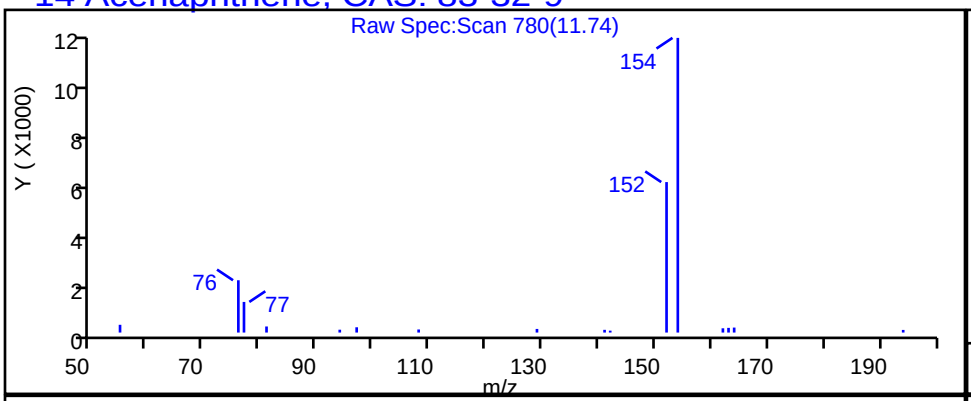
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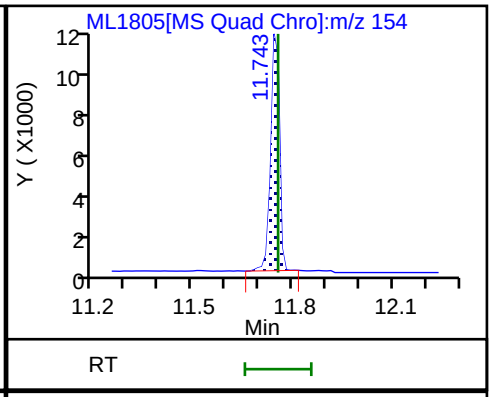


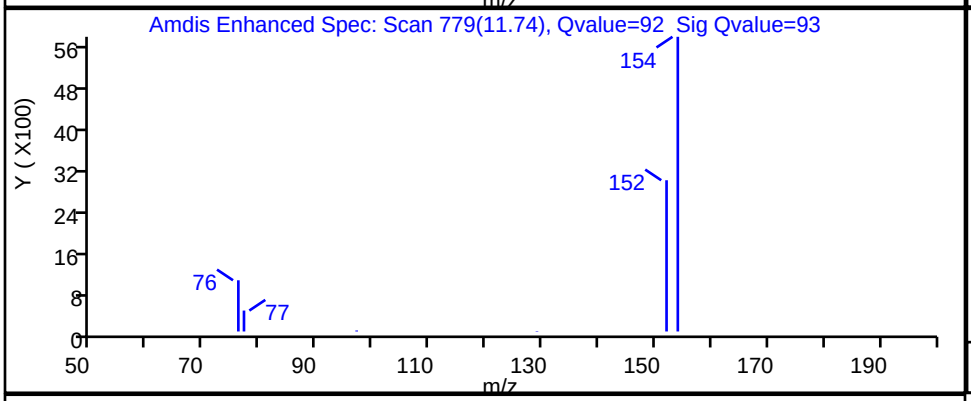
Eurofins Lancaster Laboratories Environment Testing LLC

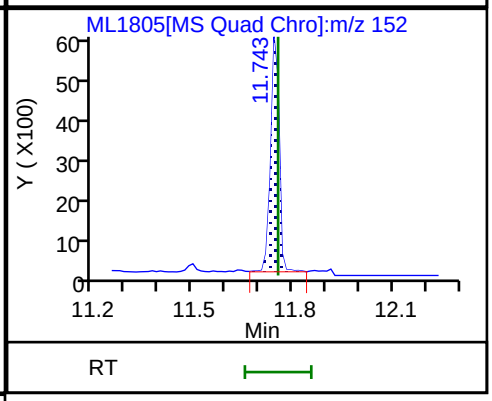
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Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4
Client ID:	MW-8S-20211220		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

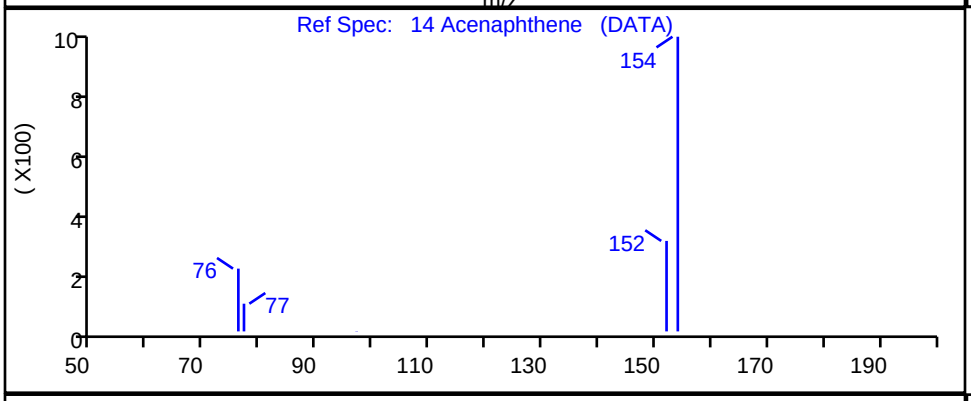
14 Acenaphthene, CAS: 83-32-9

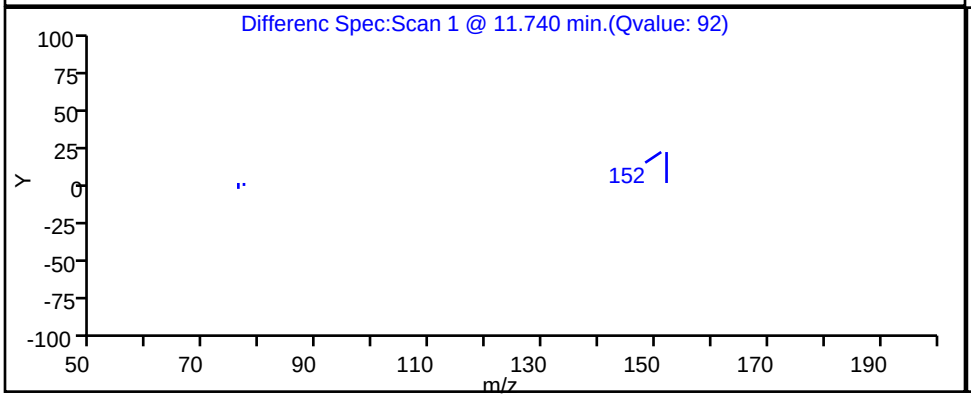


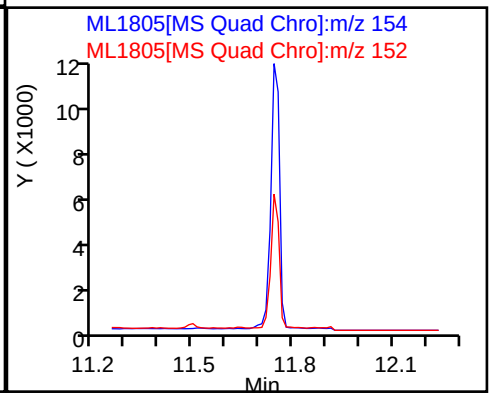








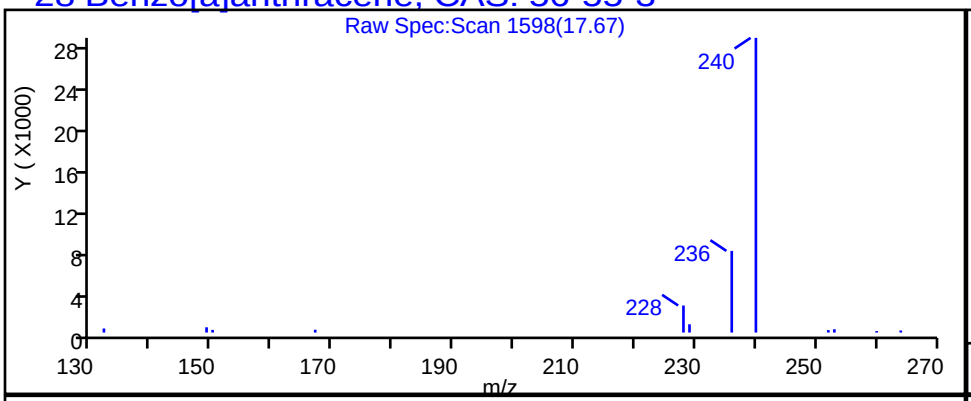


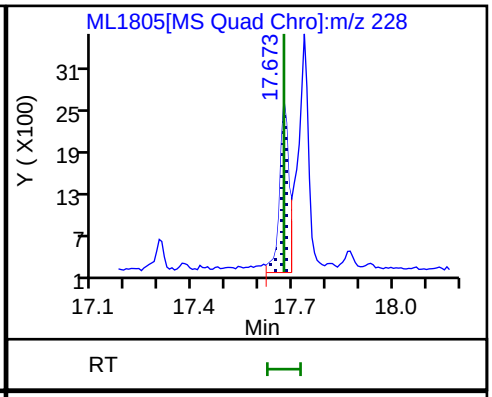


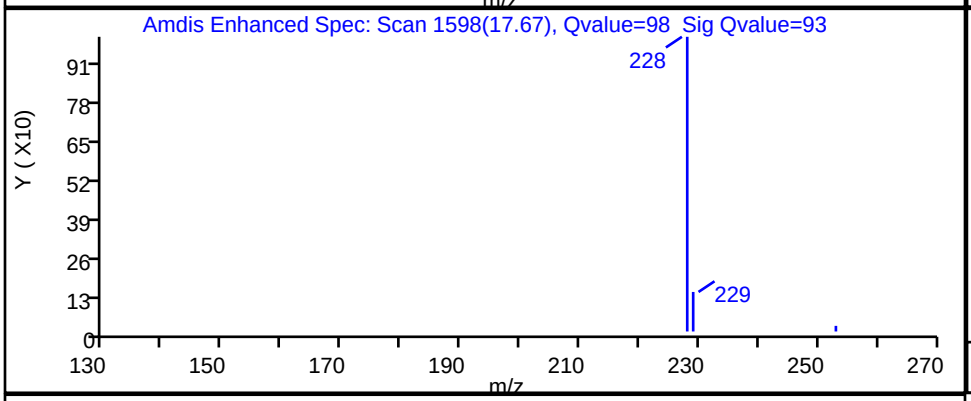
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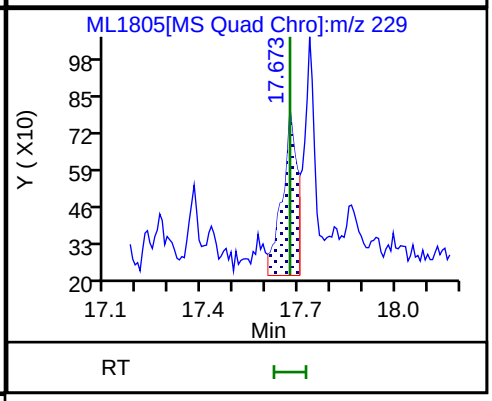
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
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Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

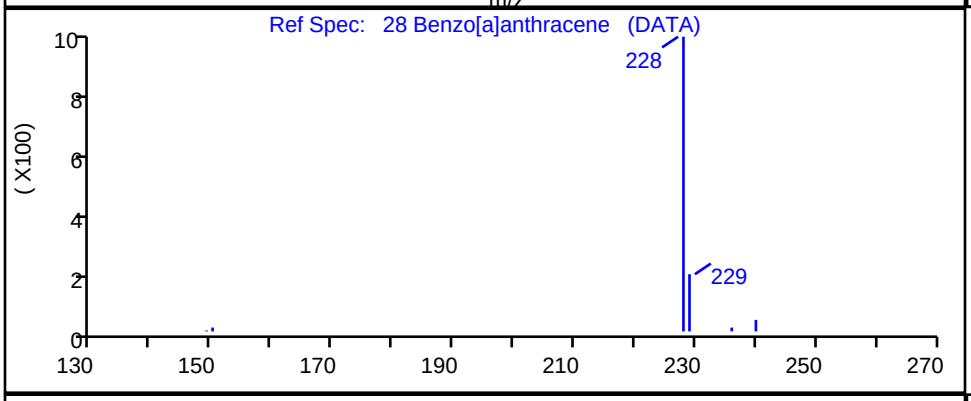
28 Benzo[a]anthracene, CAS: 56-55-3

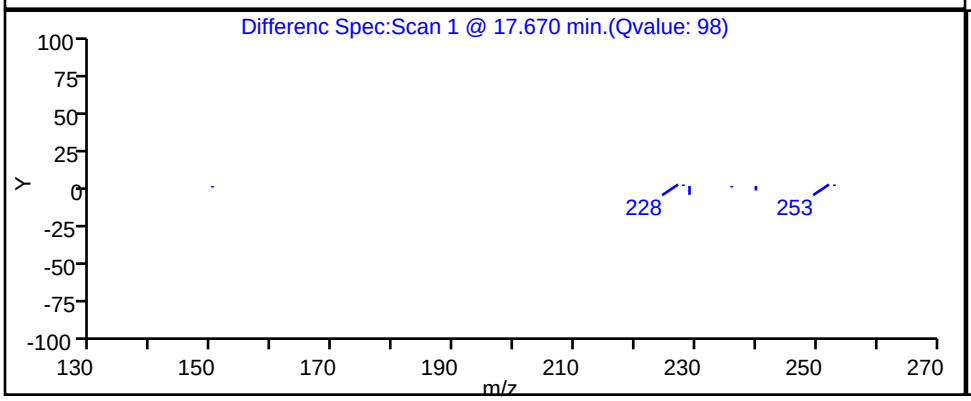


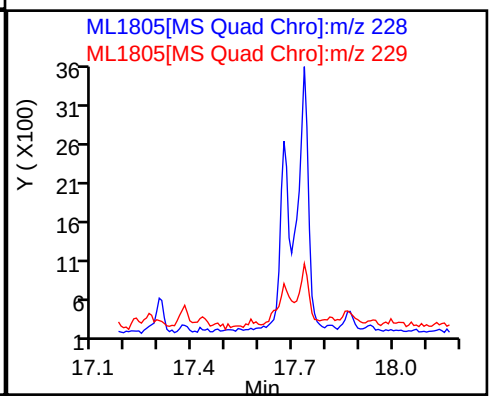










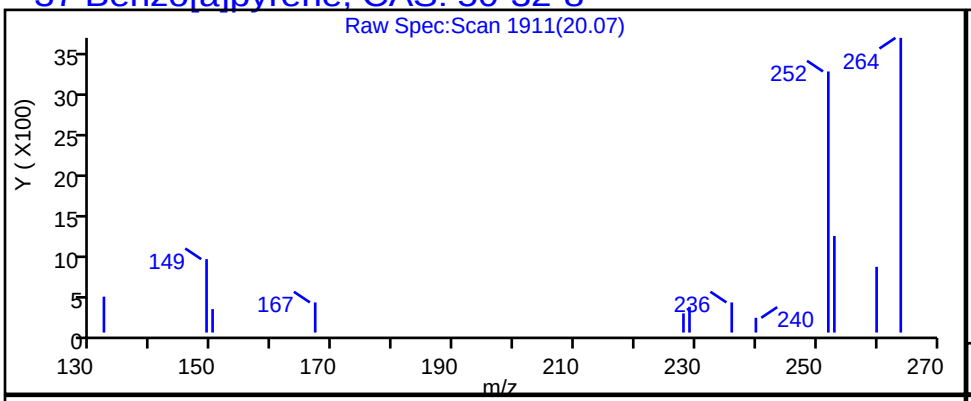


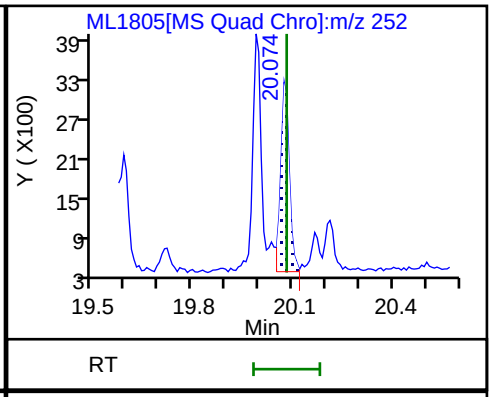
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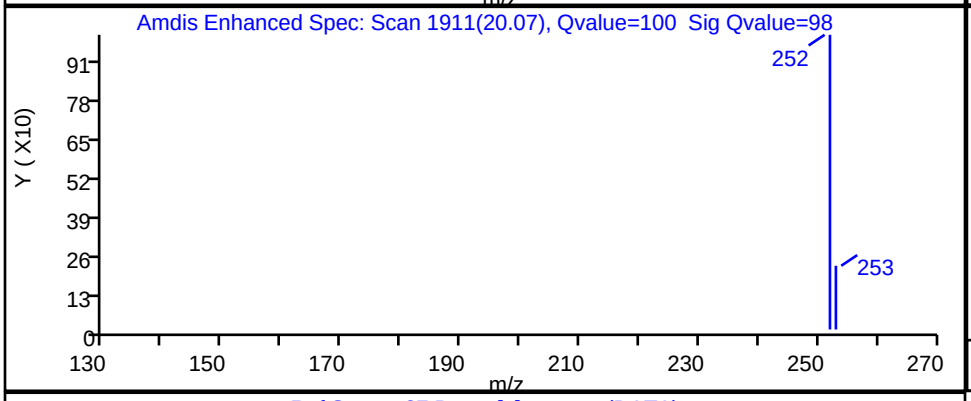
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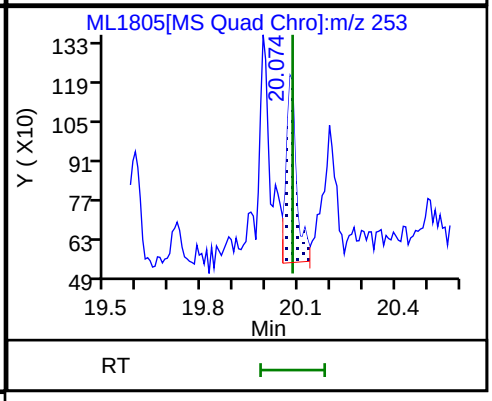
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Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

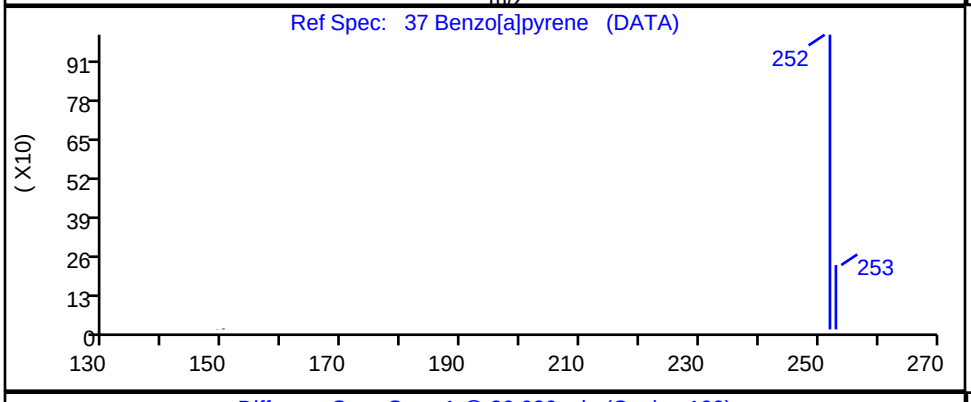
37 Benzo[a]pyrene, CAS: 50-32-8

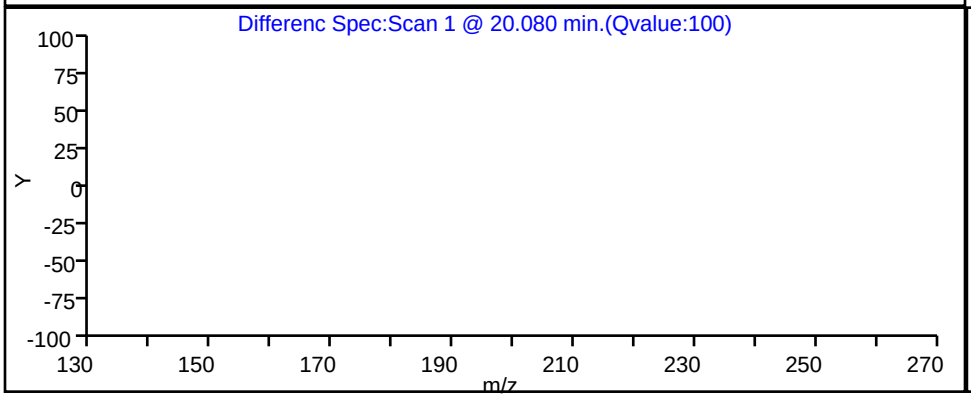


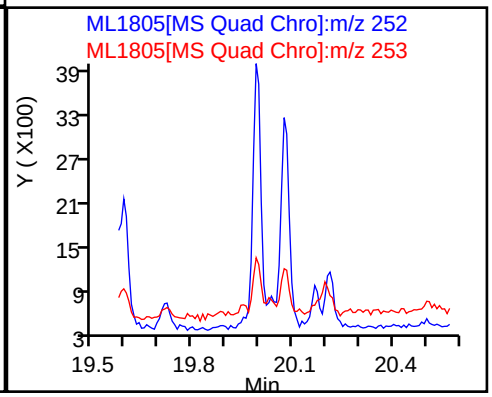








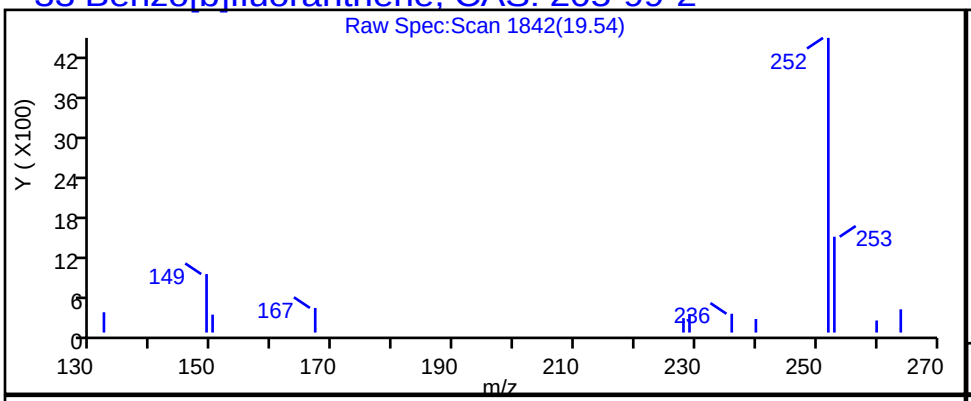


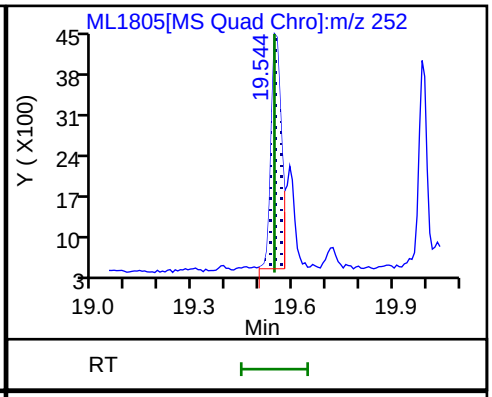


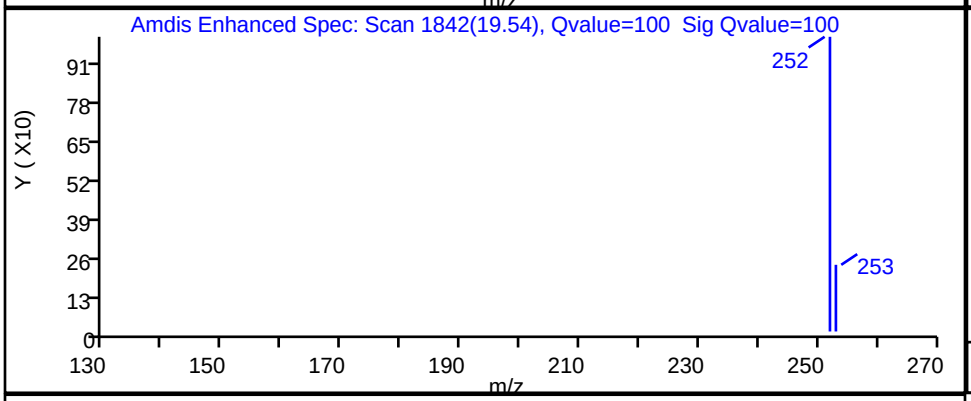
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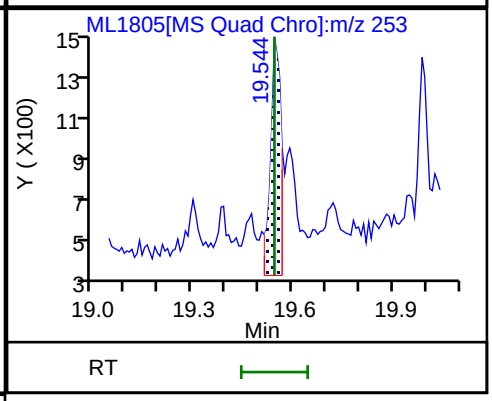
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Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

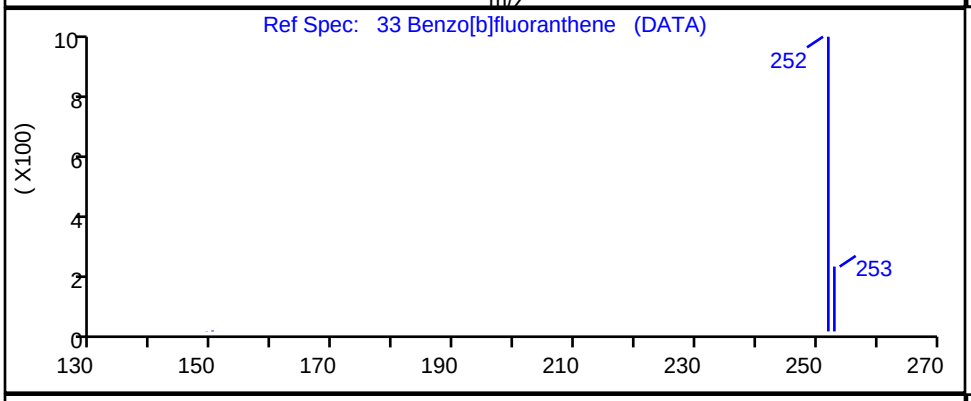
33 Benzo[b]fluoranthene, CAS: 205-99-2

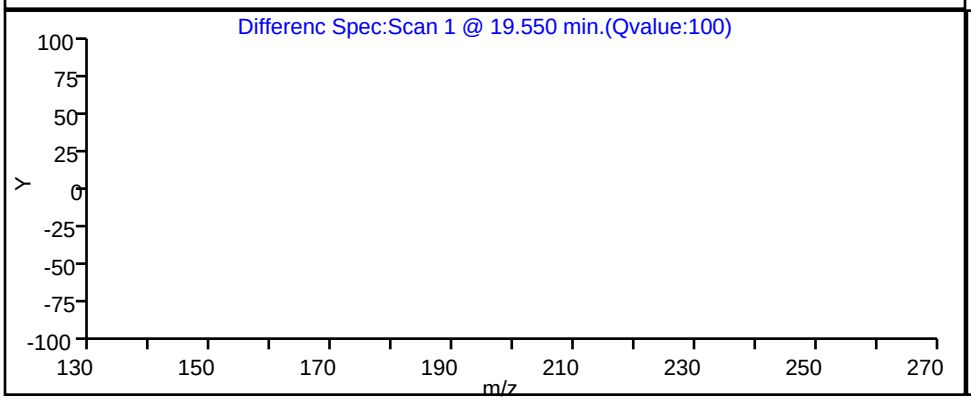


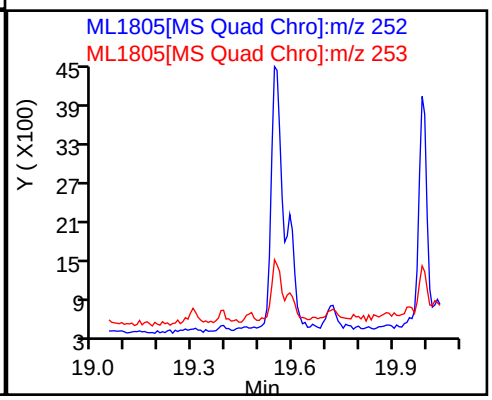












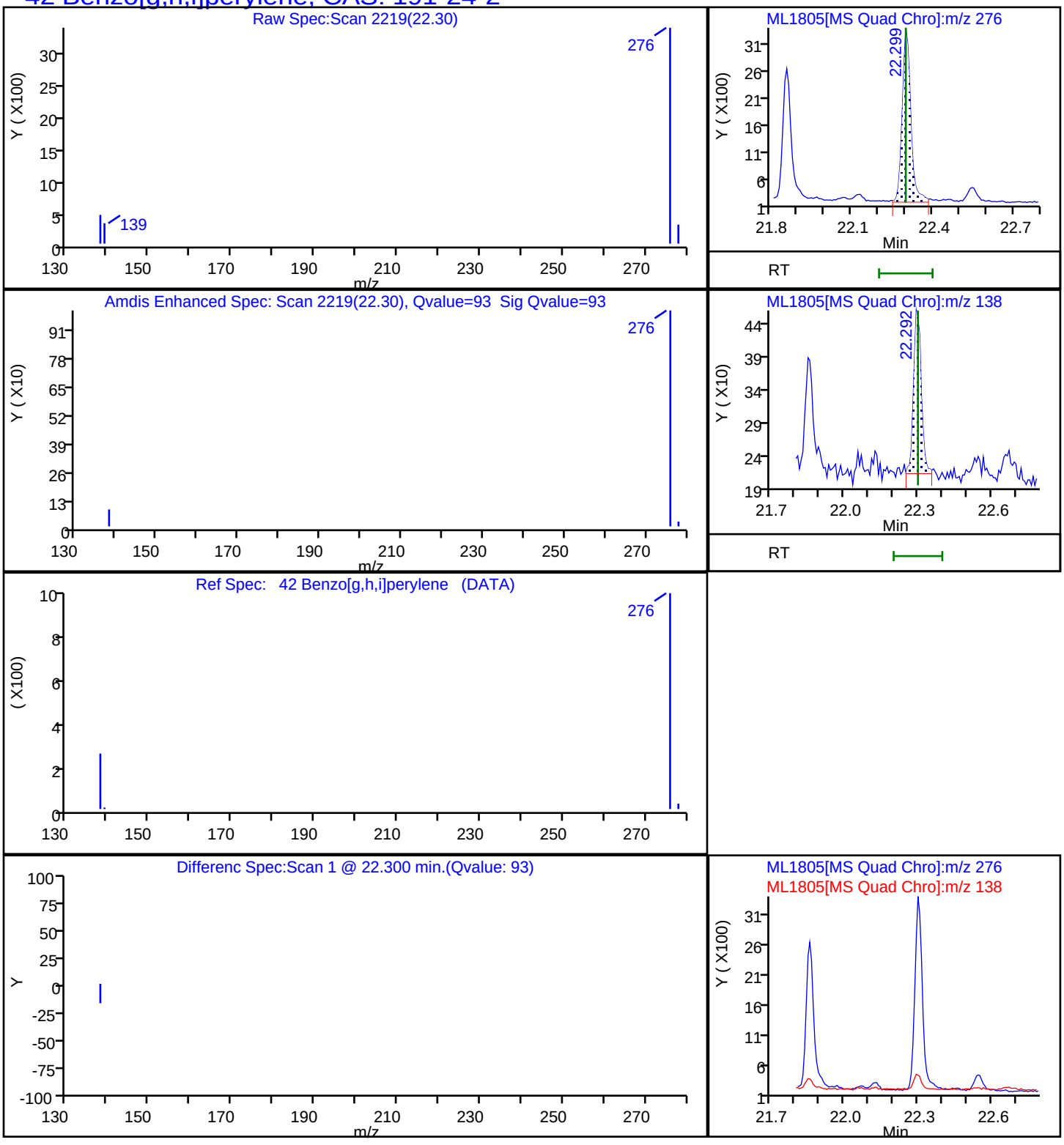
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Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1805.D

Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
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Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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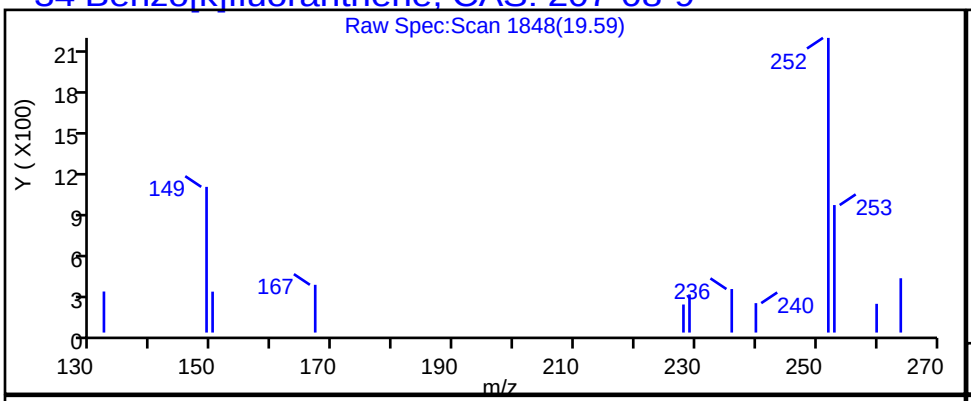
42 Benzo[g,h,i]perylene, CAS: 191-24-2

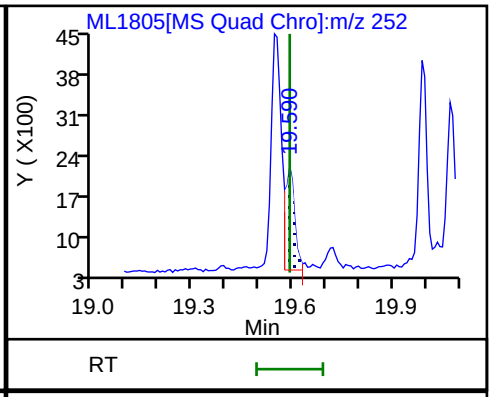


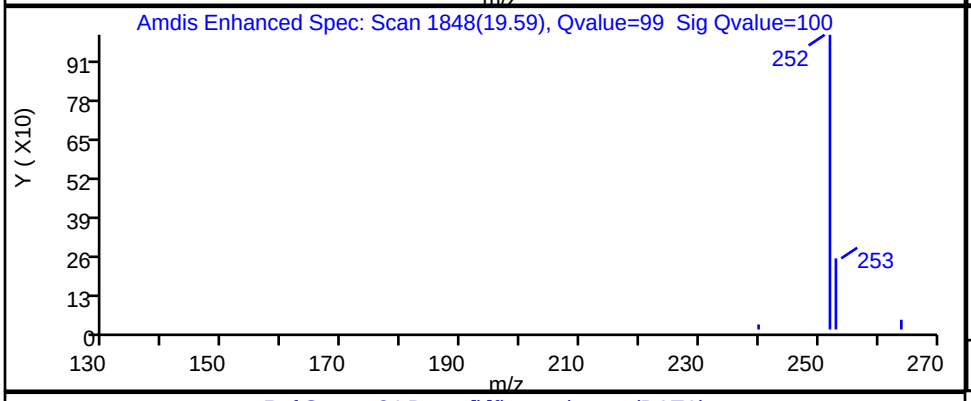
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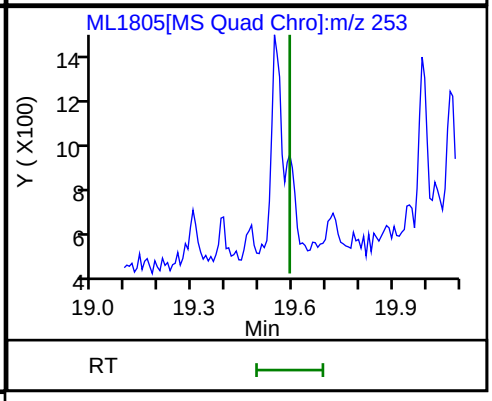
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

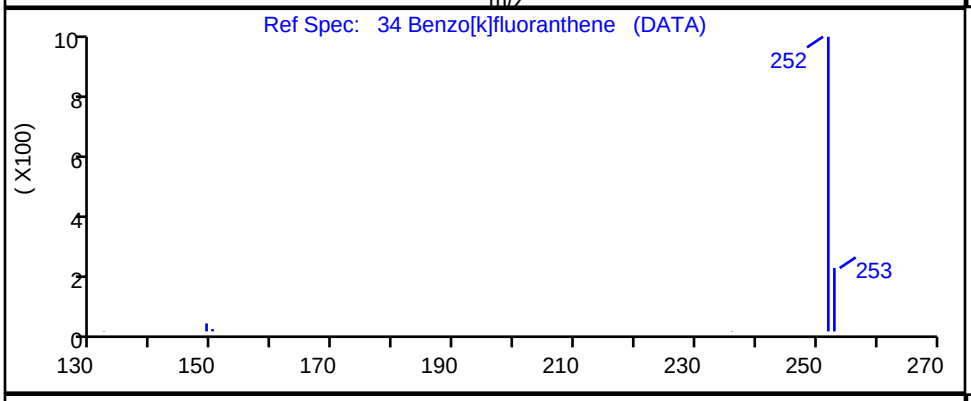
34 Benzo[k]fluoranthene, CAS: 207-08-9

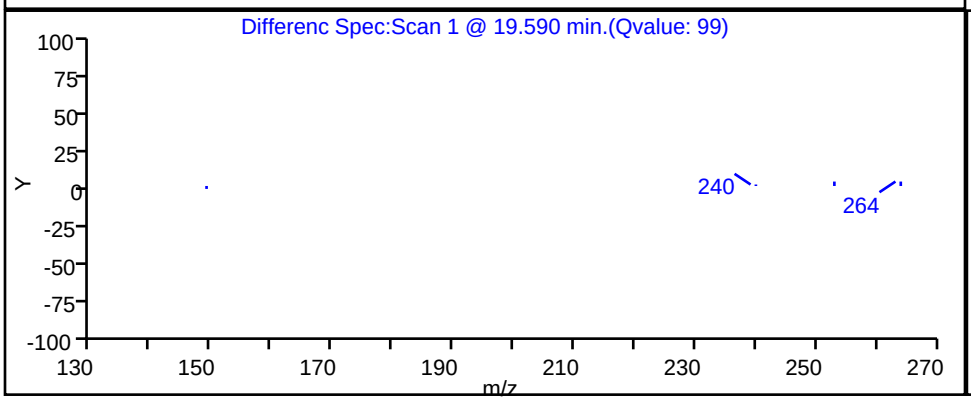


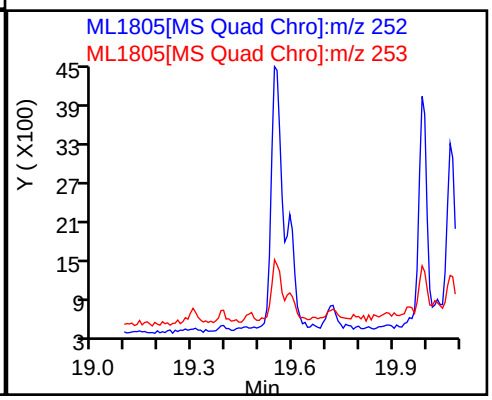








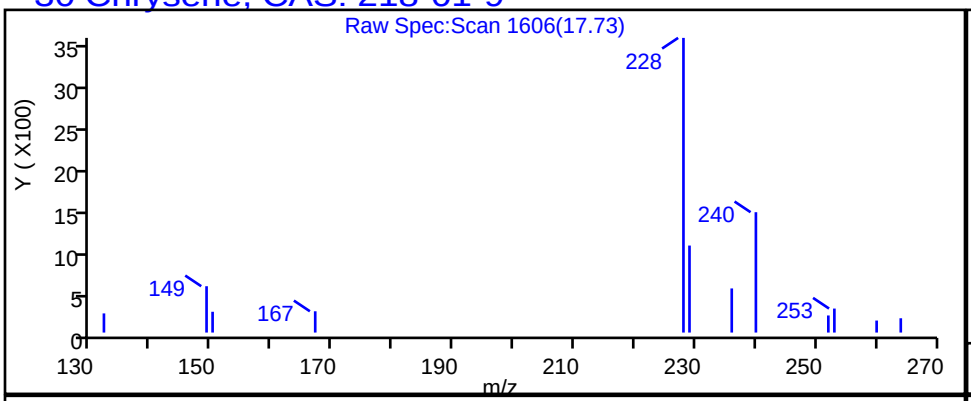


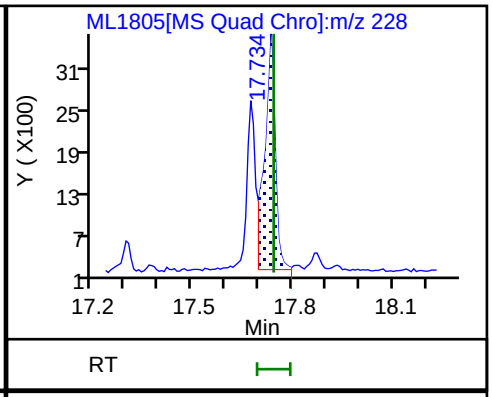


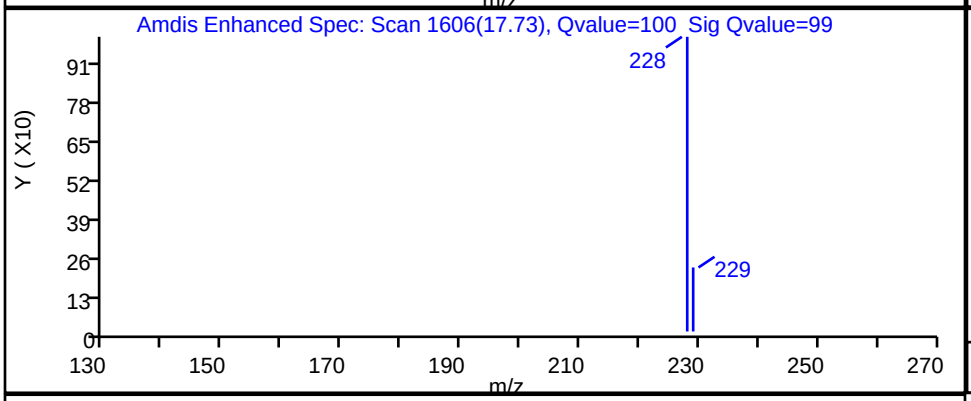
Eurofins Lancaster Laboratories Environment Testing LLC

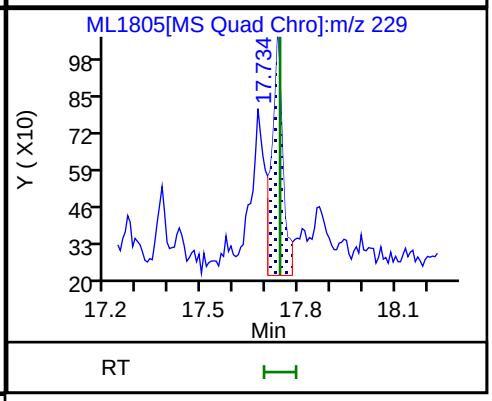
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Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

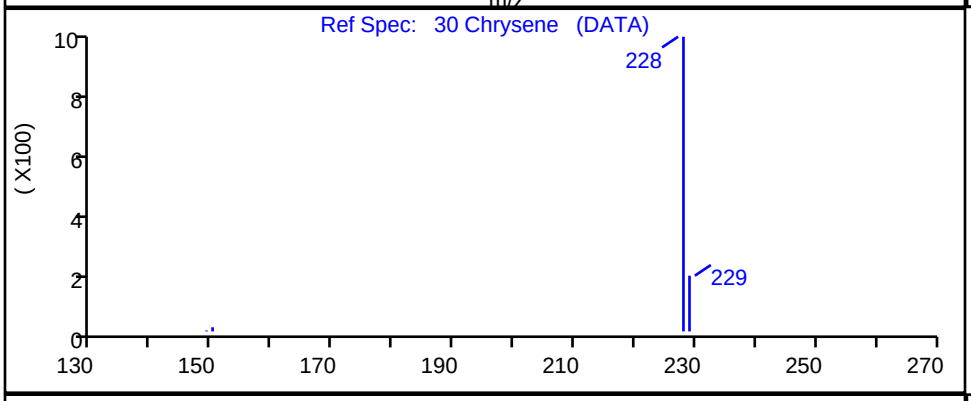
30 Chrysene, CAS: 218-01-9

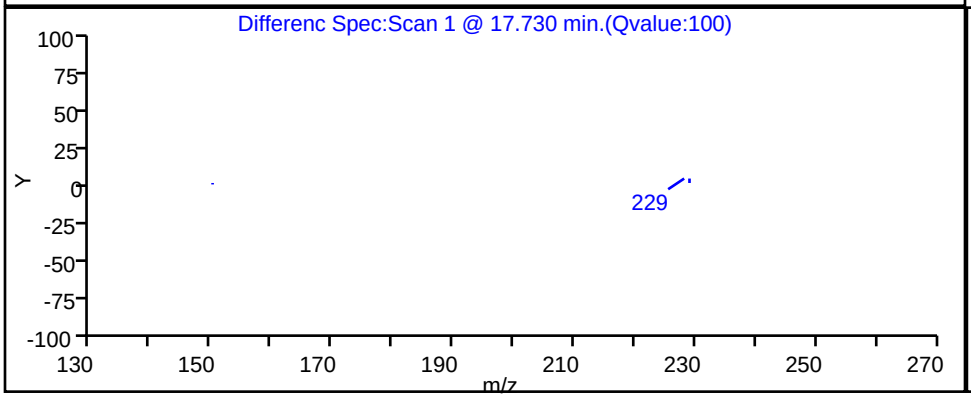


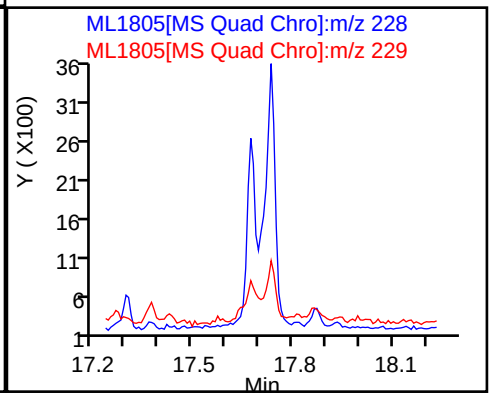








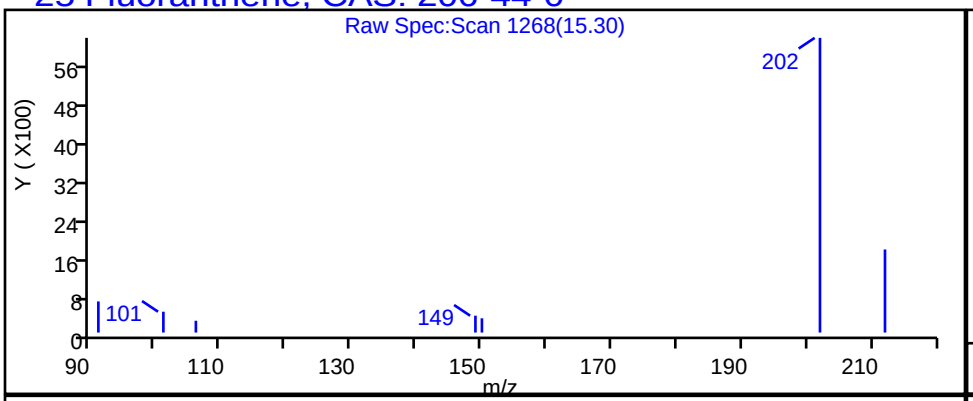


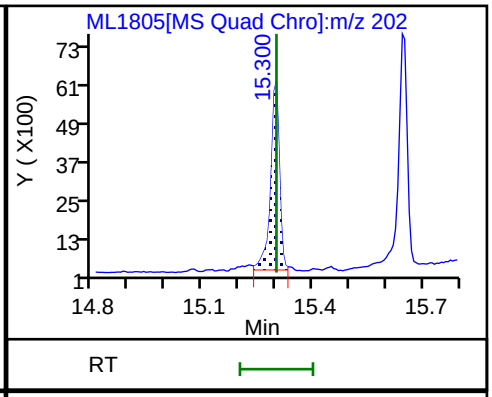


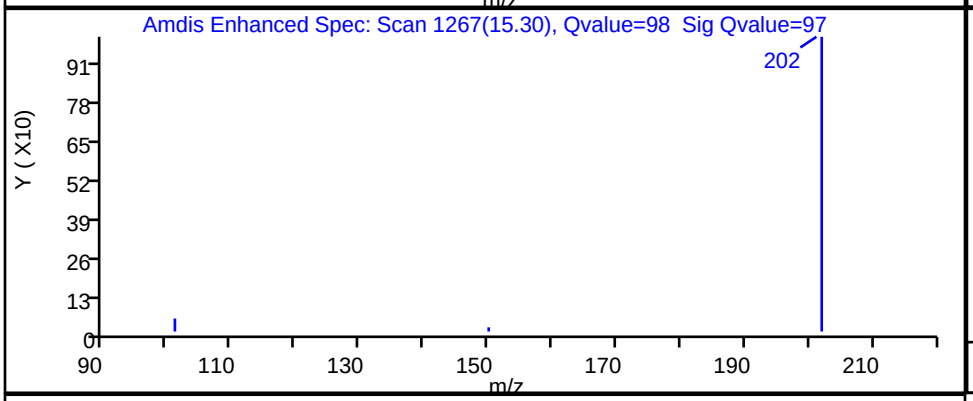
Eurofins Lancaster Laboratories Environment Testing LLC

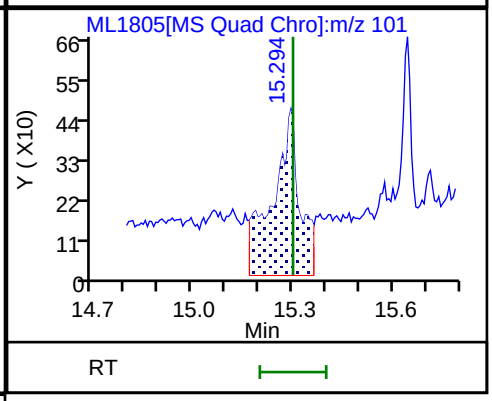
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

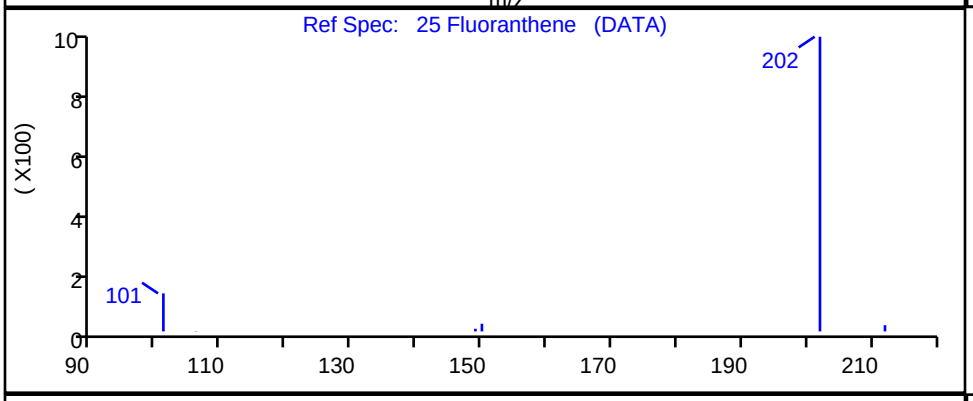
25 Fluoranthene, CAS: 206-44-0

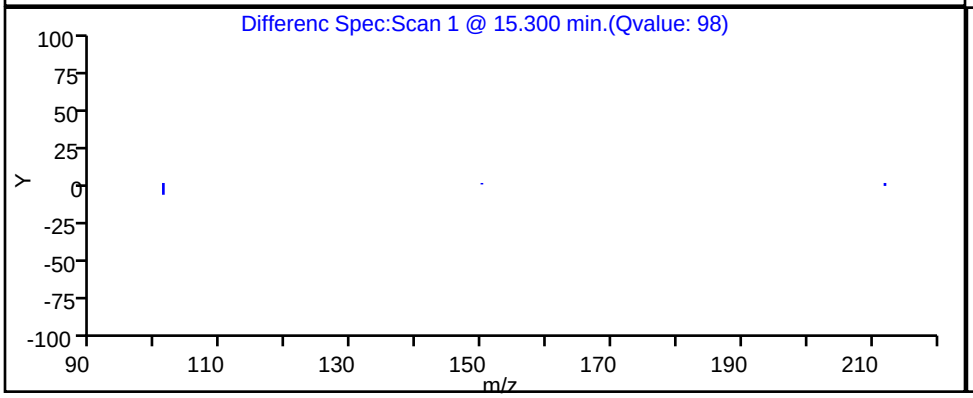


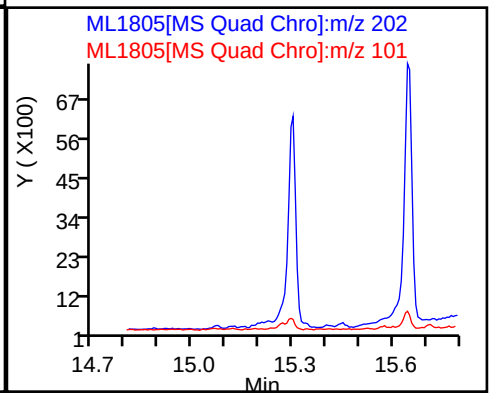










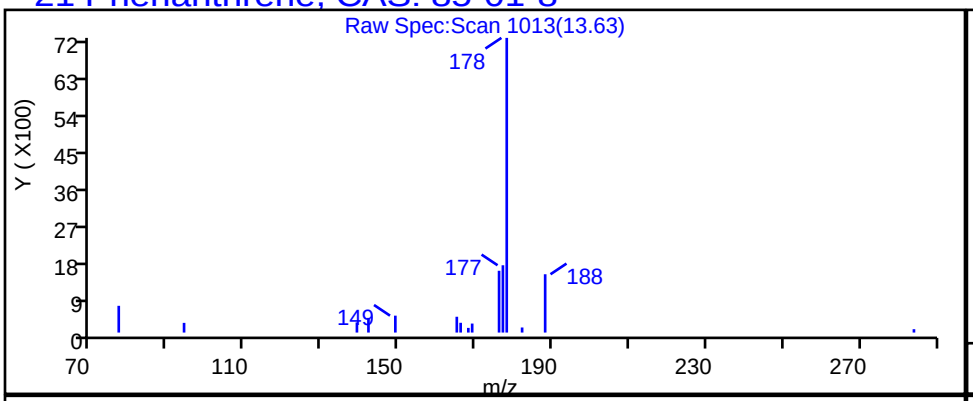


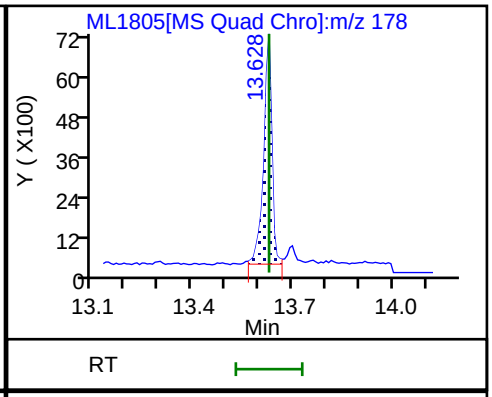
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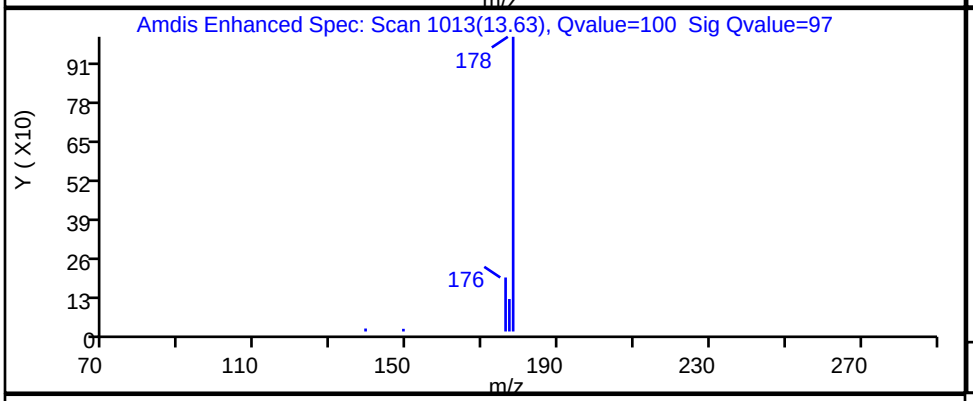
Eurofins Lancaster Laboratories Environment Testing LLC

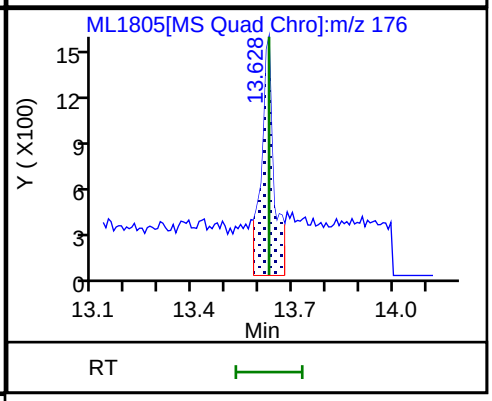
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Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

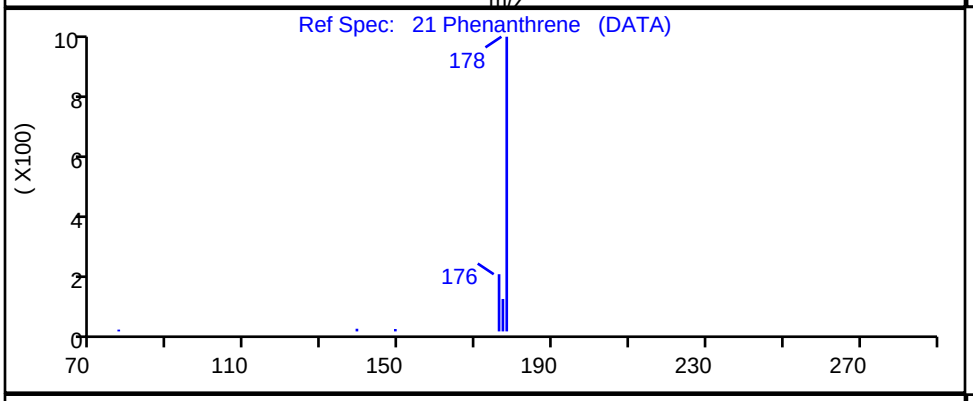
21 Phenanthrene, CAS: 85-01-8

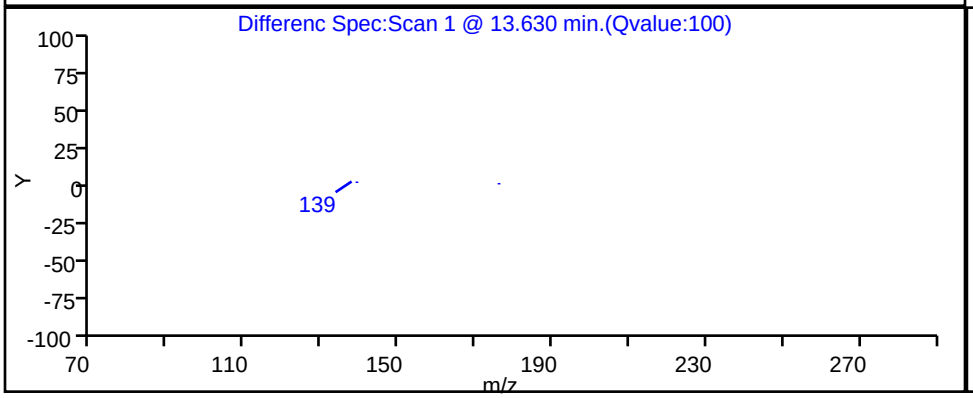


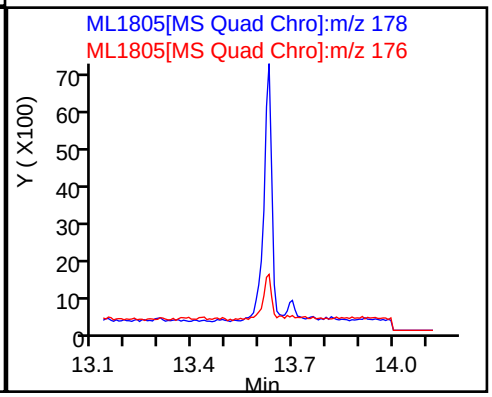












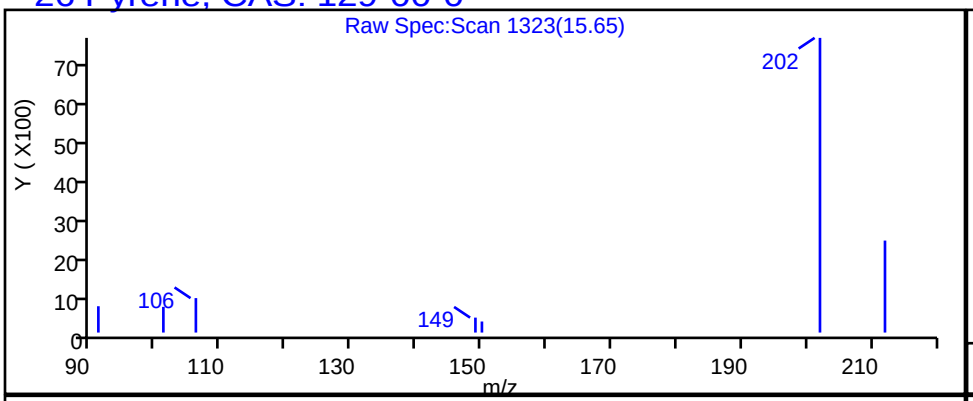
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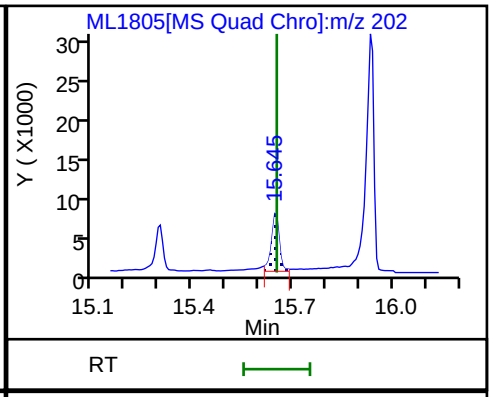
Eurofins Lancaster Laboratories Environment Testing LLC

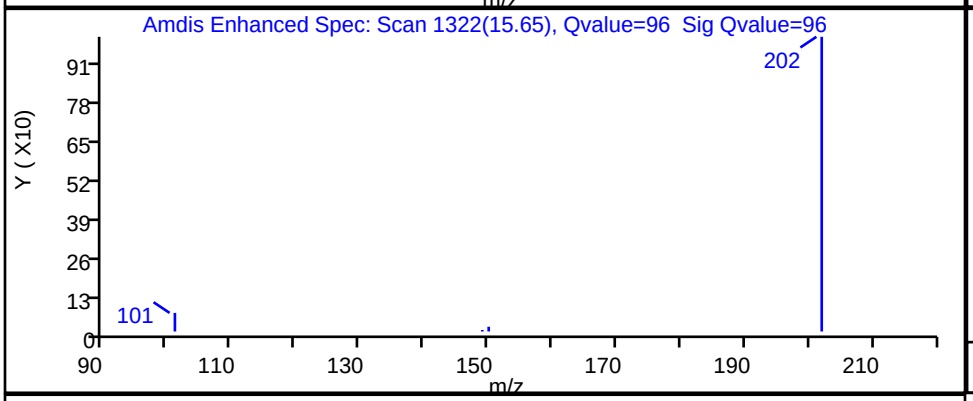
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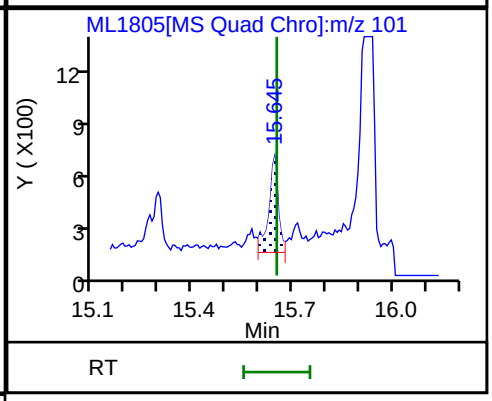
Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4
Client ID:	MW-8S-20211220		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

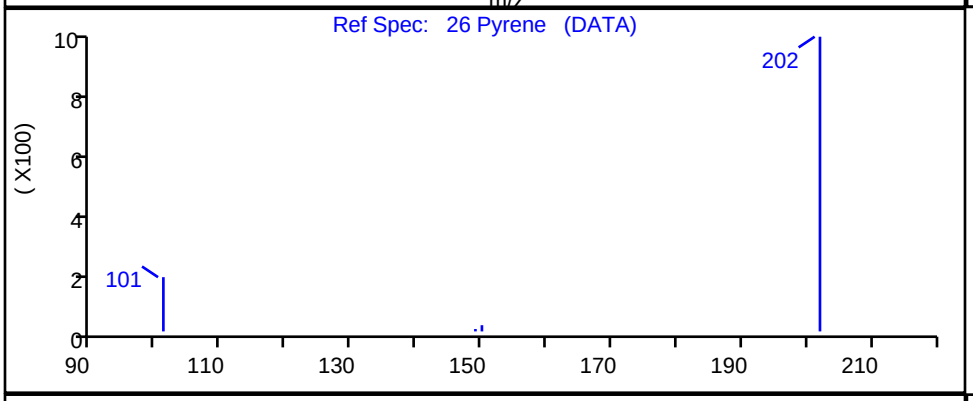
26 Pyrene, CAS: 129-00-0

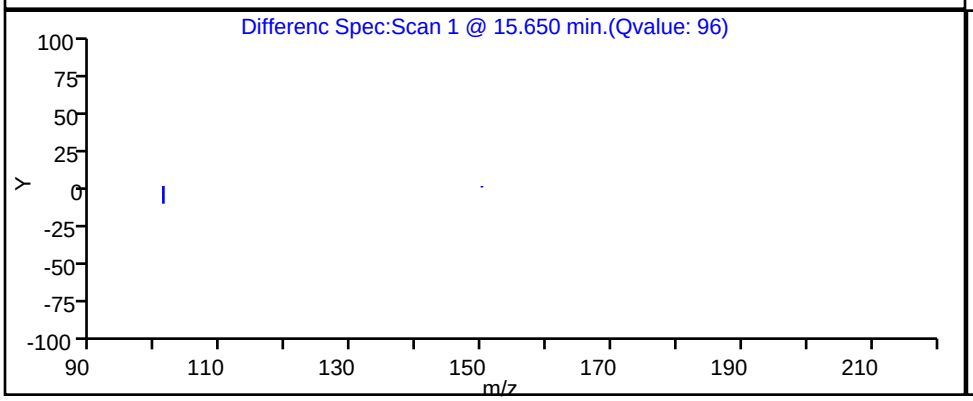


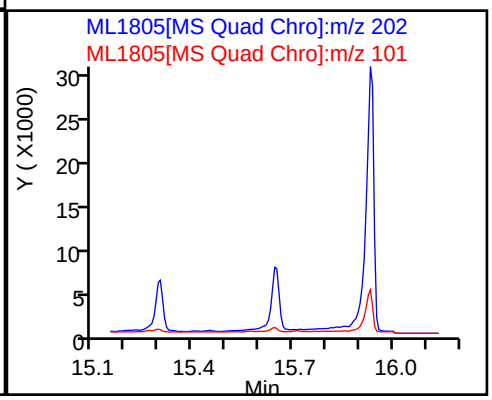












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

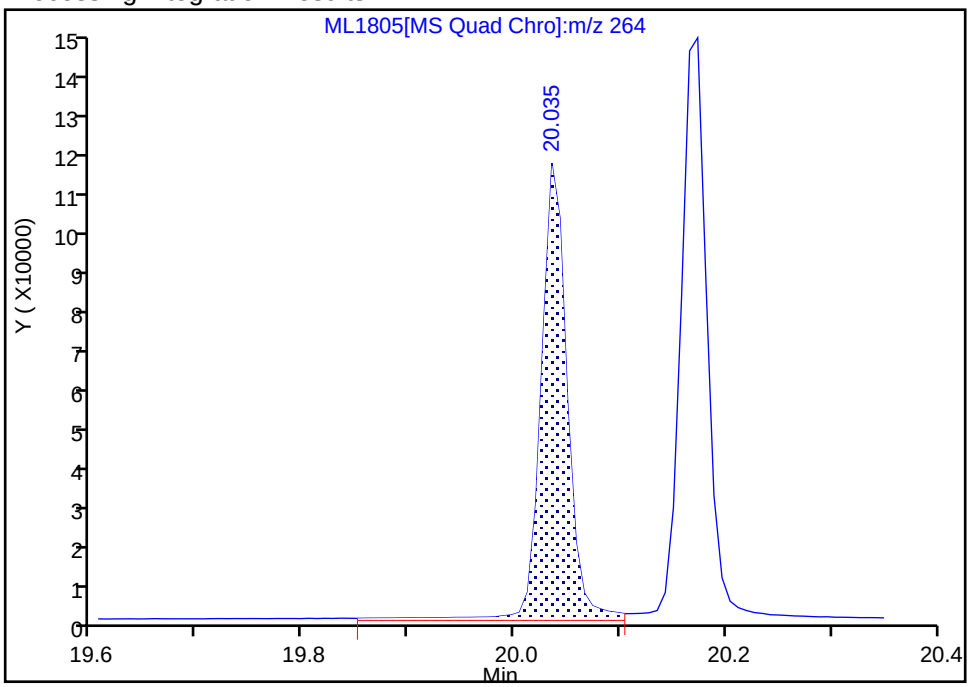
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Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

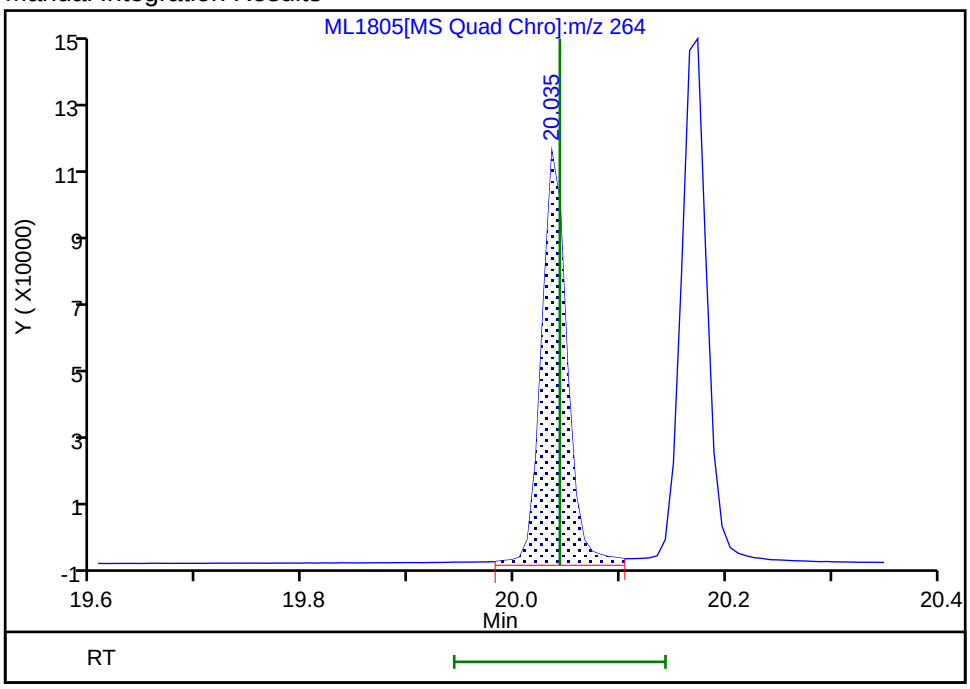
Processing Integration Results

RT: 20.04
Area: 198594
Amount: 0.216462
Amount Units: ug/ml



Manual Integration Results

RT: 20.04
Area: 194554
Amount: 0.212059
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:05:02

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

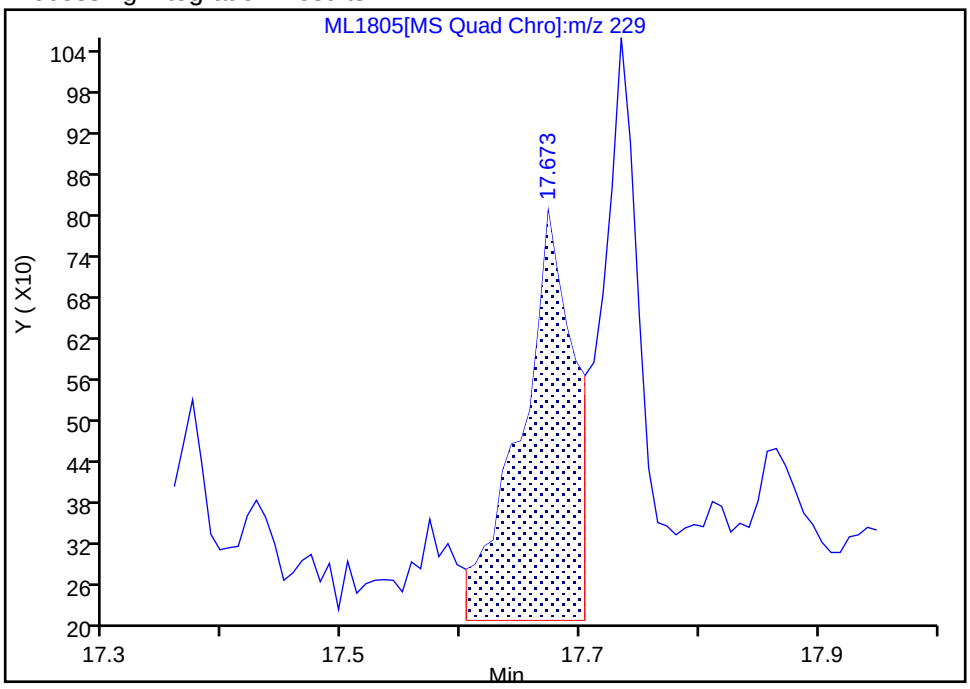
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Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 2

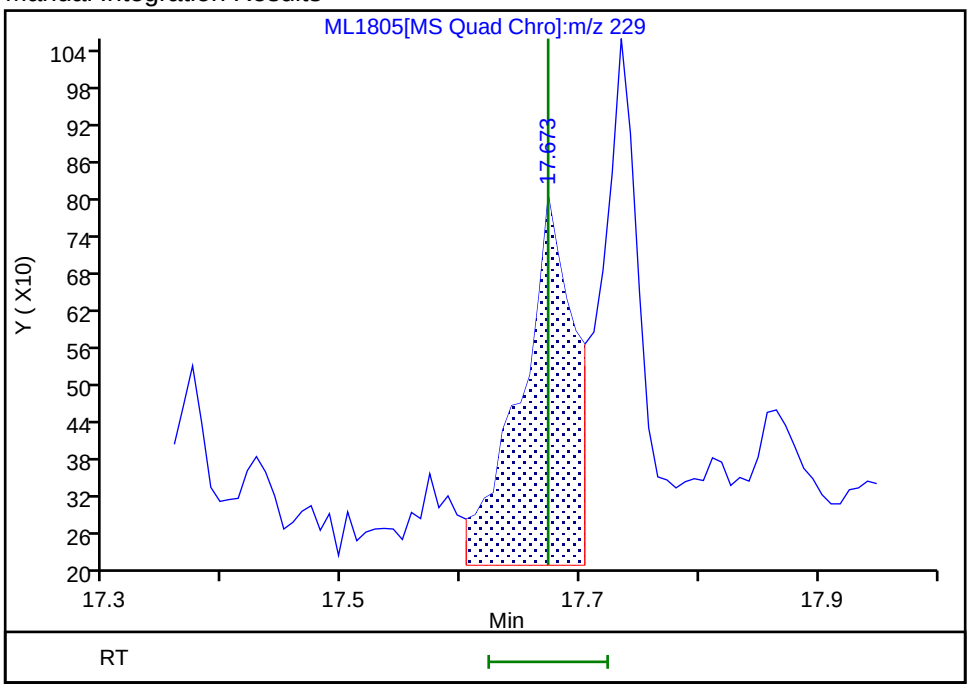
Processing Integration Results

RT: 17.67
Area: 1818
Amount: 0.004239
Amount Units: ug/ml



Manual Integration Results

RT: 17.67
Area: 1818
Amount: 0.004239
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:04:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

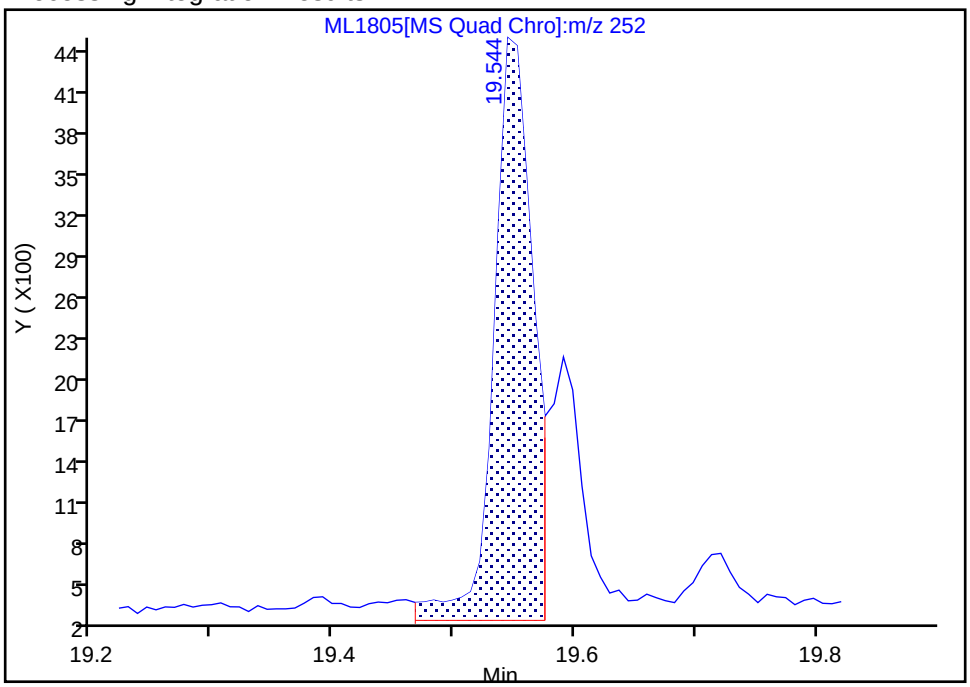
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

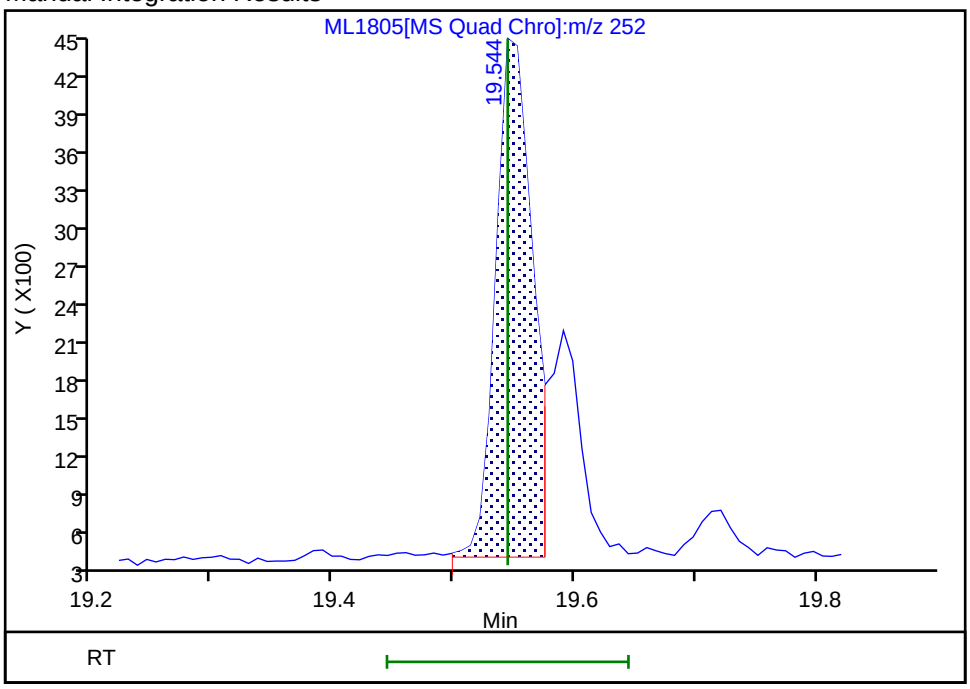
Processing Integration Results

RT: 19.54
Area: 9207
Amount: 0.007576
Amount Units: ug/ml



Manual Integration Results

RT: 19.54
Area: 8432
Amount: 0.006938
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:04:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

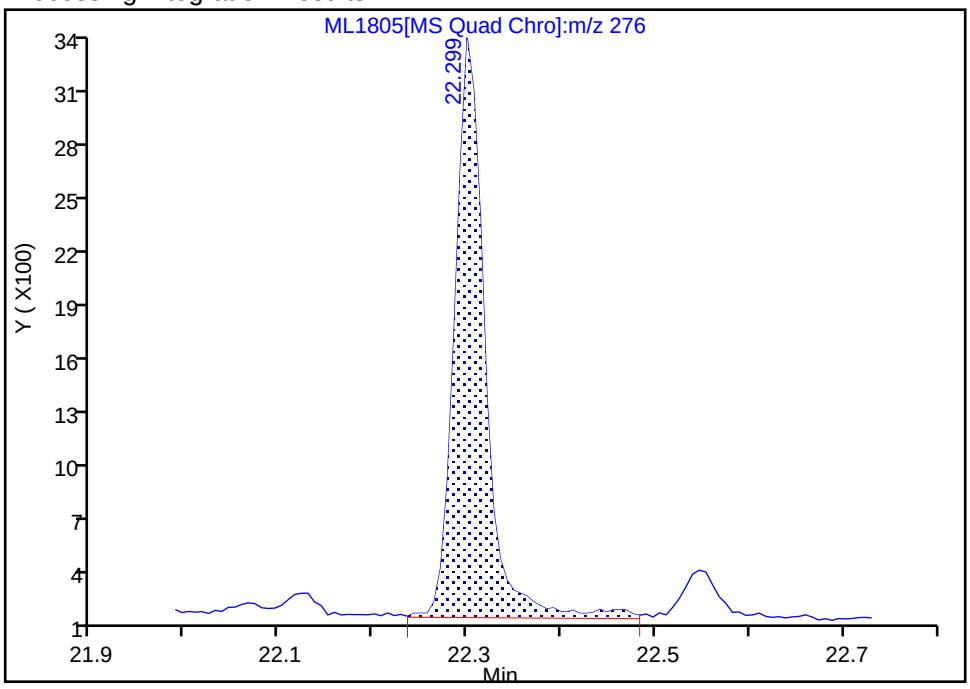
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

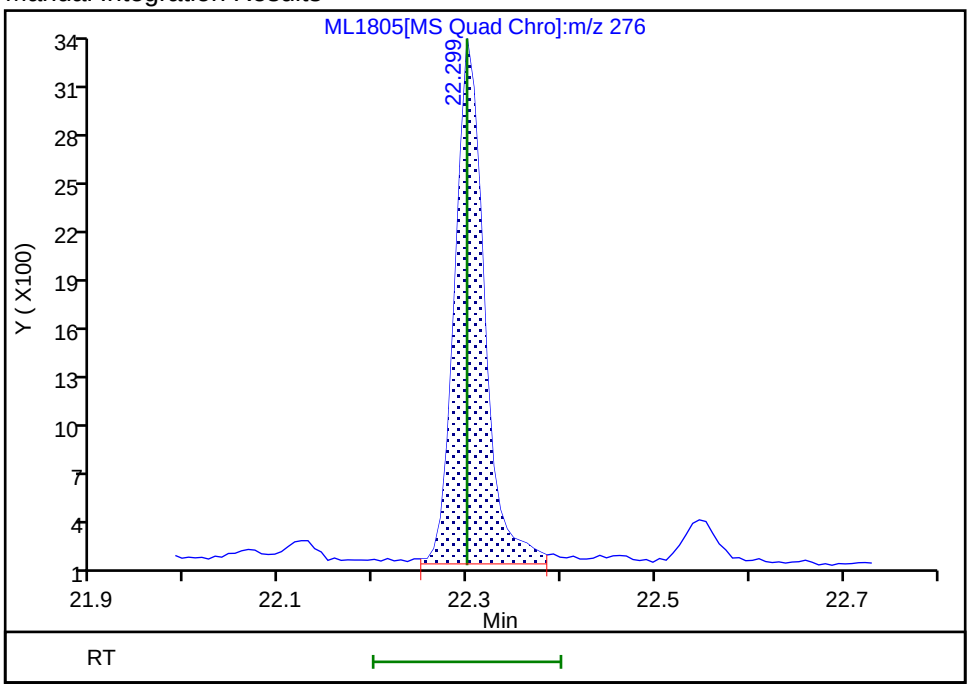
Processing Integration Results

RT: 22.30
Area: 7028
Amount: 0.004779
Amount Units: ug/ml



Manual Integration Results

RT: 22.30
Area: 6840
Amount: 0.004651
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:05:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

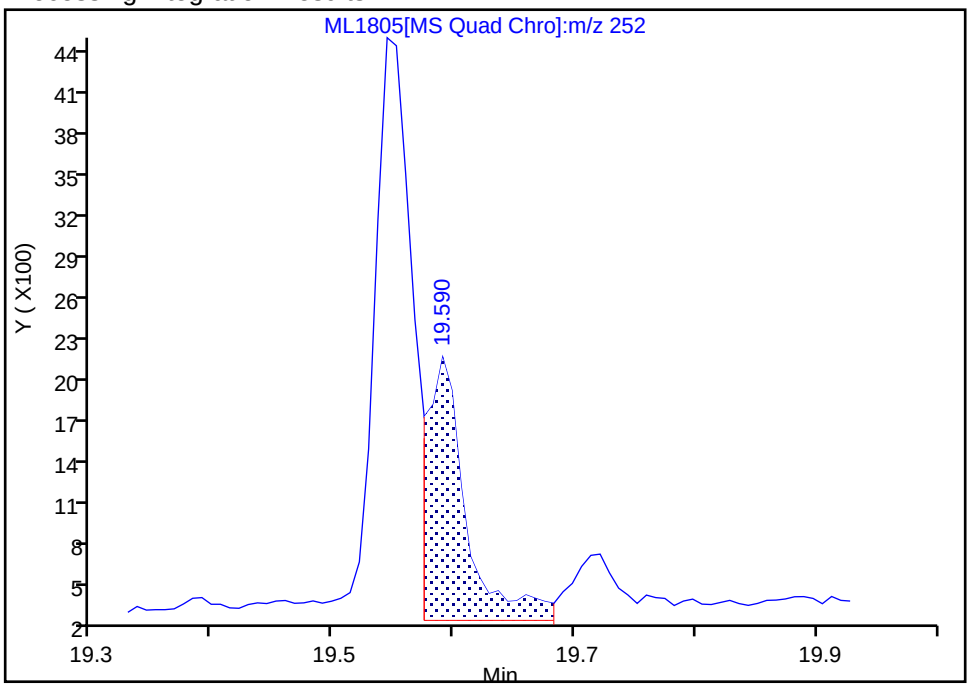
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Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

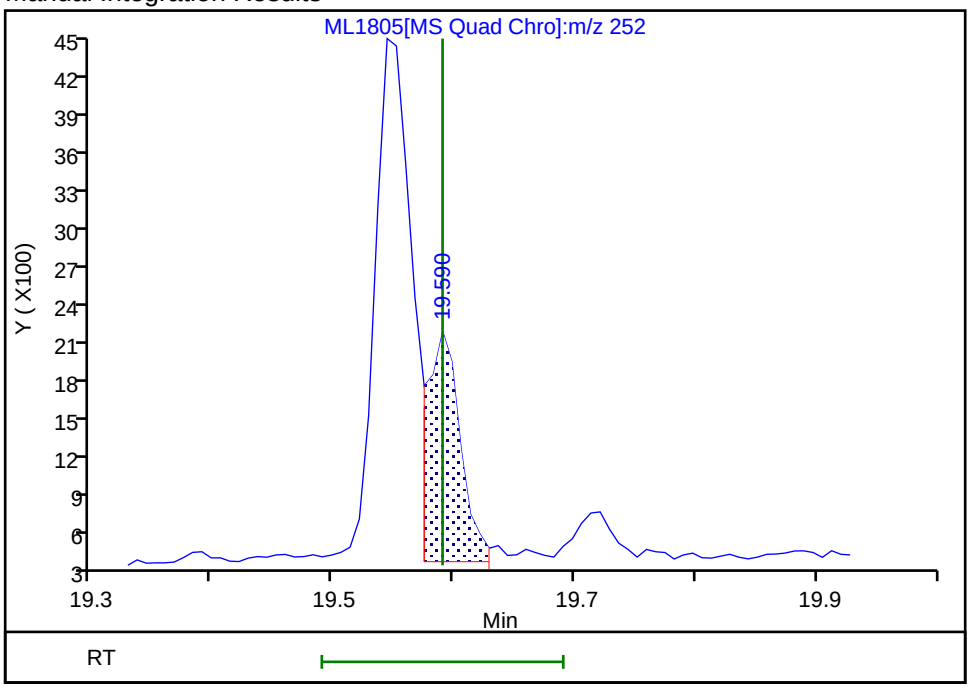
Processing Integration Results

RT: 19.59
Area: 4041
Amount: 0.003146
Amount Units: ug/ml



Manual Integration Results

RT: 19.59
Area: 3248
Amount: 0.002529
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:04:54

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

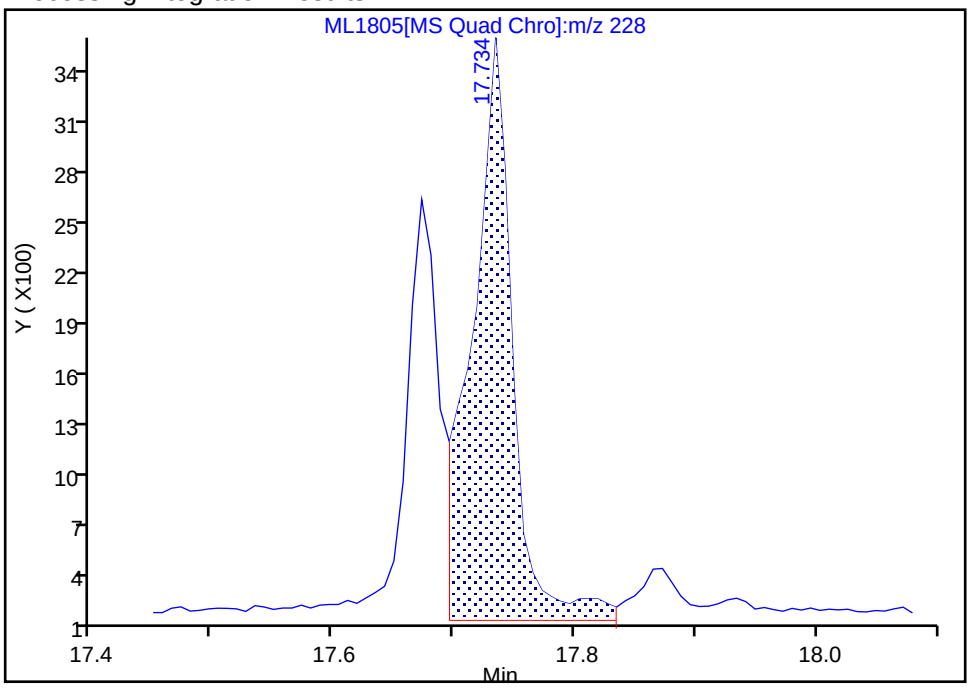
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Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

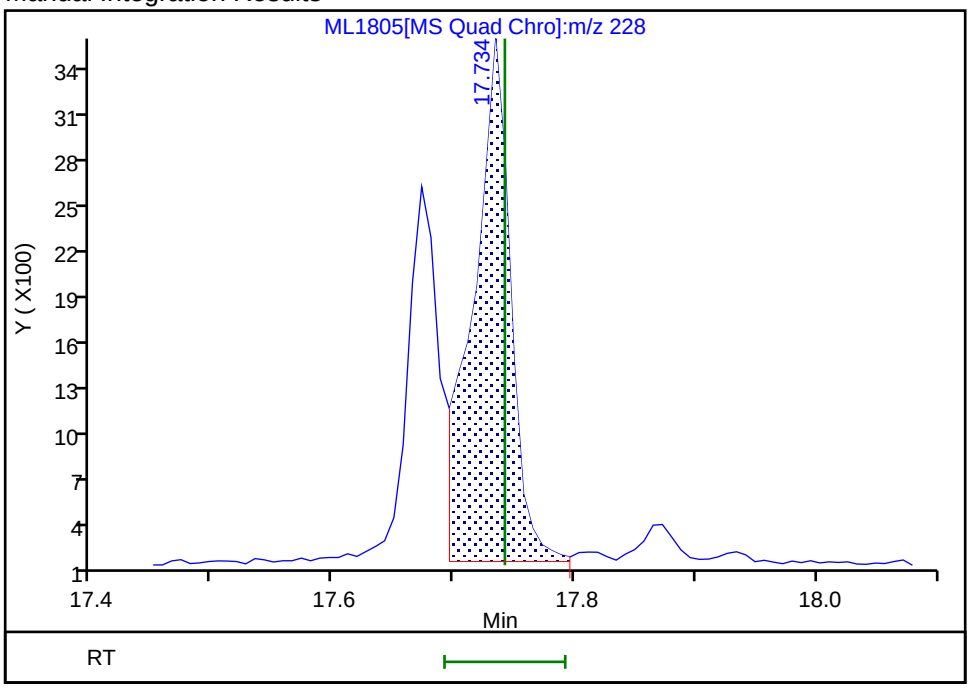
Processing Integration Results

RT: 17.73
Area: 7865
Amount: 0.006687
Amount Units: ug/ml



Manual Integration Results

RT: 17.73
Area: 7196
Amount: 0.006118
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:04:36

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

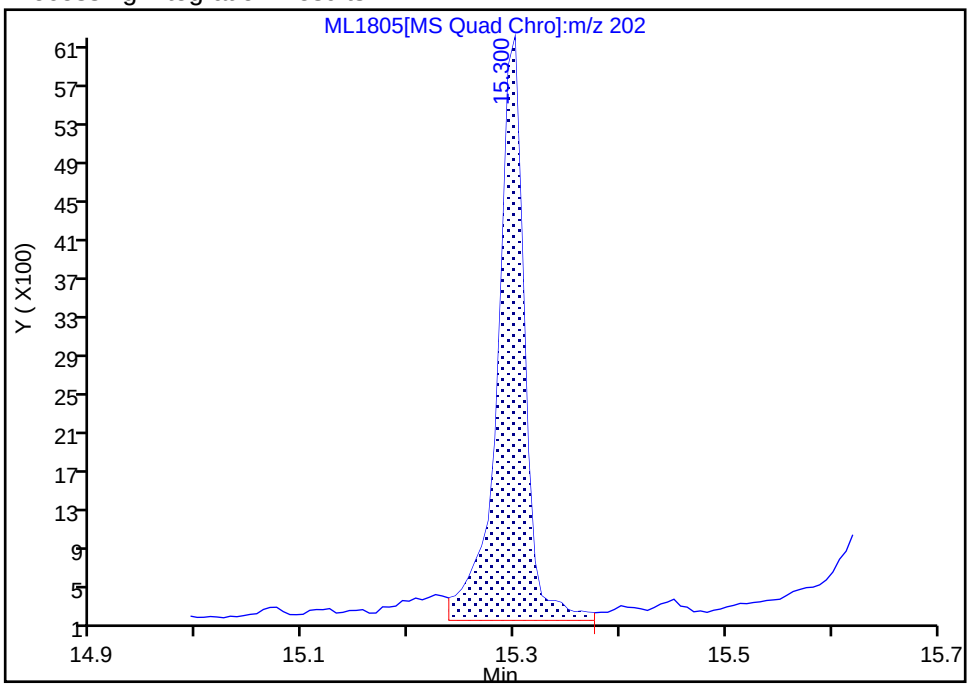
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

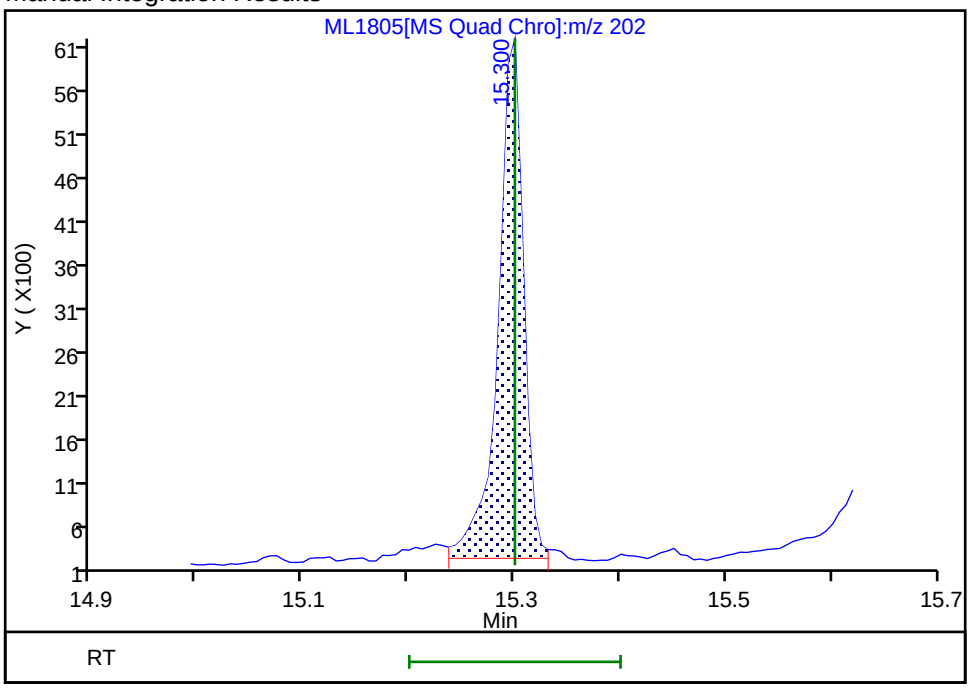
Processing Integration Results

RT: 15.30
Area: 10750
Amount: 0.010378
Amount Units: ug/ml



Manual Integration Results

RT: 15.30
Area: 9811
Amount: 0.009472
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:04:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

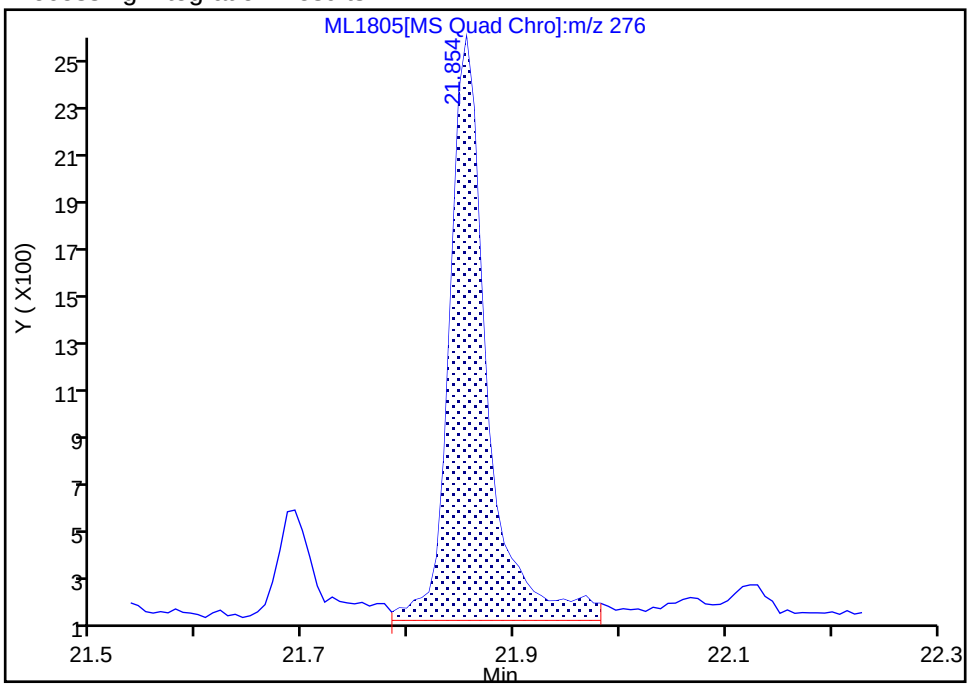
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

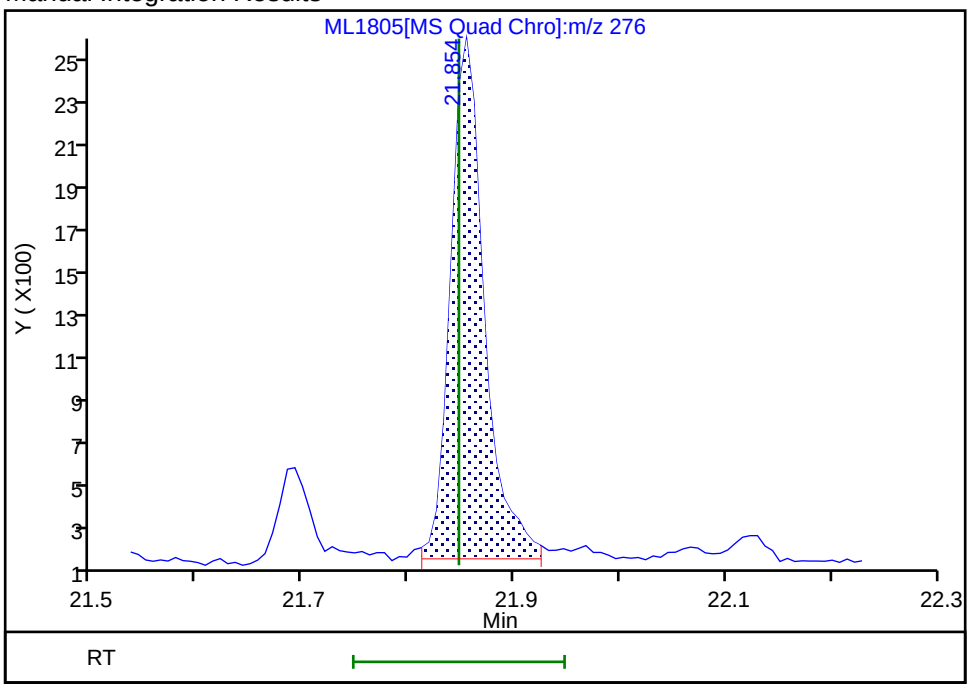
Processing Integration Results

RT: 21.85
Area: 5899
Amount: 0.004782
Amount Units: ug/ml



Manual Integration Results

RT: 21.85
Area: 5234
Amount: 0.004243
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:05:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

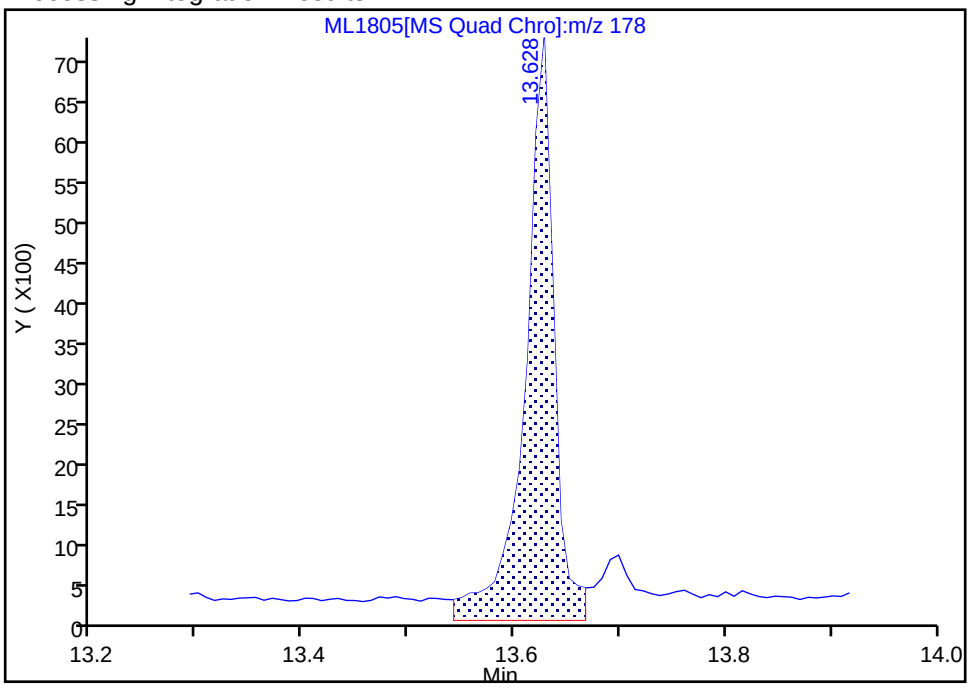
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

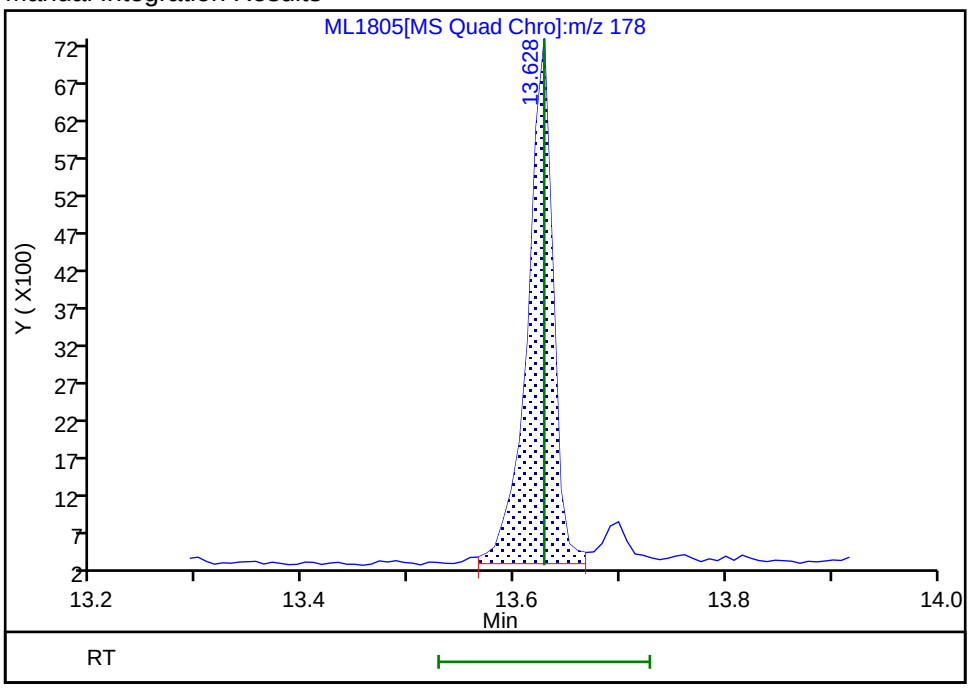
Processing Integration Results

RT: 13.63
Area: 13720
Amount: 0.015894
Amount Units: ug/ml



Manual Integration Results

RT: 13.63
Area: 11729
Amount: 0.013587
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:03:43

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

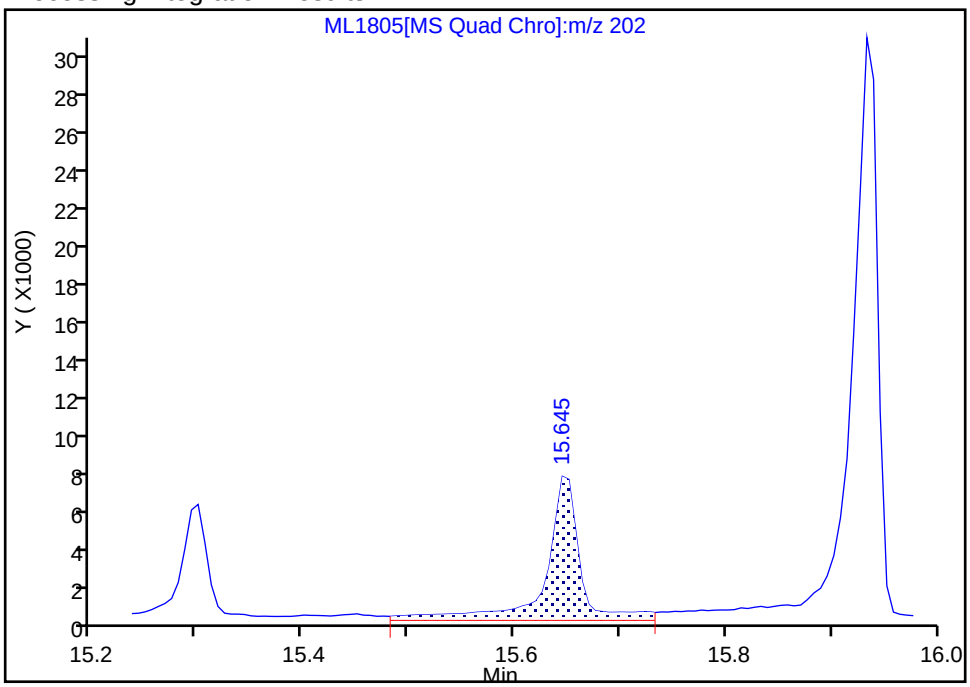
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Injection Date:	31-Dec-2021 16:13:26	Instrument ID:	HP21585		
Lims ID:	410-68043-B-4-A	Lab Sample ID:	410-68043-4		
Client ID:	MW-8S-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

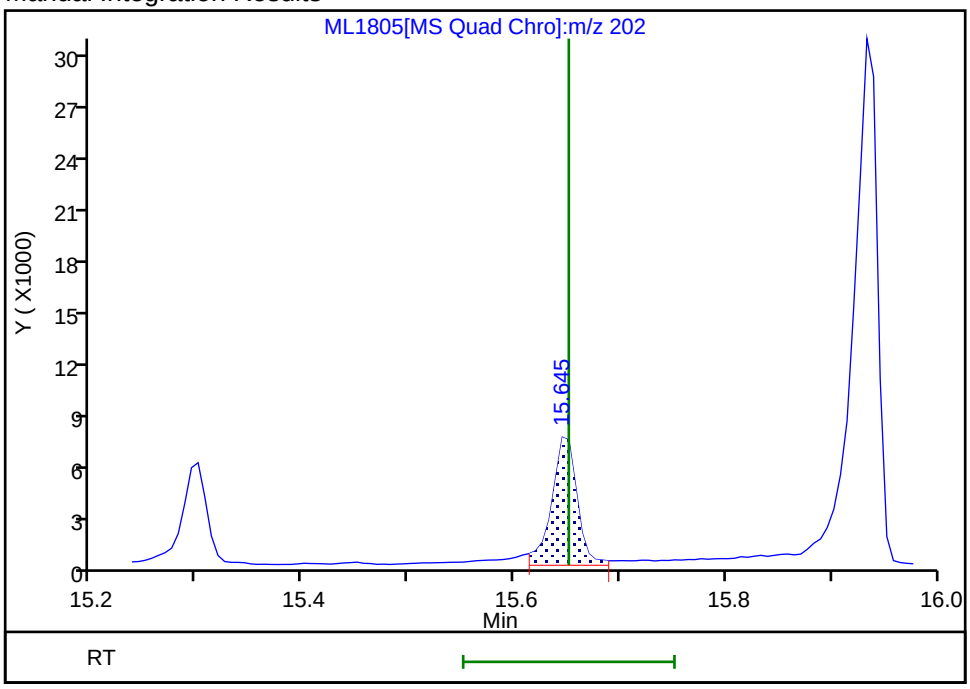
Processing Integration Results

RT: 15.65
Area: 17556
Amount: 0.015623
Amount Units: ug/ml



Manual Integration Results

RT: 15.65
Area: 12478
Amount: 0.011104
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:04:19

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-8D-20211220 Lab Sample ID: 410-68043-5

Matrix: Ground Water Lab File ID: NL1212.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 16:57

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 249.5(mL) Date Analyzed: 12/27/2021 19:46

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND	cn	0.050	0.010
208-96-8	Acenaphthylene	ND	cn	0.050	0.010
120-12-7	Anthracene	ND	cn	0.050	0.010
56-55-3	Benzo[a]anthracene	0.019	J cn	0.050	0.010
50-32-8	Benzo[a]pyrene	0.023	J cn	0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.034	J *+ cn	0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.017	J *+ cn	0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND	*+ cn	0.050	0.010
218-01-9	Chrysene	ND	cn	0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND	*+ cn	0.050	0.020
206-44-0	Fluoranthene	0.043	J cn	0.050	0.010
86-73-7	Fluorene	ND	cn	0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.050	0.020
91-20-3	Naphthalene	ND	cn	0.070	0.030
85-01-8	Phenanthrene	0.043	J cn	0.070	0.030
129-00-0	Pyrene	0.040	J cn	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	74	cn	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	85	cn	36-111
93951-69-0	Fluoranthene-d10 (Surr)	89	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D
Lims ID: 410-68043-A-5-A
Client ID: MW-8D-20211220
Sample Type: Client
Inject. Date: 27-Dec-2021 19:46:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-5-A
Misc. Info.: 410-0047167-013
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:18:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	98	84101	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	291225	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	130877	0.2118	
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	156347	0.2500	
17 Fluorene	166	11.704	11.696	0.008	92	1169	0.001432	M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	262360	0.2500	
21 Phenanthrene	178	12.870	12.870	0.008	97	12294	0.0107	
22 Anthracene	178	12.939	12.939	0.015	96	1126	0.001046	7M
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	224965	0.2237	
25 Fluoranthene	202	14.437	14.448	0.006	67	12069	0.0107	
26 Pyrene	202	14.769	14.775	0.012	97	15091	0.0099	
28 Benzo[a]anthracene	228	16.729	16.736	0.008	28	5508	0.004733	
* 29 Chrysene-d12	240	16.744	16.737	0.007	82	242821	0.2500	
33 Benzo[b]fluoranthene	252	18.585	18.592	0.031	100	10438	0.008410	M
34 Benzo[k]fluoranthene	252	18.623	18.639	0.023	98	3393	0.002399	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	98	167934	0.1838	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	100	6868	0.005728	
* 38 Perylene-d12	264	19.183	19.175	0.008	97	252167	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.825	20.845	0.050	98	5137	0.004701	
42 Benzo[g,h,i]perylene	276	21.178	21.168	0.036	99	5822	0.004212	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

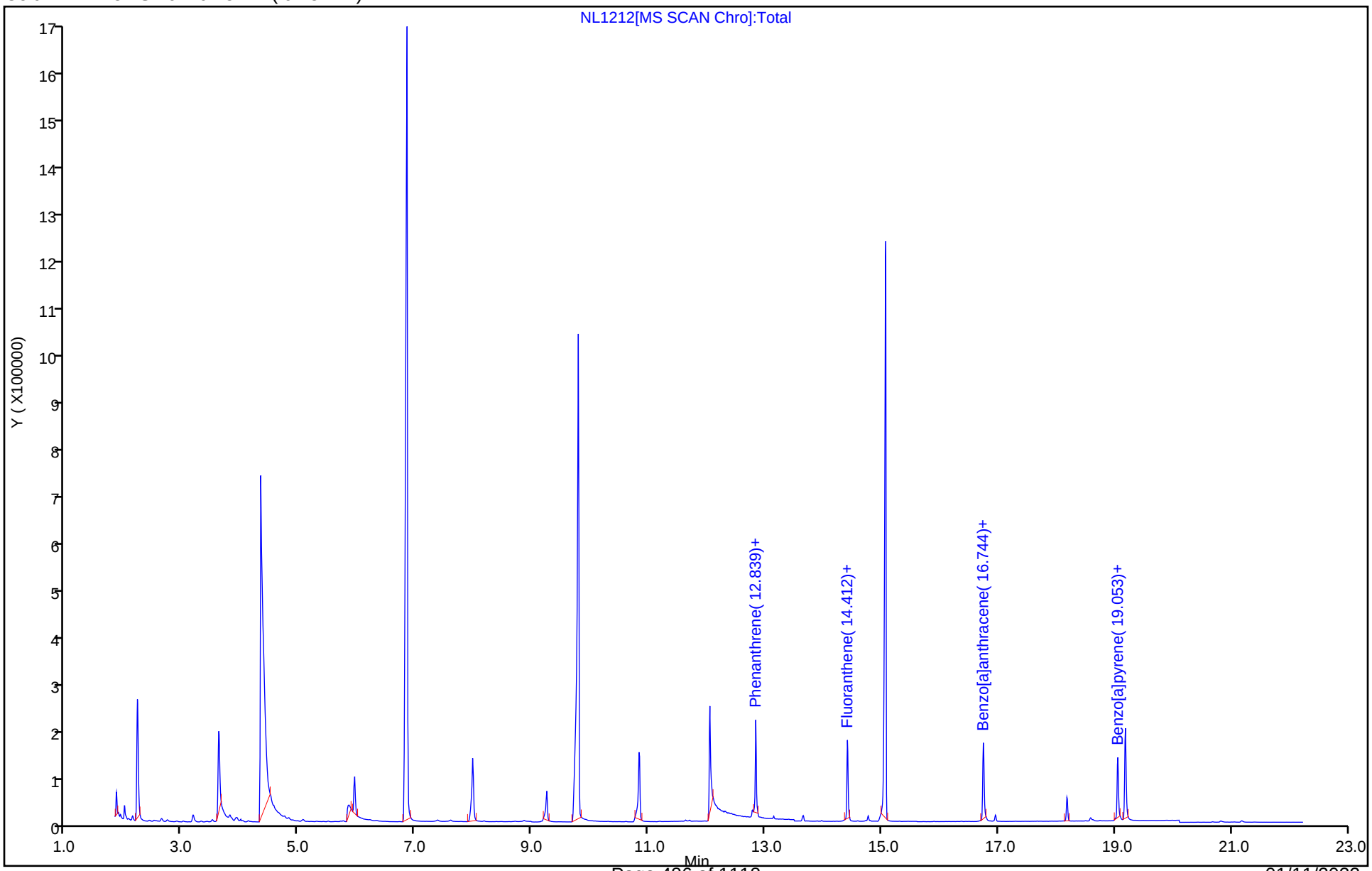
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D

Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5	Worklist Smp#:	13
Client ID:	MW-8D-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

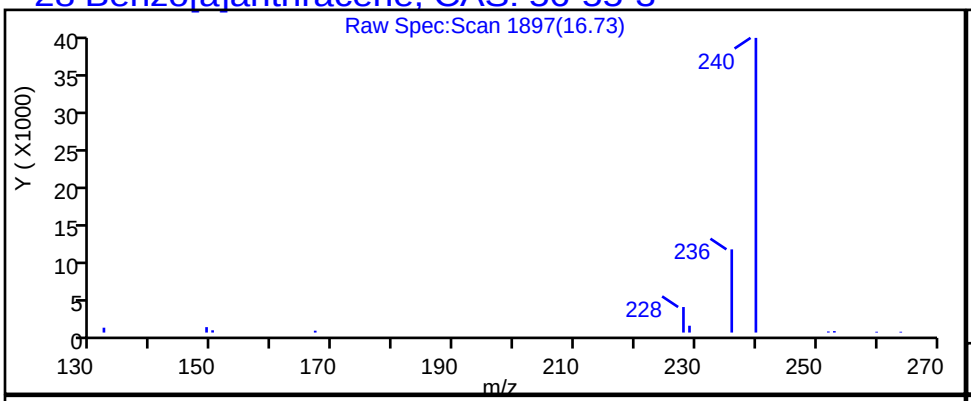
Column: DB-5MS 20m 0.25mm (0.25 mm)

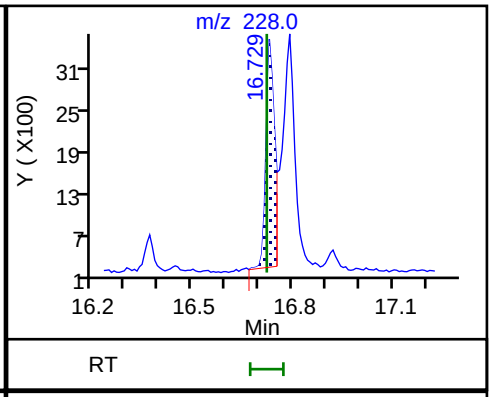


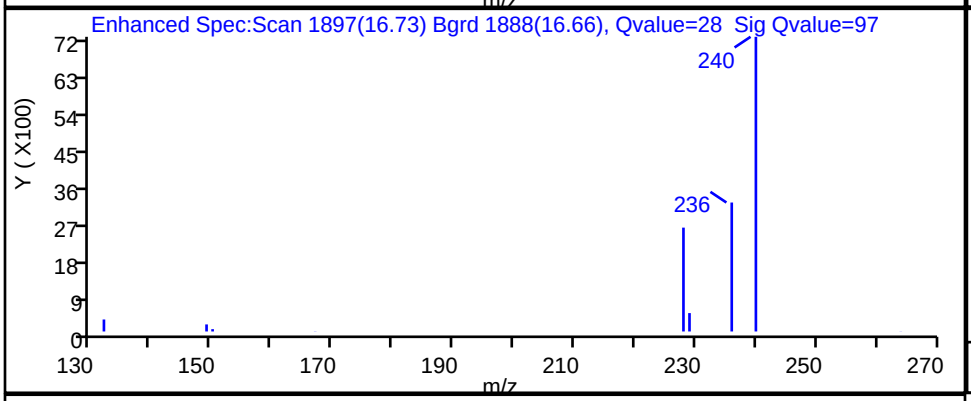
Eurofins Lancaster Laboratories Env, LLC

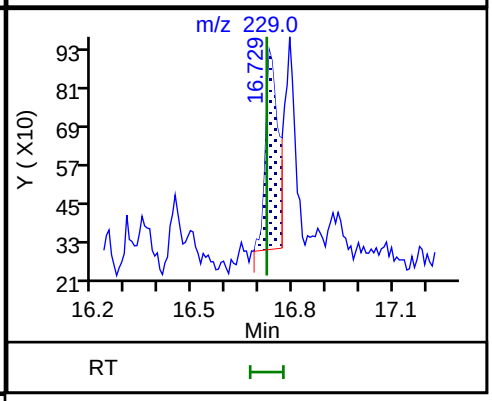
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Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

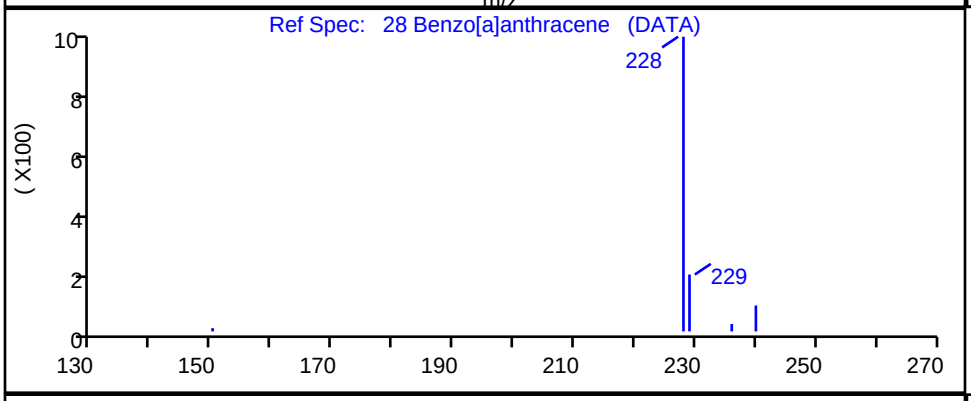
28 Benzo[a]anthracene, CAS: 56-55-3

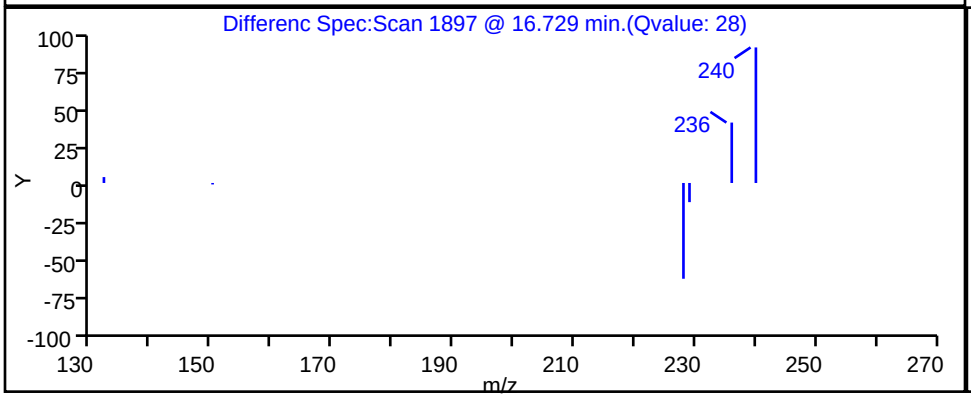


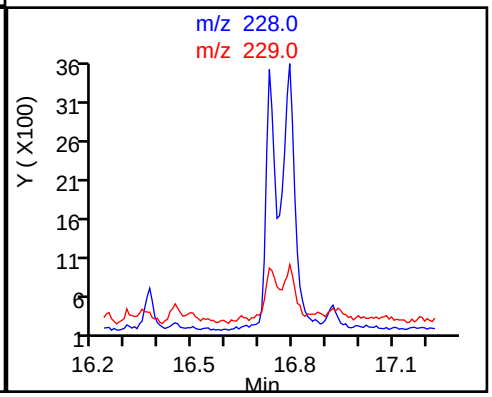








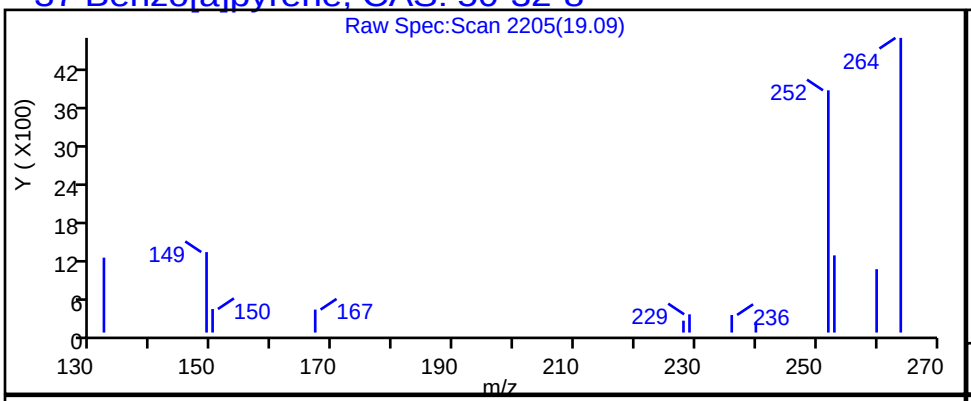


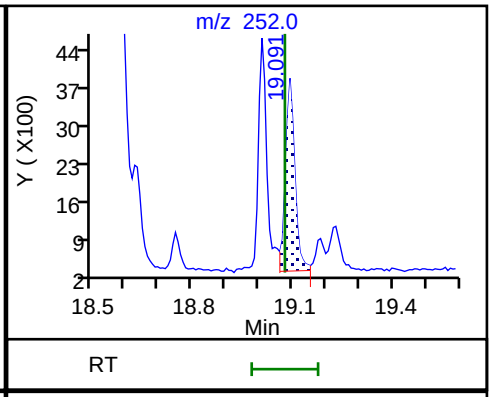


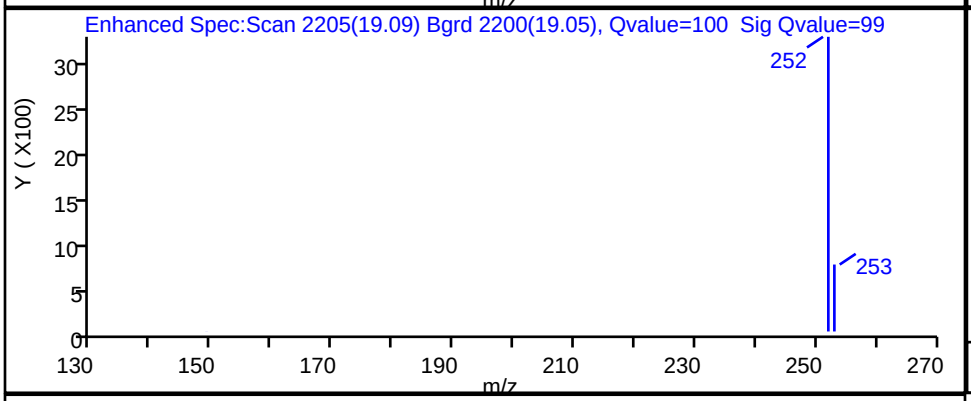
Eurofins Lancaster Laboratories Env, LLC

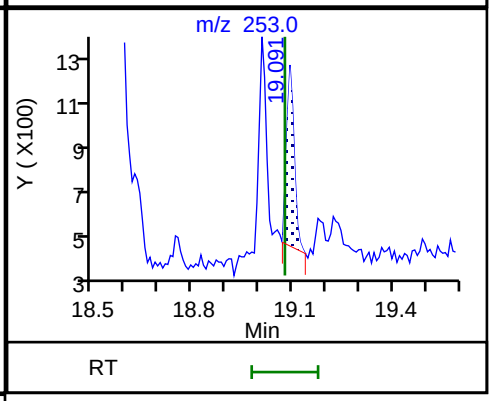
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Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

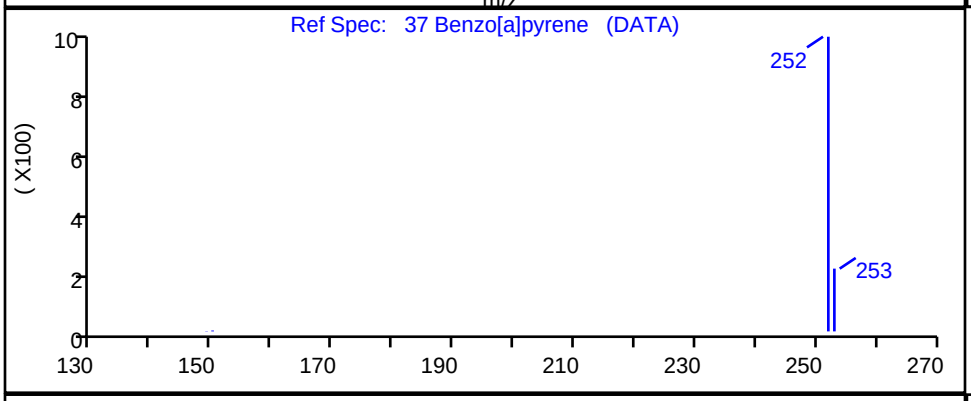
37 Benzo[a]pyrene, CAS: 50-32-8

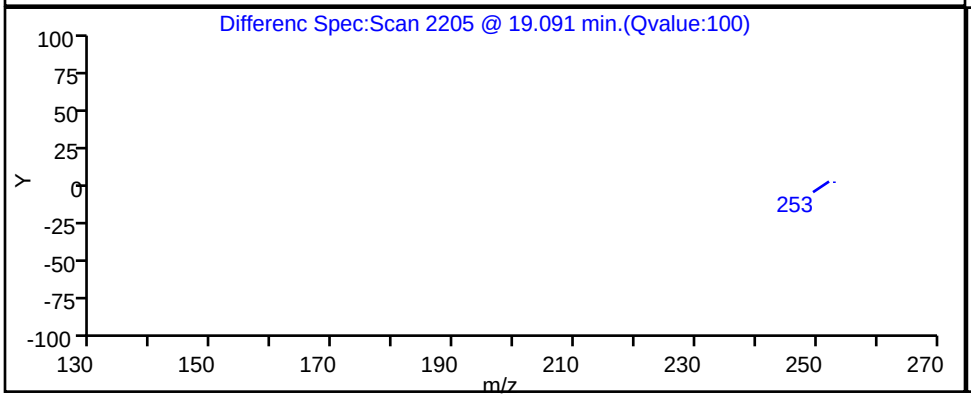


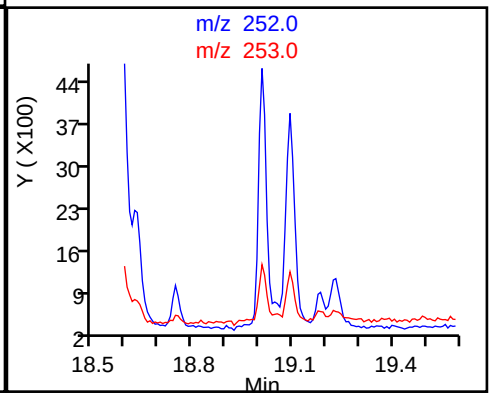








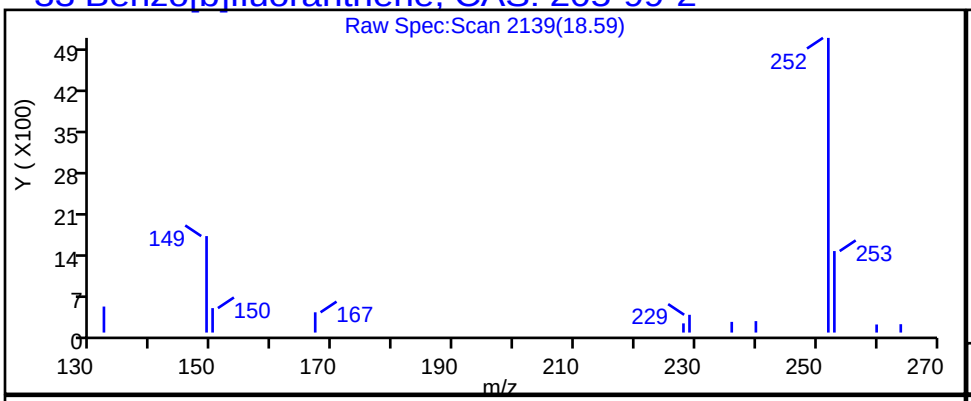


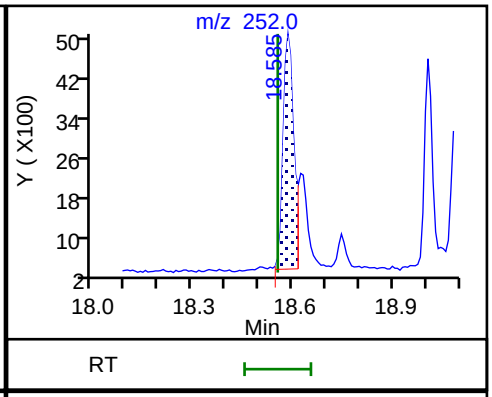


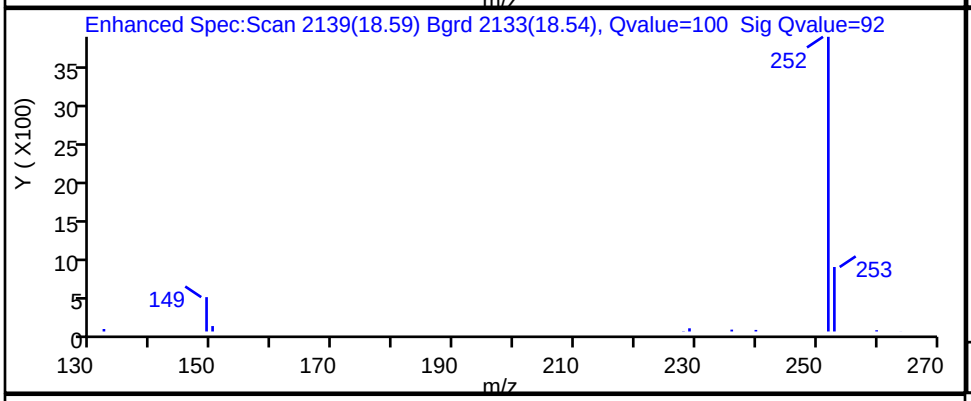
Eurofins Lancaster Laboratories Env, LLC

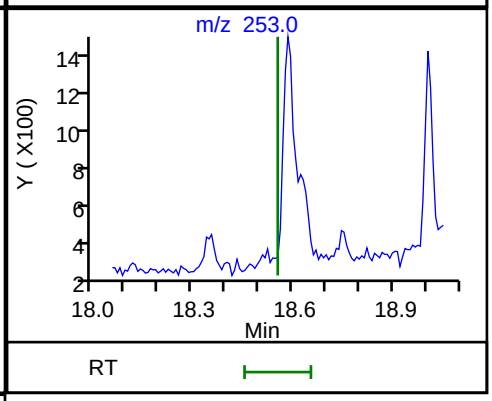
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D				
Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	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		

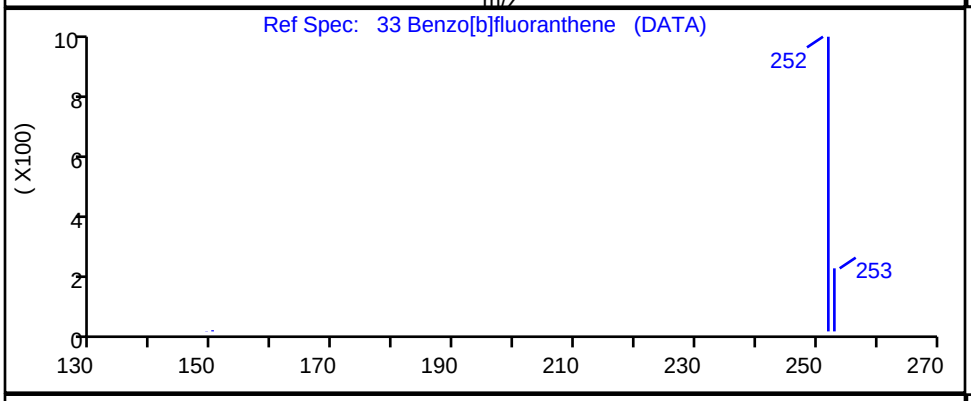
33 Benzo[b]fluoranthene, CAS: 205-99-2

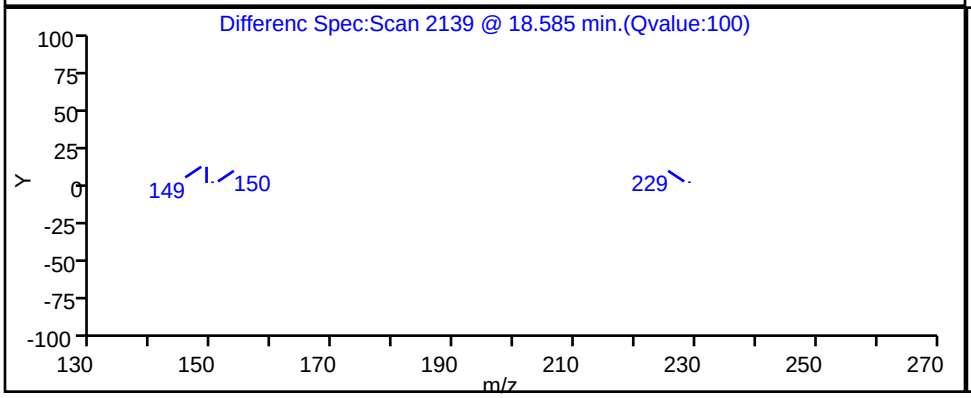


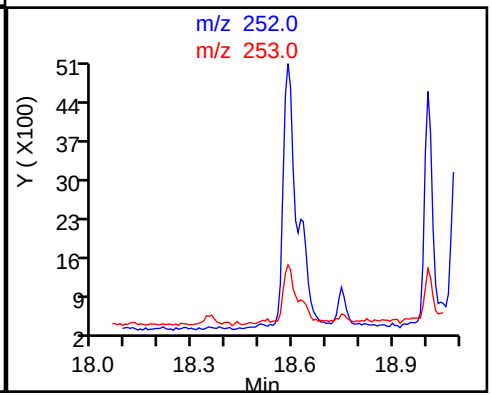










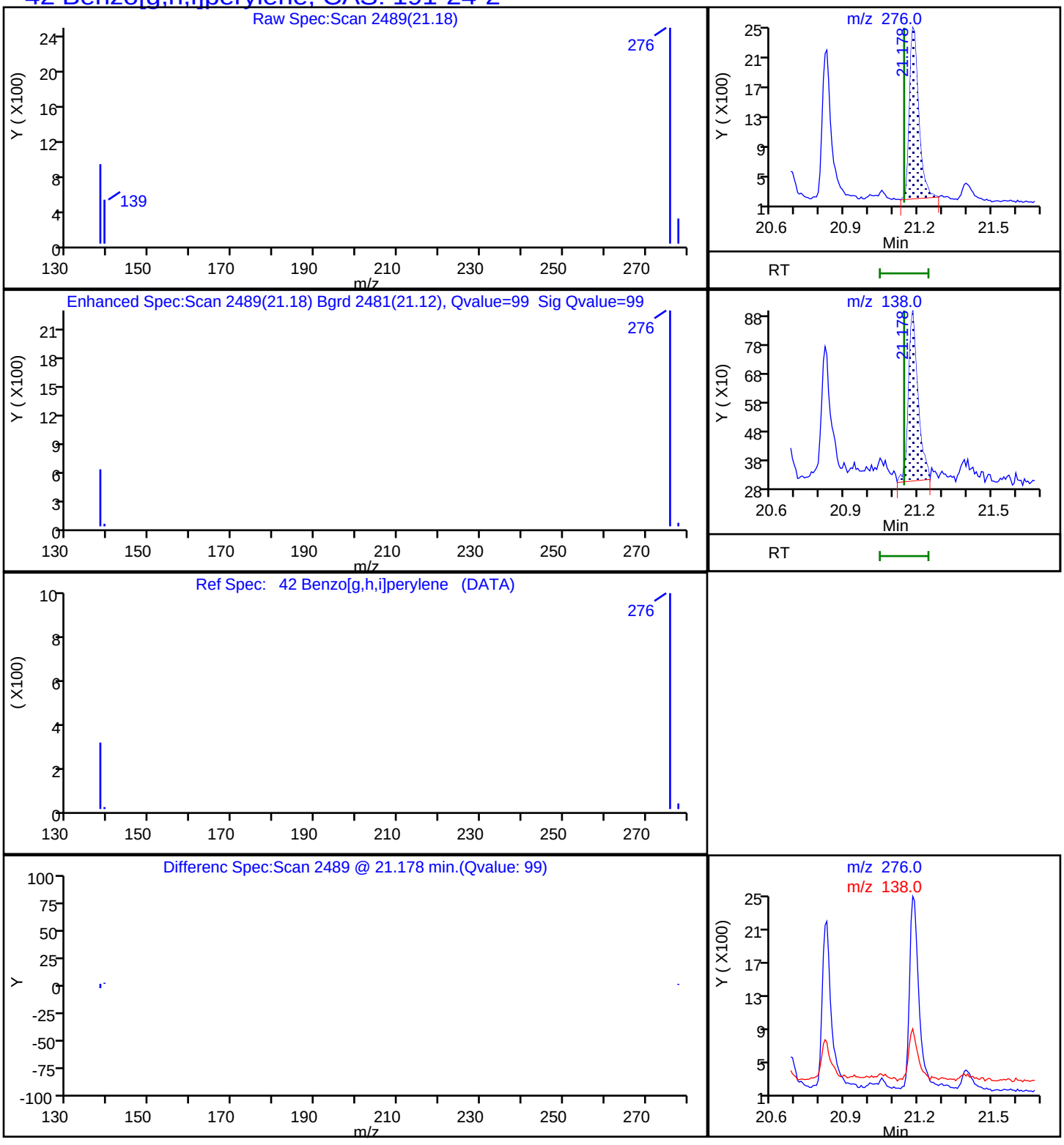


Report Date: 28-Dec-2021 06:59:12 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D				
Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
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



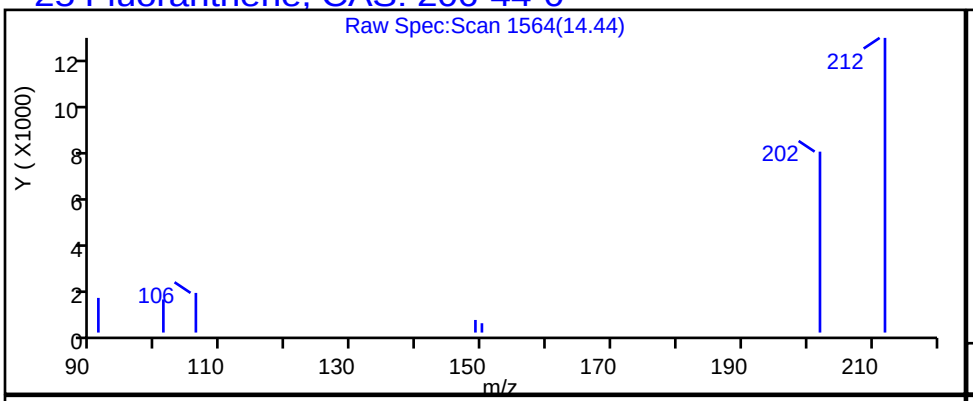
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

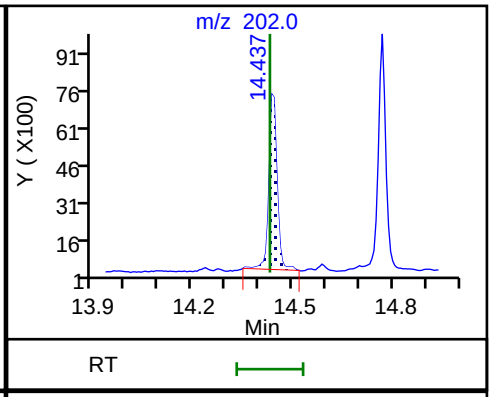
Eurofins Lancaster Laboratories Env, LLC

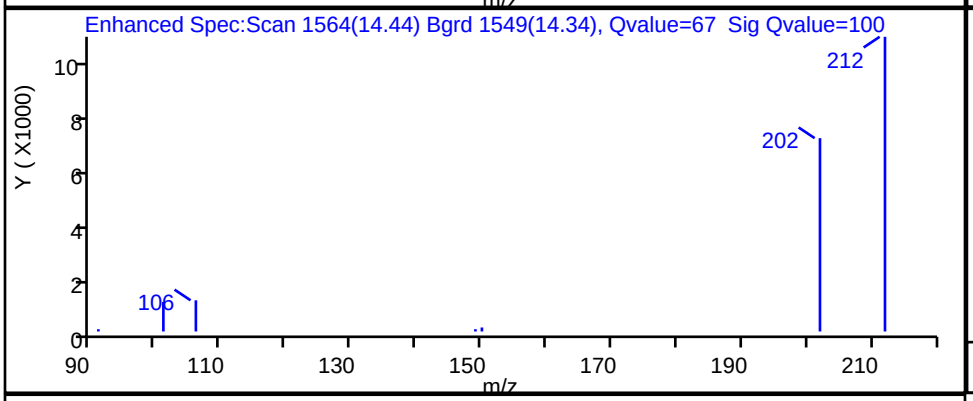
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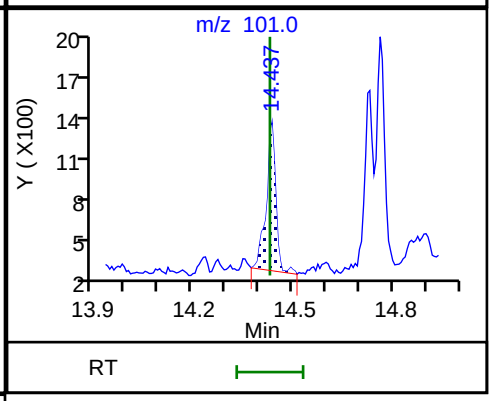
Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

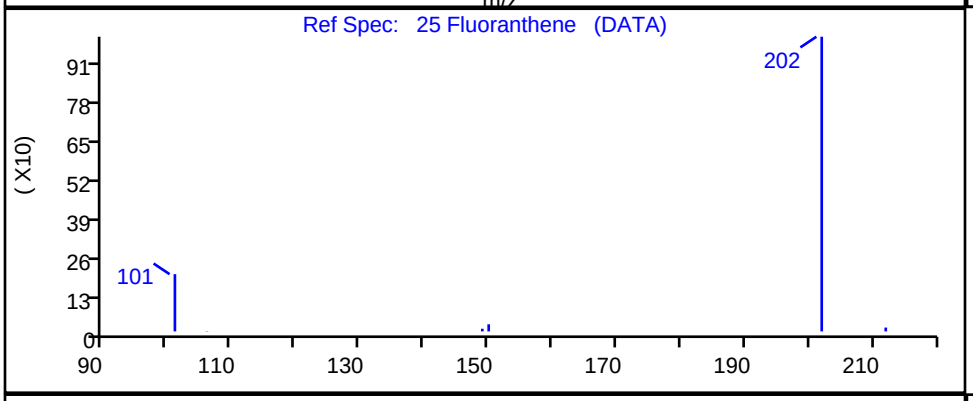
25 Fluoranthene, CAS: 206-44-0

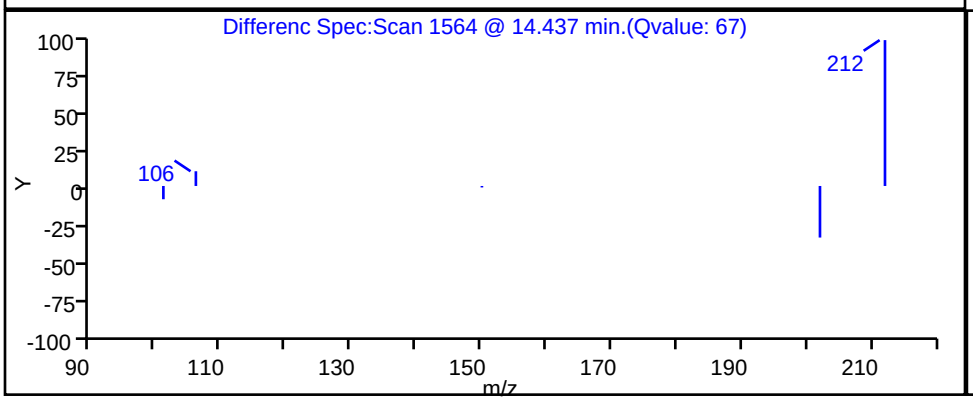


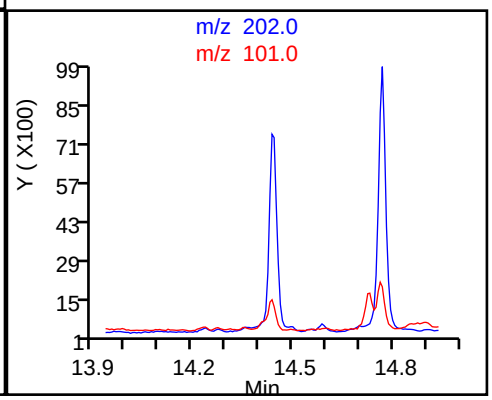












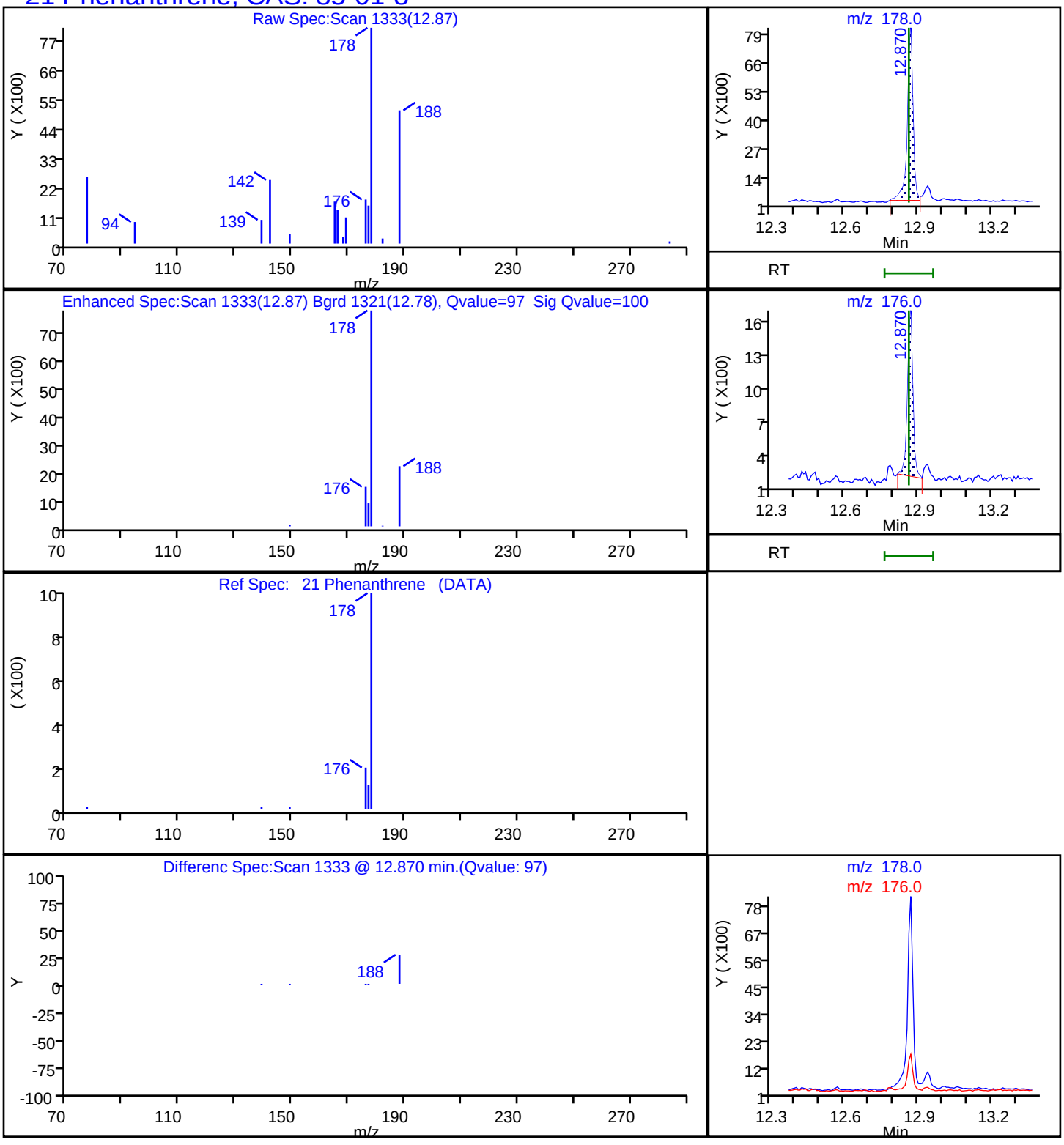
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D

Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
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		

21 Phenanthrene, CAS: 85-01-8



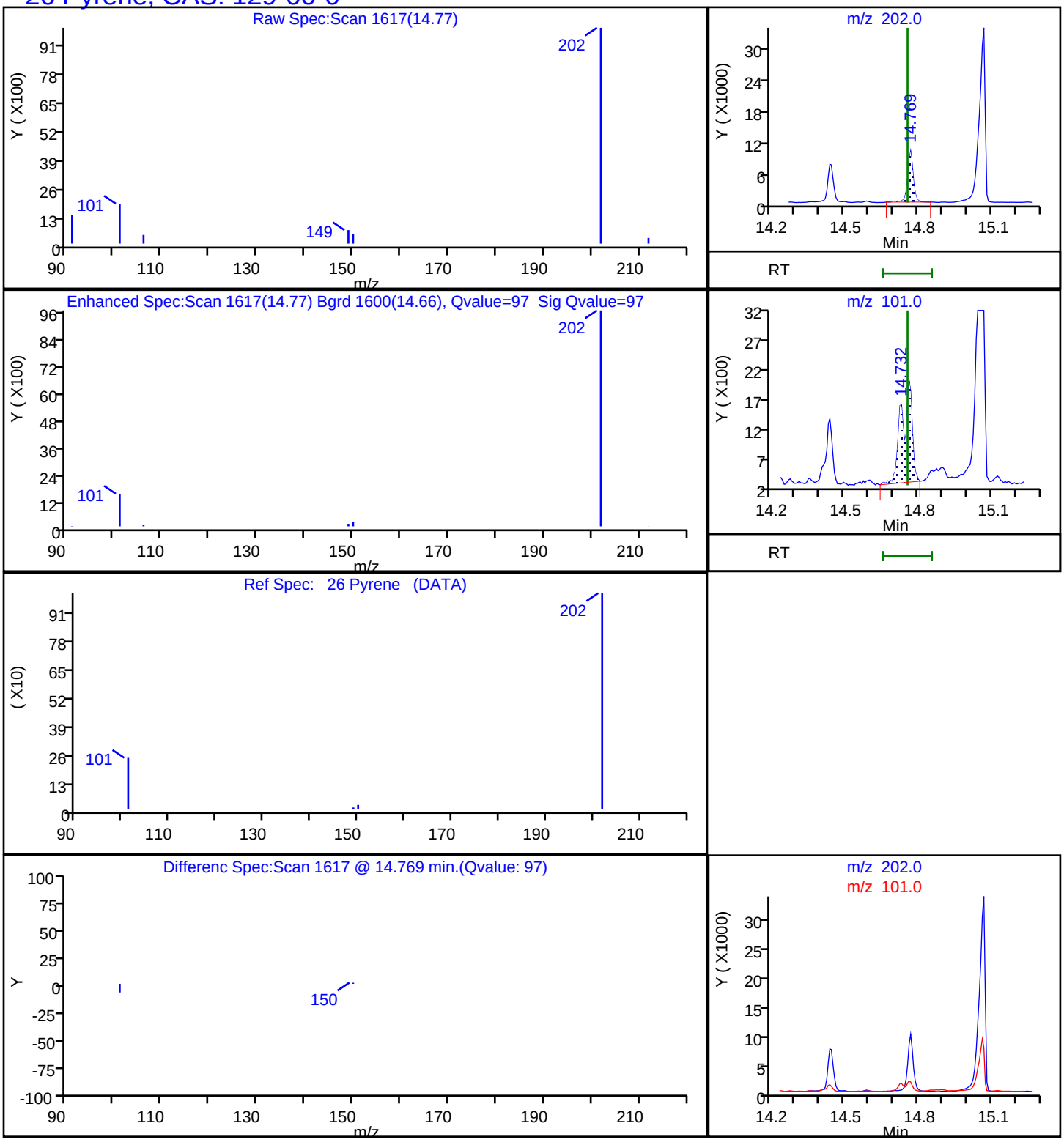
Report Date: 28-Dec-2021 06:59:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D

Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

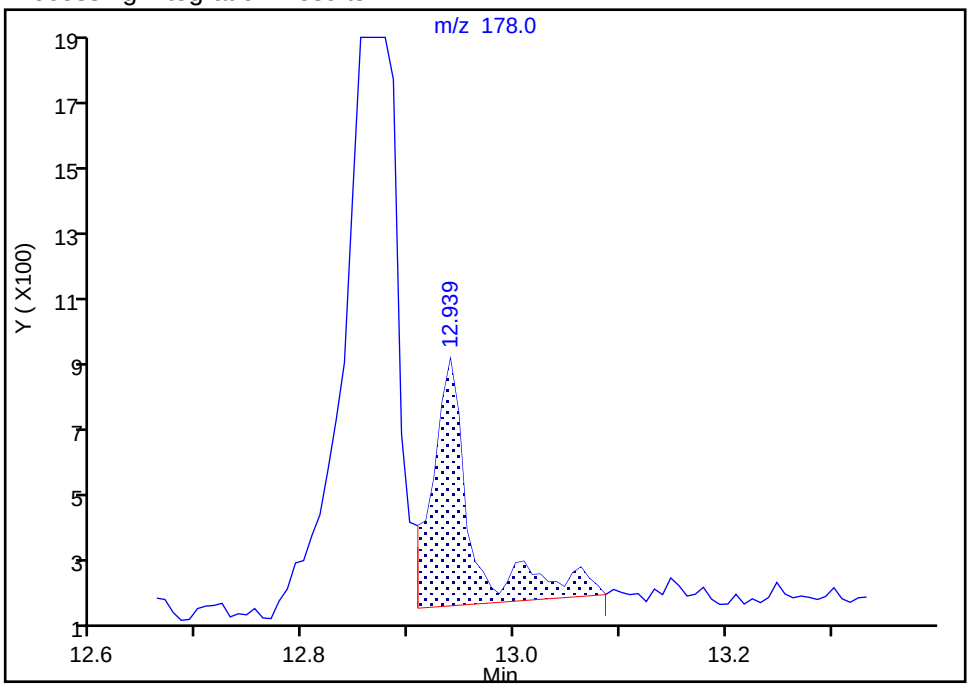
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D				
Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	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		

22 Anthracene, CAS: 120-12-7

Signal: 1

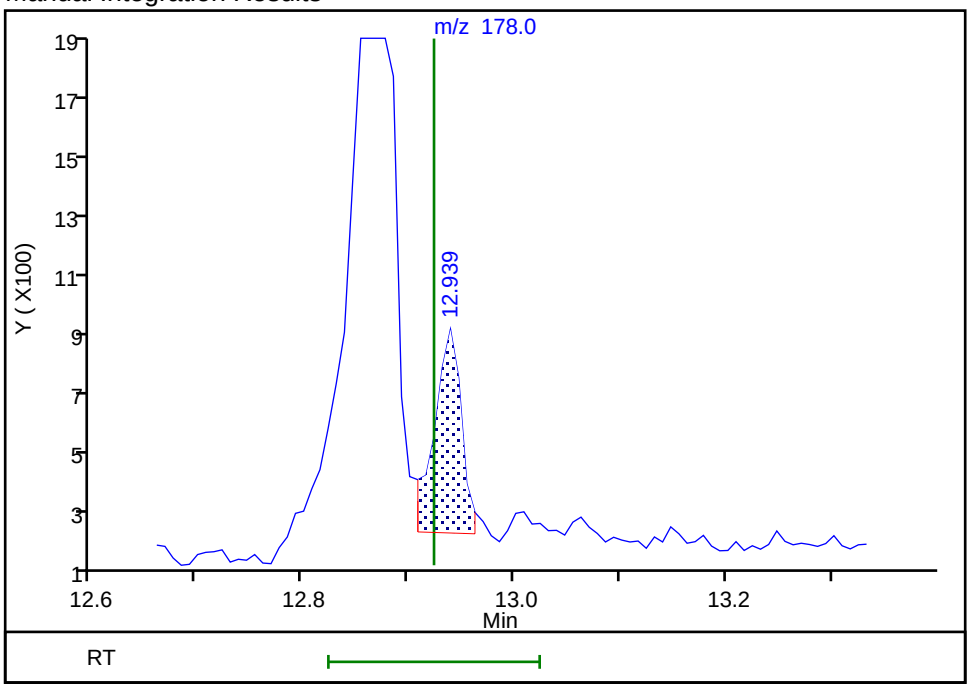
Processing Integration Results

RT: 12.94
Area: 1791
Amount: 0.001664
Amount Units: ug/ml



Manual Integration Results

RT: 12.94
Area: 1126
Amount: 0.001046
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:18:16

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

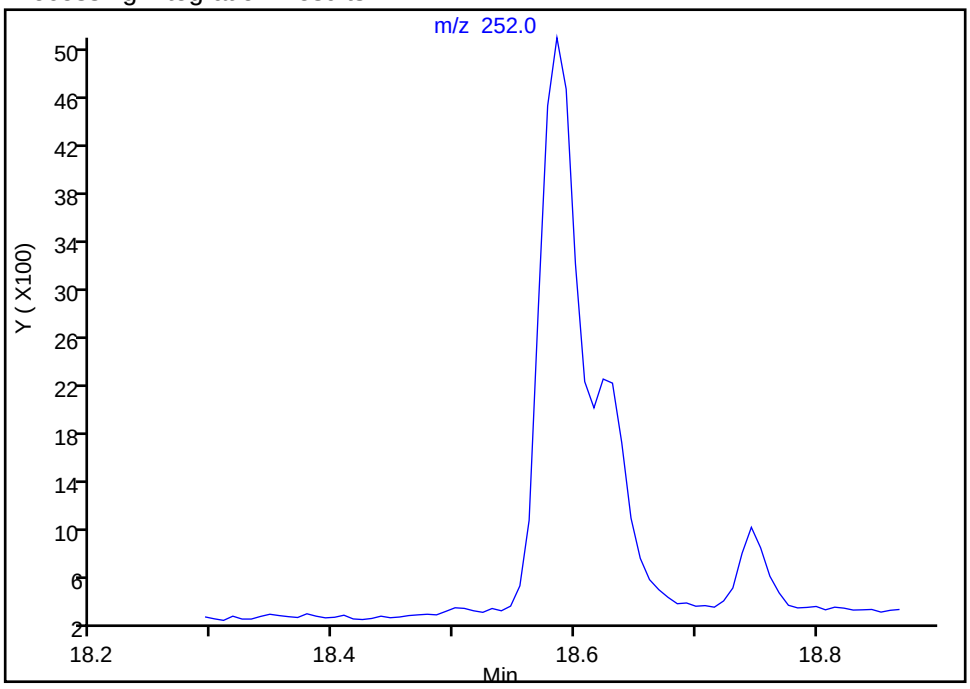
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D				
Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	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		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

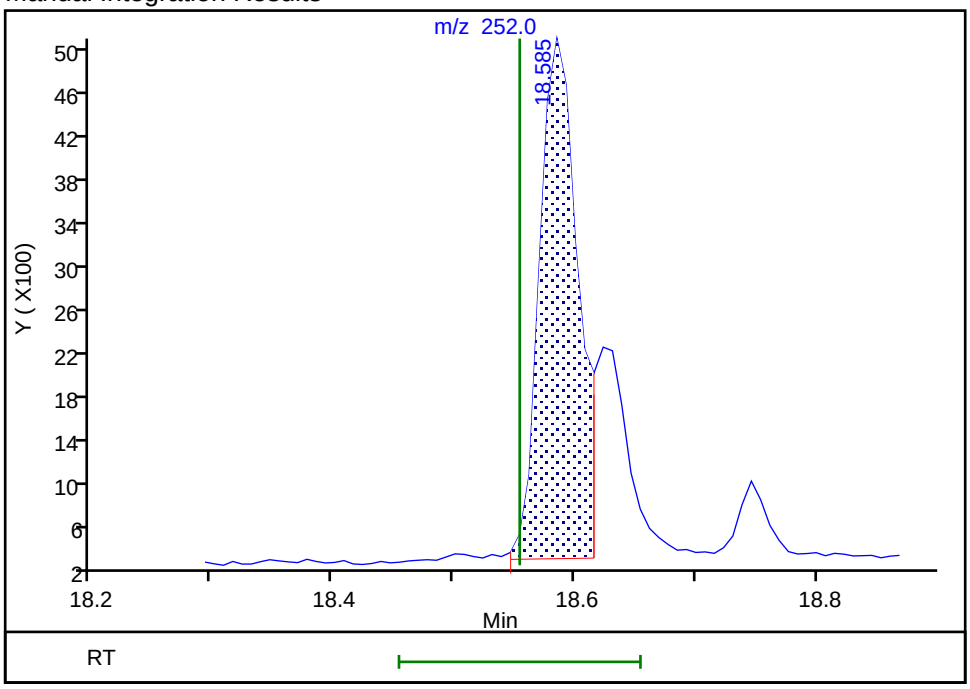
Not Detected
Expected RT: 18.55

Processing Integration Results



Manual Integration Results

RT: 18.59
Area: 10438
Amount: 0.008410
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:18:32
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

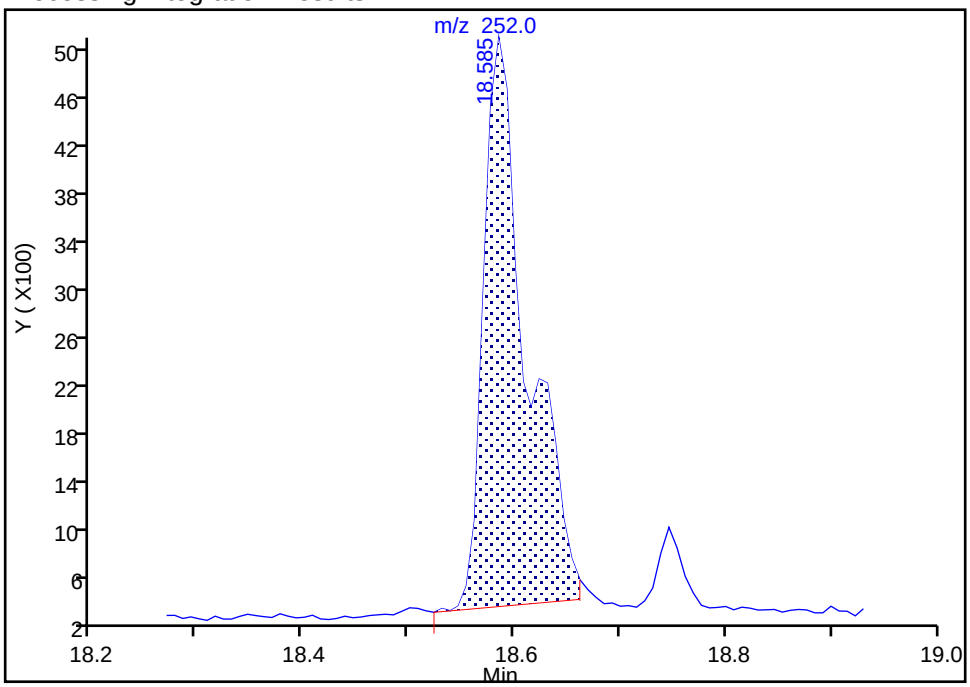
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1212.D		
Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5
Client ID:	MW-8D-20211220		
Operator ID:	whs02991	ALS Bottle#:	13 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	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

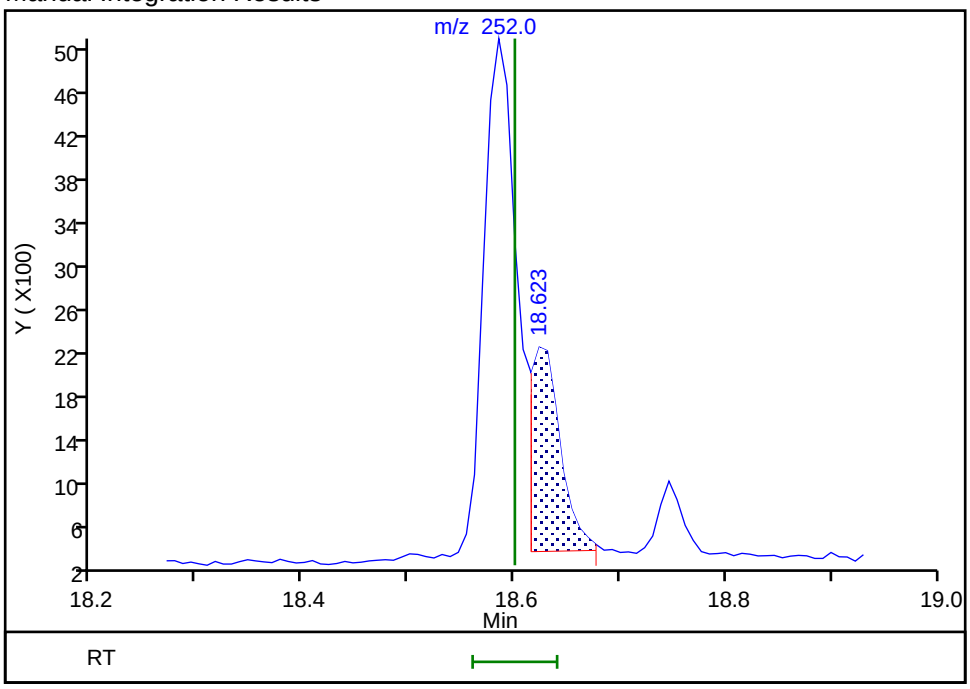
Processing Integration Results

RT: 18.59
Area: 13445
Amount: 0.009507
Amount Units: ug/ml



Manual Integration Results

RT: 18.62
Area: 3393
Amount: 0.002399
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:18:39

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

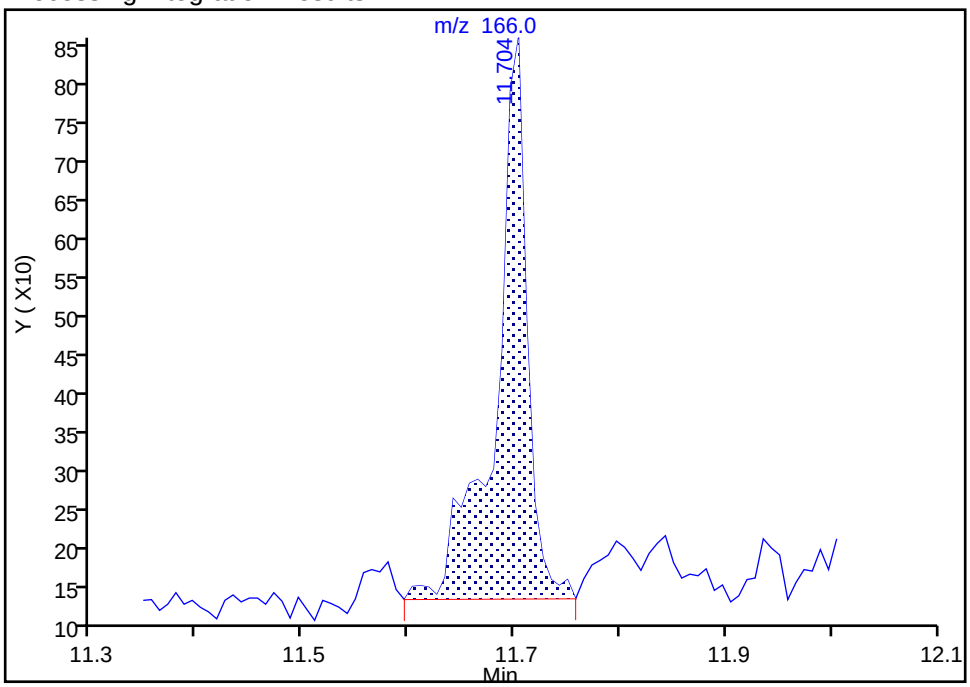
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Injection Date:	27-Dec-2021 19:46:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	whs02991	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

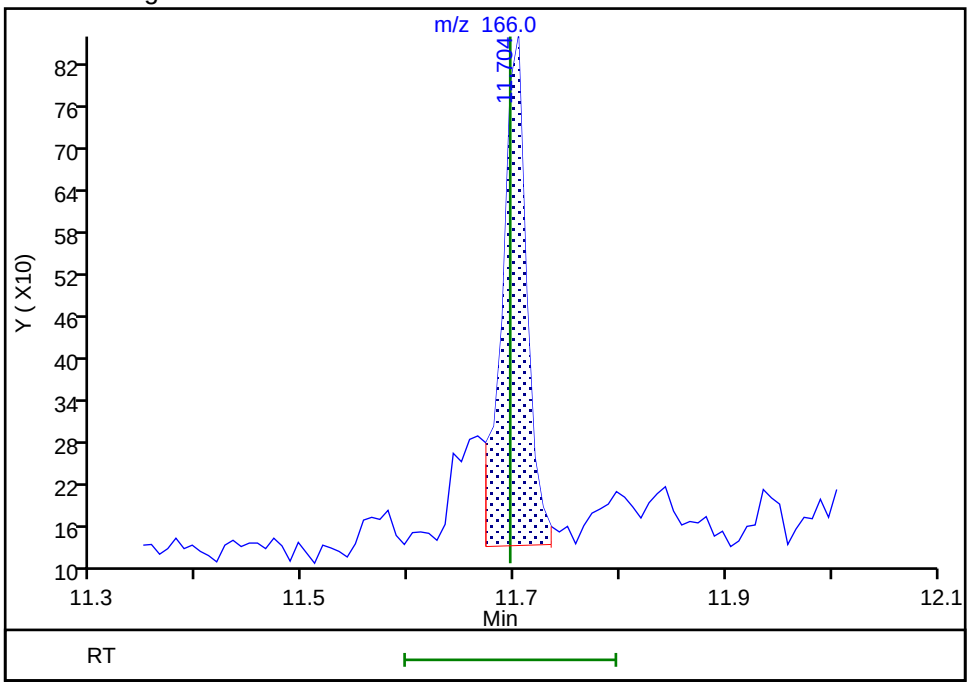
Processing Integration Results

RT: 11.70
Area: 1516
Amount: 0.001858
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 1169
Amount: 0.001432
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:18:06

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-8D-20211220 RE Lab Sample ID: 410-68043-5 RE

Matrix: Ground Water Lab File ID: ML1806.D

Analysis Method: 8270D SIM Date Collected: 12/20/2021 16:57

Extract. Method: 3510C Date Extracted: 12/30/2021 09:26

Sample wt/vol: 235.3(mL) Date Analyzed: 12/31/2021 16:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210855 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*ND*	*H*	*0.053*	*0.011*
208-96-8	*Acenaphthylene*	*ND*	*H*	*0.053*	*0.011*
120-12-7	*Anthracene*	*ND*	*H*	*0.053*	*0.011*
56-55-3	*Benzo[a]anthracene*	*0.019*	*J H*	*0.053*	*0.011*
50-32-8	*Benzo[a]pyrene*	*0.021*	*J H*	*0.053*	*0.011*
205-99-2	*Benzo[b]fluoranthene*	*0.025*	*J H*	*0.053*	*0.011*
191-24-2	*Benzo[g,h,i]perylene*	*0.019*	*J H*	*0.053*	*0.011*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.053*	*0.011*
218-01-9	*Chrysene*	*0.018*	*J H*	*0.053*	*0.011*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.053*	*0.021*
206-44-0	*Fluoranthene*	*0.024*	*J H*	*0.053*	*0.011*
86-73-7	*Fluorene*	*ND*	*H*	*0.053*	*0.011*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*	*H*	*0.053*	*0.021*
91-20-3	*Naphthalene*	*ND*	*H*	*0.074*	*0.032*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.074*	*0.032*
129-00-0	*Pyrene*	*0.033*	*J H*	*0.053*	*0.011*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	93		36-111
93951-69-0	Fluoranthene-d10 (Surr)	96		47-128

Eurofins Lancaster Laboratories Environment Testing LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1806.D
Lims ID: 410-68043-B-5-A
Client ID: MW-8D-20211220
Sample Type: Client
Inject. Date: 31-Dec-2021 16:43:18 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-B-5-A
Misc. Info.: 410-0047541-007
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 05-Jan-2022 12:12:28 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1619

First Level Reviewer: transuea Date: 04-Jan-2022 13:06:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	84	41453	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	92	126971	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.154	10.166	-0.012	99	68440	0.2321	
* 13 Acenaphthene-d10	164	11.707	11.706	0.001	93	91723	0.2500	
* 20 Phenanthrene-d10	188	13.597	13.597	0.000	95	195500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.269	15.275	-0.006	96	206224	0.2400	
25 Fluoranthene	202	15.300	15.300	0.000	98	5899	0.005637	M
26 Pyrene	202	15.645	15.647	-0.006	96	8809	0.007875	
28 Benzo[a]anthracene	228	17.673	17.668	0.000	99	4734	0.004365	
* 29 Chrysene-d12	240	17.696	17.696	0.000	56	217453	0.2500	
30 Chrysene	228	17.734	17.737	-0.008	100	4928	0.004209	M
33 Benzo[b]fluoranthene	252	19.544	19.540	0.000	100	7412	0.005999	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.035	20.038	-0.008	97	176700	0.1894	M
37 Benzo[a]pyrene	252	20.074	20.076	-0.007	100	5714	0.004847	
* 38 Perylene-d12	264	20.173	20.173	0.000	97	257625	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.855	21.842	0.008	97	5582	0.004451	M
42 Benzo[g,h,i]perylene	276	22.300	22.294	0.001	93	6639	0.004441	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

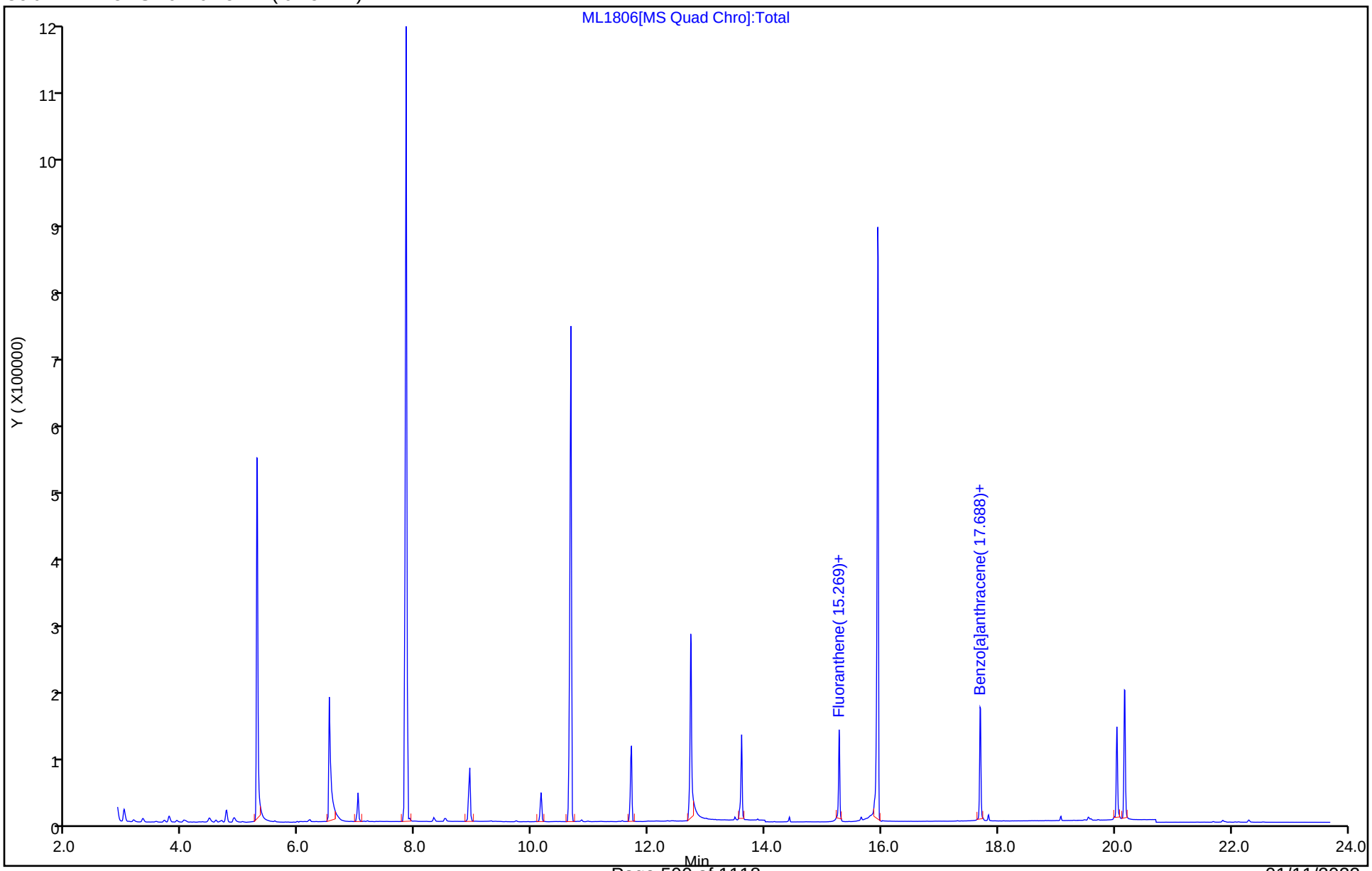
MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 05-Jan-2022 12:12:28 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Environment Testing LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1806.D				
Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5	Worklist Smp#:	7
Client ID:	MW-8D-20211220				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

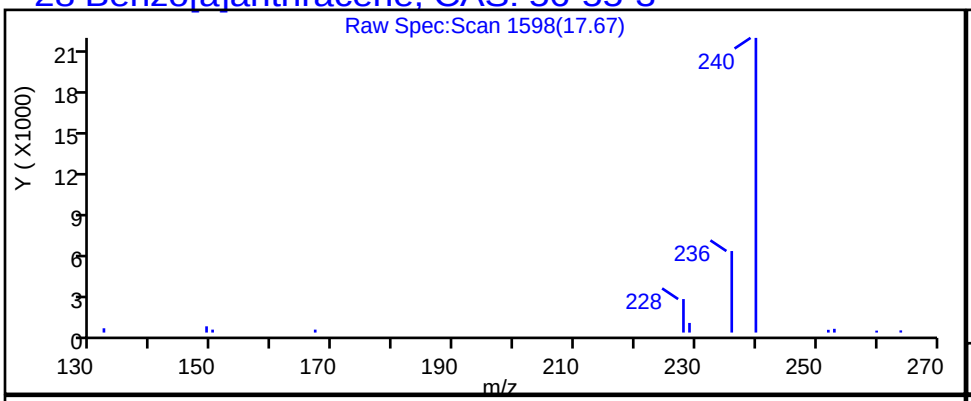
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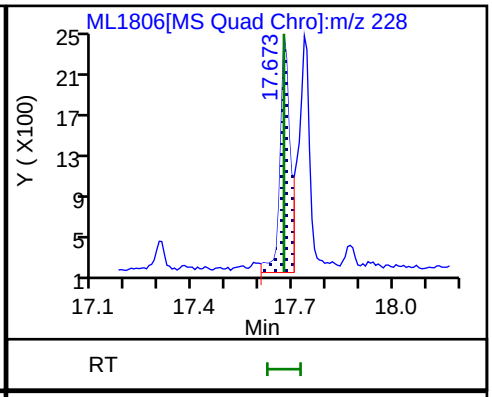


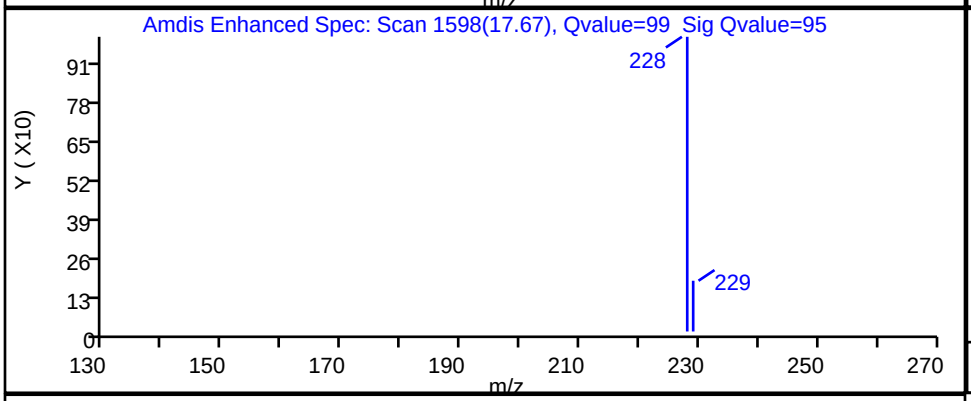
Eurofins Lancaster Laboratories Environment Testing LLC

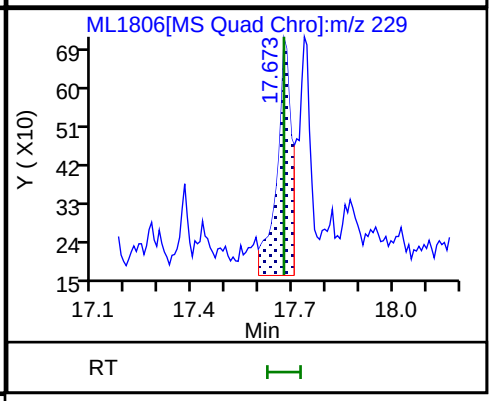
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Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5
Client ID:	MW-8D-20211220		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

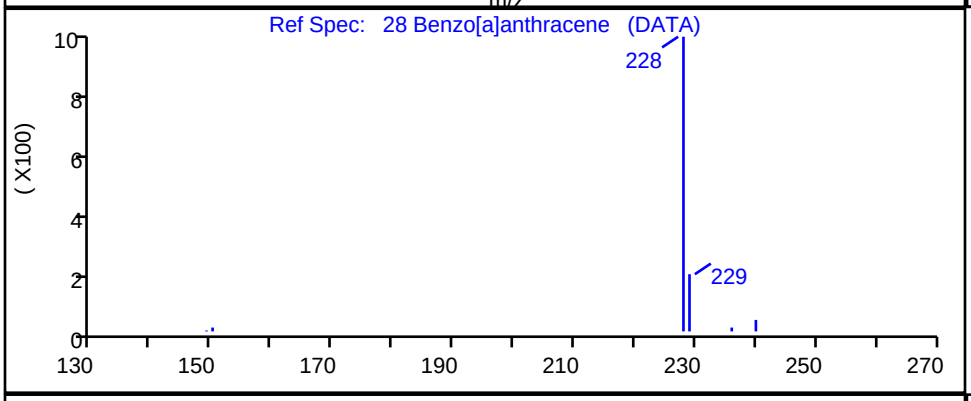
28 Benzo[a]anthracene, CAS: 56-55-3

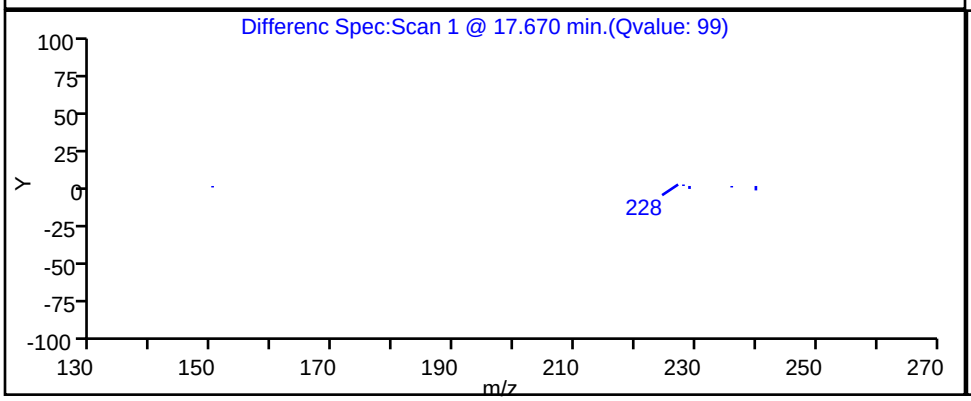


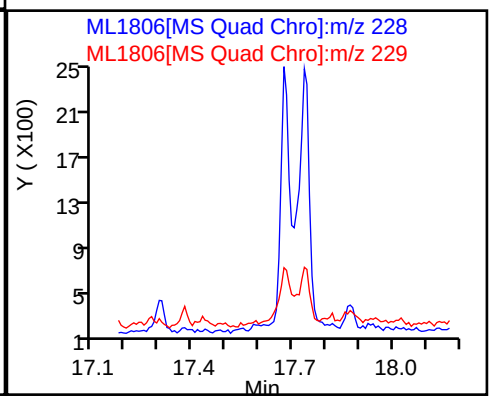








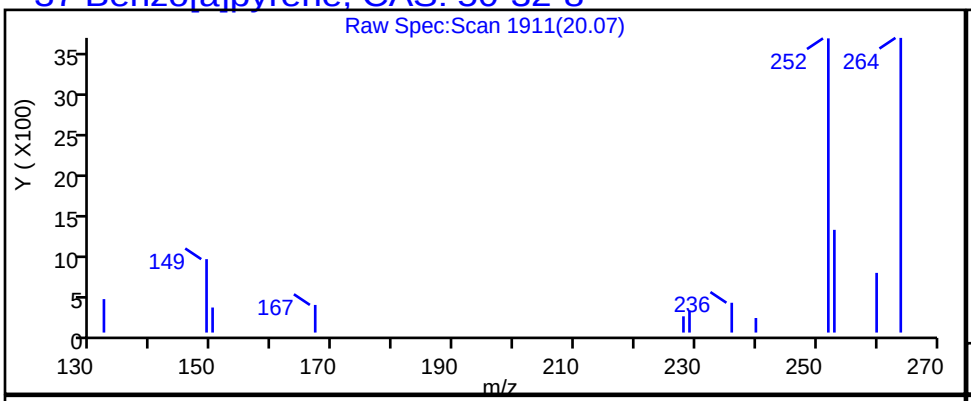


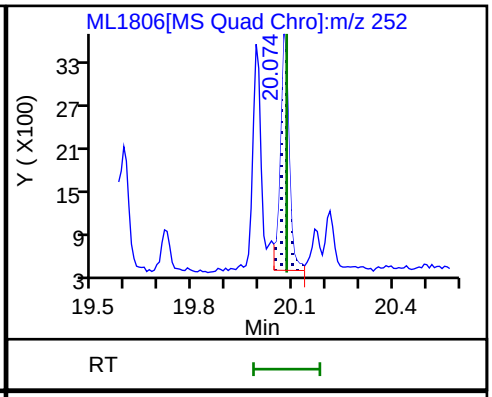


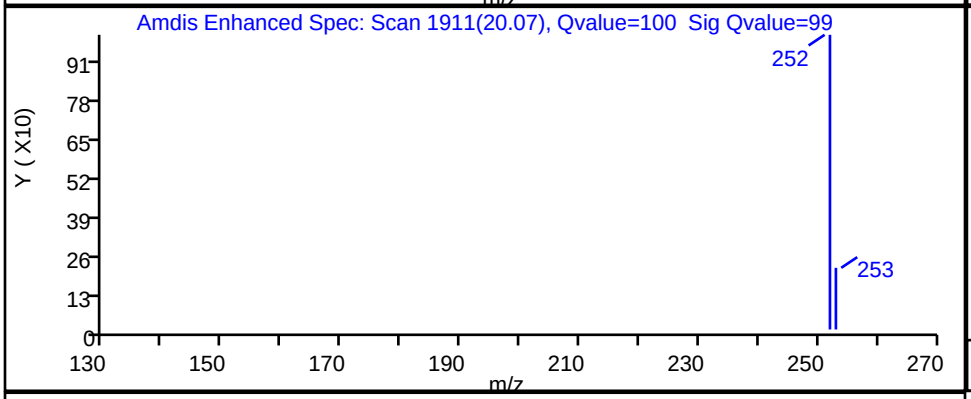
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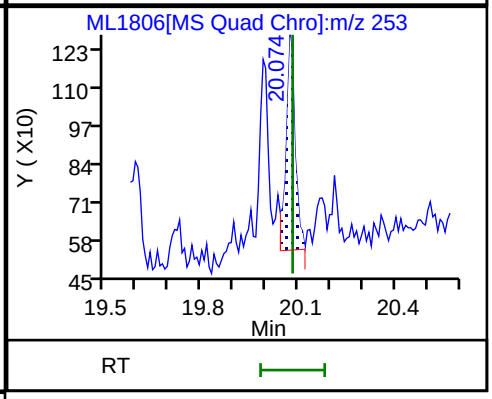
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Client ID:	MW-8D-20211220		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 7
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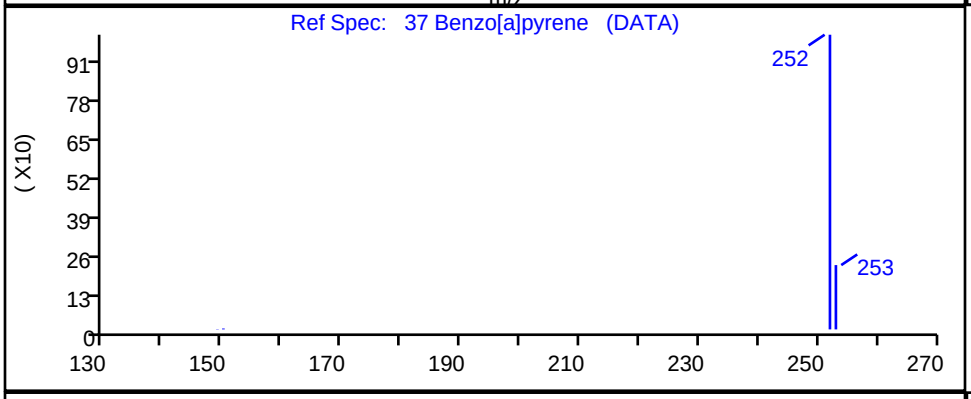
37 Benzo[a]pyrene, CAS: 50-32-8

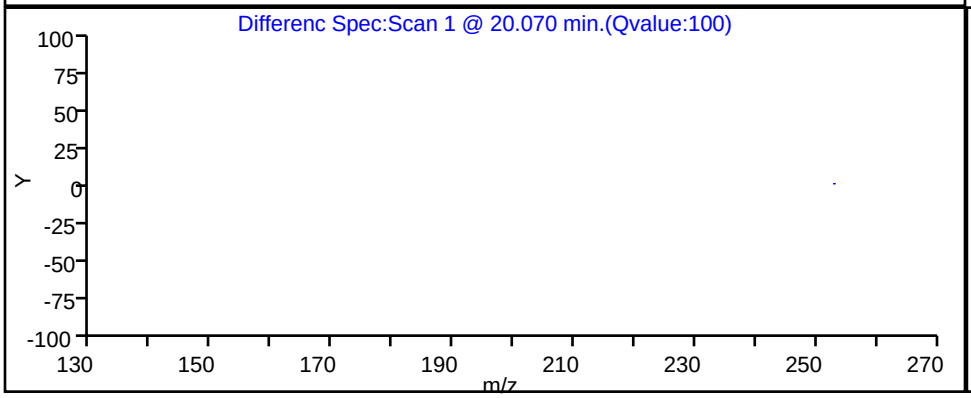


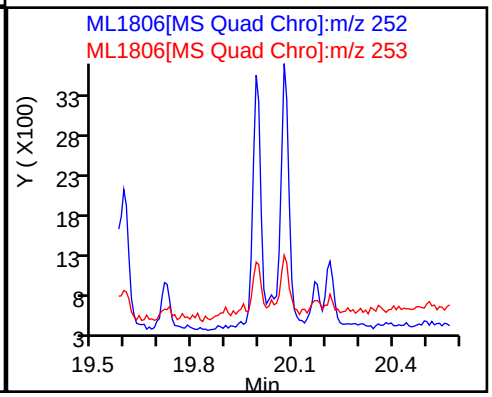












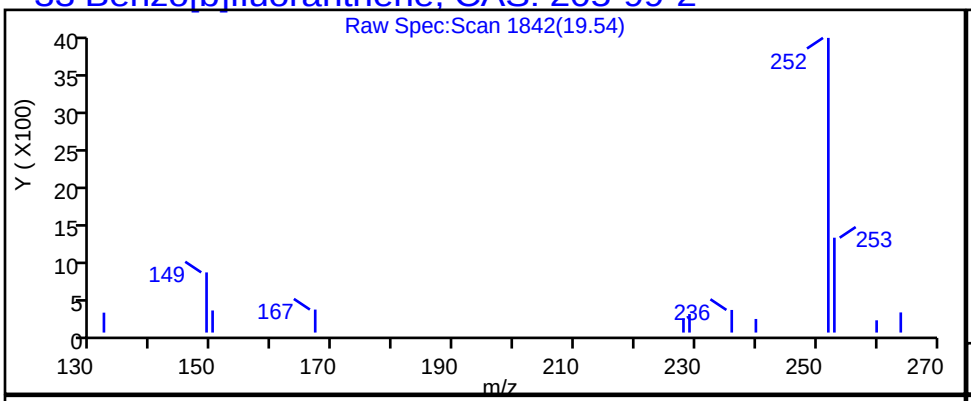
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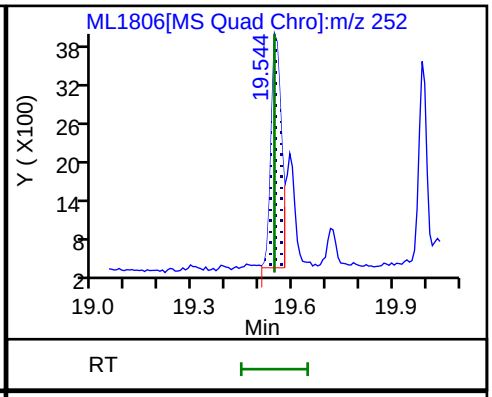
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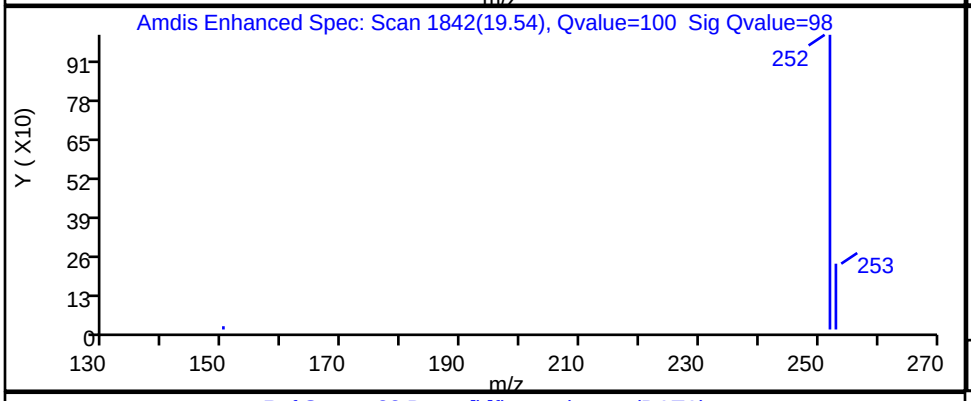
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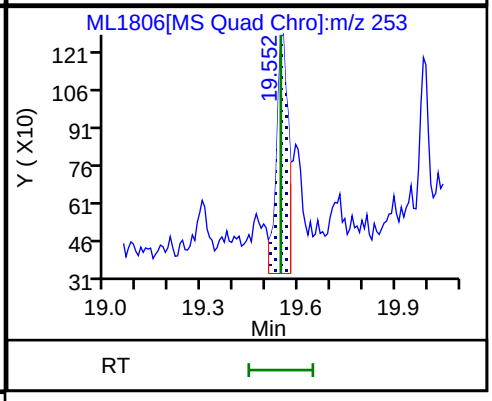
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Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

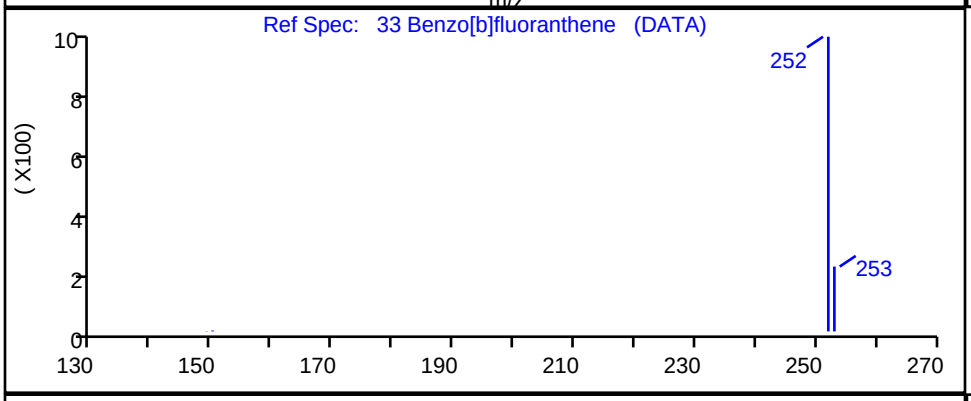
33 Benzo[b]fluoranthene, CAS: 205-99-2

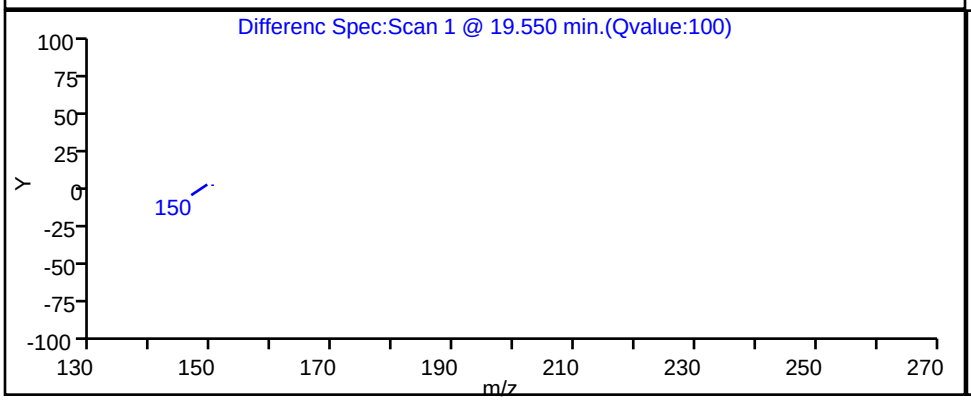


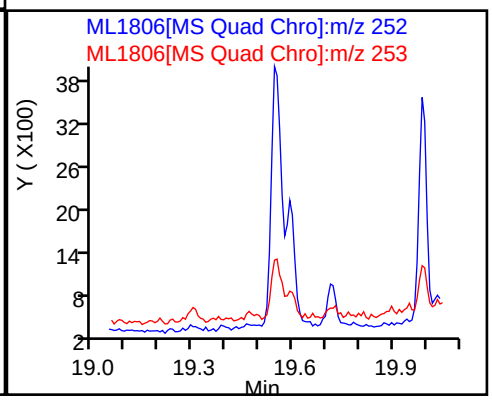












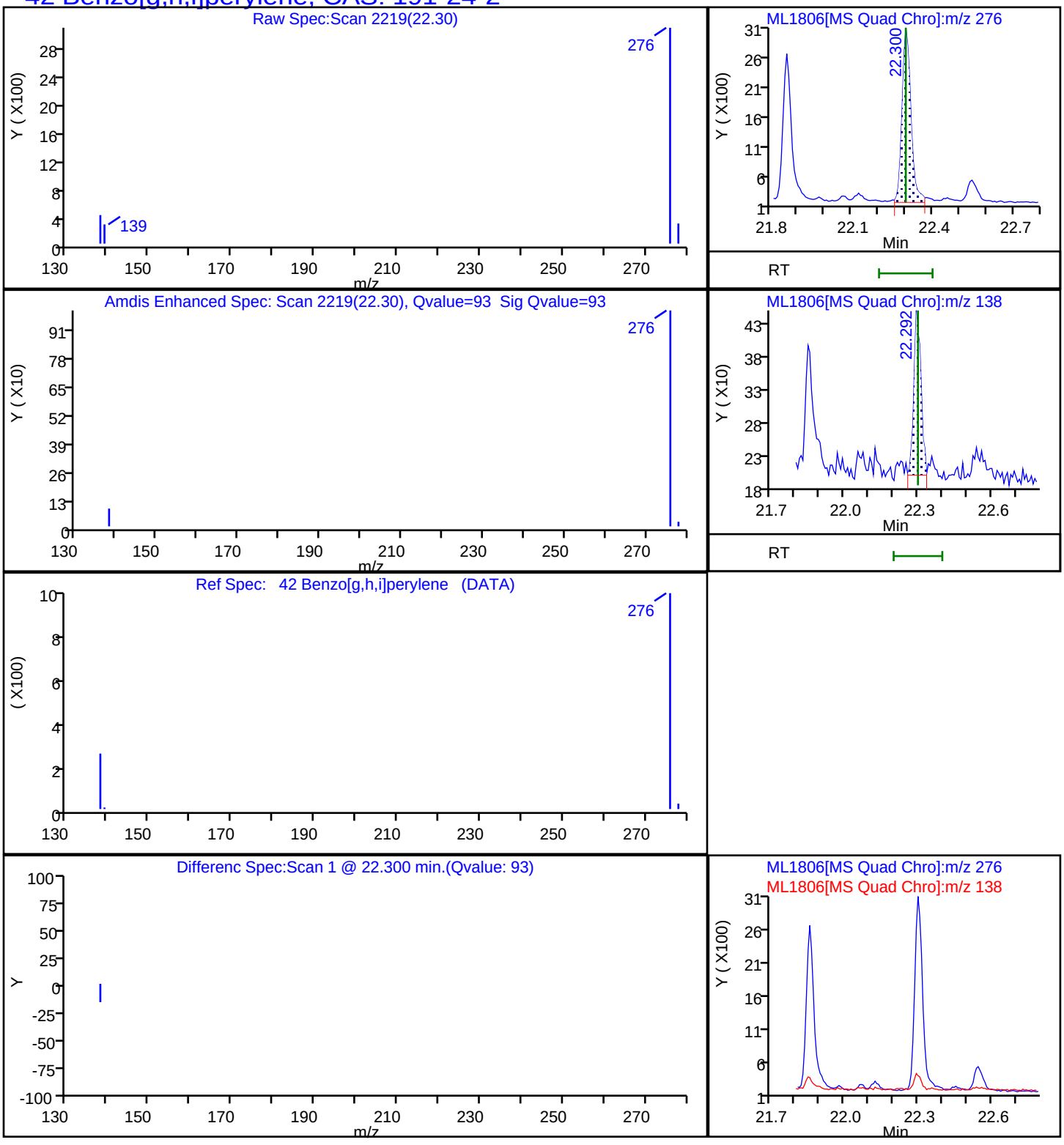
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Client ID:	MW-8D-20211220				
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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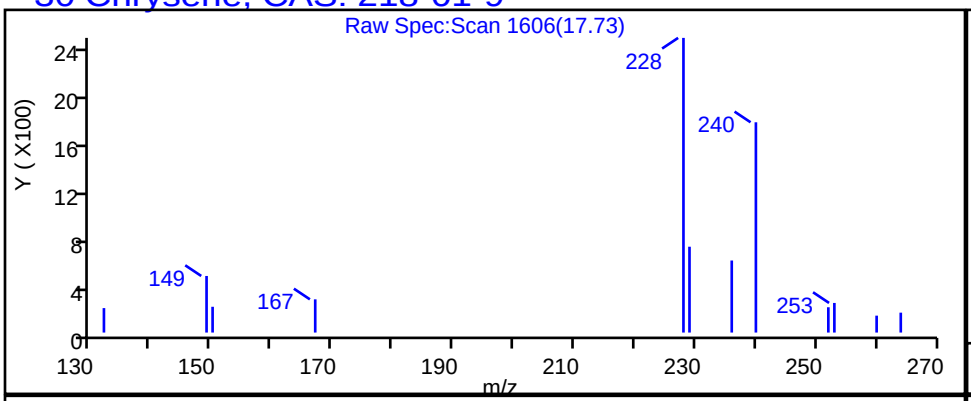
42 Benzo[g,h,i]perylene, CAS: 191-24-2

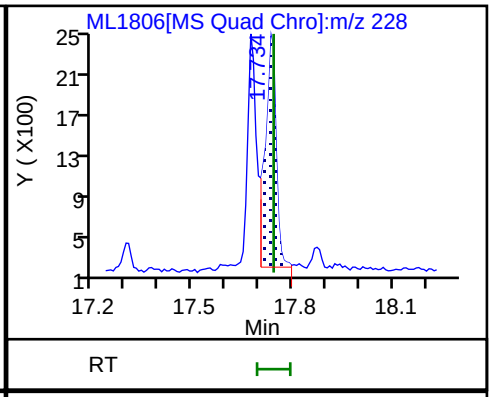


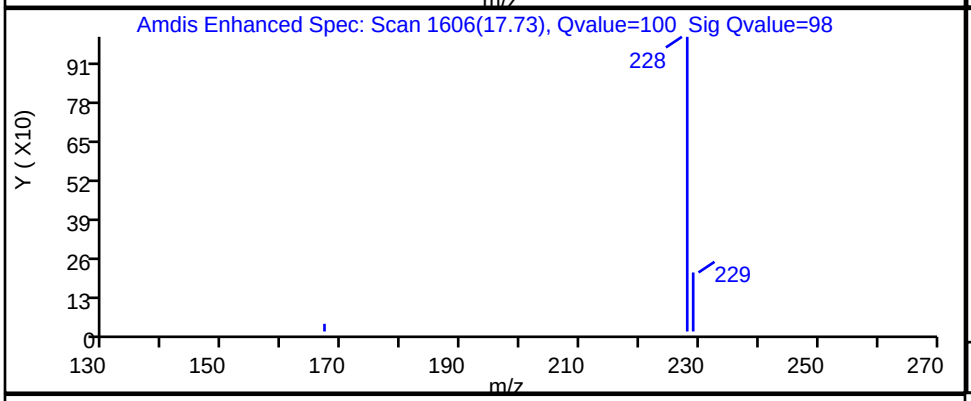
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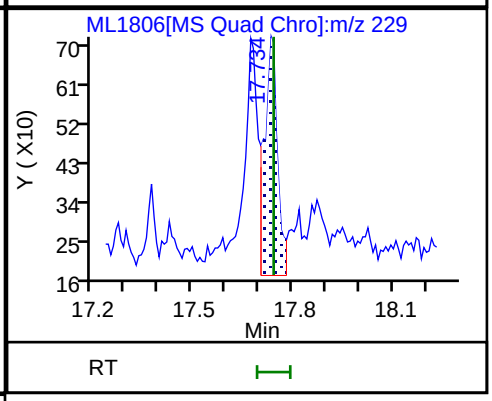
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

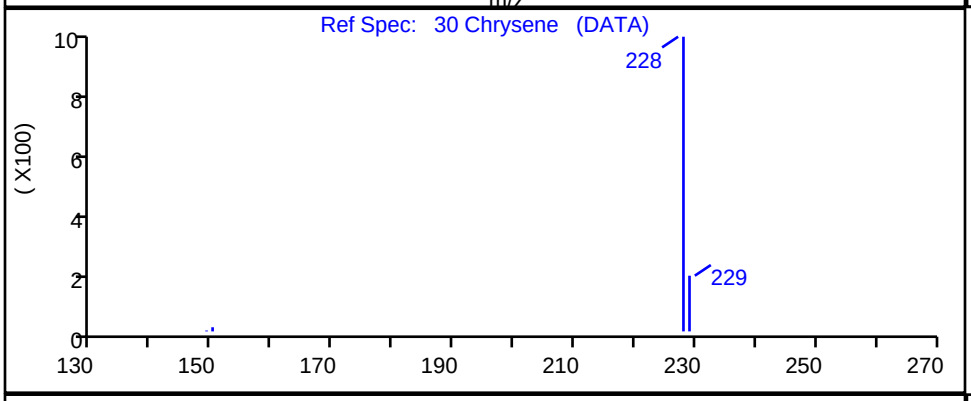
30 Chrysene, CAS: 218-01-9

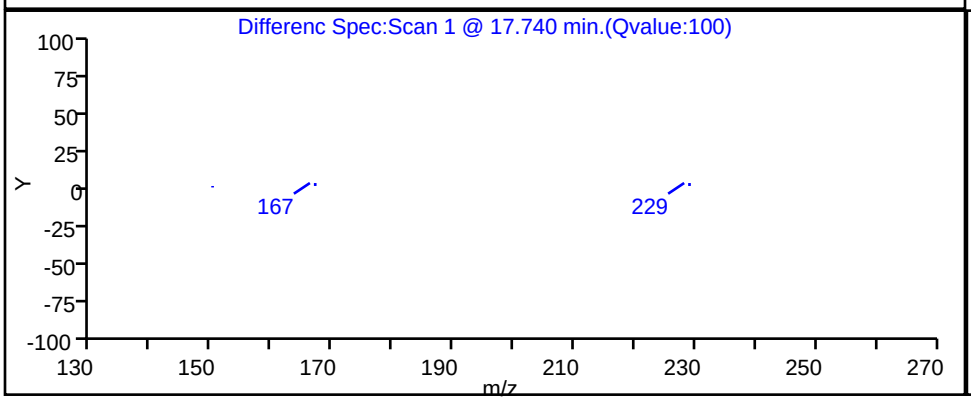


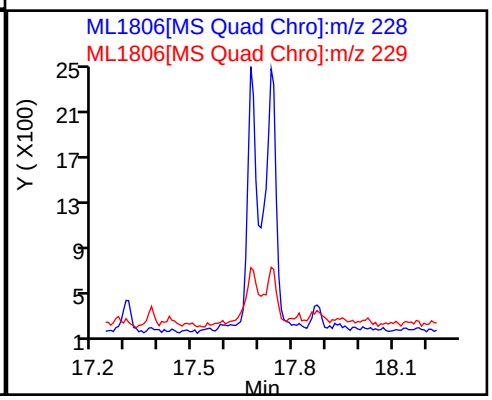












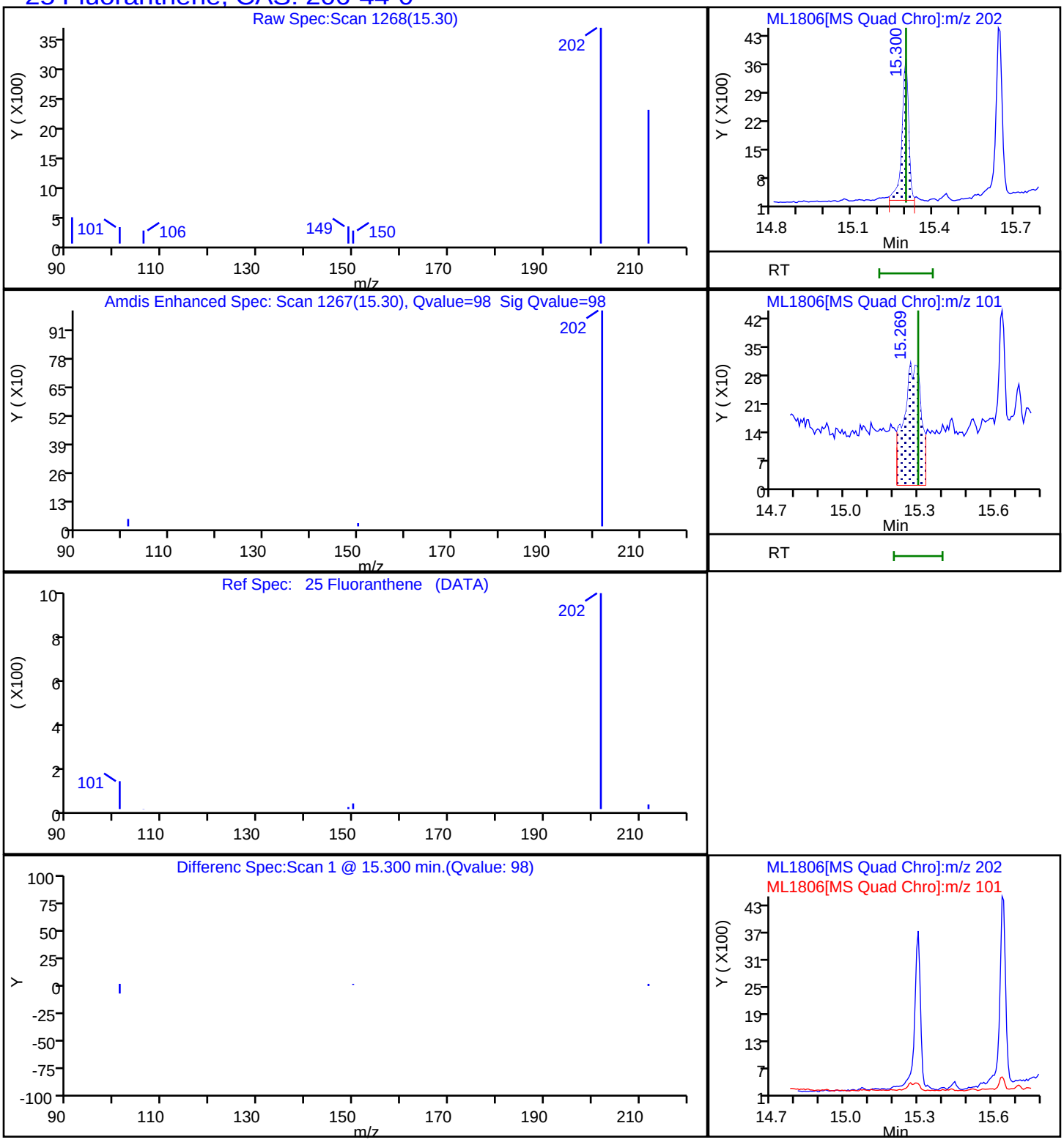
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Eurofins Lancaster Laboratories Environment Testing LLC

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Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
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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

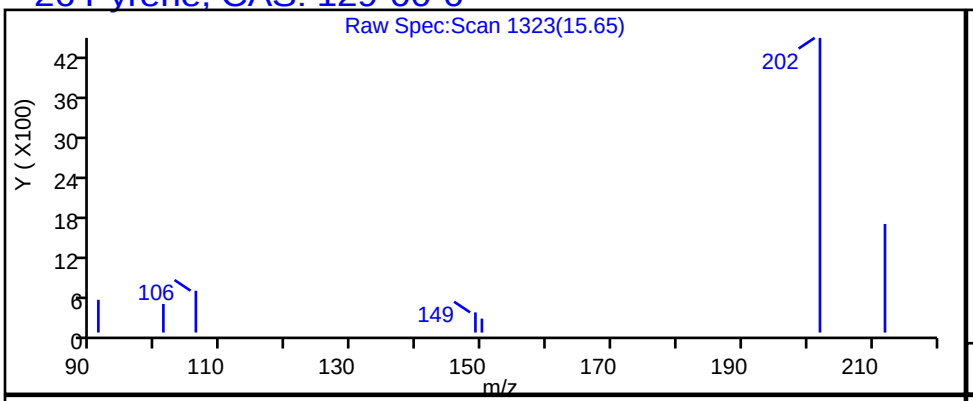


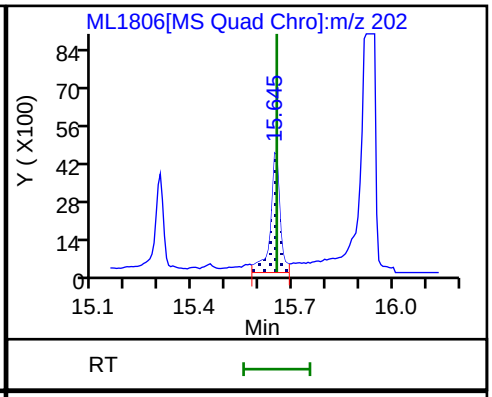
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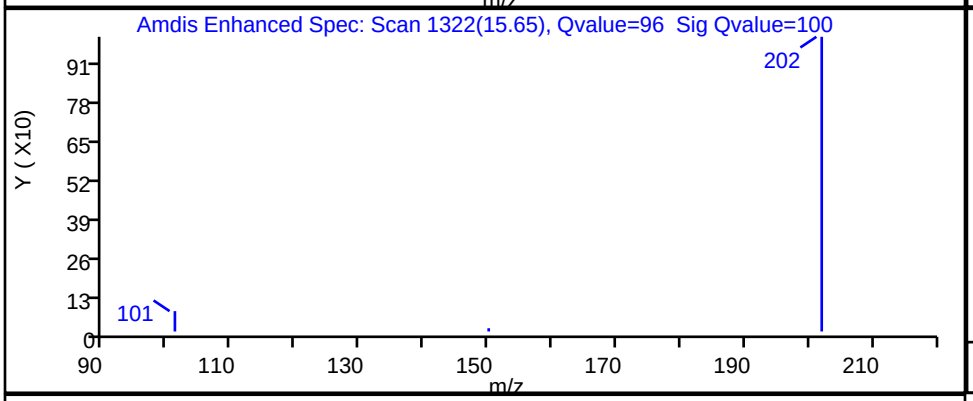
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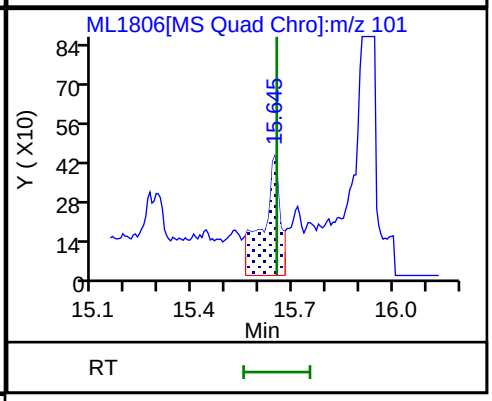
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

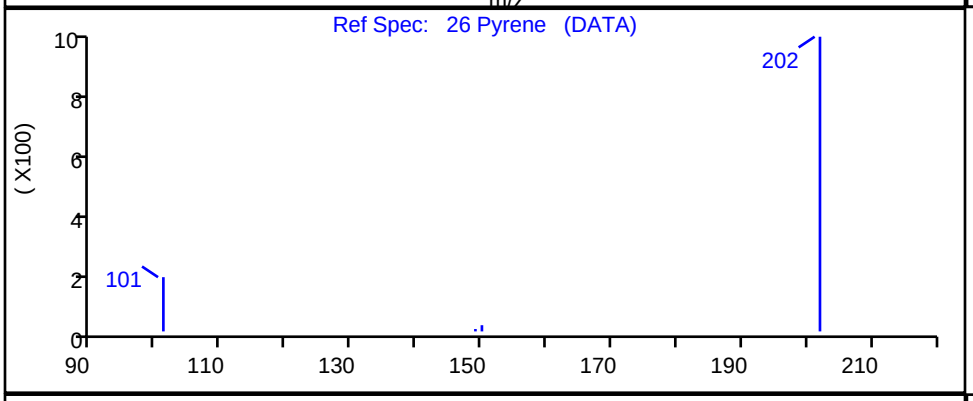
26 Pyrene, CAS: 129-00-0

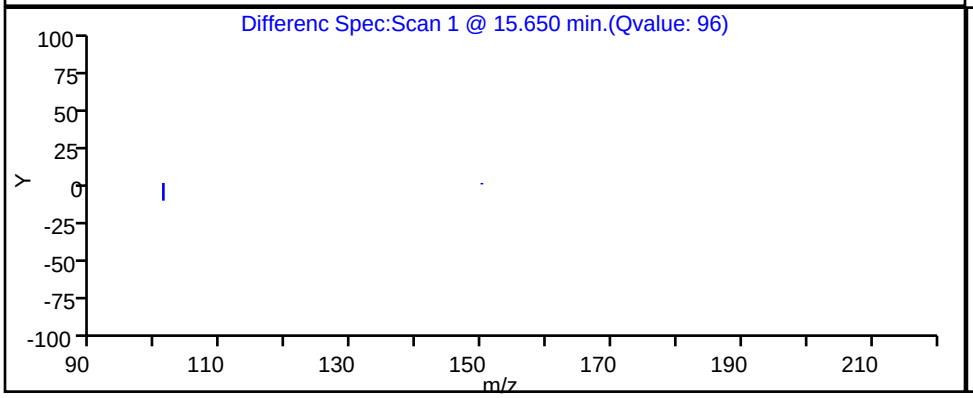


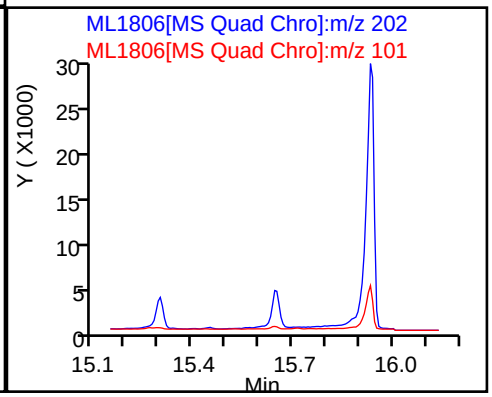












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

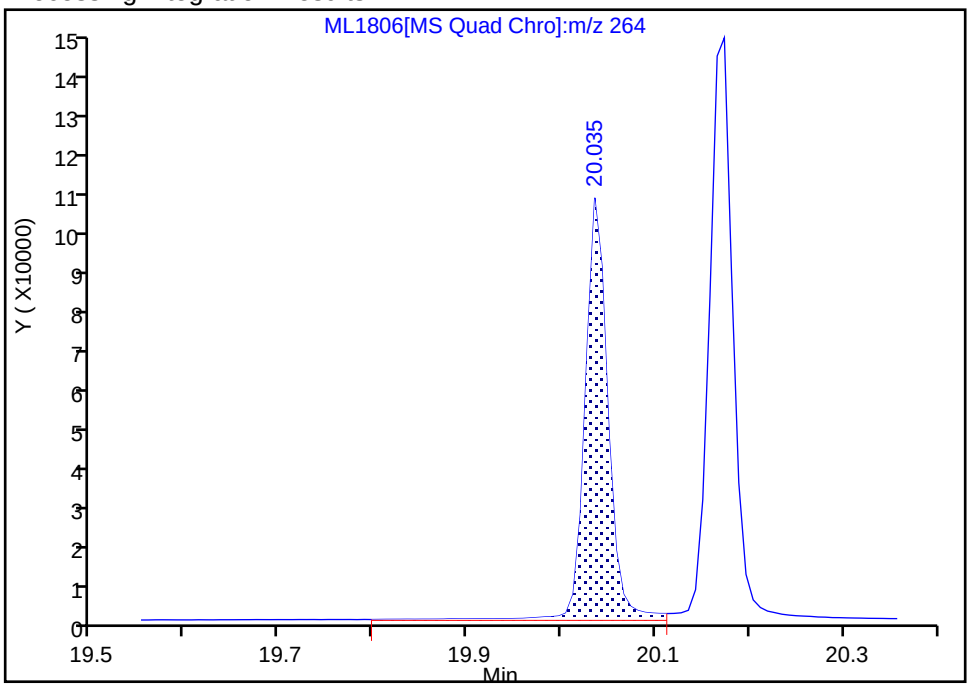
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 36 Benzo(a)pyrene-d12 (Surr), CAS: 63466-71-7

Signal: 1

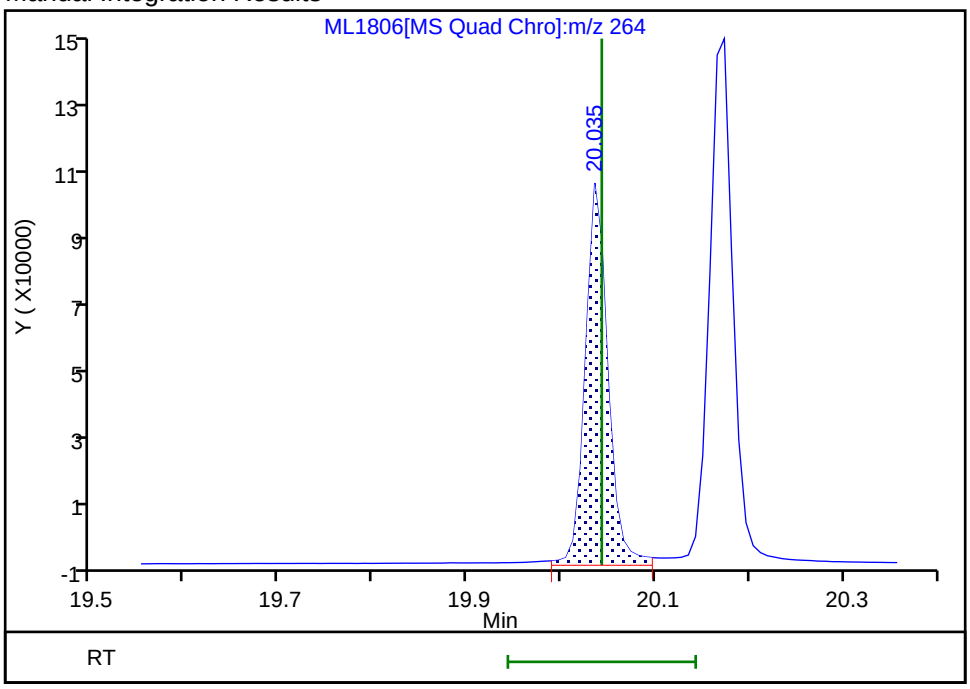
Processing Integration Results

RT: 20.04
Area: 180738
Amount: 0.193778
Amount Units: ug/ml



Manual Integration Results

RT: 20.04
Area: 176700
Amount: 0.189449
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:06:28

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

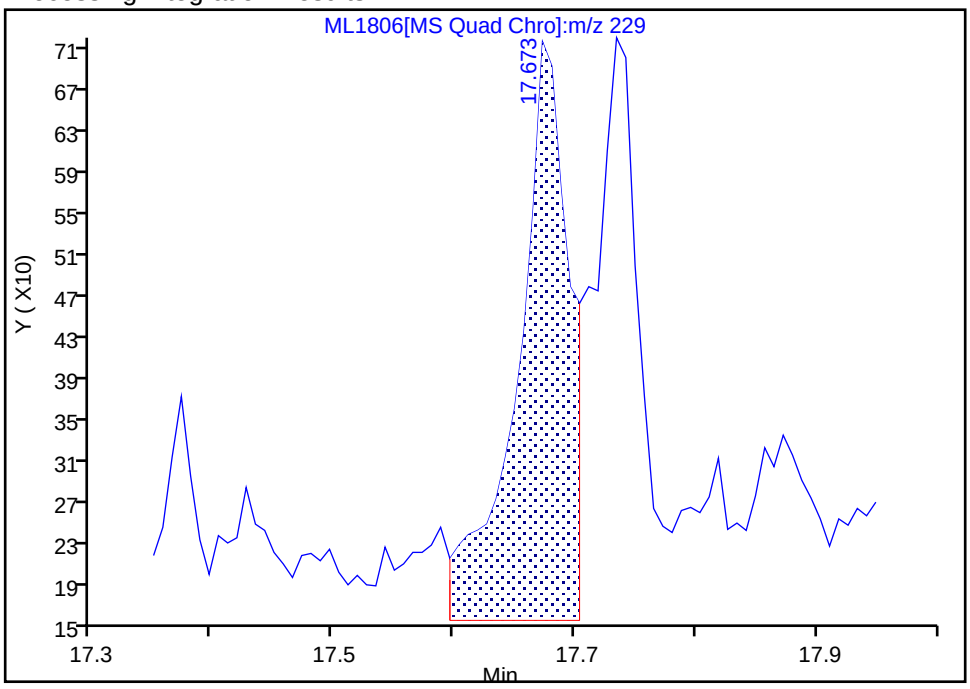
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Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585		
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 2

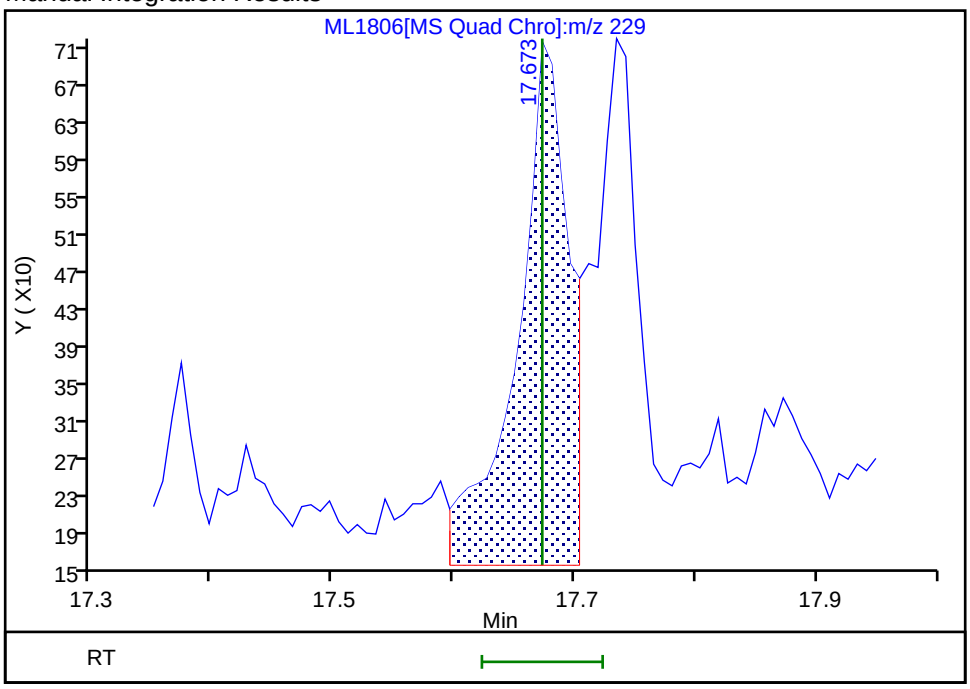
Processing Integration Results

RT: 17.67
Area: 1597
Amount: 0.004365
Amount Units: ug/ml



Manual Integration Results

RT: 17.67
Area: 1597
Amount: 0.004365
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:06:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

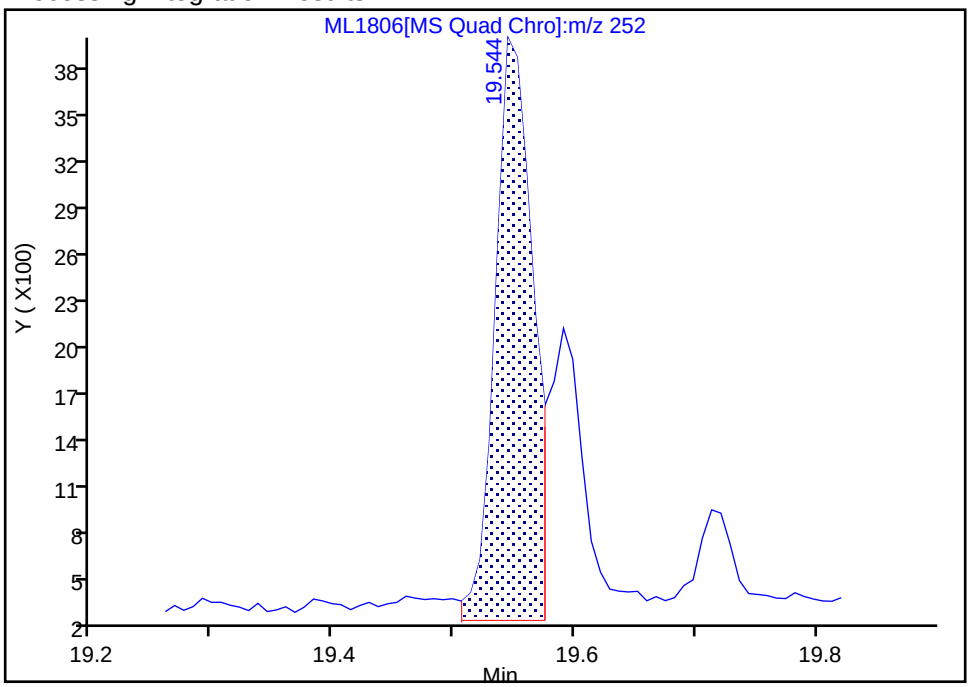
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Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585		
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

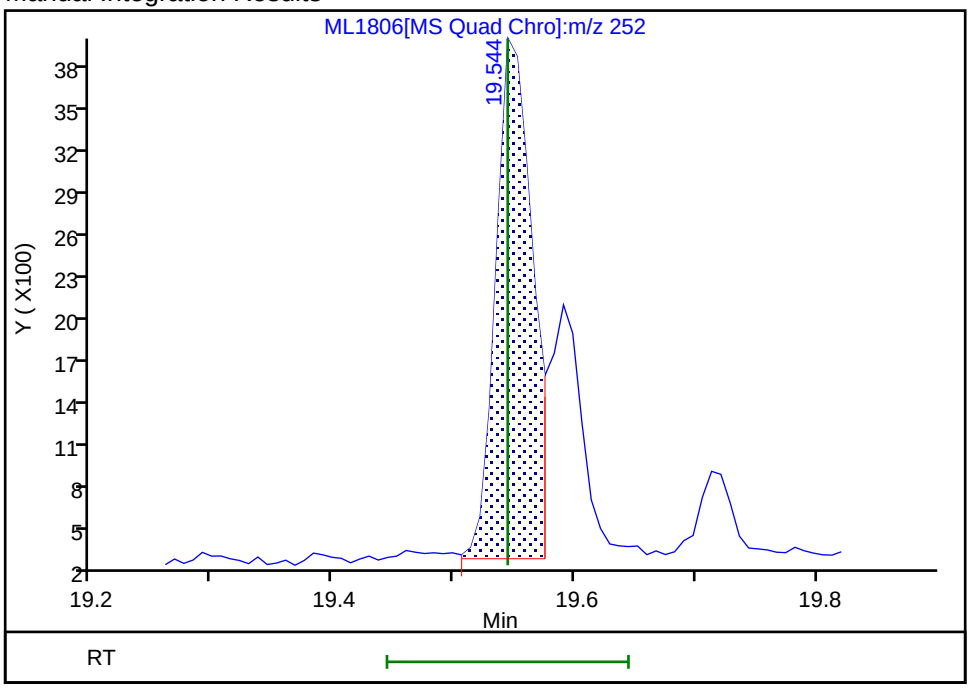
Processing Integration Results

RT: 19.54
Area: 7809
Amount: 0.006321
Amount Units: ug/ml



Manual Integration Results

RT: 19.54
Area: 7412
Amount: 0.005999
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:06:18

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

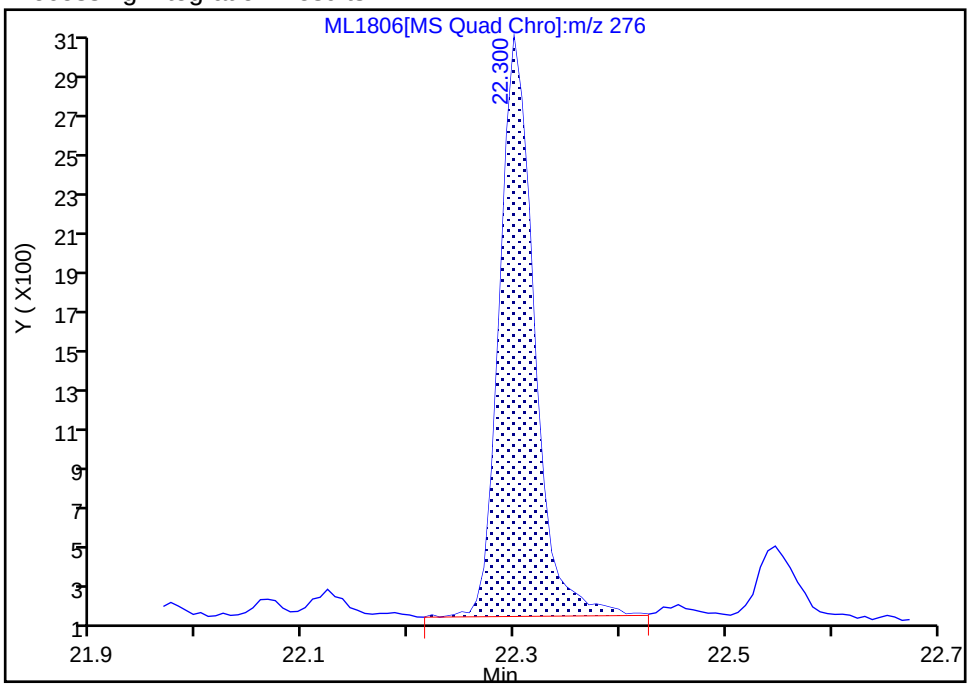
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Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585		
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

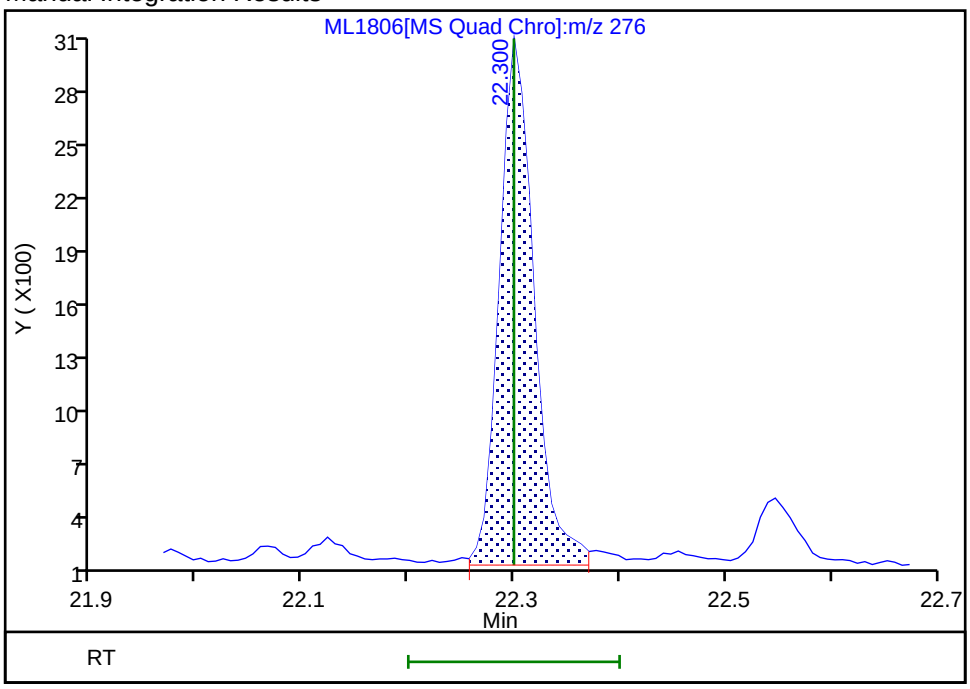
Processing Integration Results

RT: 22.30
Area: 6635
Amount: 0.004438
Amount Units: ug/ml



Manual Integration Results

RT: 22.30
Area: 6639
Amount: 0.004441
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:06:49

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

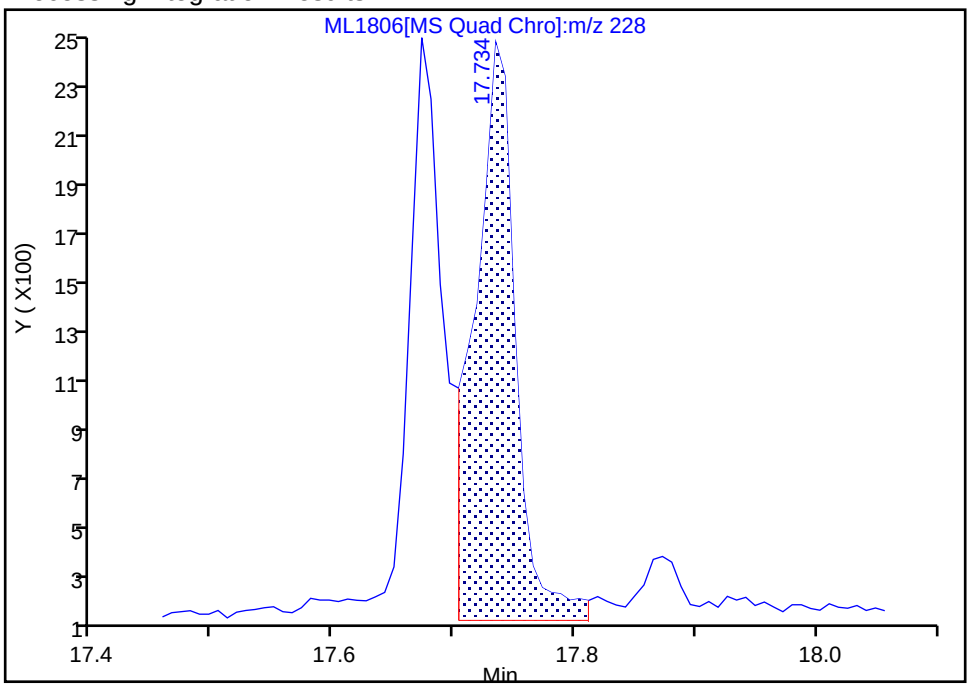
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Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585		
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

Signal: 1

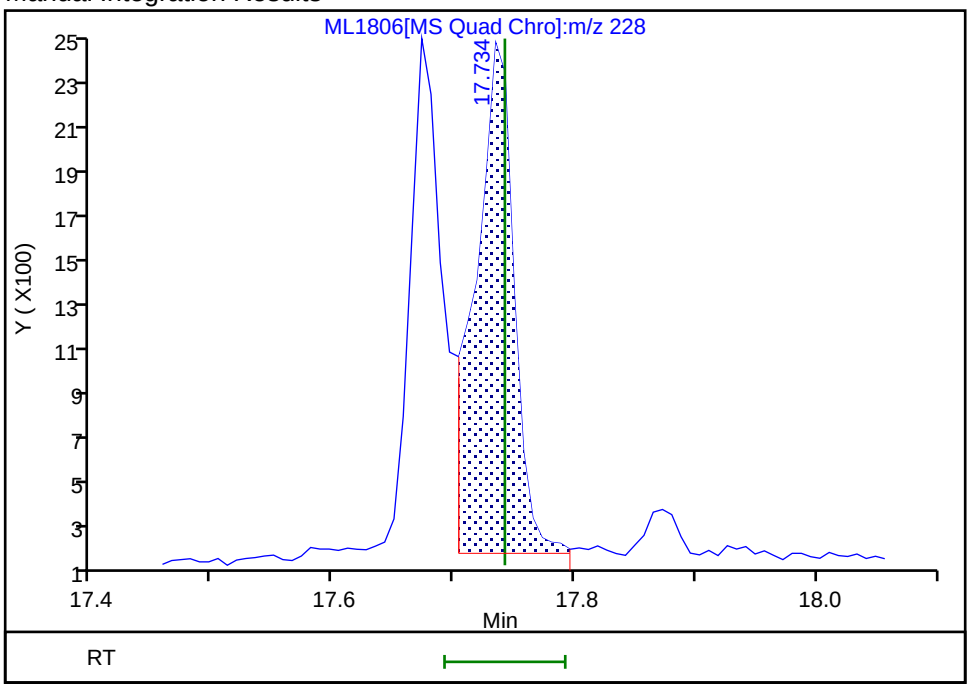
Processing Integration Results

RT: 17.73
Area: 5353
Amount: 0.004572
Amount Units: ug/ml



Manual Integration Results

RT: 17.73
Area: 4928
Amount: 0.004209
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:06:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

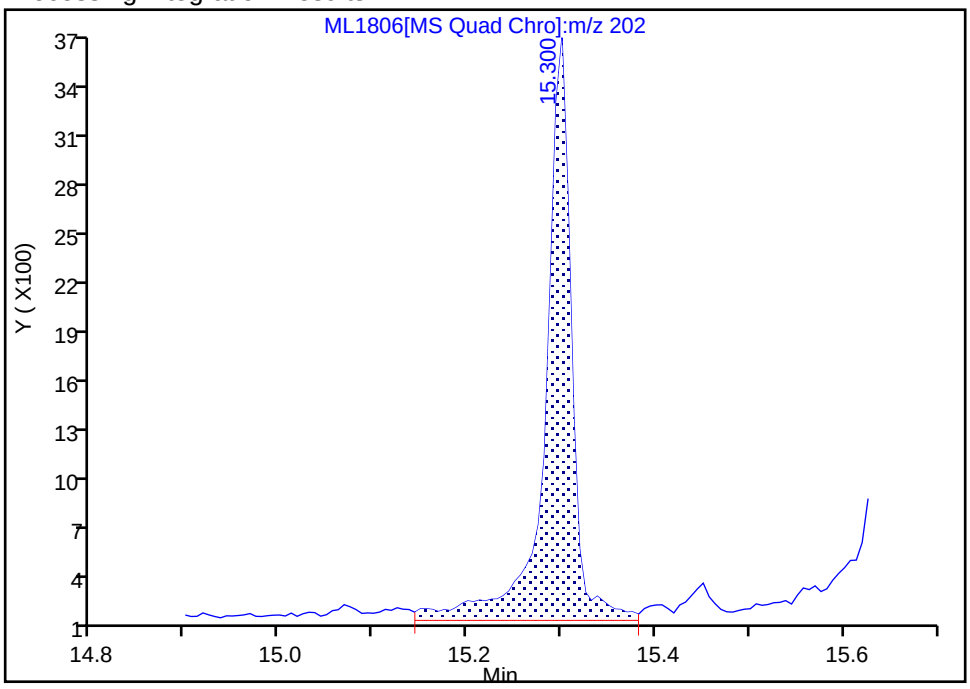
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1806.D				
Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585		
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	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		

25 Fluoranthene, CAS: 206-44-0

Signal: 1

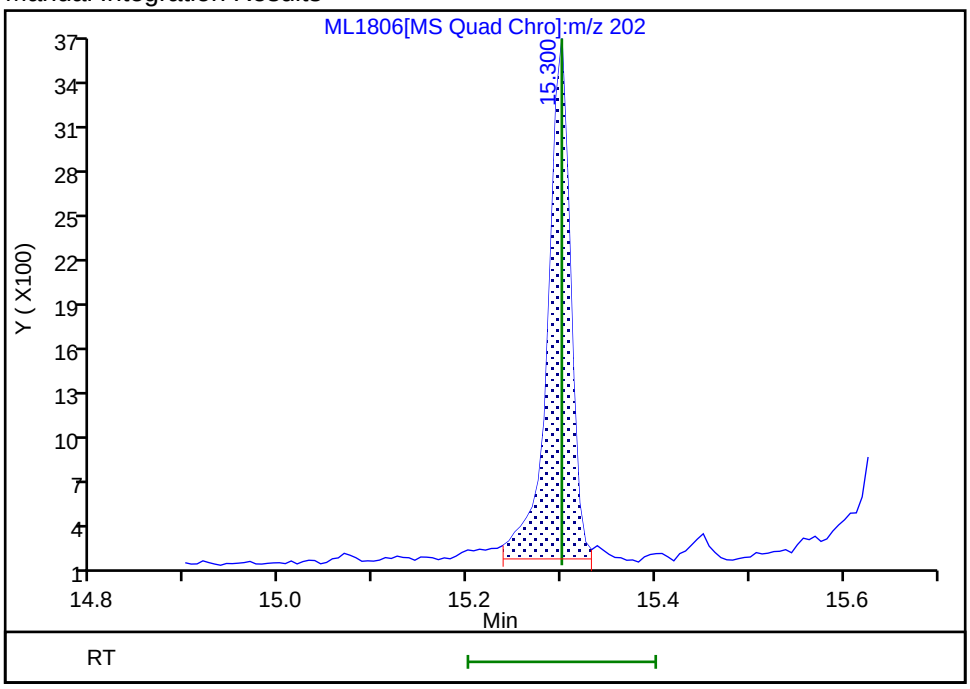
Processing Integration Results

RT: 15.30
Area: 7016
Amount: 0.006704
Amount Units: ug/ml



Manual Integration Results

RT: 15.30
Area: 5899
Amount: 0.005637
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:05:52

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing LLC

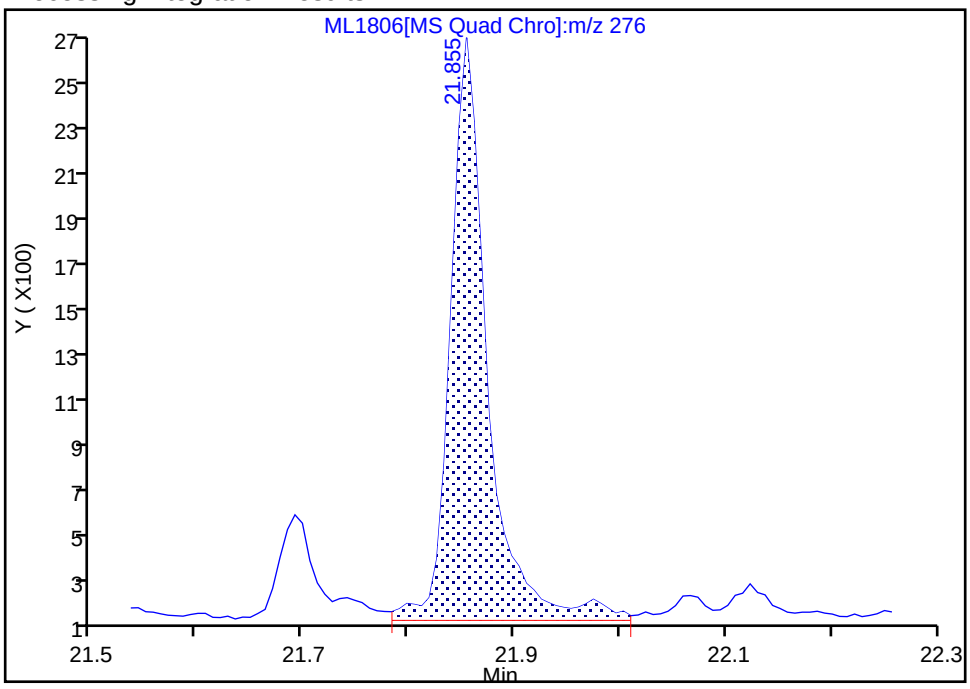
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1806.D				
Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585		
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	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

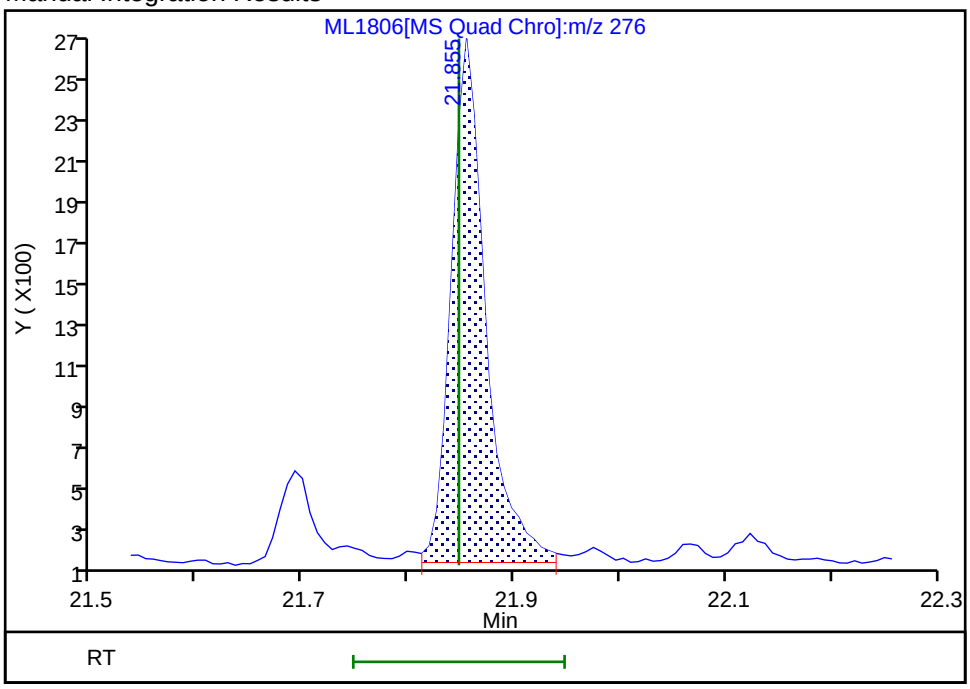
Processing Integration Results

RT: 21.85
Area: 6063
Amount: 0.004835
Amount Units: ug/ml



Manual Integration Results

RT: 21.85
Area: 5582
Amount: 0.004451
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:06:39

Audit Action: Manually Integrated Audit Reason: Baseline

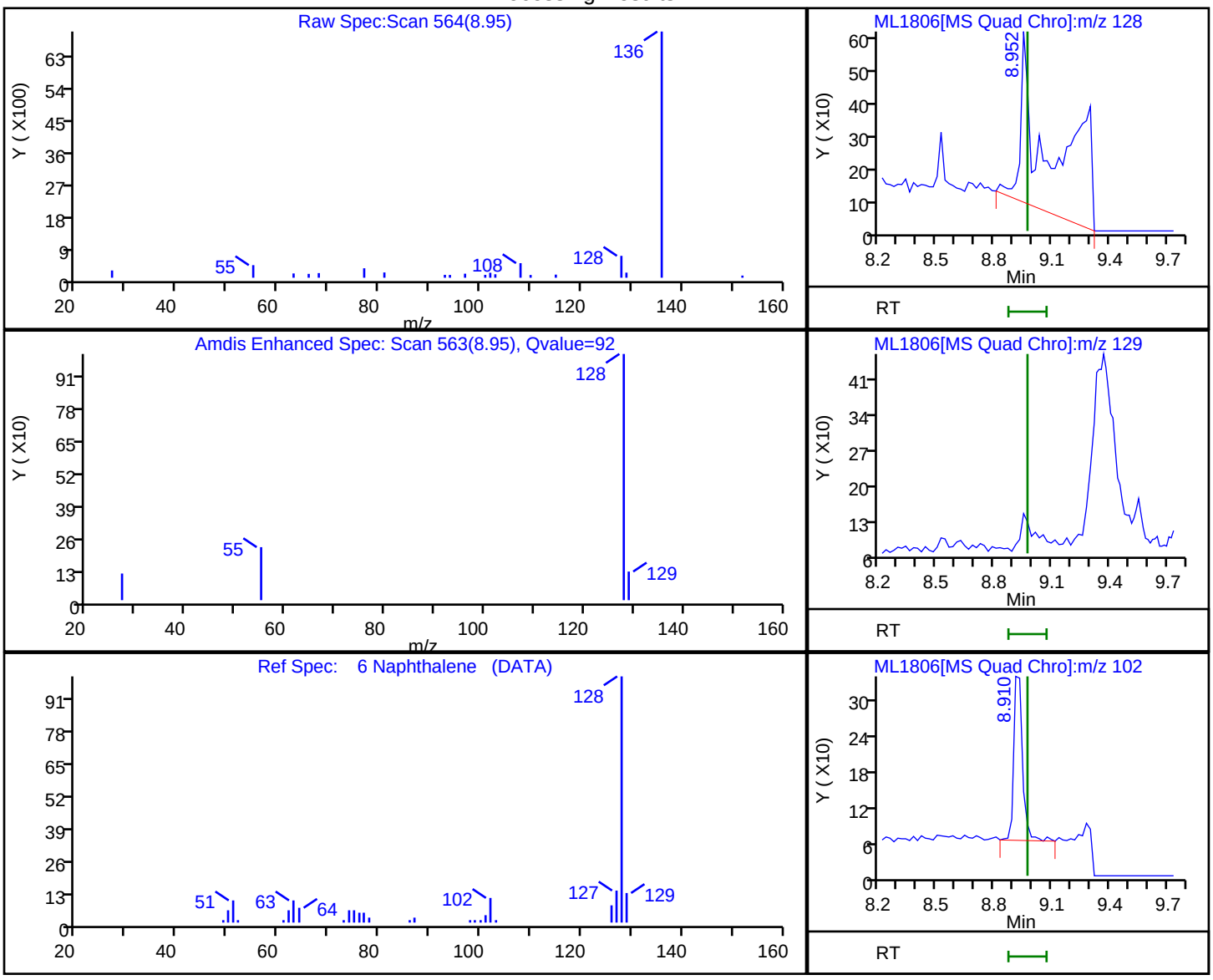
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1806.D				
Injection Date:	31-Dec-2021 16:43:18	Instrument ID:	HP21585		
Lims ID:	410-68043-B-5-A	Lab Sample ID:	410-68043-5		
Client ID:	MW-8D-20211220				
Operator ID:	art12405	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		

6 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
8.95	128.00	5682	0.010168
8.97	129.00	0	
8.91	102.00	891	

Reviewer: transuea, 04-Jan-2022 13:05:37

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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7S-20211221 Lab Sample ID: 410-68043-6

Matrix: Ground Water Lab File ID: NL1213.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 09:16

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 238.5(mL) Date Analyzed: 12/27/2021 20:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.087		0.052	0.010
208-96-8	Acenaphthylene	0.015	J	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	0.017	J	0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*+	0.052	0.021
91-20-3	Naphthalene	ND		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)	79		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	92		36-111
93951-69-0	Fluoranthene-d10 (Surr)	91		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1213.D				
Lims ID:	410-68043-A-6-C				
Client ID:	MW-7S-20211221				
Sample Type:	Client				
Inject. Date:	27-Dec-2021 20:13:30	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-68043-A-6-C				
Misc. Info.:	410-0047167-014				
Operator ID:	whs02991	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	28-Dec-2021 06:58:37	Calib Date:	16-Dec-2021 11:36:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1676				
First Level Reviewer: gamblerj		Date:	28-Dec-2021 06:19:52		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	95	86539	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	294238	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	97	3829	0.003113	7M
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	143259	0.2294	
12 Acenaphthylene	152	10.605	10.614	0.011	99	4320	0.003513	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	94	172507	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	100	15838	0.0207	
17 Fluorene	166	11.696	11.696	0.000	98	3648	0.004051	M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	275784	0.2500	
22 Anthracene	178	12.939	12.939	0.015	100	5774	0.005103	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	241296	0.2283	
* 29 Chrysene-d12	240	16.744	16.737	0.007	82	240442	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	98	188919	0.1973	
* 38 Perylene-d12	264	19.183	19.175	0.008	97	264823	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

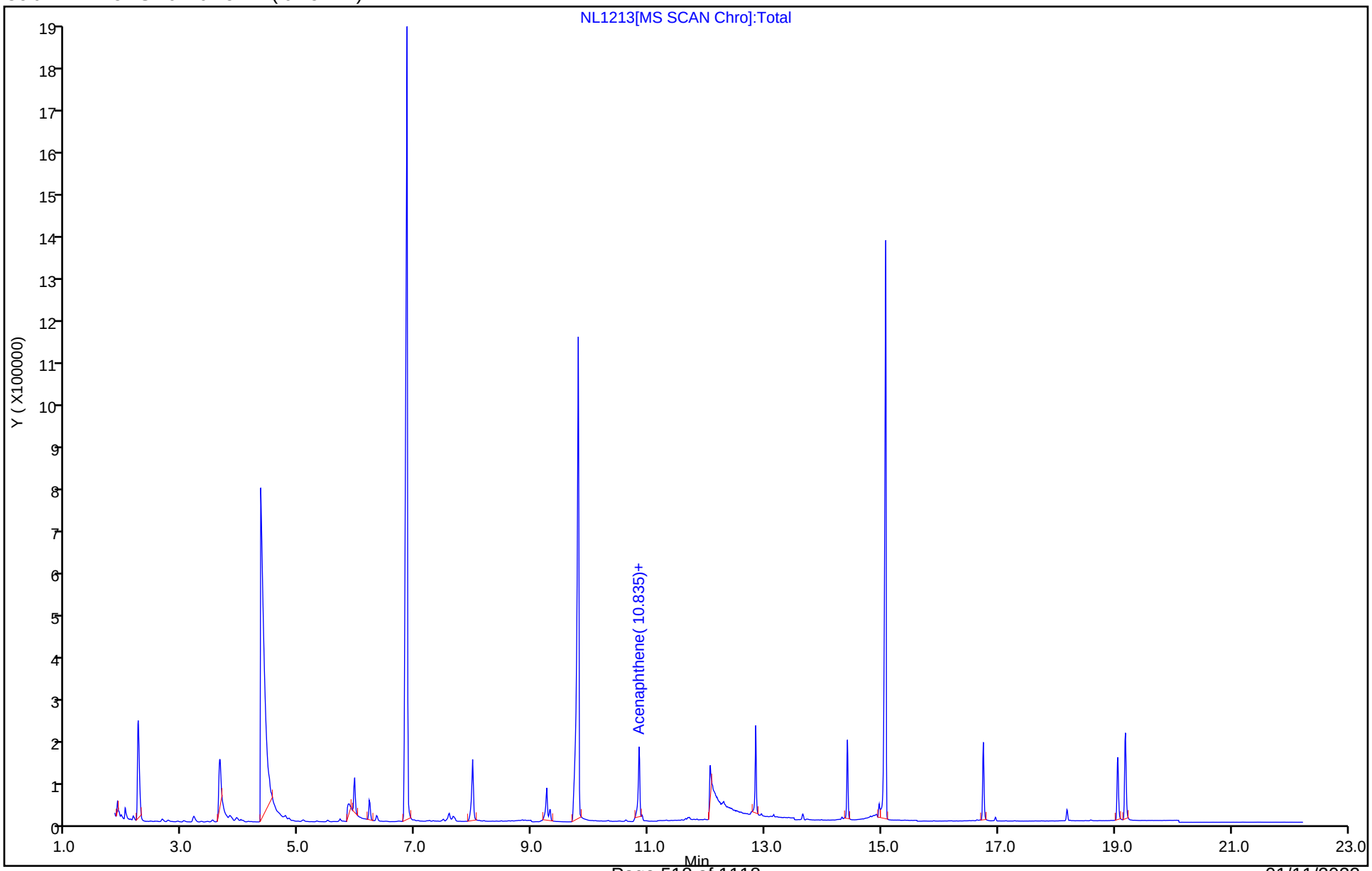
Report Date: 28-Dec-2021 06:59:12 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	27-Dec-2021 20:13:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-6-C	Lab Sample ID:	410-68043-6	Worklist Smp#:	14
Client ID:	MW-7S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

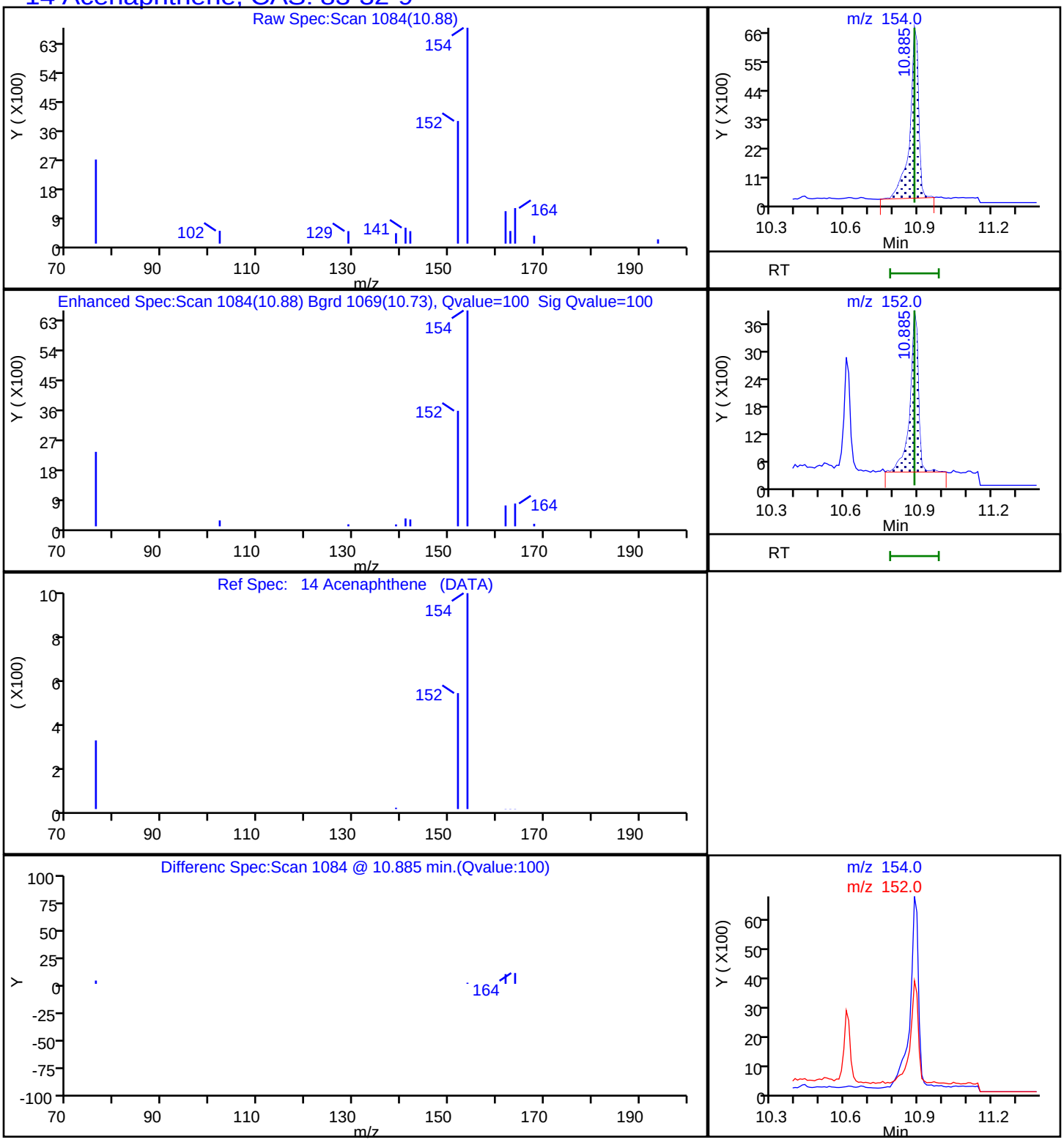
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1213.D				
Injection Date:	27-Dec-2021 20:13:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-6-C	Lab Sample ID:	410-68043-6		
Client ID:	MW-7S-20211221				
Operator ID:	whs02991	ALS Bottle#:	14	Worklist Smp#:	14
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		

14 Acenaphthene, CAS: 83-32-9



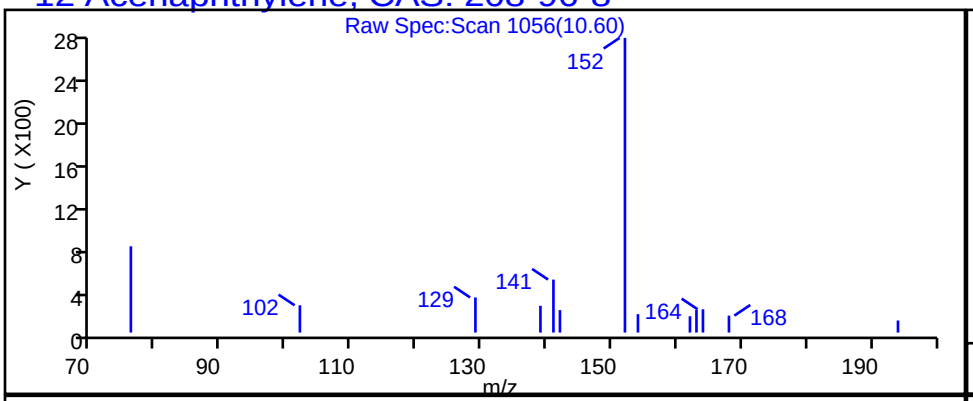
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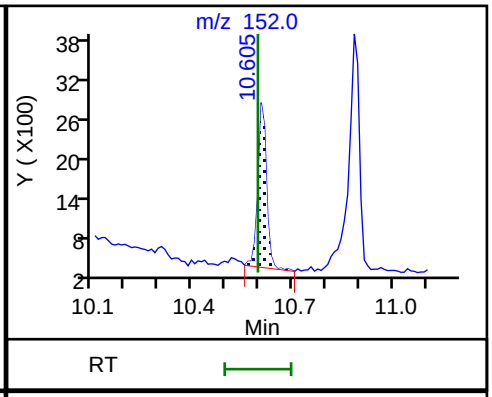
Eurofins Lancaster Laboratories Env, LLC

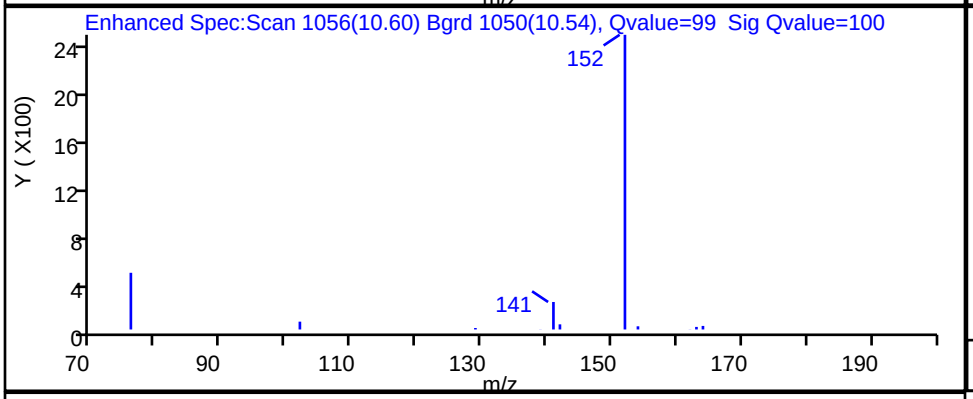
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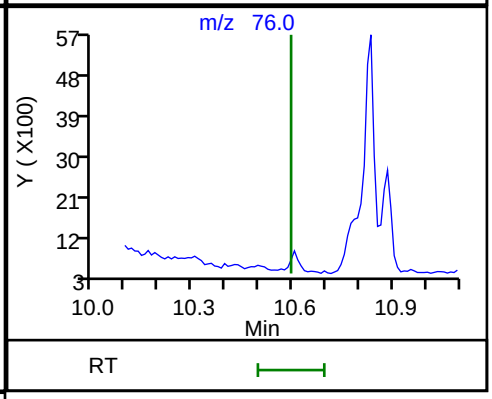
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Lims ID:	410-68043-A-6-C	Lab Sample ID:	410-68043-6		
Client ID:	MW-7S-20211221				
Operator ID:	whs02991	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

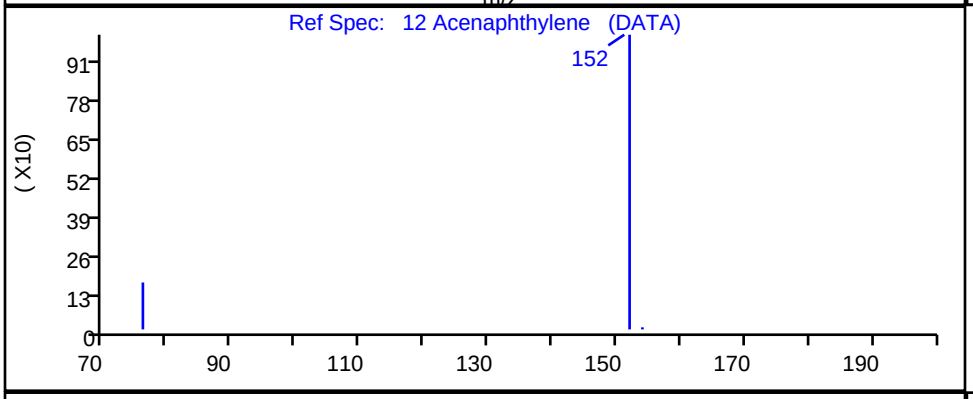
12 Acenaphthylene, CAS: 208-96-8

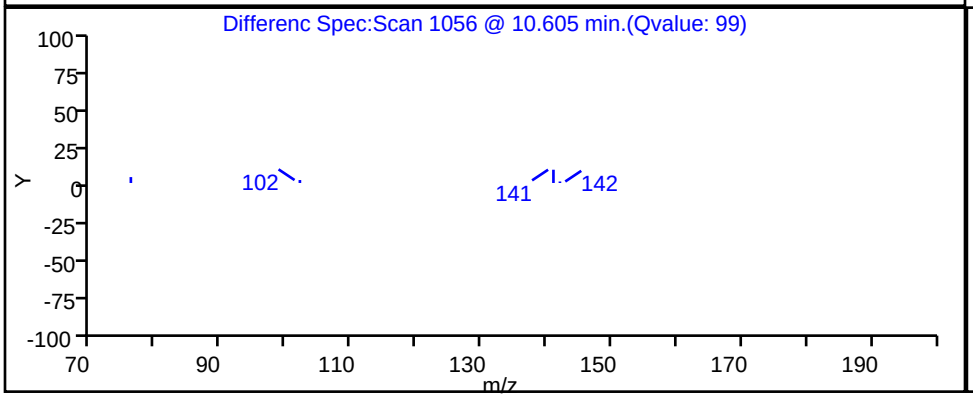


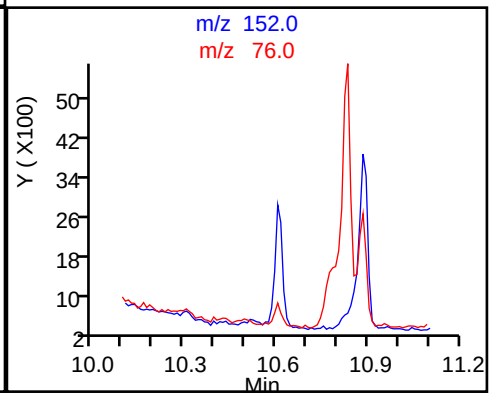












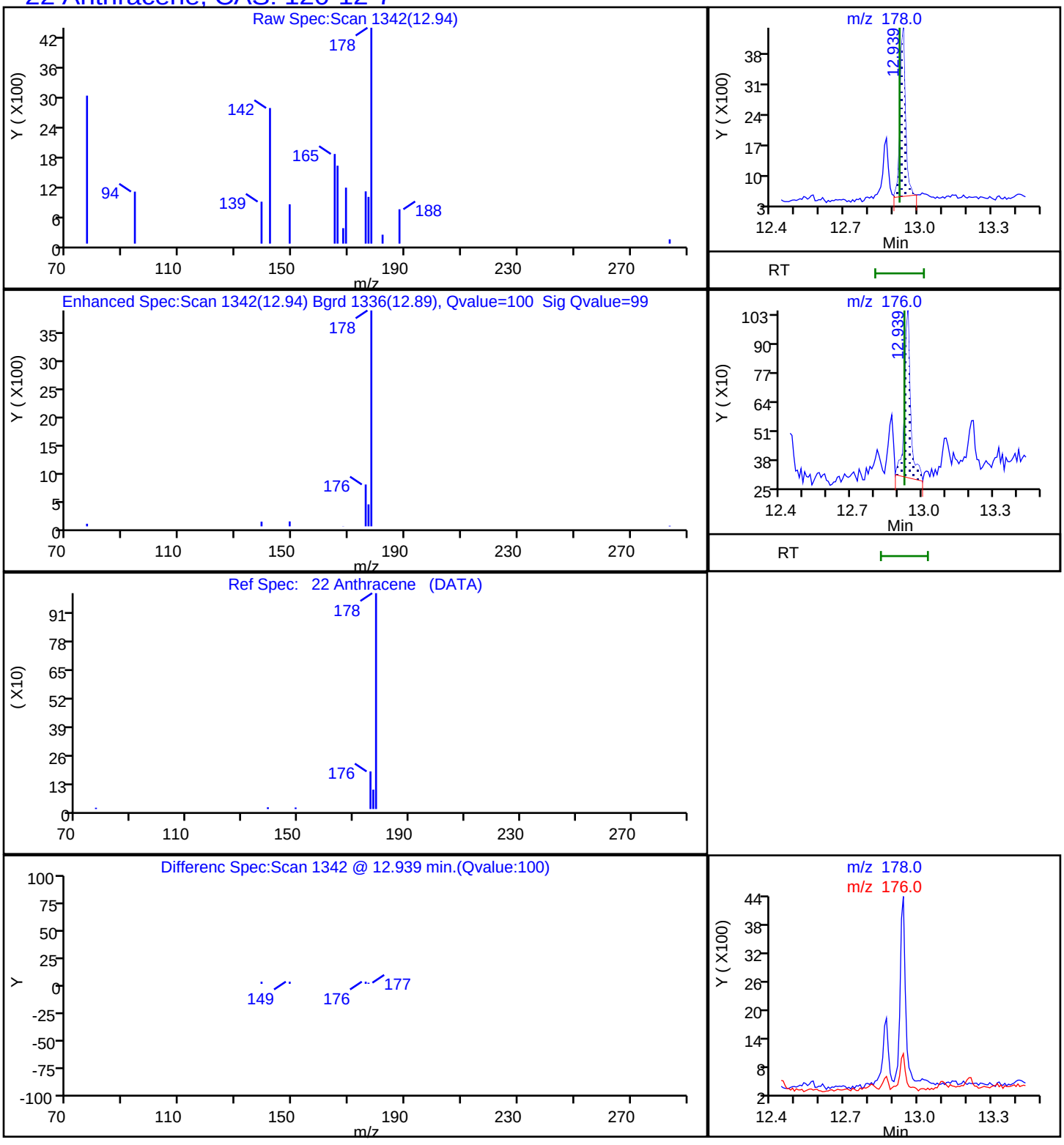
Report Date: 28-Dec-2021 06:59:12 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1213.D

Injection Date:	27-Dec-2021 20:13:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-6-C	Lab Sample ID:	410-68043-6		
Client ID:	MW-7S-20211221				
Operator ID:	whs02991	ALS Bottle#:	14	Worklist Smp#:	14
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		

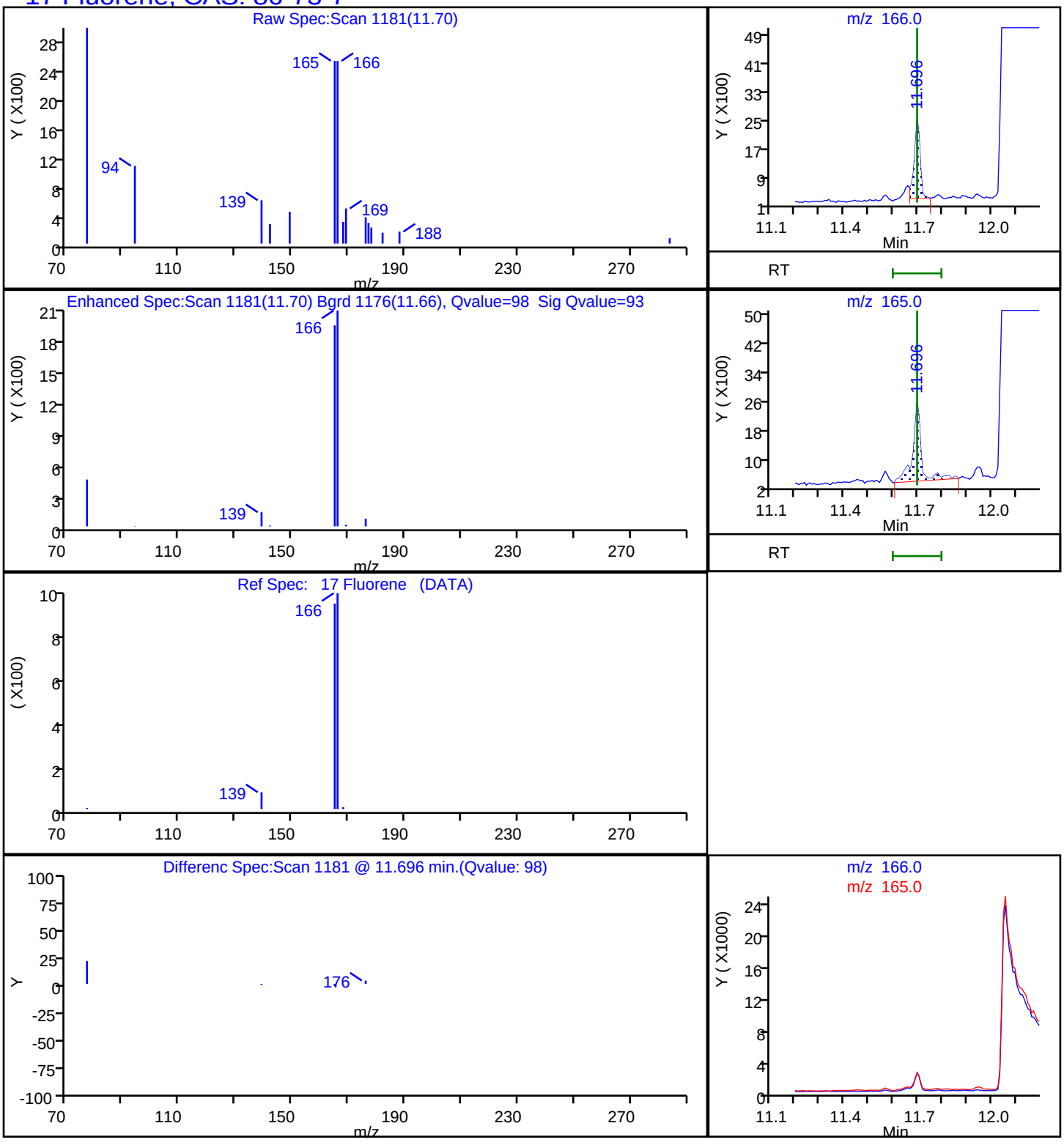
22 Anthracene, CAS: 120-12-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1213.D				
Injection Date:	27-Dec-2021 20:13:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-6-C	Lab Sample ID:	410-68043-6		
Client ID:	MW-7S-20211221				
Operator ID:	whs02991	ALS Bottle#:	14	Worklist Smp#:	14
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		

17 Fluorene, CAS: 86-73-7



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

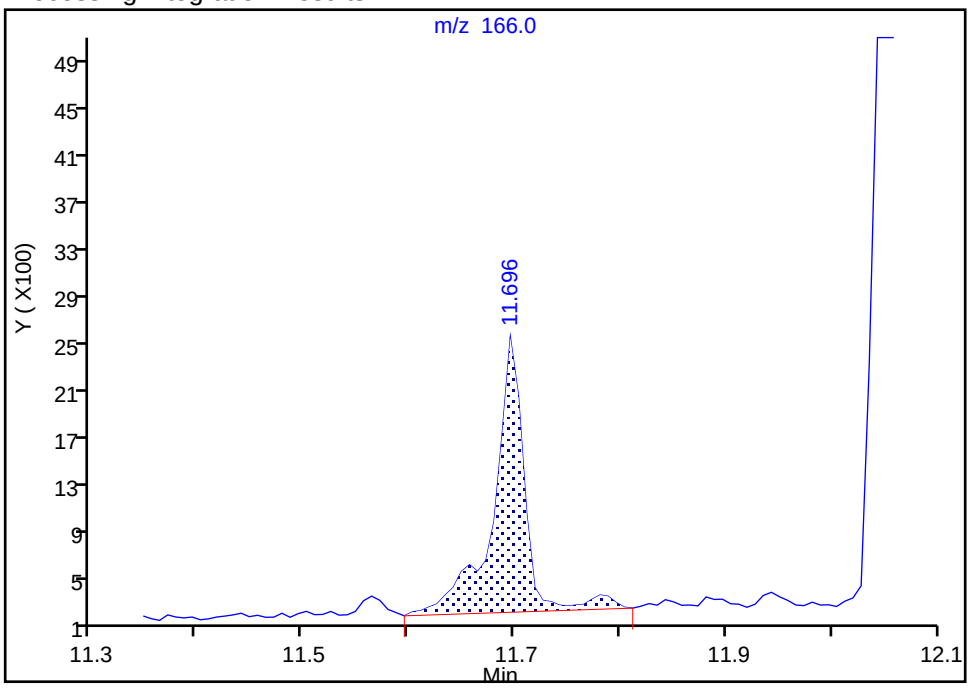
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Lims ID:	410-68043-A-6-C	Lab Sample ID:	410-68043-6		
Client ID:	MW-7S-20211221				
Operator ID:	whs02991	ALS Bottle#:	14	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

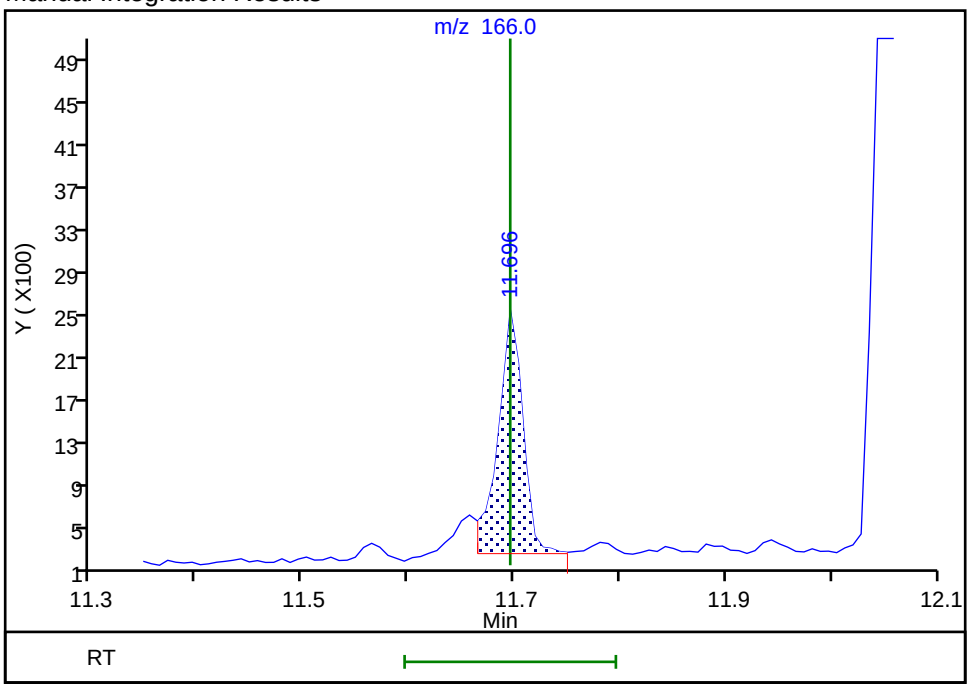
Processing Integration Results

RT: 11.70
Area: 4772
Amount: 0.005300
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 3648
Amount: 0.004051
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:19:38

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

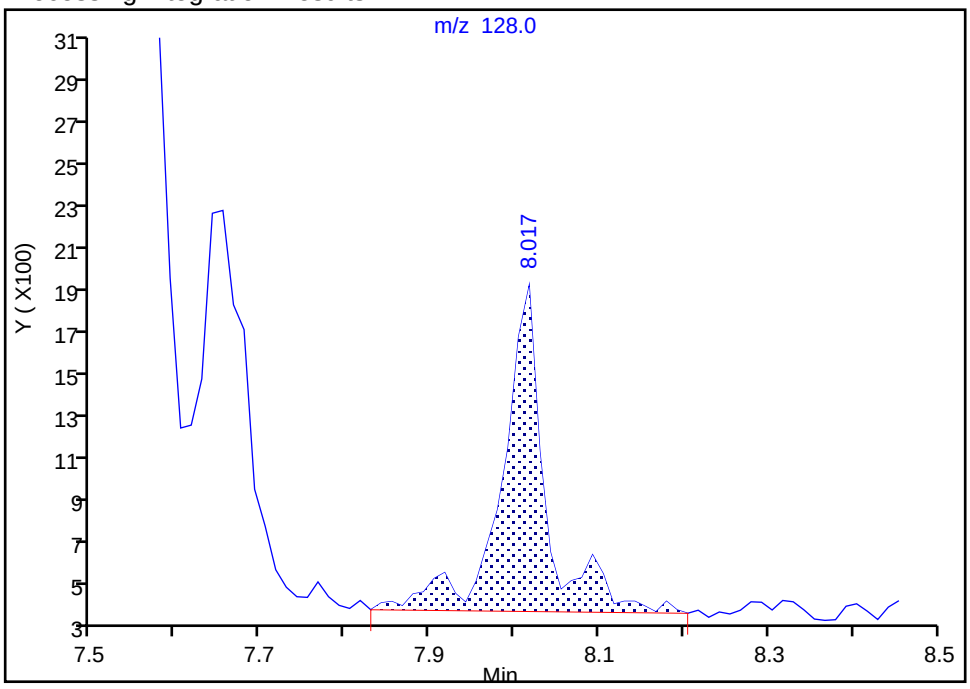
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Injection Date:	27-Dec-2021 20:13:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-6-C	Lab Sample ID:	410-68043-6
Client ID:	MW-7S-20211221		
Operator ID:	whs02991	ALS Bottle#:	14 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	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

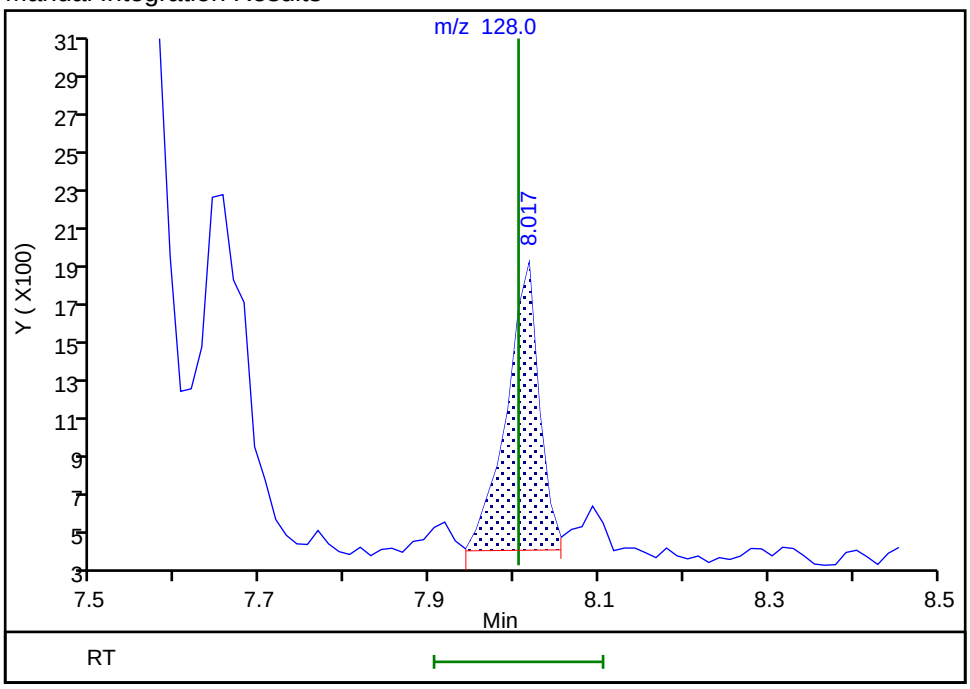
Processing Integration Results

RT: 8.02
Area: 5315
Amount: 0.004321
Amount Units: ug/ml



Manual Integration Results

RT: 8.02
Area: 3829
Amount: 0.003113
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:19:23

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7D-20211221 Lab Sample ID: 410-68043-7

Matrix: Ground Water Lab File ID: NL1216.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 10:37

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 238.4(mL) Date Analyzed: 12/27/2021 21:37

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		0.052	0.010
56-55-3	Benzo[a]anthracene	0.011	J	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	0.015	J	0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*+	0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	0.013	J	0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	81		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	87		36-111
93951-69-0	Fluoranthene-d10 (Surr)	86		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1216.D
Lims ID: 410-68043-A-7-A
Client ID: MW-7D-20211221
Sample Type: Client
Inject. Date: 27-Dec-2021 21:37:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-7-A
Misc. Info.: 410-0047167-017
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:25:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	98	84428	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	277230	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	37	4934	0.004257	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	128131	0.2178	
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	159510	0.2500	
14 Acenaphthene	154	10.895	10.885	0.010	66	1401	0.001977	
17 Fluorene	166	11.704	11.696	0.008	28	1456	0.001749	M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	267699	0.2500	
22 Anthracene	178	12.939	12.939	0.015	94	1801	0.001640	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	220830	0.2152	
25 Fluoranthene	202	14.443	14.448	0.012	36	4109	0.003570	
26 Pyrene	202	14.769	14.775	0.012	97	4252	0.003036	
28 Benzo[a]anthracene	228	16.737	16.736	0.016	2	2763	0.002576	M
* 29 Chrysene-d12	240	16.752	16.737	0.015	82	223845	0.2500	
33 Benzo[b]fluoranthene	252	18.593	18.592	0.039	100	2622	0.002290	M
34 Benzo[k]fluoranthene	252	18.639	18.639	0.039	97	1822	0.001396	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	98	170265	0.2025	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	98	2162	0.001954	M
* 38 Perylene-d12	264	19.183	19.175	0.008	98	232674	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.845	20.845	0.070	95	1810	0.001795	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

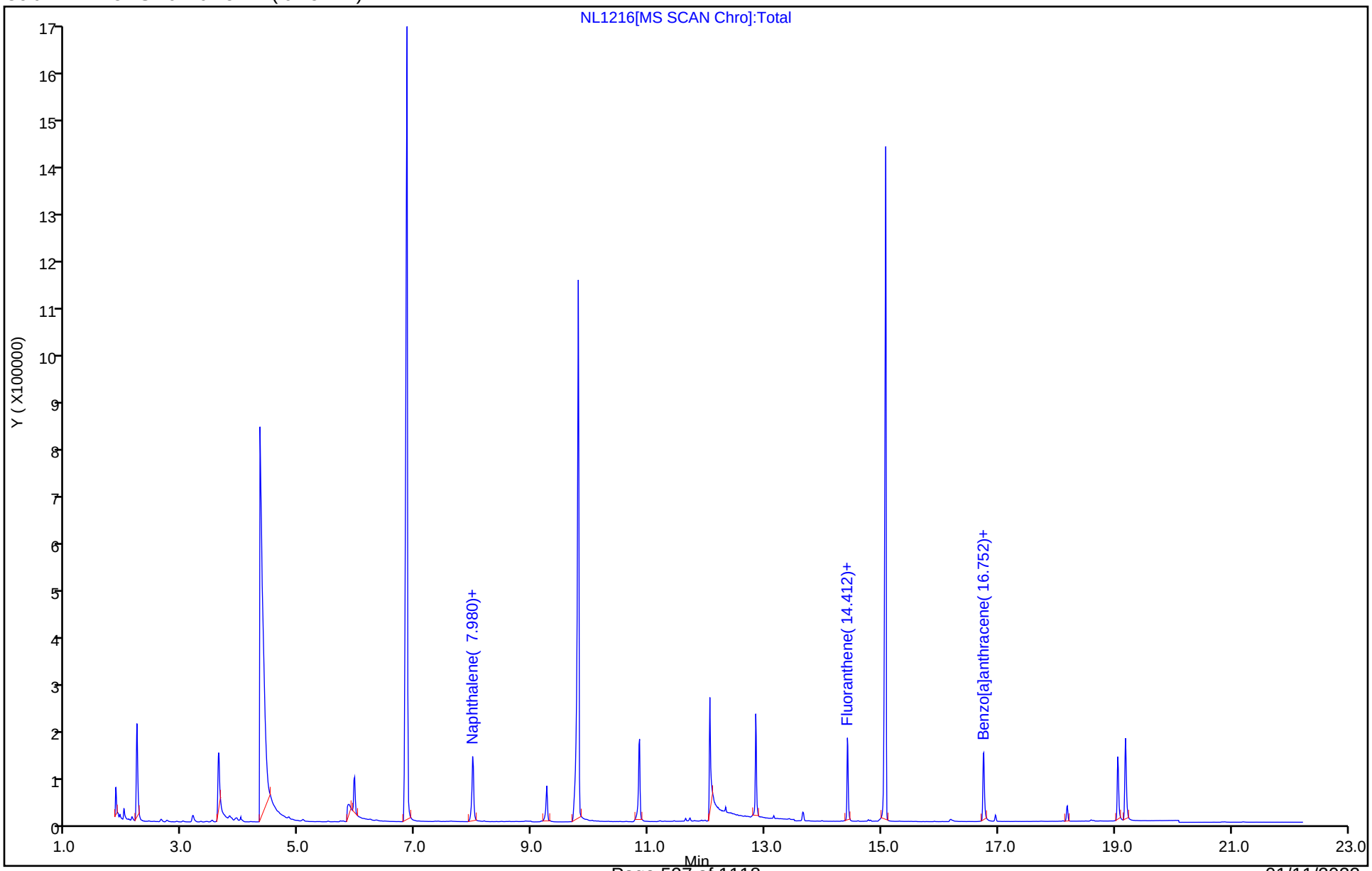
Report Date: 28-Dec-2021 06:59:14 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	27-Dec-2021 21:37:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7	Worklist Smp#:	17
Client ID:	MW-7D-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



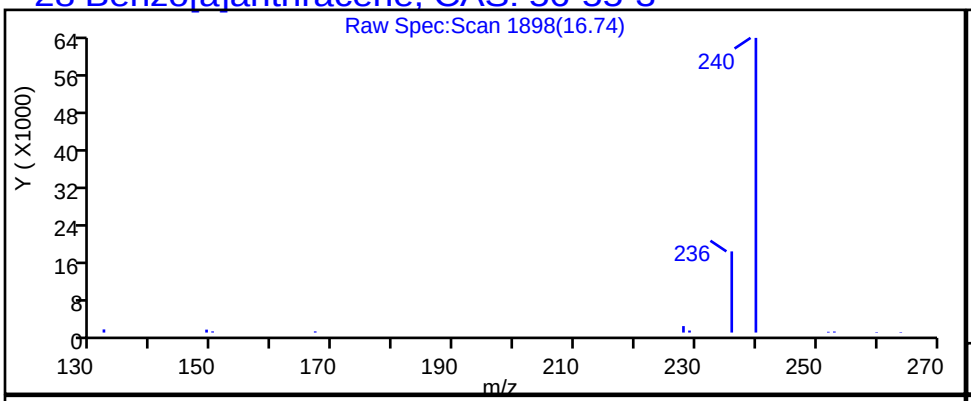
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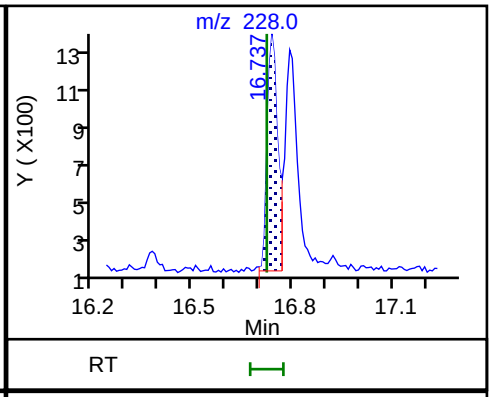
Eurofins Lancaster Laboratories Env, LLC

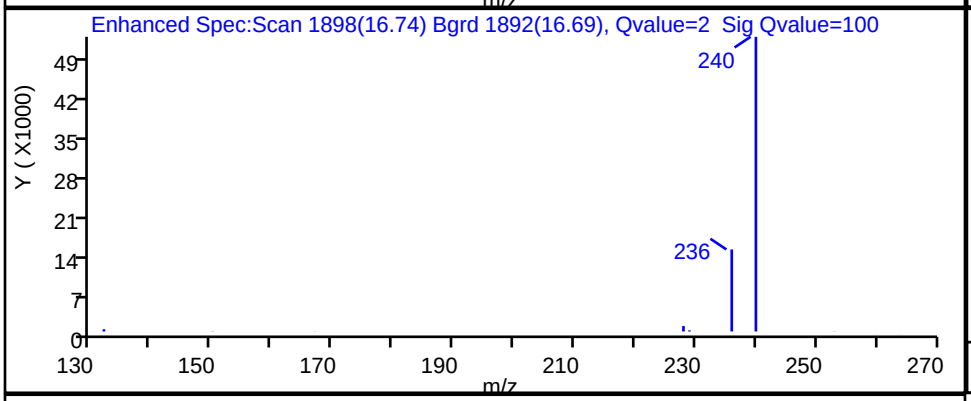
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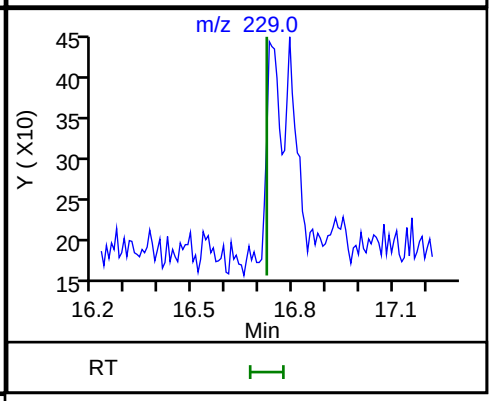
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Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

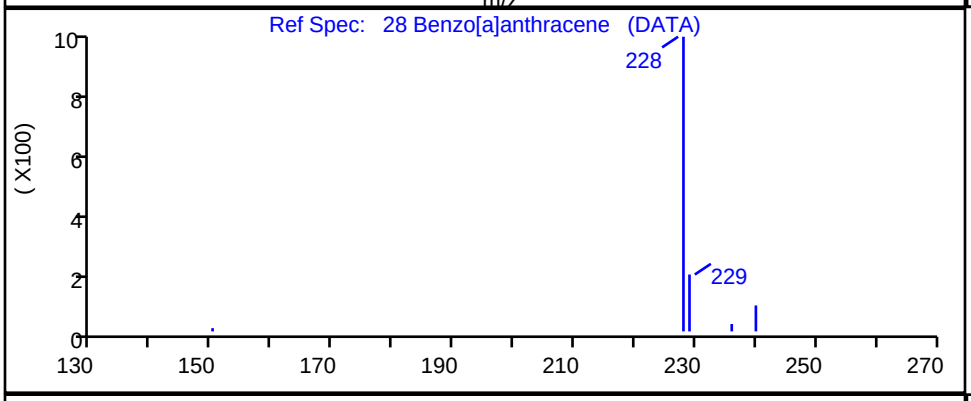
28 Benzo[a]anthracene, CAS: 56-55-3

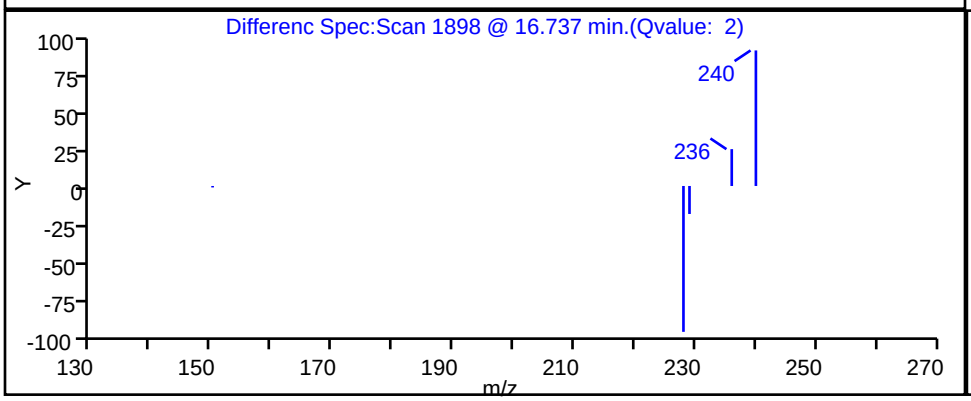


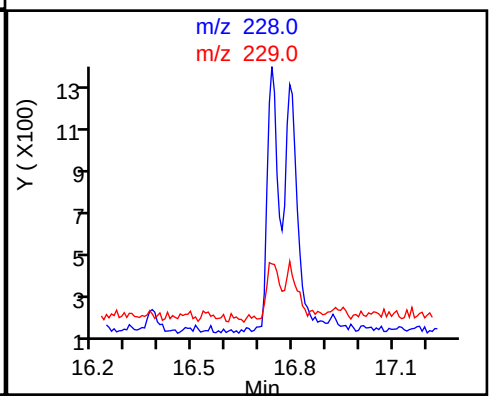












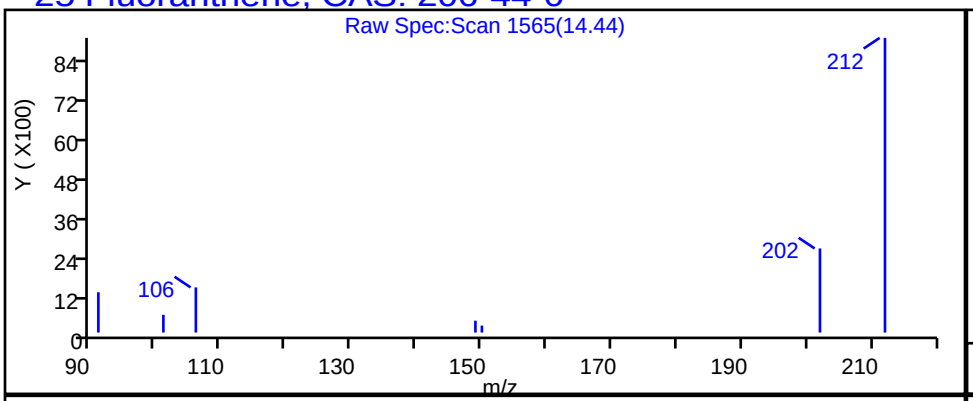
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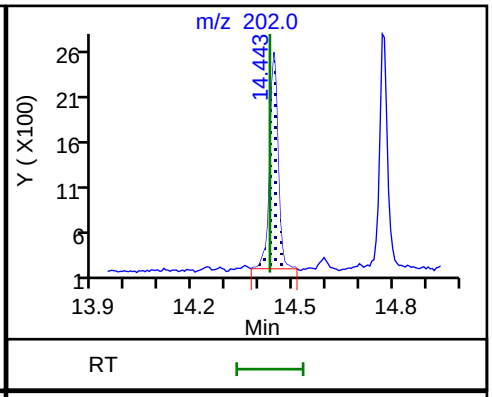
Eurofins Lancaster Laboratories Env, LLC

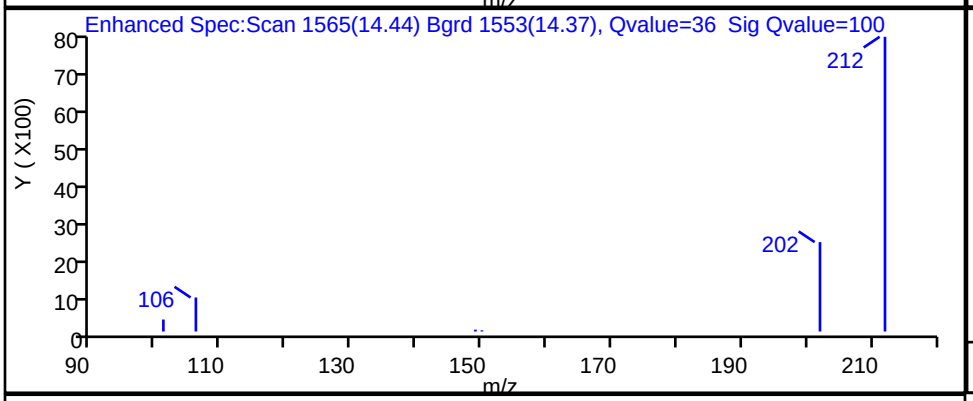
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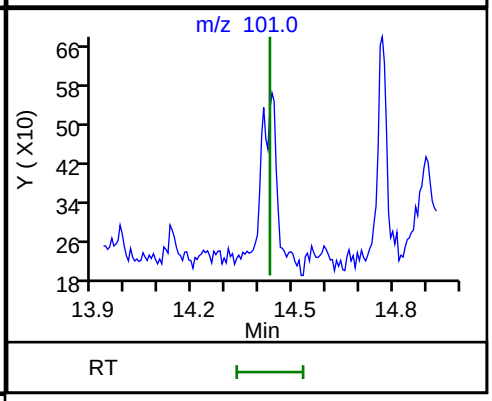
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Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

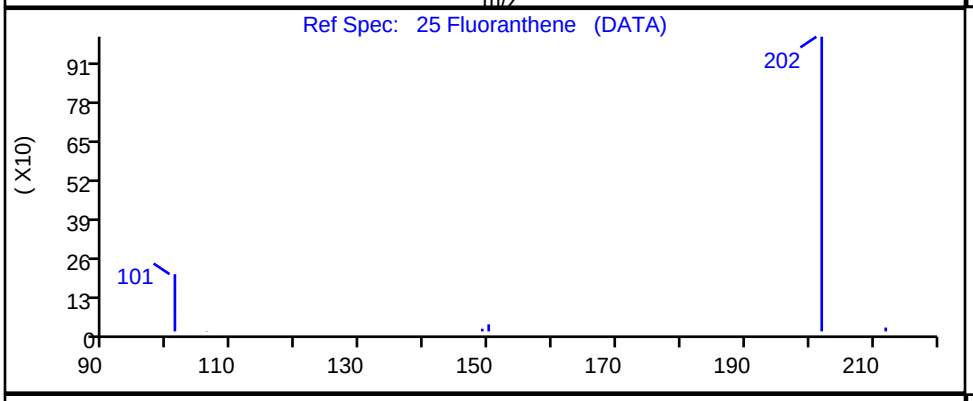
25 Fluoranthene, CAS: 206-44-0

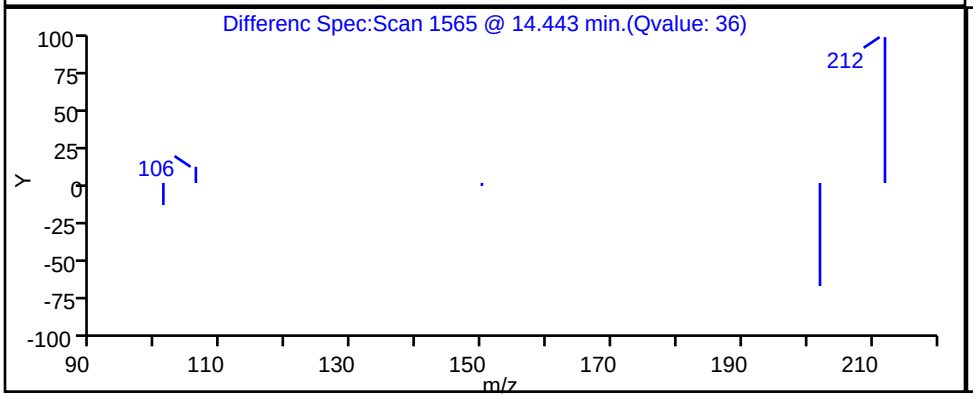


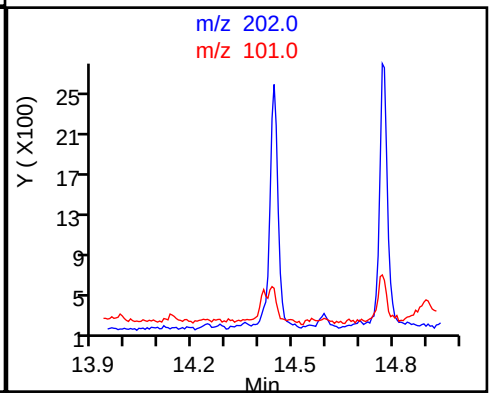












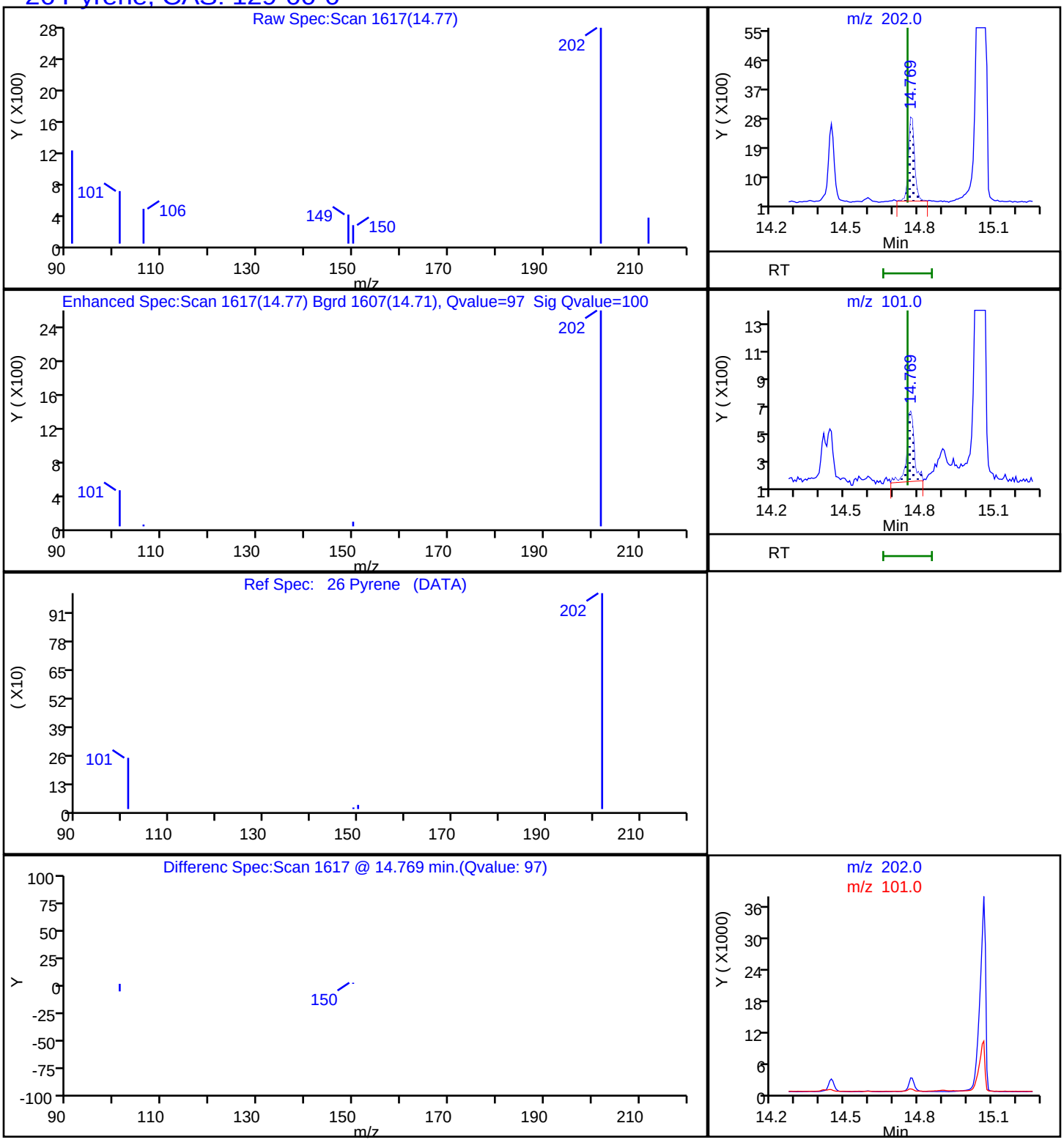
Report Date: 28-Dec-2021 06:59:14 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1216.D

Injection Date:	27-Dec-2021 21:37:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

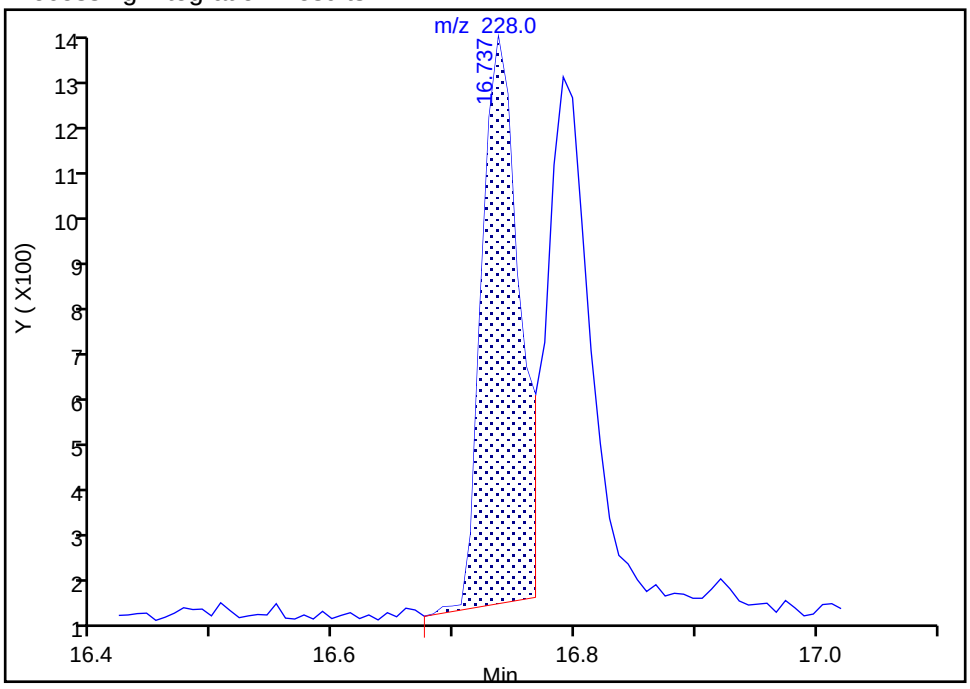
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Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

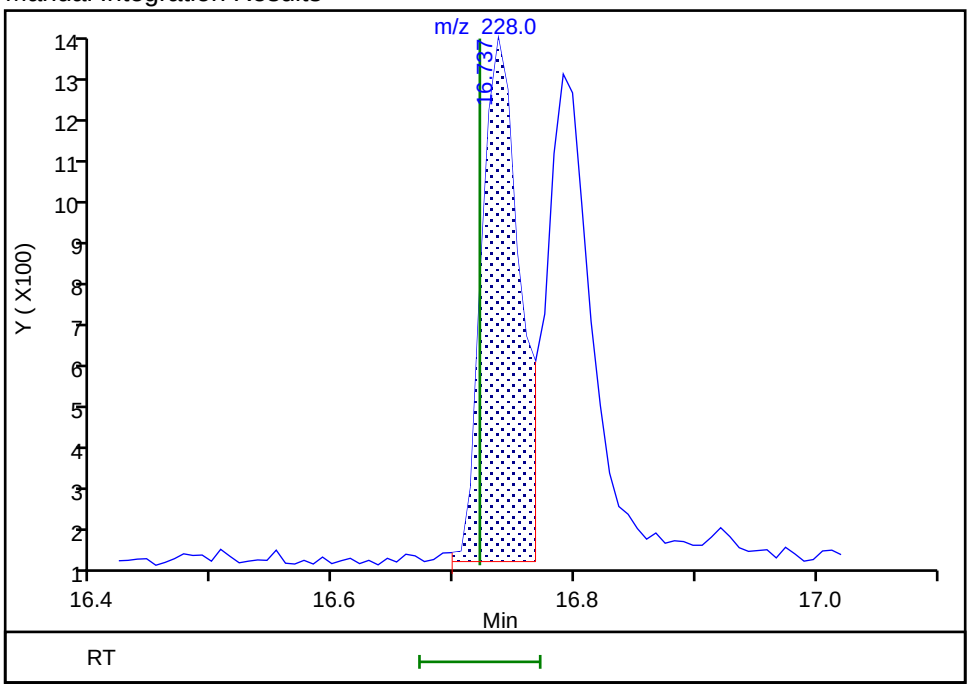
Processing Integration Results

RT: 16.74
Area: 2664
Amount: 0.002483
Amount Units: ug/ml



Manual Integration Results

RT: 16.74
Area: 2763
Amount: 0.002576
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:24:50

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

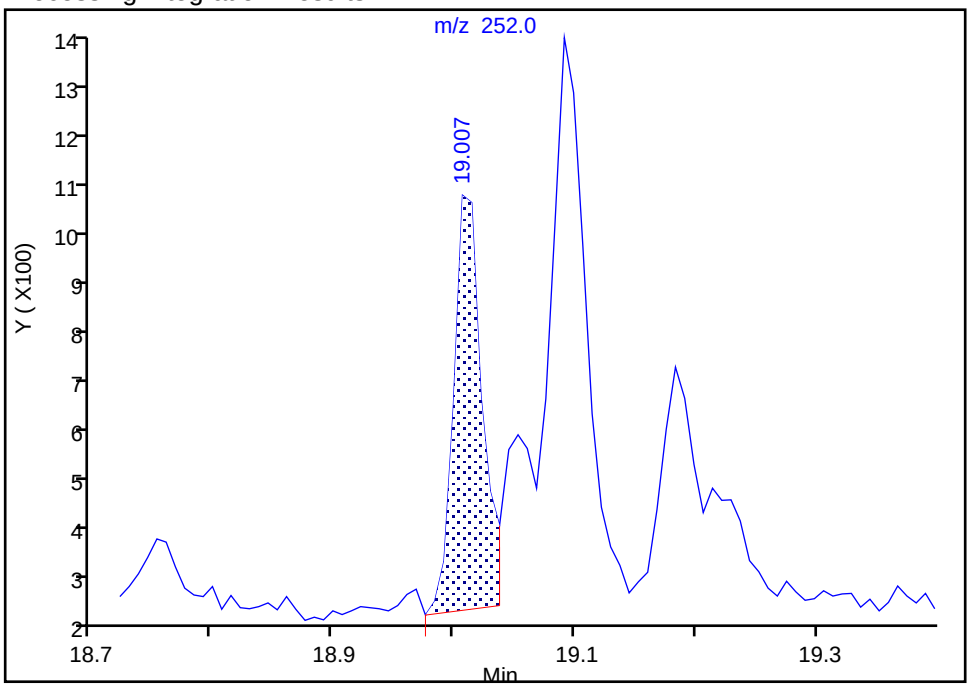
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Injection Date:	27-Dec-2021 21:37:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

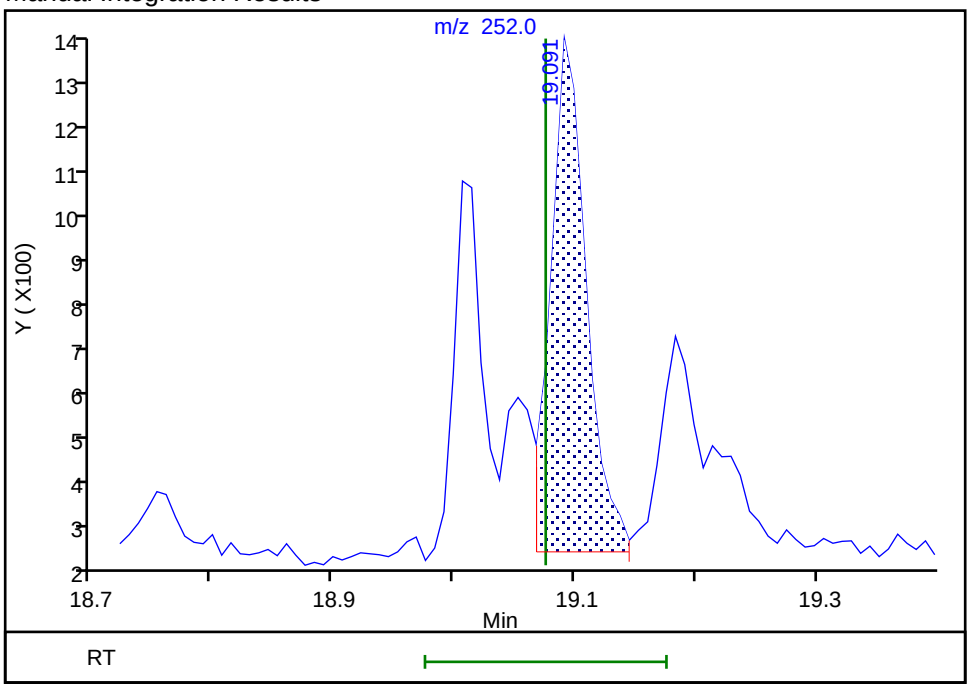
Processing Integration Results

RT: 19.01
Area: 1266
Amount: 0.001144
Amount Units: ug/ml



Manual Integration Results

RT: 19.09
Area: 2162
Amount: 0.001954
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:25:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

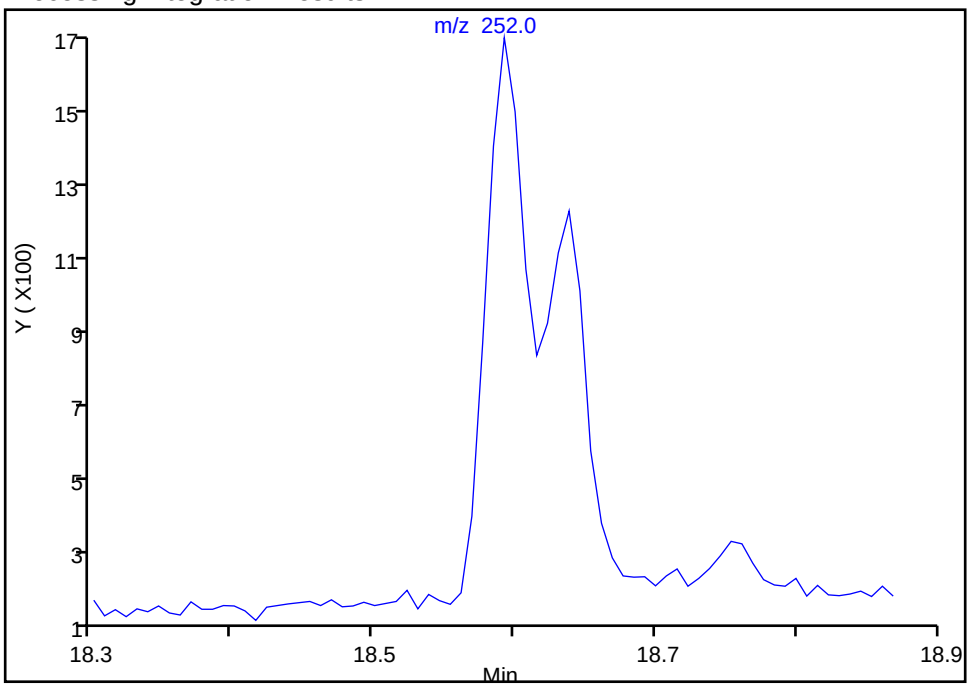
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Injection Date:	27-Dec-2021 21:37:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

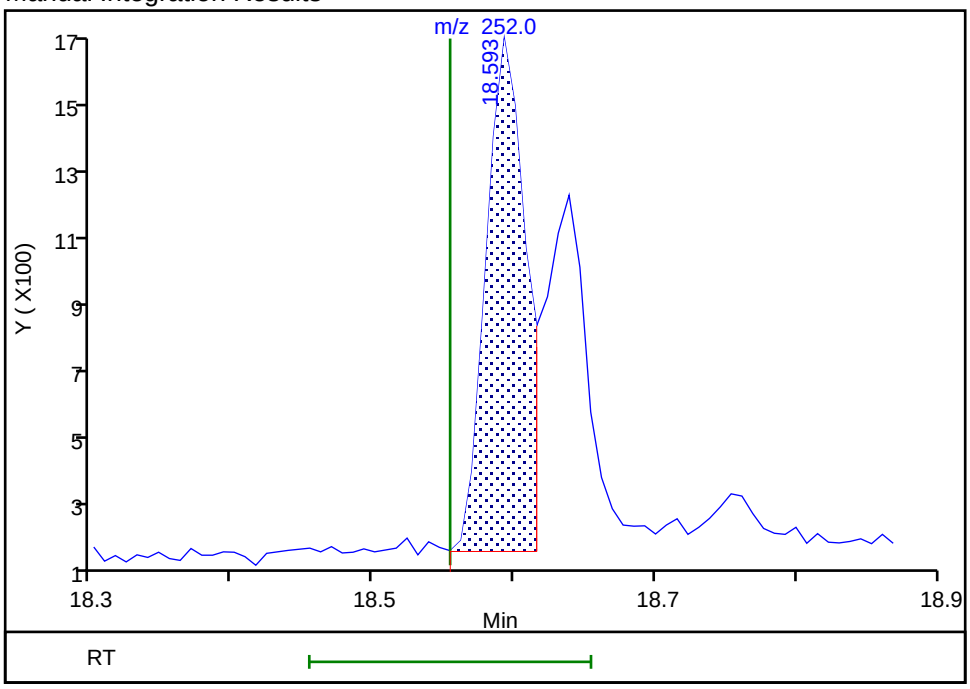
Not Detected
Expected RT: 18.55

Processing Integration Results



Manual Integration Results

RT: 18.59
Area: 2622
Amount: 0.002290
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:25:04
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

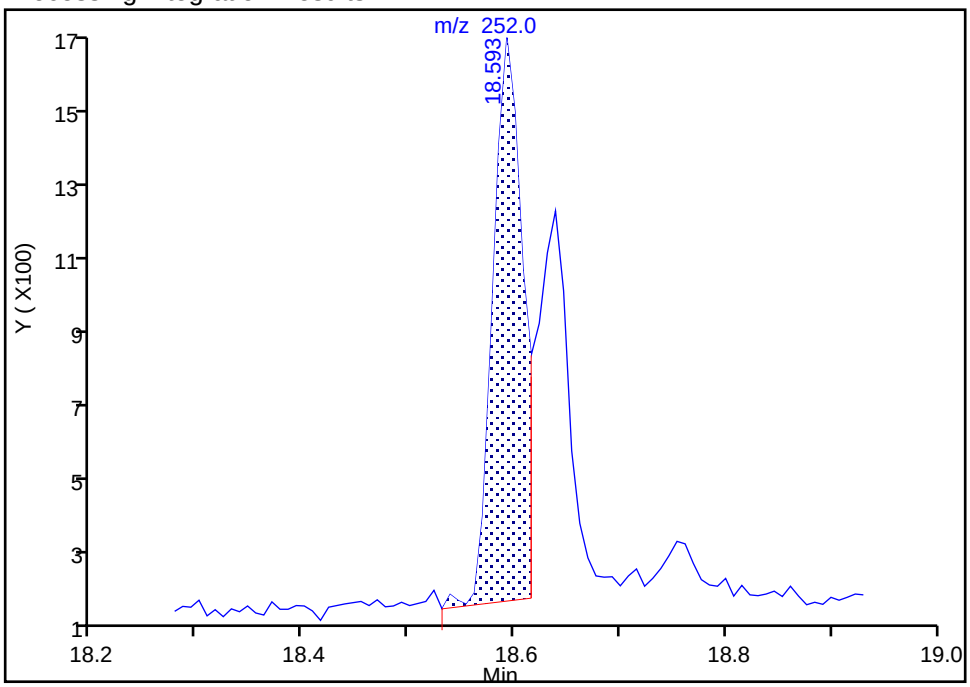
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1216.D				
Injection Date:	27-Dec-2021 21:37:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	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

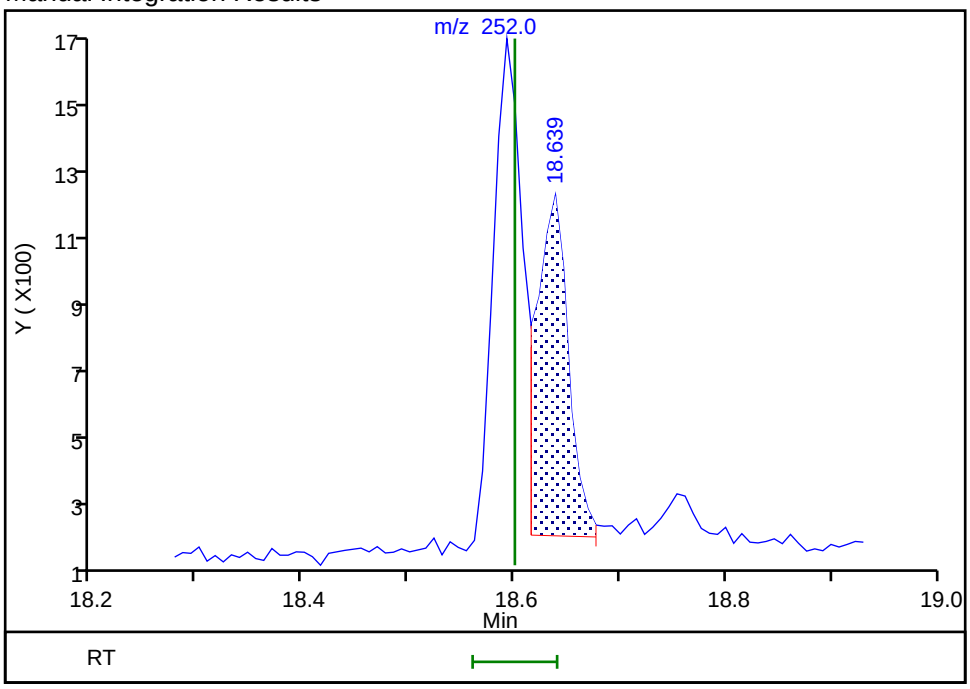
Processing Integration Results

RT: 18.59
Area: 2617
Amount: 0.002006
Amount Units: ug/ml



Manual Integration Results

RT: 18.64
Area: 1822
Amount: 0.001396
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:25:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

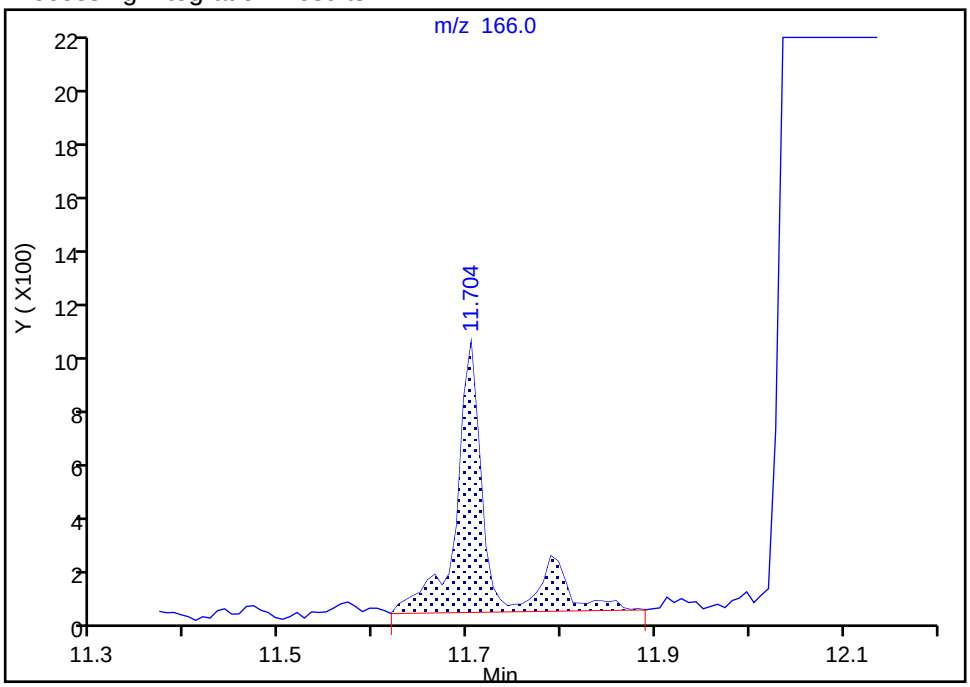
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Injection Date:	27-Dec-2021 21:37:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

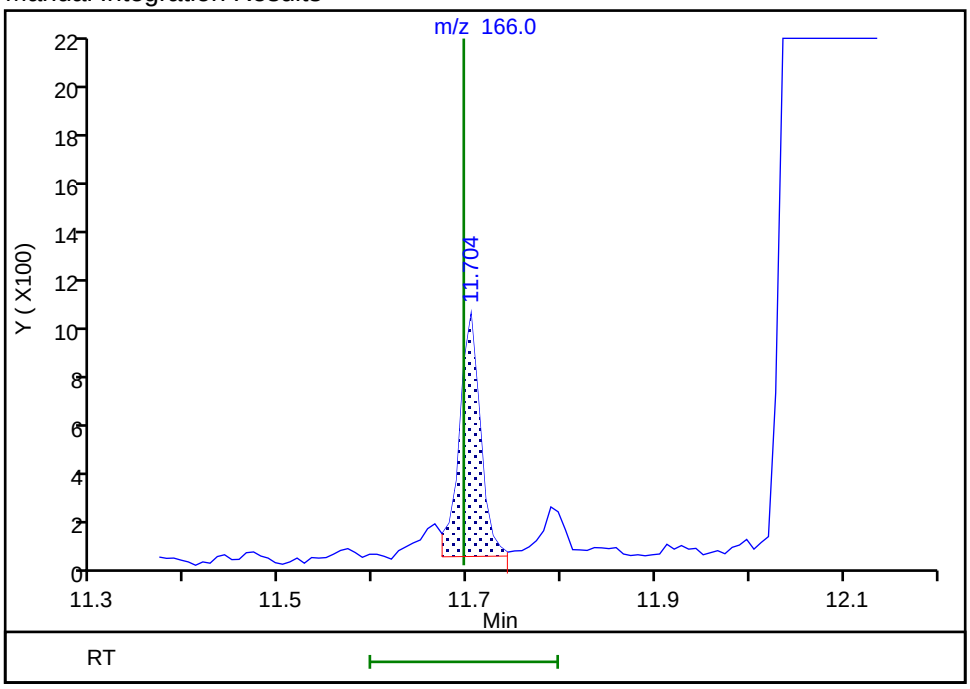
Processing Integration Results

RT: 11.70
Area: 2172
Amount: 0.002609
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 1456
Amount: 0.001749
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:24:34

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

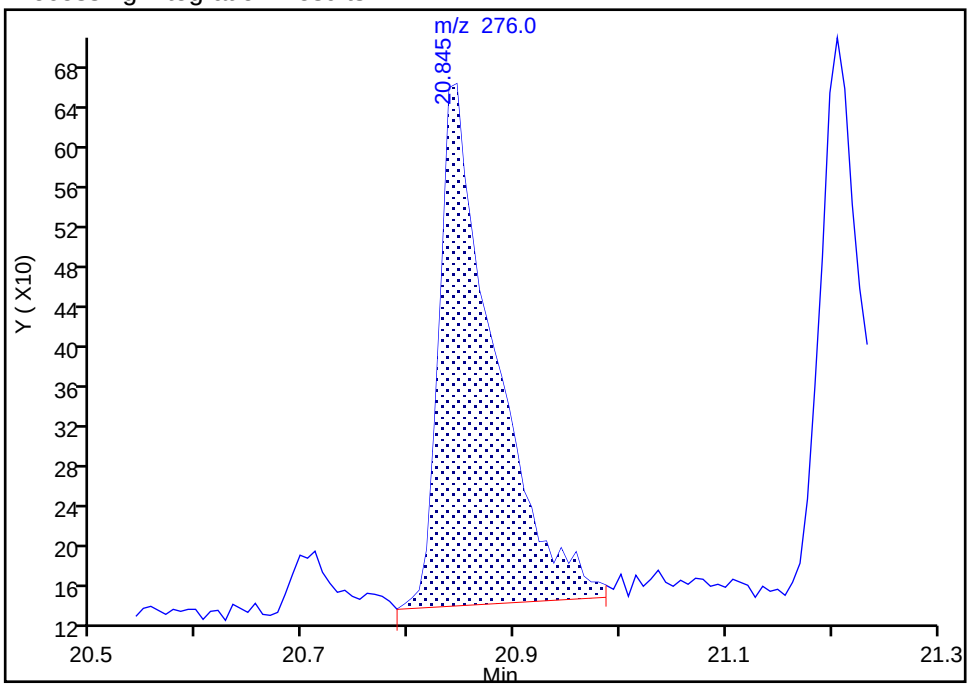
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Injection Date:	27-Dec-2021 21:37:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-7-A	Lab Sample ID:	410-68043-7		
Client ID:	MW-7D-20211221				
Operator ID:	whs02991	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

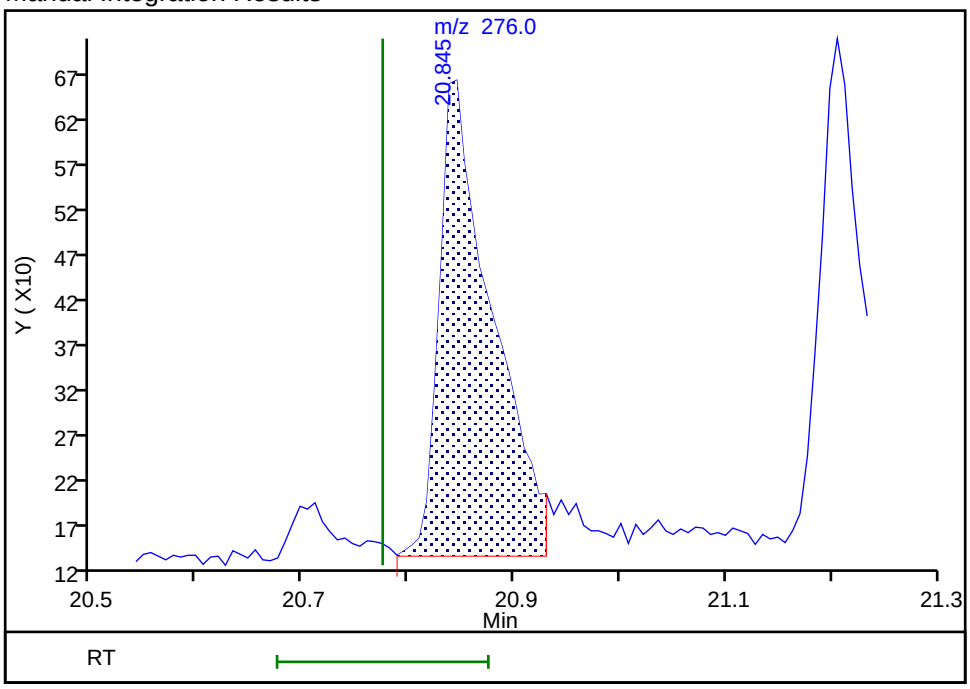
Processing Integration Results

RT: 20.85
Area: 1875
Amount: 0.001860
Amount Units: ug/ml



Manual Integration Results

RT: 20.85
Area: 1810
Amount: 0.001795
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:25:33

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-14S-20211221 Lab Sample ID: 410-68043-8

Matrix: Ground Water Lab File ID: NL1217.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 11:33

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 248.9(mL) Date Analyzed: 12/27/2021 22:05

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.18		0.050	0.010
208-96-8	Acenaphthylene	0.018	J	0.050	0.010
120-12-7	Anthracene	0.010	J	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	0.013	J	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	0.023	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	91		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	94		36-111
93951-69-0	Fluoranthene-d10 (Surr)	91		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1217.D
Lims ID: 410-68043-A-8-A
Client ID: MW-14S-20211221
Sample Type: Client
Inject. Date: 27-Dec-2021 22:05:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-8-A
Misc. Info.: 410-0047167-018
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:27:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	97	84674	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	284837	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	62	5353	0.004495	M
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	142547	0.2358	
12 Acenaphthylene	152	10.605	10.614	0.011	100	5199	0.004507	M
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	161814	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	99	31604	0.0440	
17 Fluorene	166	11.696	11.696	0.000	92	1660	0.001965	M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	274856	0.2500	
22 Anthracene	178	12.939	12.939	0.015	97	2930	0.002598	M
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	240057	0.2279	
25 Fluoranthene	202	14.437	14.448	0.006	29	3839	0.003248	
26 Pyrene	202	14.769	14.775	0.012	97	7996	0.005740	
* 29 Chrysene-d12	240	16.744	16.737	0.007	81	222653	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	98	189471	0.2284	
* 38 Perylene-d12	264	19.183	19.175	0.008	97	230376	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

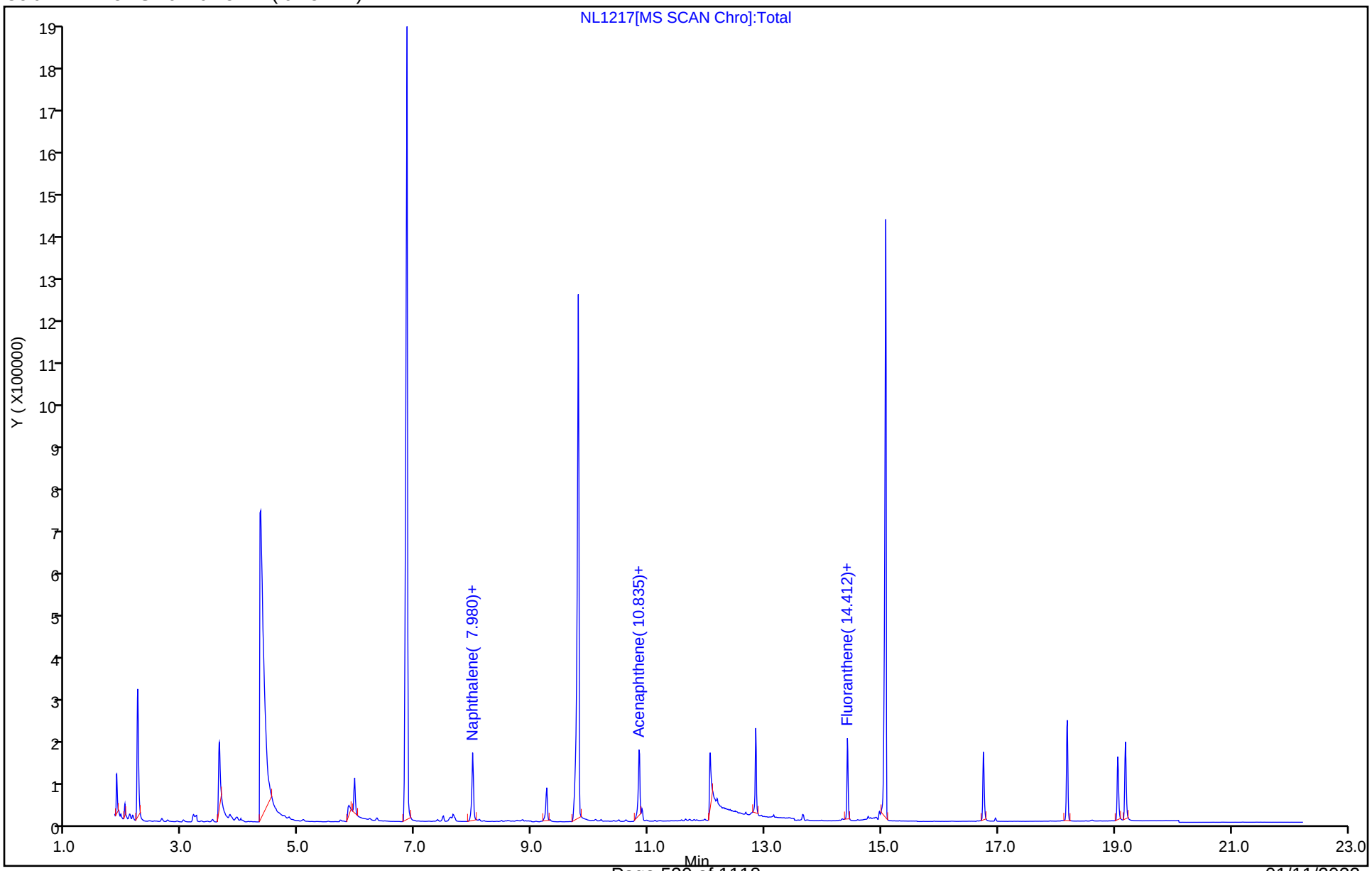
Report Date: 28-Dec-2021 06:59:15 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1217.D

Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8	Worklist Smp#:	18
Client ID:	MW-14S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

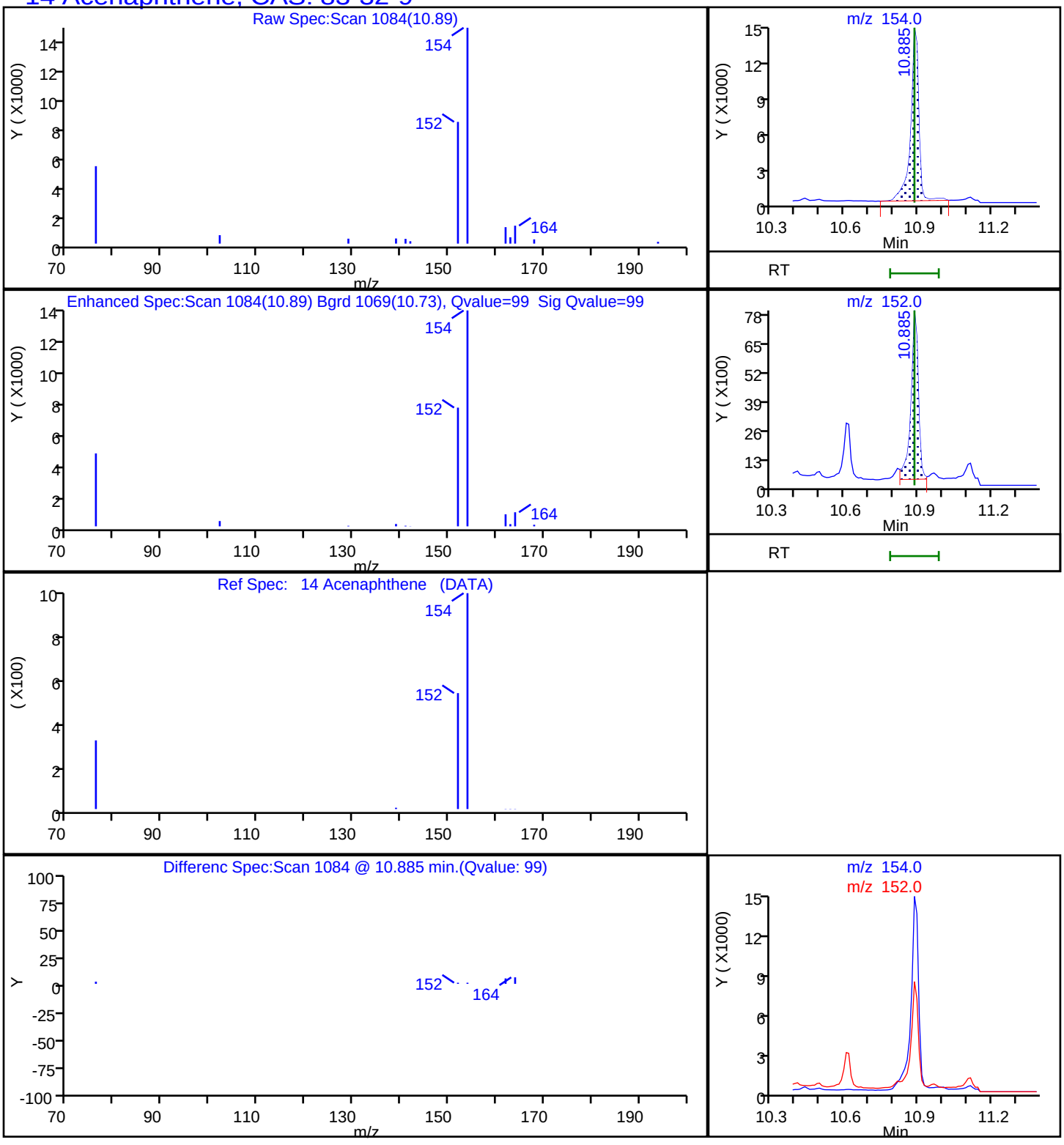
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1217.D				
Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8		
Client ID:	MW-14S-20211221				
Operator ID:	whs02991	ALS Bottle#:	18	Worklist Smp#:	18
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		

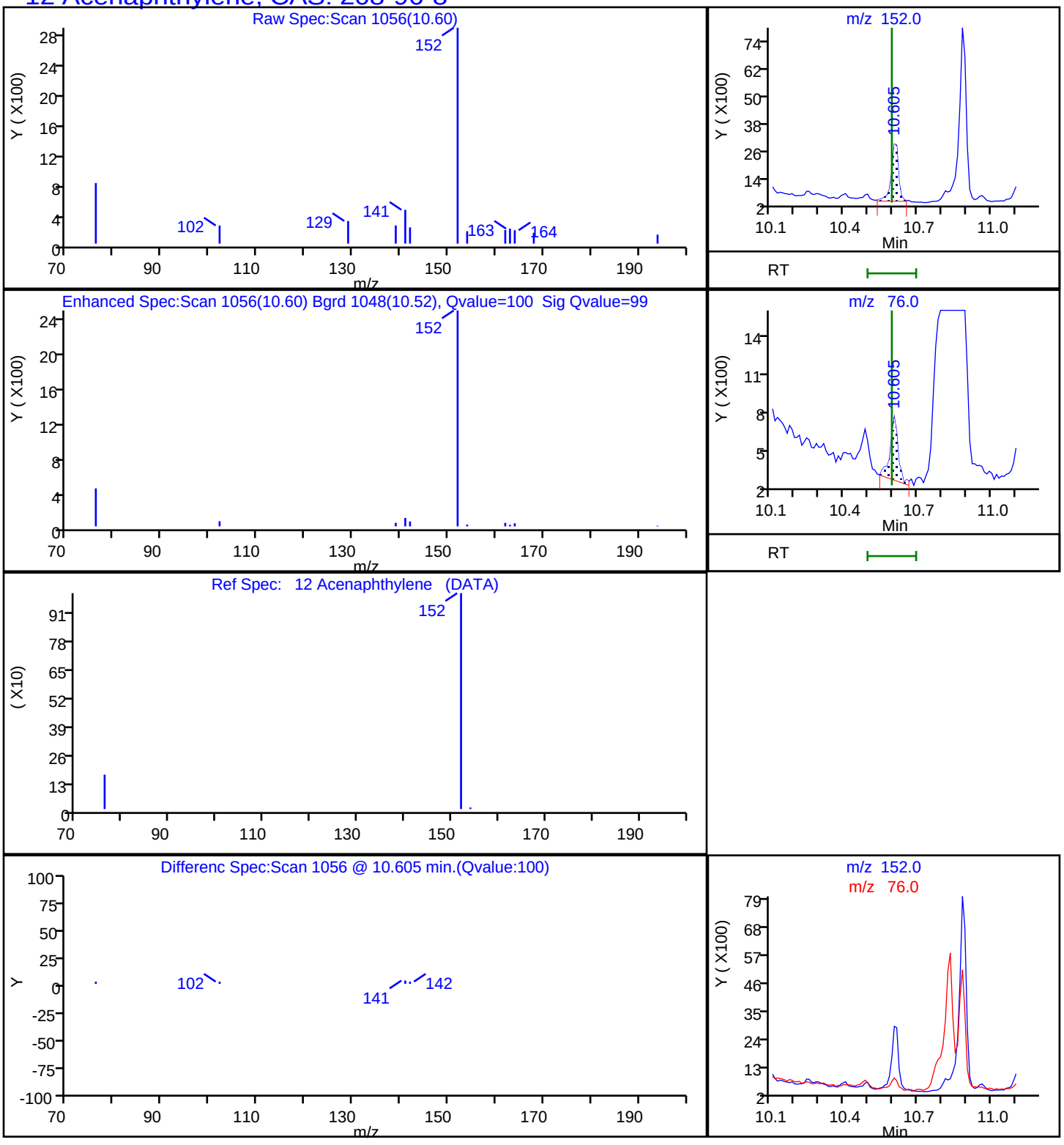
14 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1217.D		
Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8
Client ID:	MW-14S-20211221		
Operator ID:	whs02991	ALS Bottle#:	18 Worklist Smp#: 18
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

12 Acenaphthylene, CAS: 208-96-8



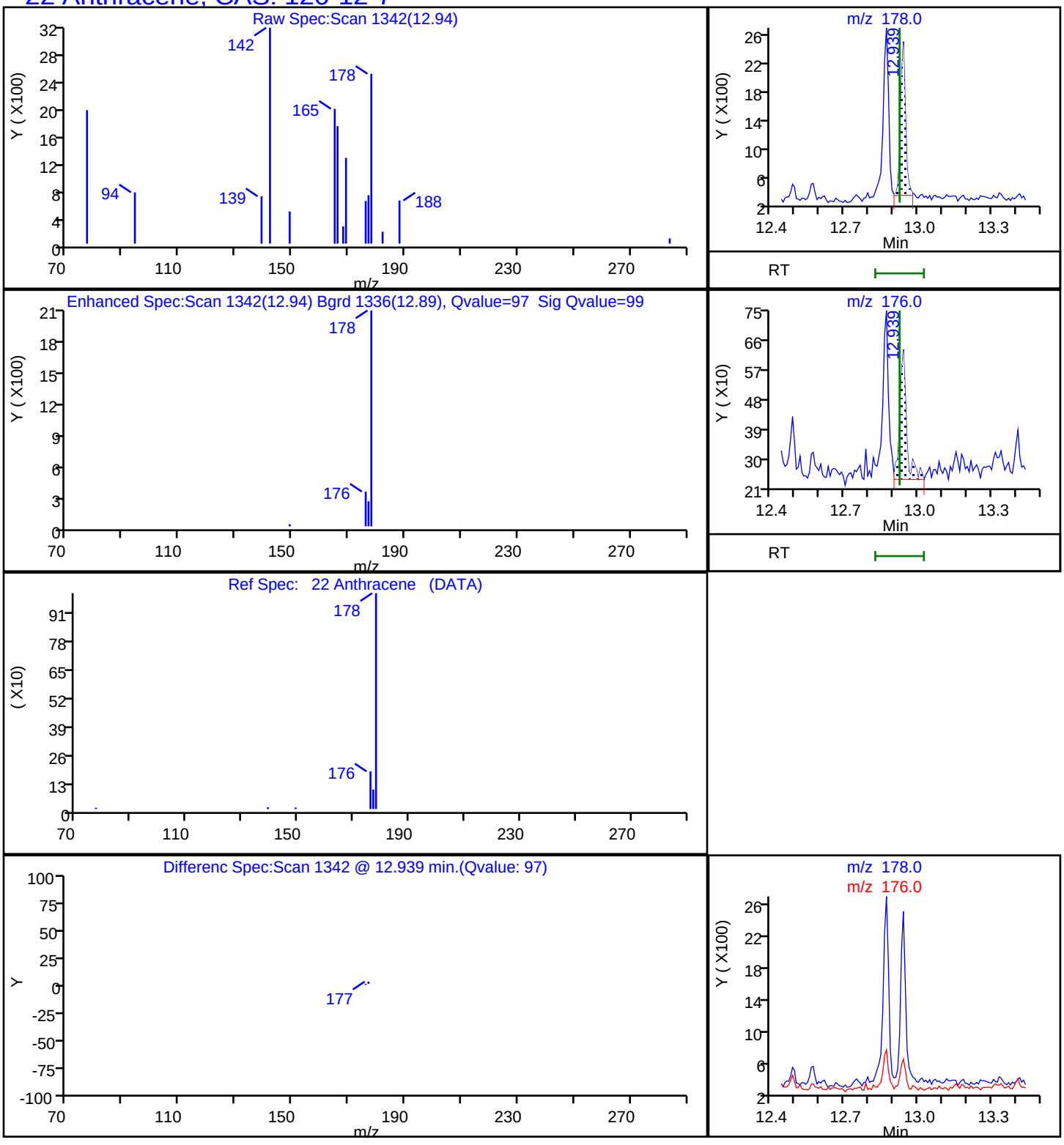
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8		
Client ID:	MW-14S-20211221				
Operator ID:	whs02991	ALS Bottle#:	18	Worklist Smp#:	18
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		

22 Anthracene, CAS: 120-12-7



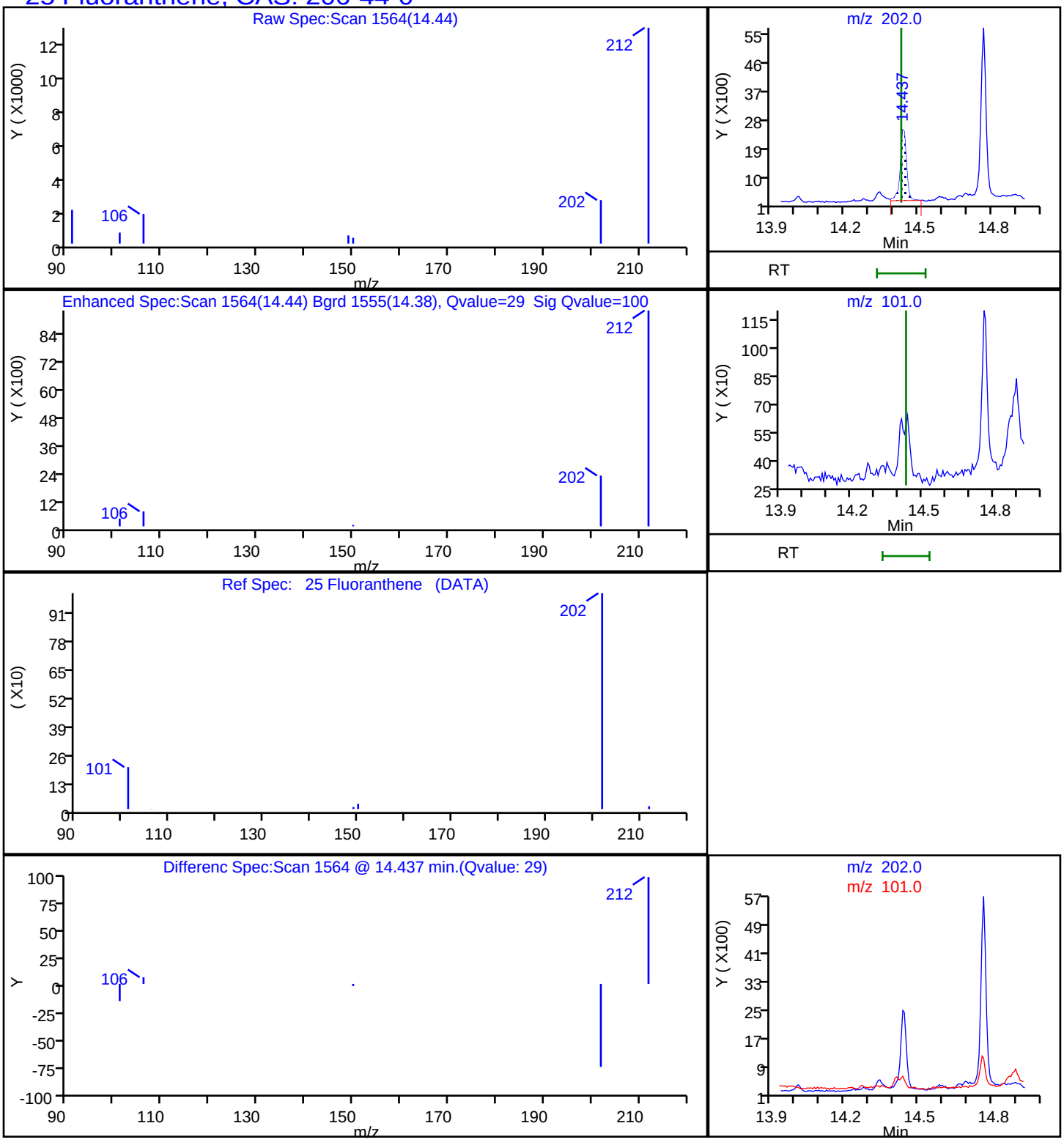
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8		
Client ID:	MW-14S-20211221				
Operator ID:	whs02991	ALS Bottle#:	18	Worklist Smp#:	18
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		

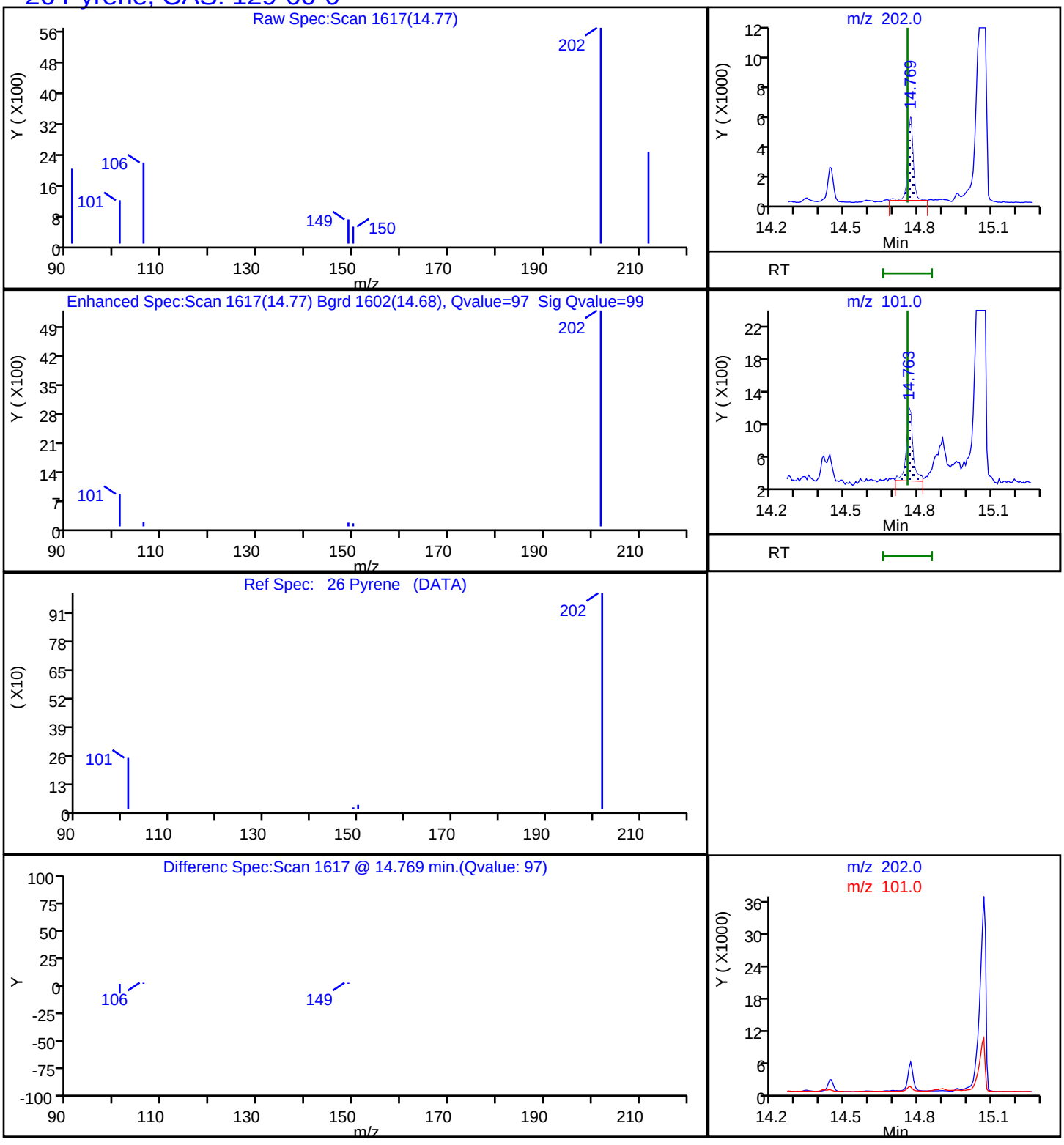
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1217.D				
Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8		
Client ID:	MW-14S-20211221				
Operator ID:	whs02991	ALS Bottle#:	18	Worklist Smp#:	18
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

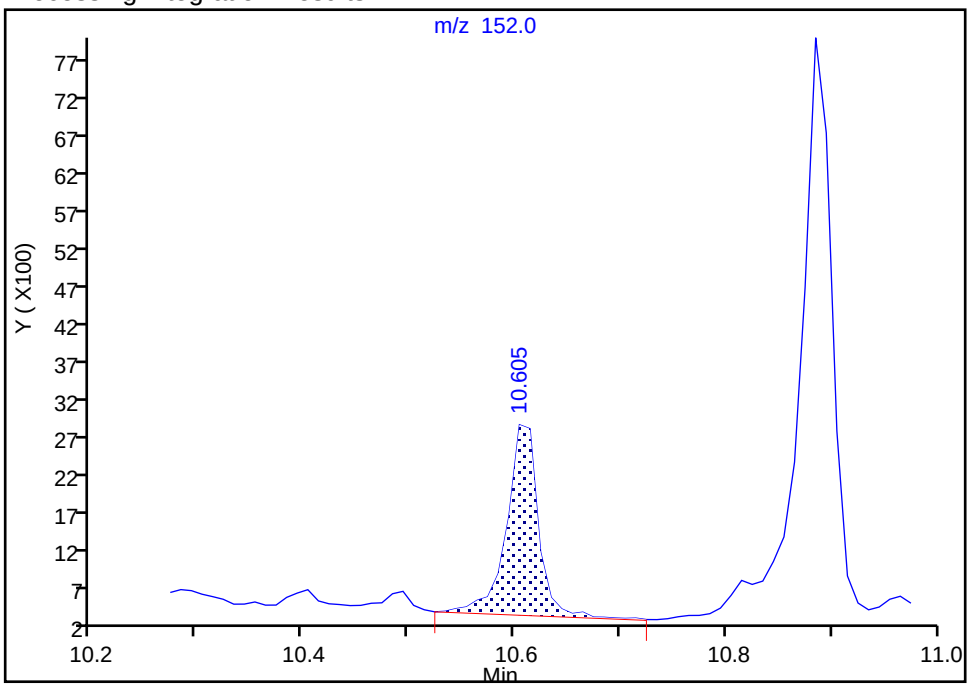
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Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8		
Client ID:	MW-14S-20211221				
Operator ID:	whs02991	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

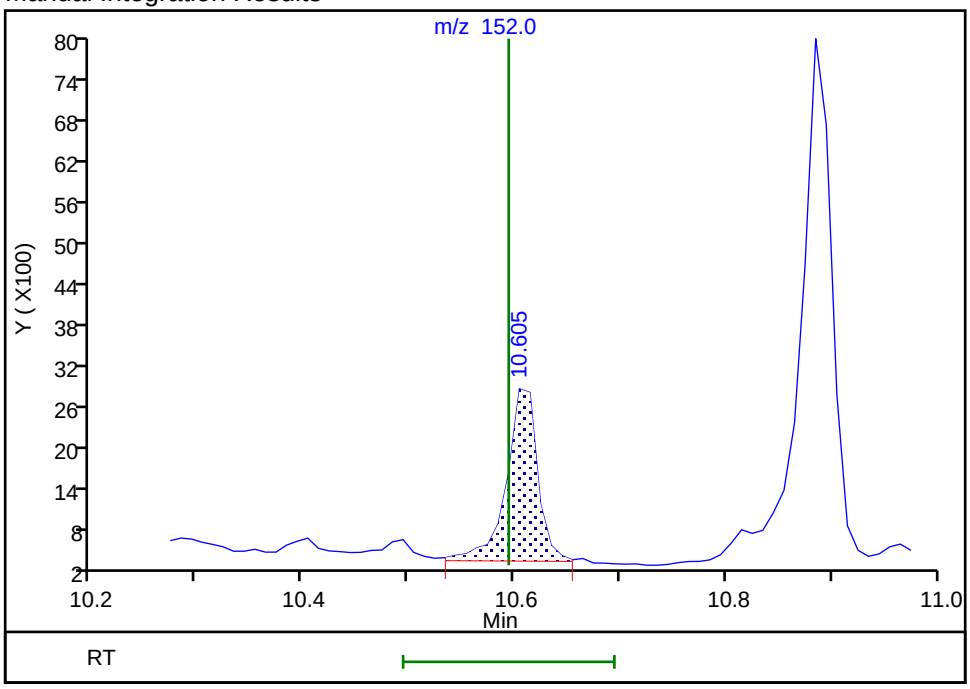
Processing Integration Results

RT: 10.60
Area: 5304
Amount: 0.004598
Amount Units: ug/ml



Manual Integration Results

RT: 10.60
Area: 5199
Amount: 0.004507
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:27:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

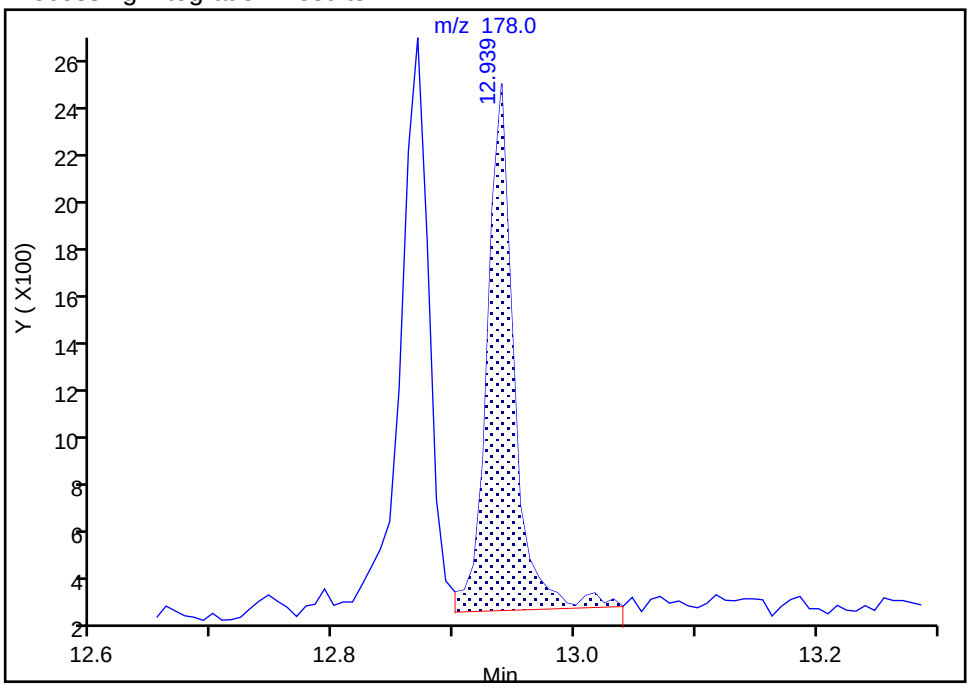
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Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8
Client ID:	MW-14S-20211221		
Operator ID:	whs02991	ALS Bottle#:	18 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

22 Anthracene, CAS: 120-12-7

Signal: 1

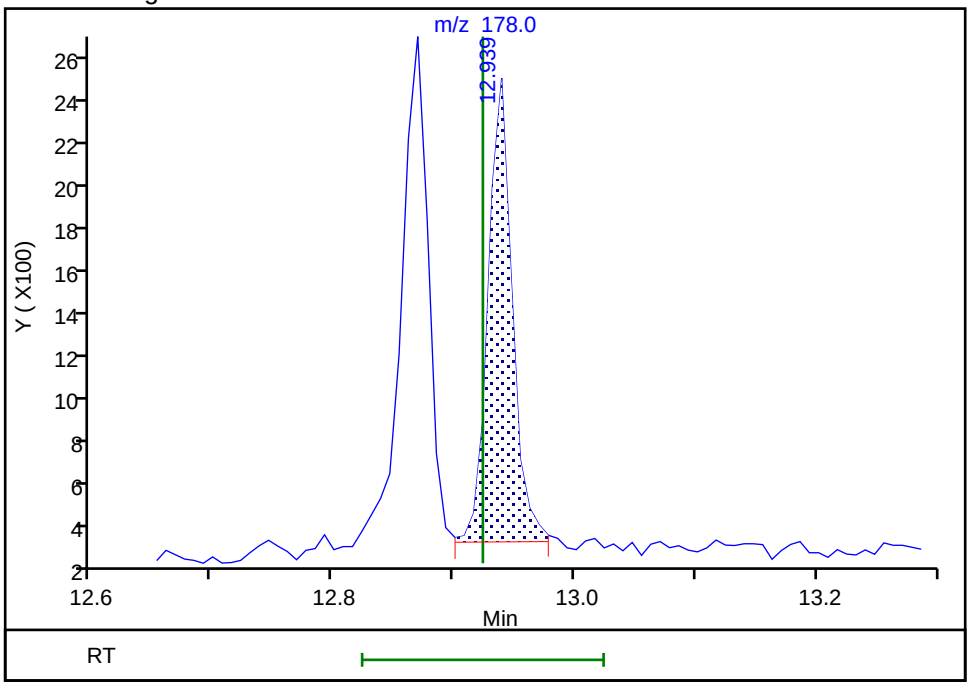
Processing Integration Results

RT: 12.94
Area: 3332
Amount: 0.002955
Amount Units: ug/ml



Manual Integration Results

RT: 12.94
Area: 2930
Amount: 0.002598
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:27:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

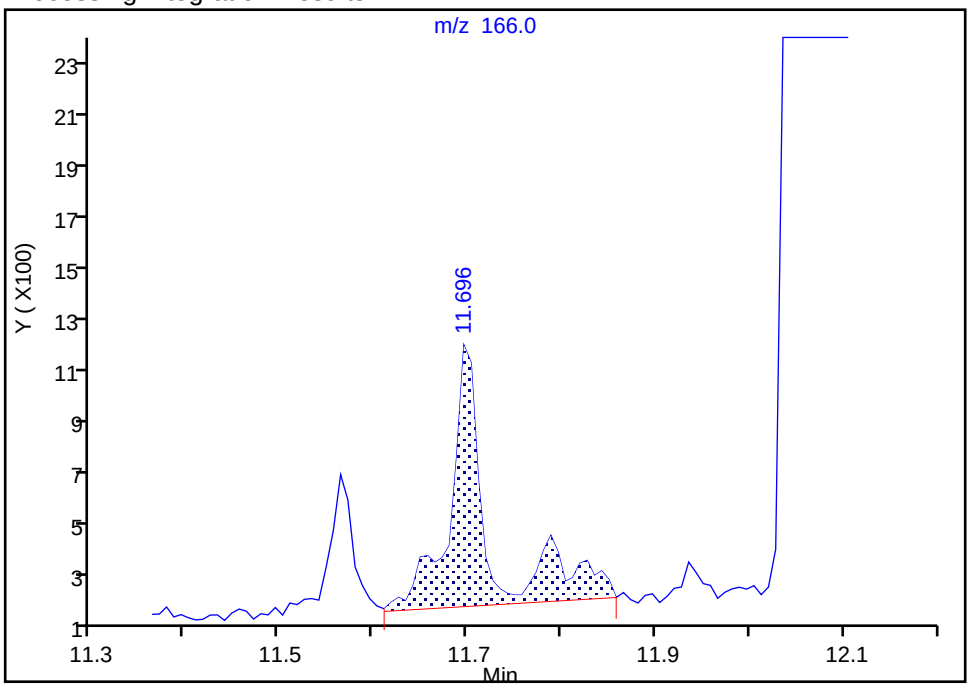
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Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8		
Client ID:	MW-14S-20211221				
Operator ID:	whs02991	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7

Signal: 1

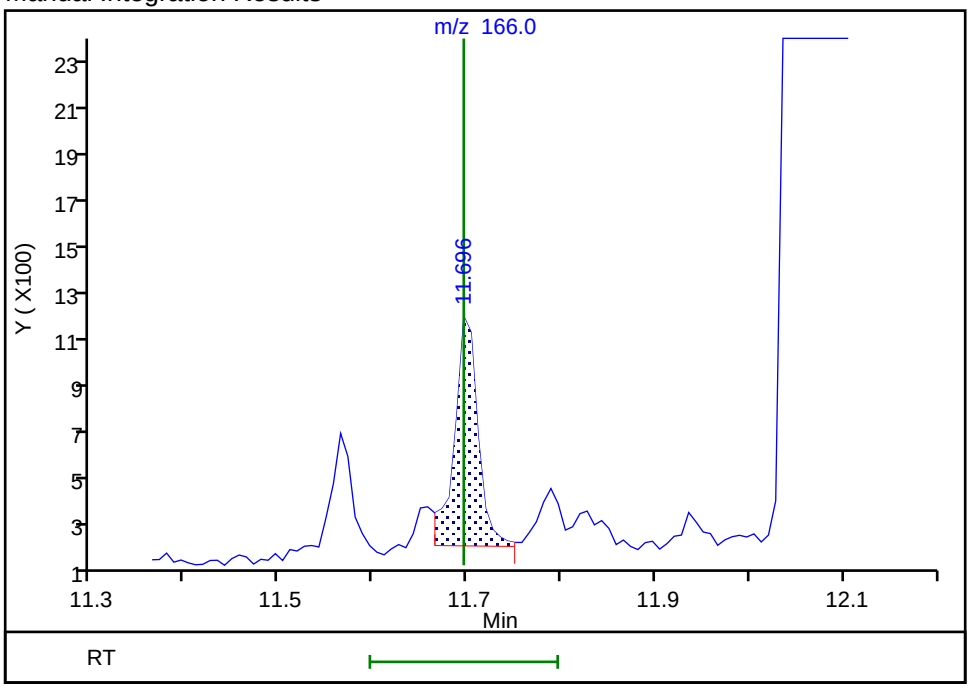
Processing Integration Results

RT: 11.70
Area: 2846
Amount: 0.003370
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 1660
Amount: 0.001965
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:27:11

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

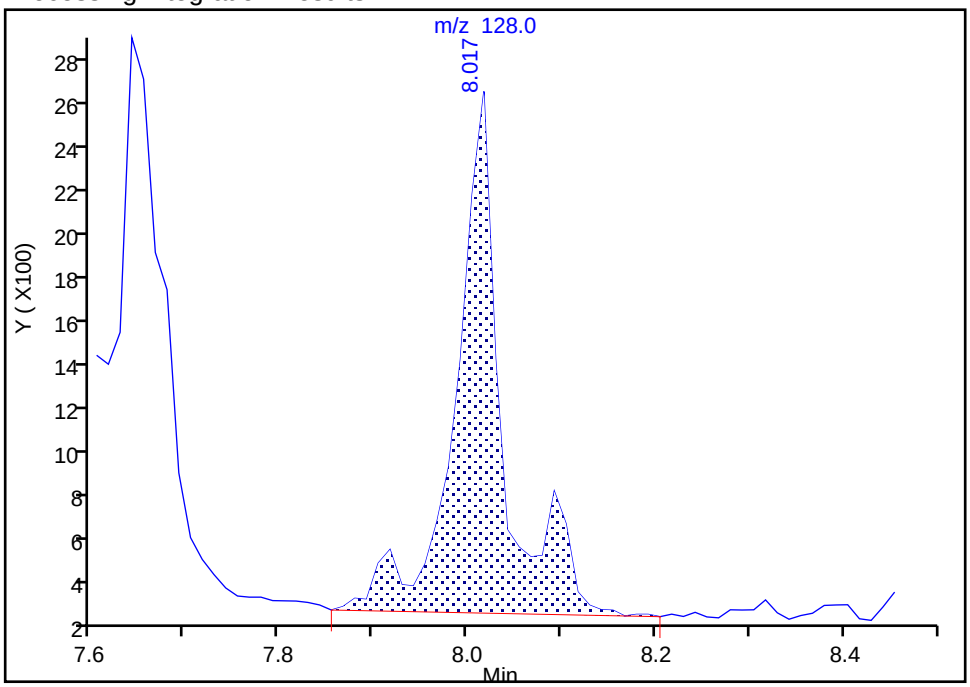
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Injection Date:	27-Dec-2021 22:05:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-8-A	Lab Sample ID:	410-68043-8
Client ID:	MW-14S-20211221		
Operator ID:	whs02991	ALS Bottle#:	18 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	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

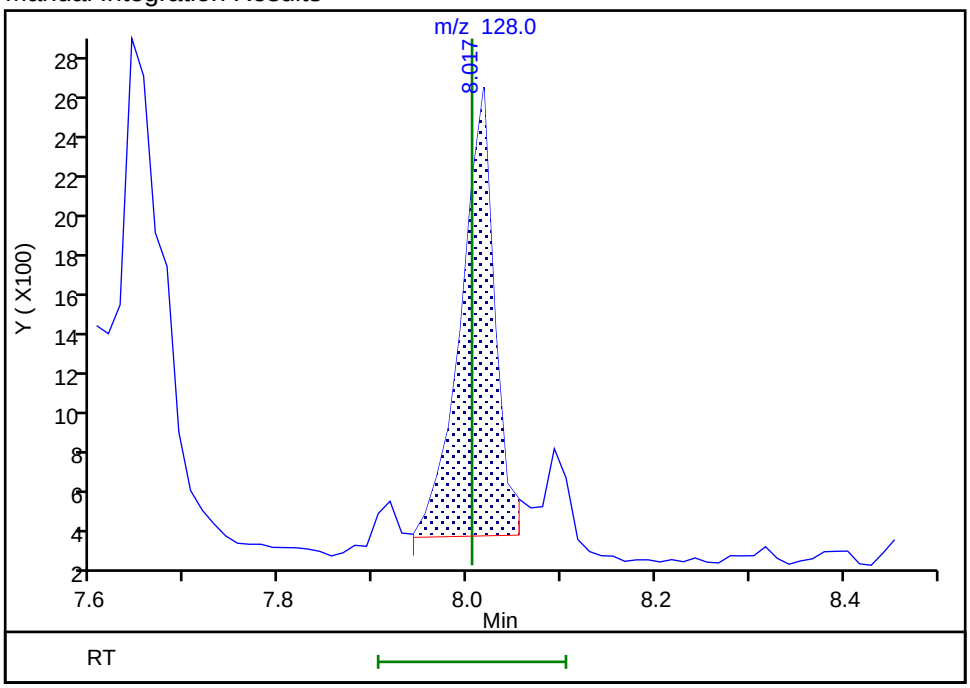
Processing Integration Results

RT: 8.02
Area: 7988
Amount: 0.006708
Amount Units: ug/ml



Manual Integration Results

RT: 8.02
Area: 5353
Amount: 0.004495
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:26:51

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-14D-20211221 Lab Sample ID: 410-68043-9

Matrix: Ground Water Lab File ID: NL1218.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 12:39

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 232.2(mL) Date Analyzed: 12/27/2021 22:32

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.018	J cn	0.054	0.011
208-96-8	Acenaphthylene	0.047	J cn	0.054	0.011
120-12-7	Anthracene	ND	cn	0.054	0.011
56-55-3	Benzo[a]anthracene	0.013	J cn	0.054	0.011
50-32-8	Benzo[a]pyrene	ND	cn	0.054	0.011
205-99-2	Benzo[b]fluoranthene	0.014	J *+ cn	0.054	0.011
191-24-2	Benzo[g,h,i]perylene	ND	*+ cn	0.054	0.011
207-08-9	Benzo[k]fluoranthene	ND	*+ cn	0.054	0.011
218-01-9	Chrysene	ND	cn	0.054	0.011
53-70-3	Dibenz(a,h)anthracene	ND	*+ cn	0.054	0.022
206-44-0	Fluoranthene	0.020	J cn	0.054	0.011
86-73-7	Fluorene	0.12	cn	0.054	0.011
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*+ cn	0.054	0.022
91-20-3	Naphthalene	ND	cn	0.075	0.032
85-01-8	Phenanthrene	0.042	J cn	0.075	0.032
129-00-0	Pyrene	0.023	J cn	0.054	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	54	cn	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	95	cn	36-111
93951-69-0	Fluoranthene-d10 (Surr)	94	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D
Lims ID: 410-68043-A-9-A
Client ID: MW-14D-20211221
Sample Type: Client
Inject. Date: 27-Dec-2021 22:32:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-9-A
Misc. Info.: 410-0047167-019
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:29:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	97	83476	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	285719	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	99	6691	0.005601	M
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	143894	0.2373	
12 Acenaphthylene	152	10.605	10.614	0.011	99	12443	0.0109	
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	159638	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	65	2978	0.004198	
17 Fluorene	166	11.696	11.696	0.000	99	22355	0.0268	M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	273929	0.2500	
21 Phenanthrene	178	12.870	12.870	0.008	97	11688	0.009736	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	246390	0.2347	
25 Fluoranthene	202	14.443	14.448	0.012	73	5539	0.004702	
26 Pyrene	202	14.769	14.775	0.012	98	7538	0.005419	
28 Benzo[a]anthracene	228	16.737	16.736	0.016	2	3185	0.002990	
* 29 Chrysene-d12	240	16.744	16.737	0.007	81	222321	0.2500	
33 Benzo[b]fluoranthene	252	18.593	18.592	0.039	100	3508	0.003213	M
34 Benzo[k]fluoranthene	252	18.639	18.639	0.039	99	1470	0.001181	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	99	110580	0.1359	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	98	2322	0.002201	M
* 38 Perylene-d12	264	19.183	19.175	0.008	98	221869	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.838	20.845	0.063	97	1555	0.001617	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

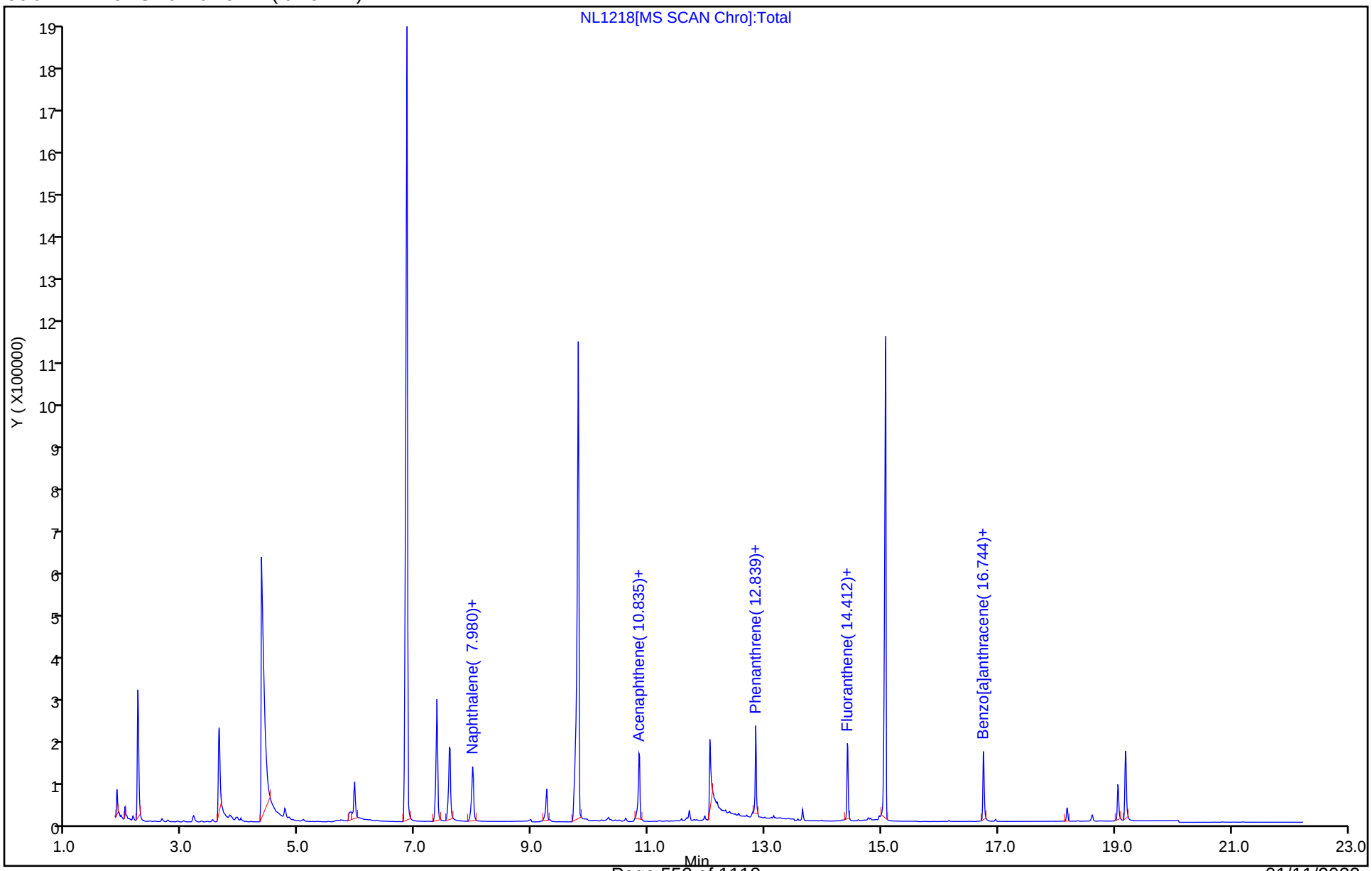
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D

Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9	Worklist Smp#:	19
Client ID:	MW-14D-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

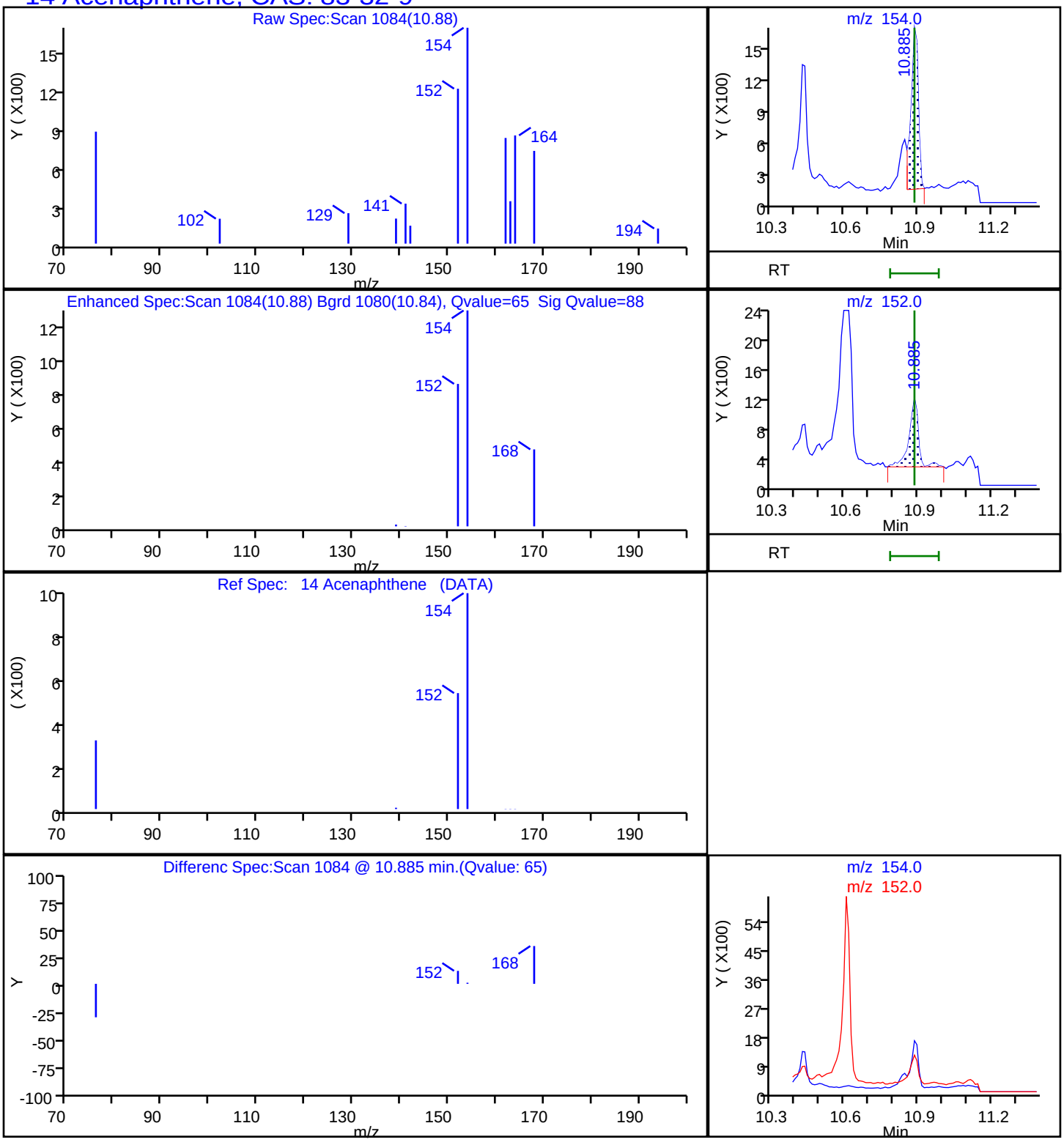
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D		
Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9
Client ID:	MW-14D-20211221		
Operator ID:	whs02991	ALS Bottle#:	19 Worklist Smp#: 19
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

14 Acenaphthene, CAS: 83-32-9



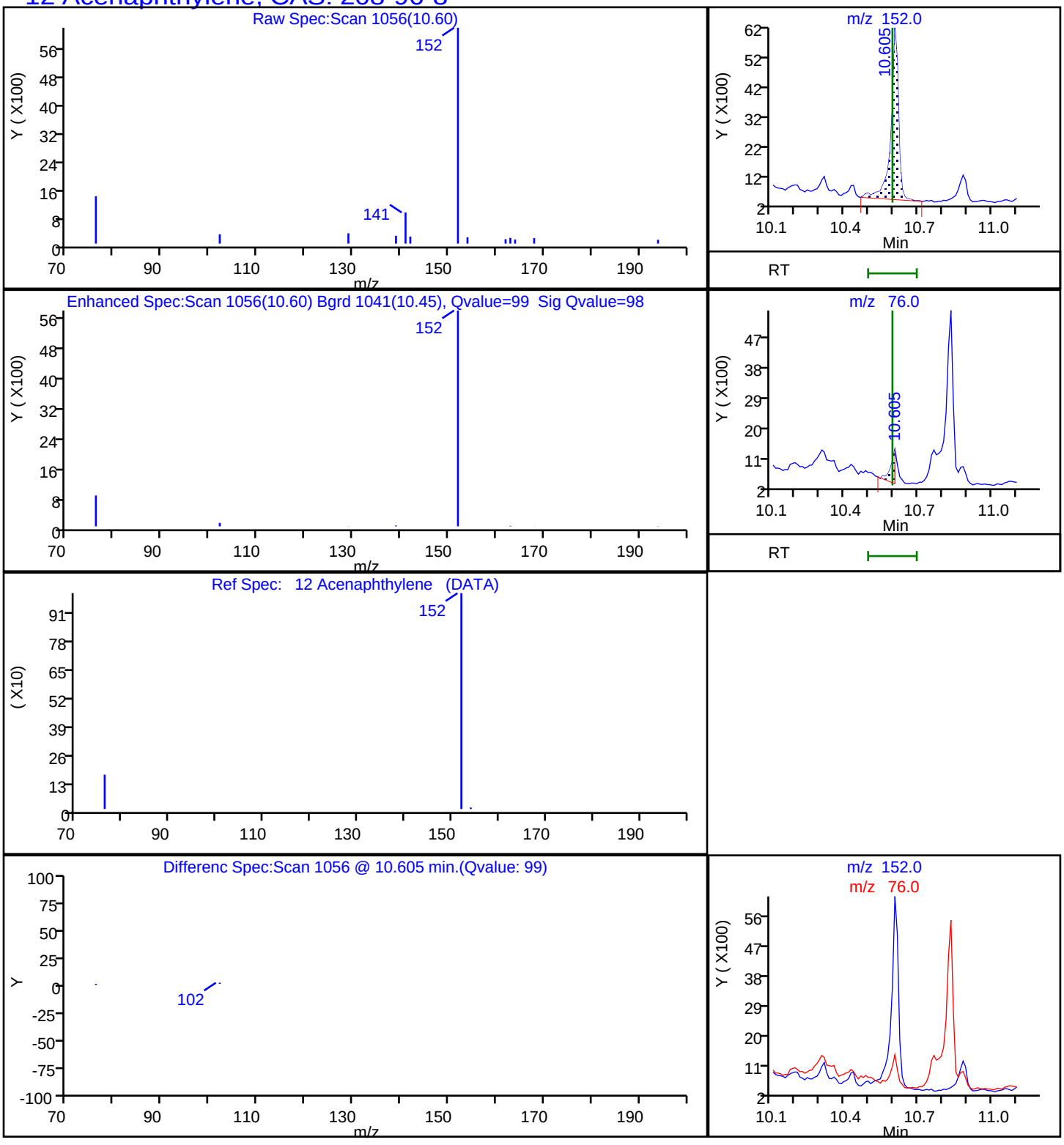
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D

Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
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		

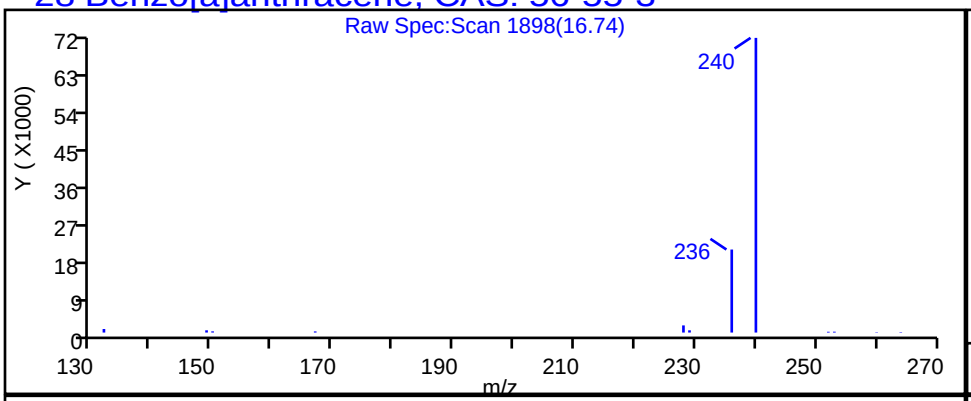
12 Acenaphthylene, CAS: 208-96-8

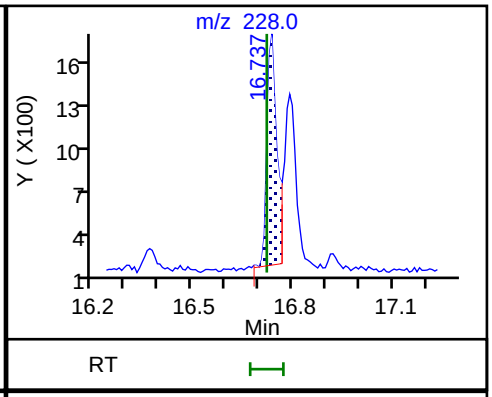


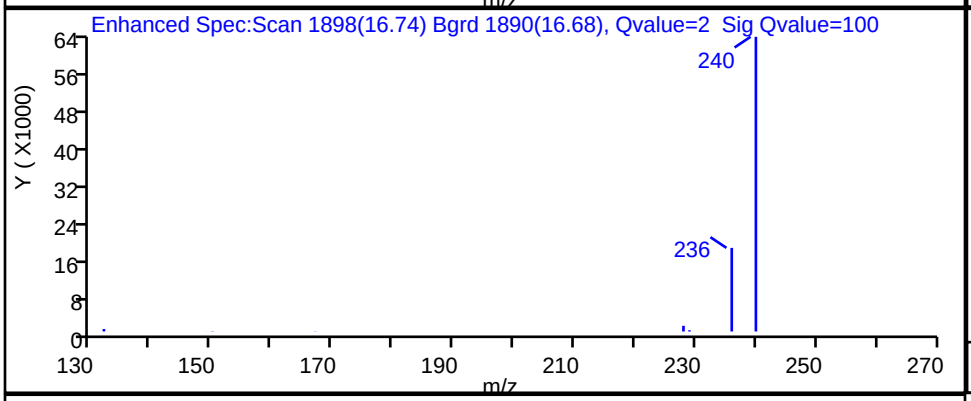
Eurofins Lancaster Laboratories Env, LLC

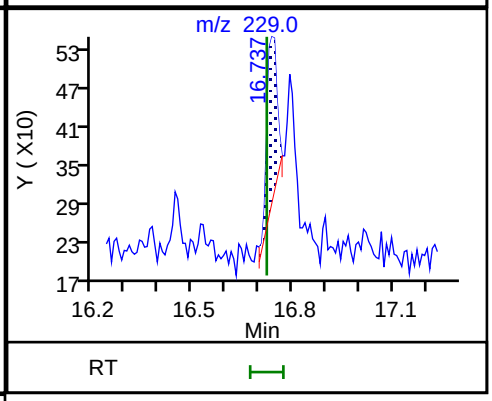
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Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9
Client ID:	MW-14D-20211221		
Operator ID:	whs02991	ALS Bottle#:	19 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

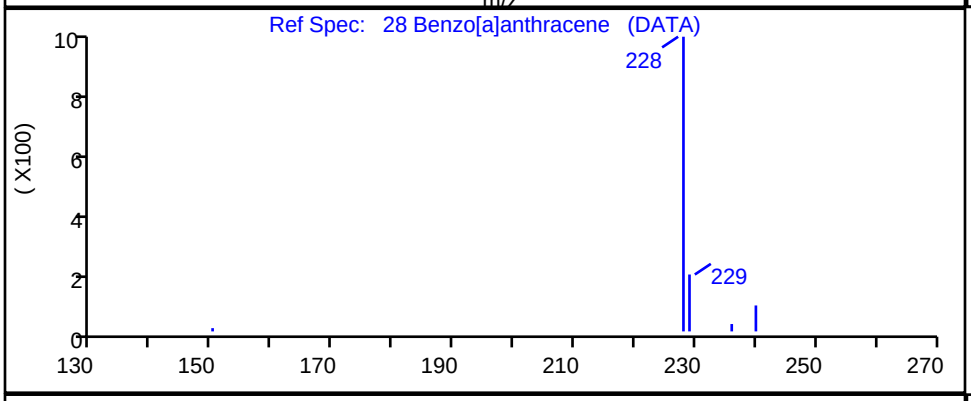
28 Benzo[a]anthracene, CAS: 56-55-3

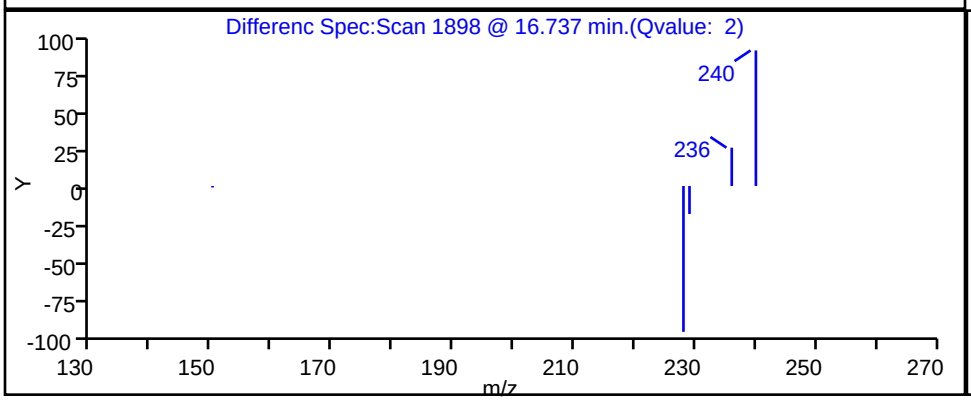


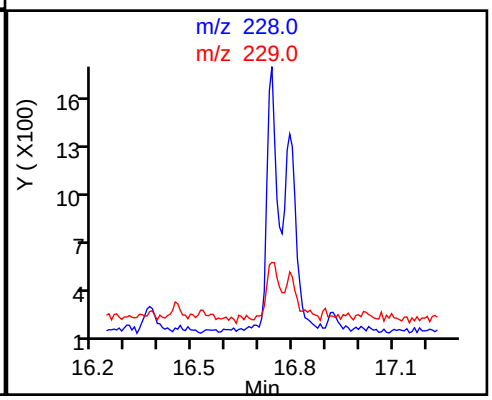








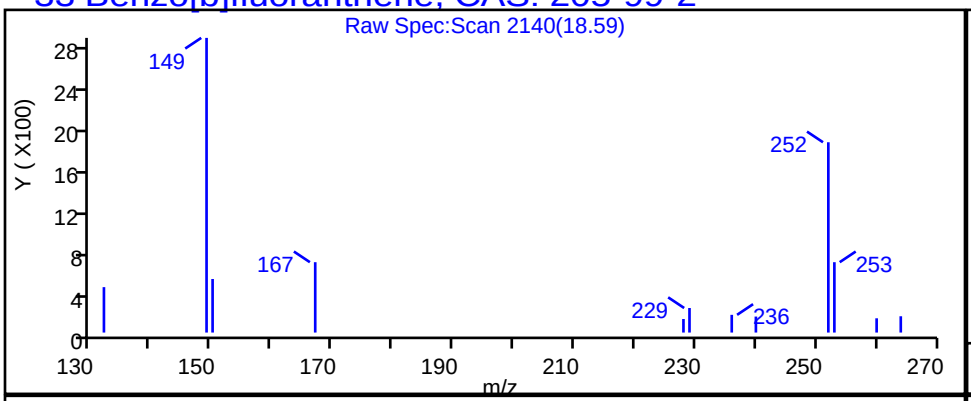


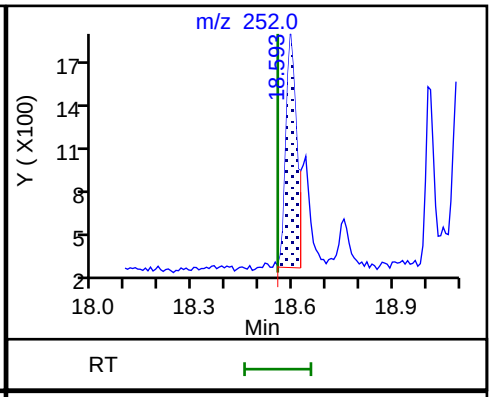


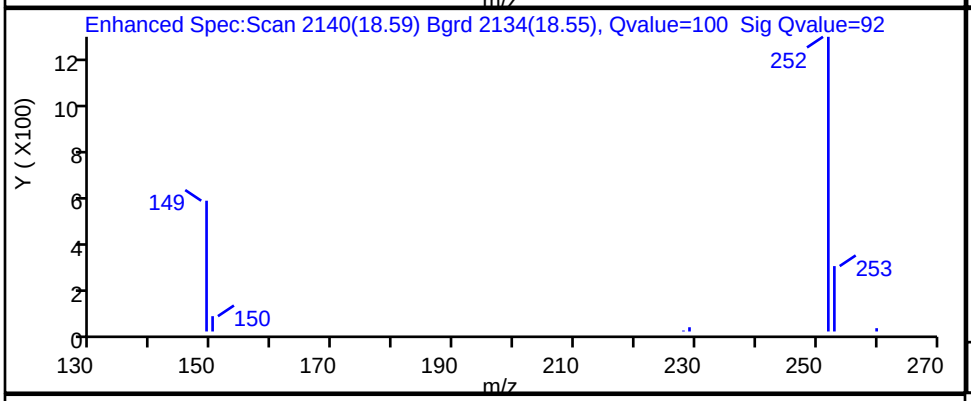
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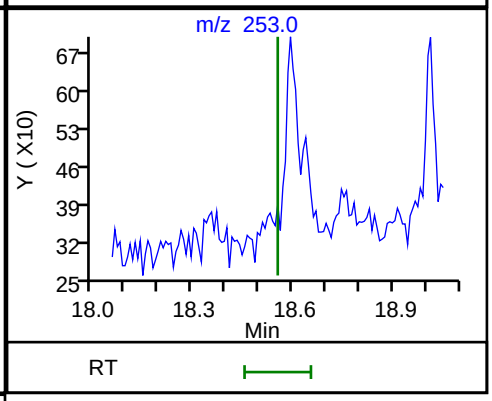
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Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

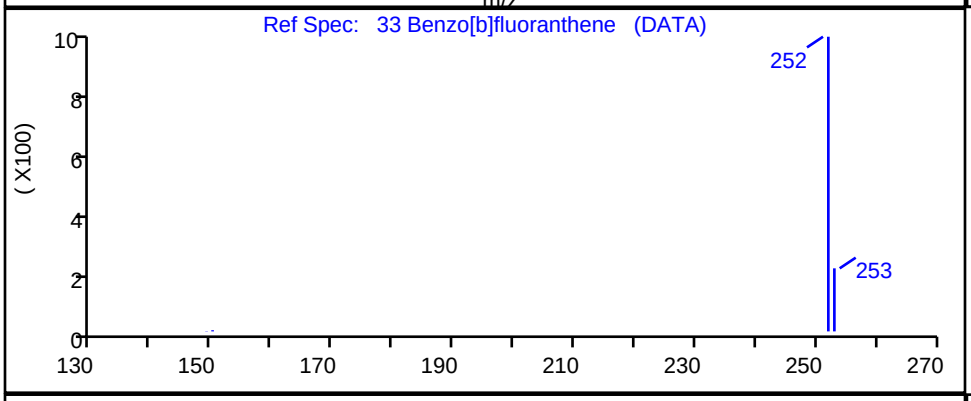
33 Benzo[b]fluoranthene, CAS: 205-99-2

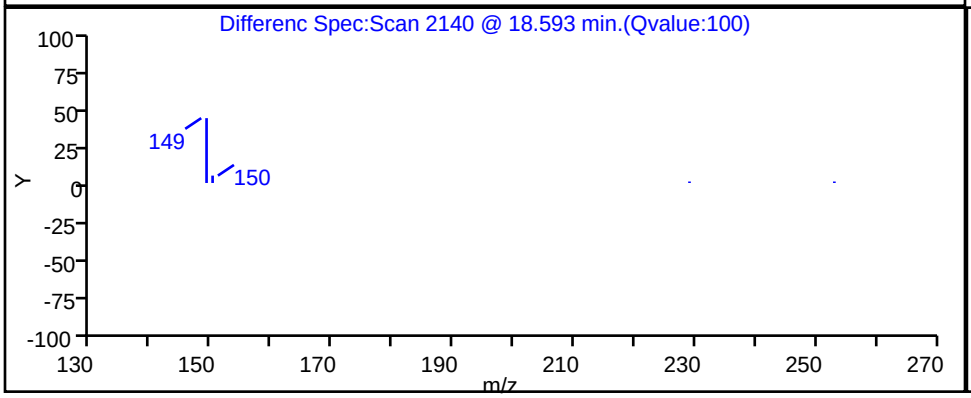


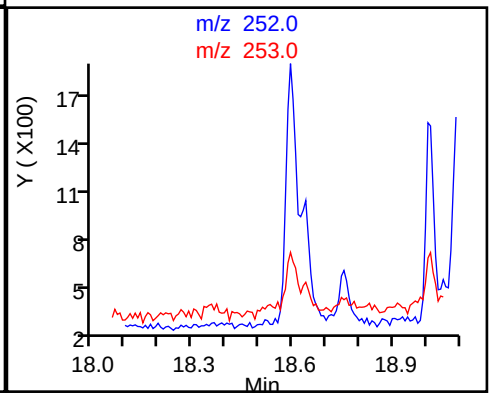












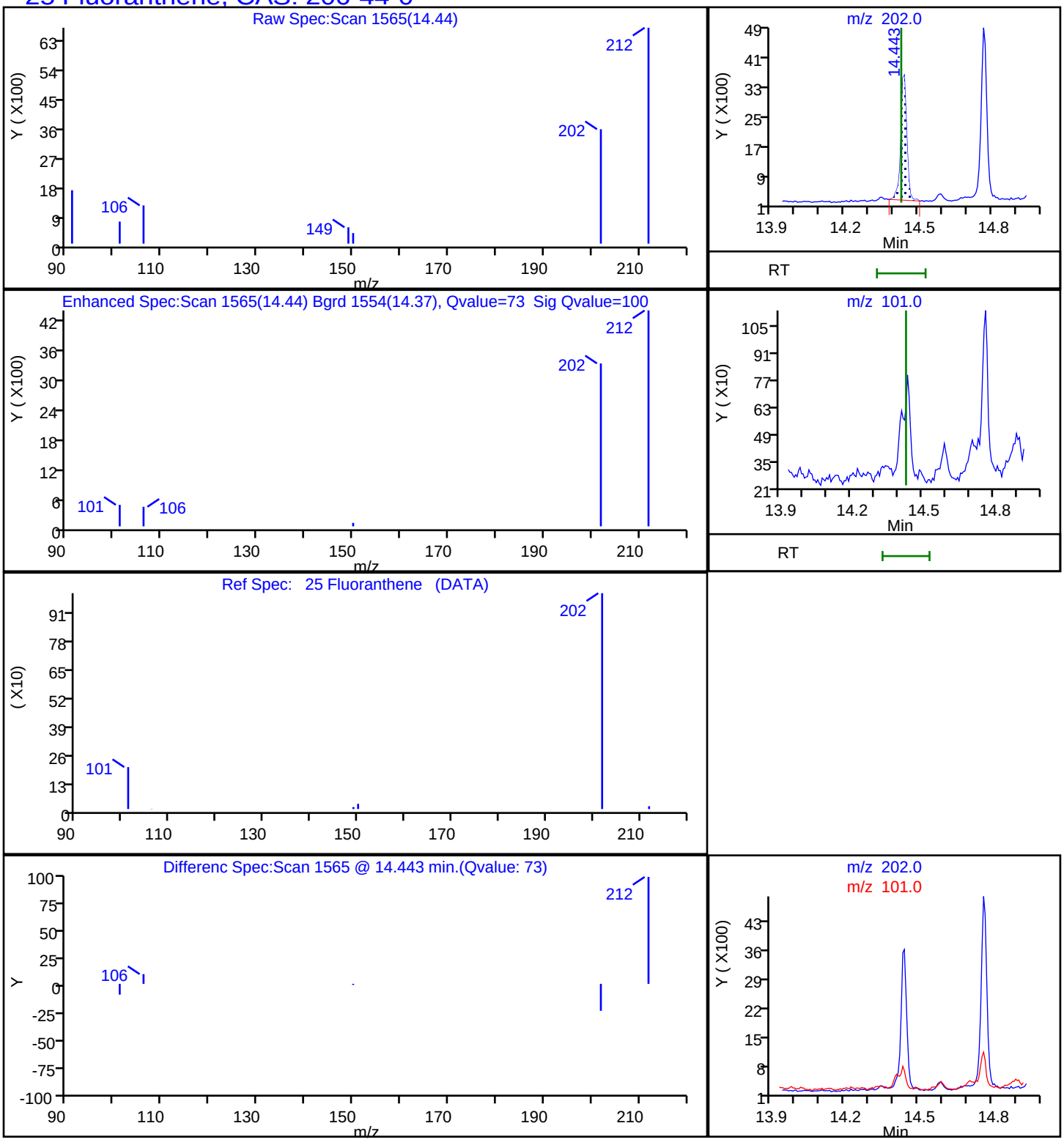
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D

Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
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		

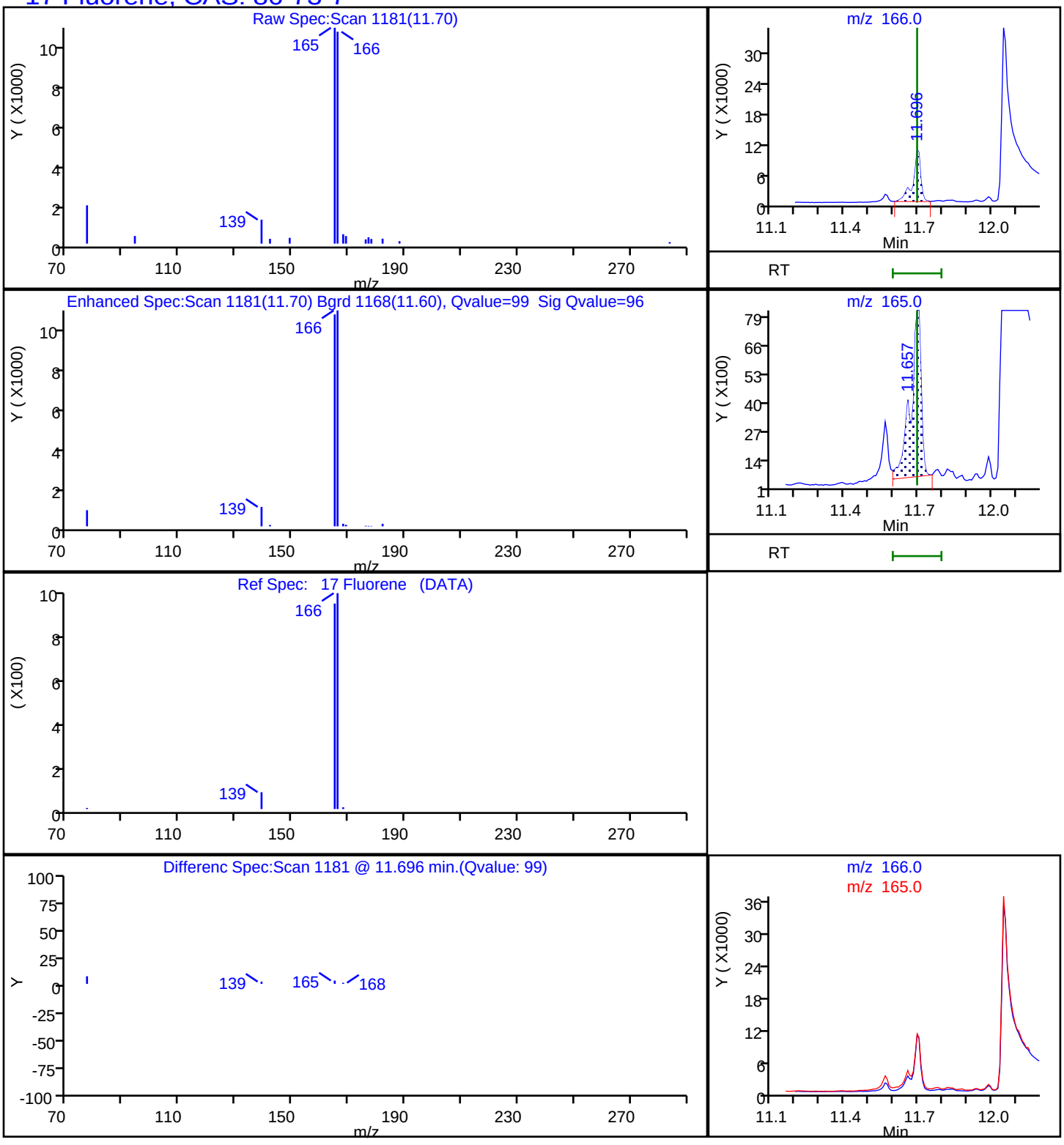
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D				
Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
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		

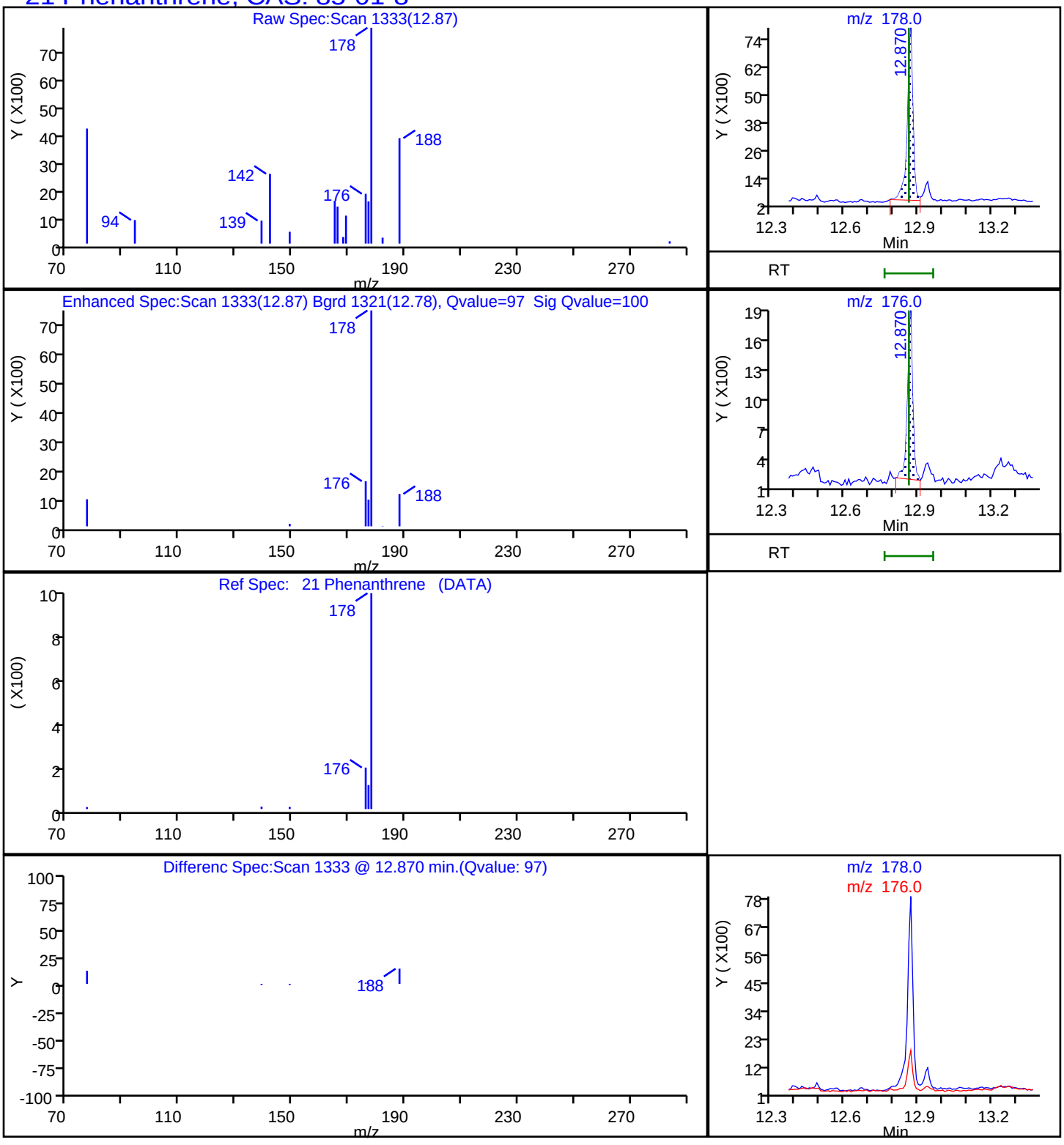
17 Fluorene, CAS: 86-73-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D		
Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9
Client ID:	MW-14D-20211221		
Operator ID:	whs02991	ALS Bottle#:	19 Worklist Smp#: 19
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

21 Phenanthrene, CAS: 85-01-8



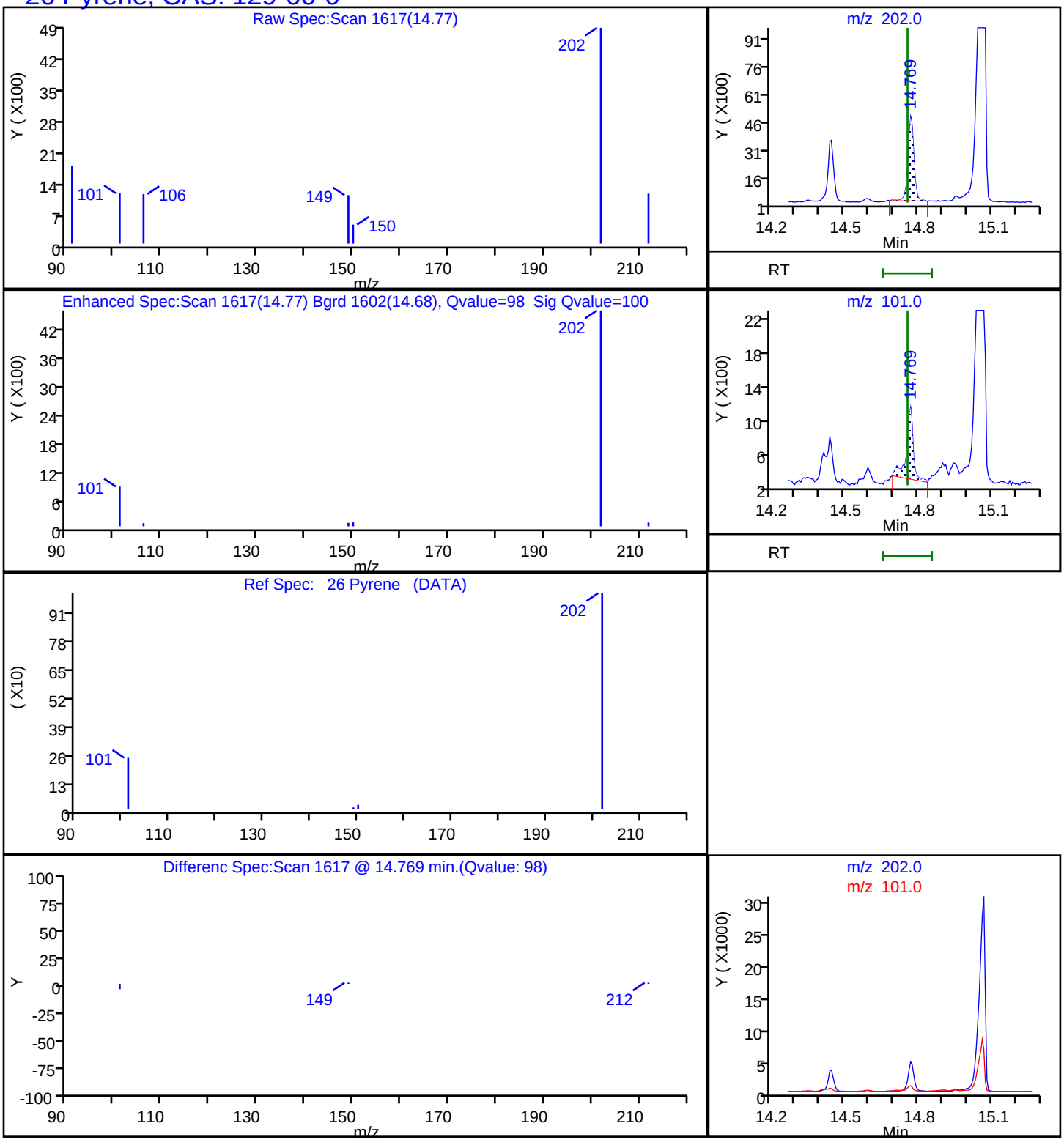
Report Date: 28-Dec-2021 06:59:15 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D

Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

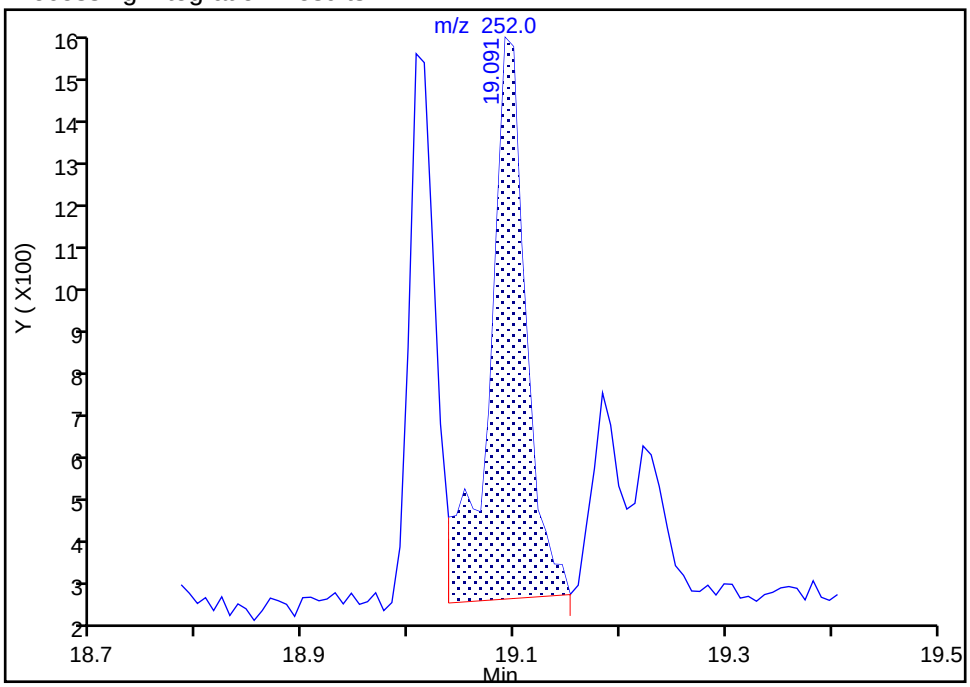
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Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

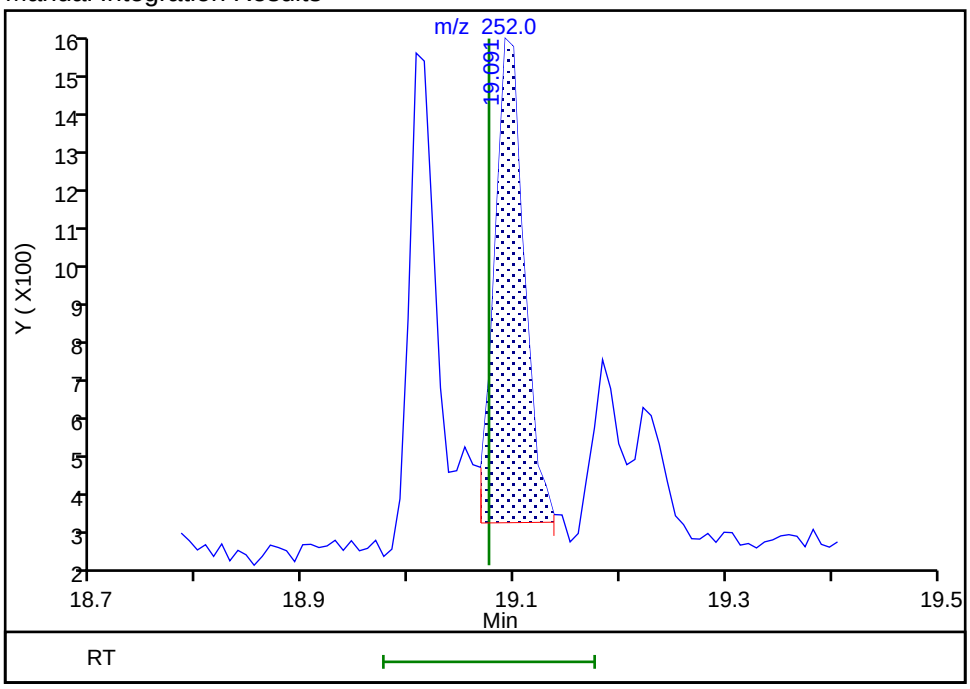
Processing Integration Results

RT: 19.09
Area: 2994
Amount: 0.002838
Amount Units: ug/ml



Manual Integration Results

RT: 19.09
Area: 2322
Amount: 0.002201
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:29:05

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

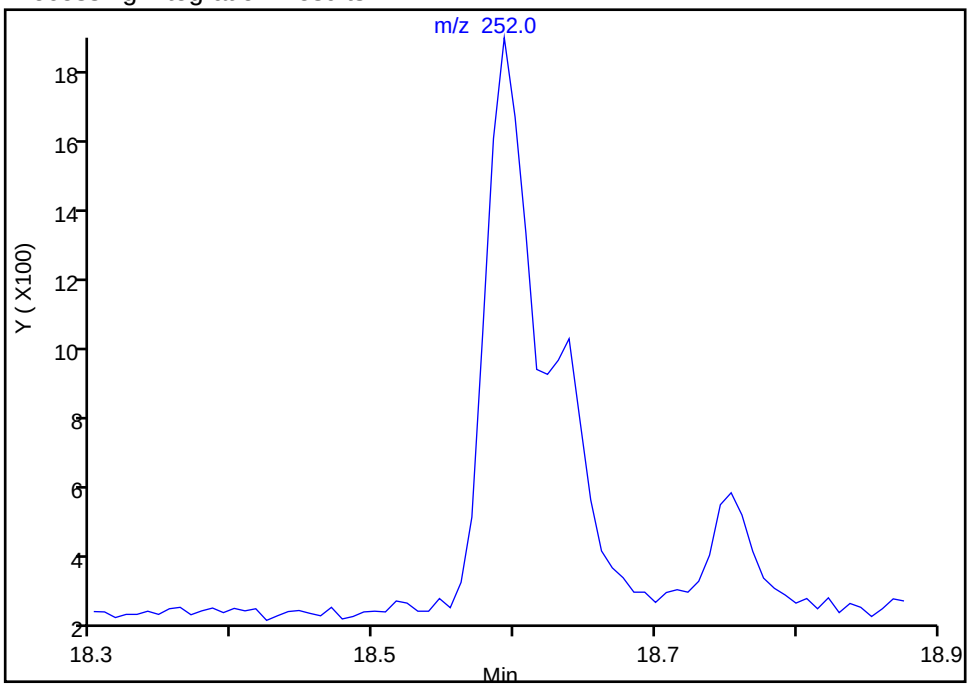
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Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

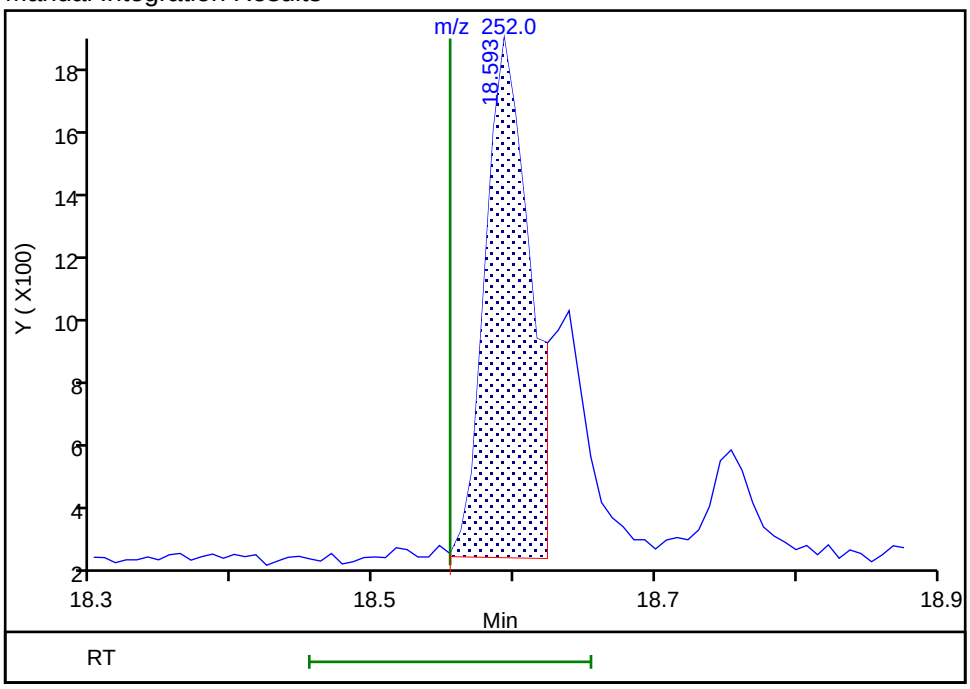
Not Detected
Expected RT: 18.55

Processing Integration Results



Manual Integration Results

RT: 18.59
Area: 3508
Amount: 0.003213
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:28:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

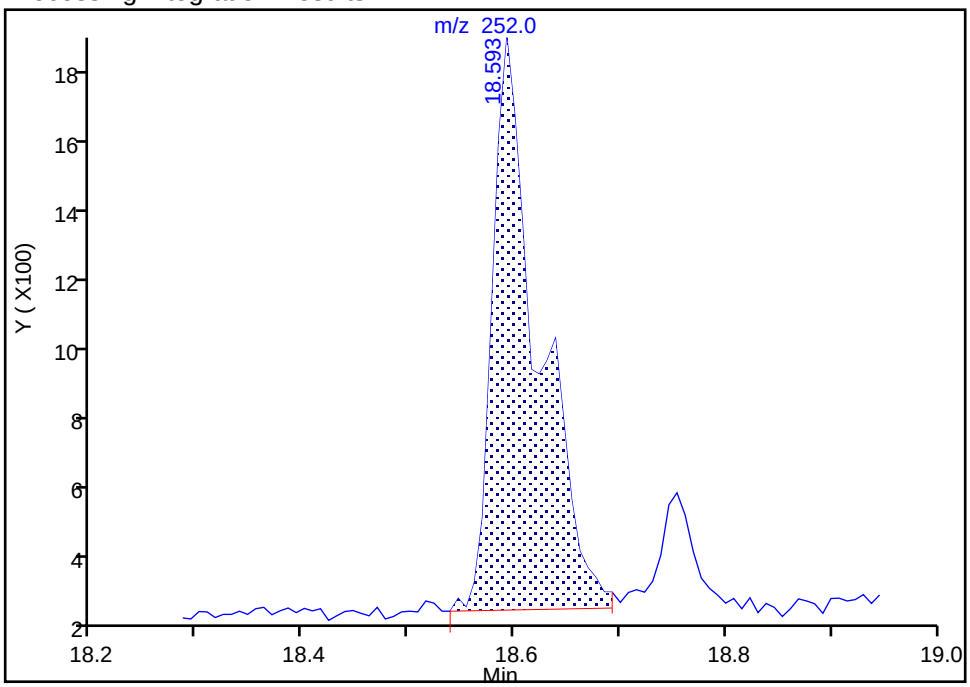
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D				
Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	whs02991	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 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

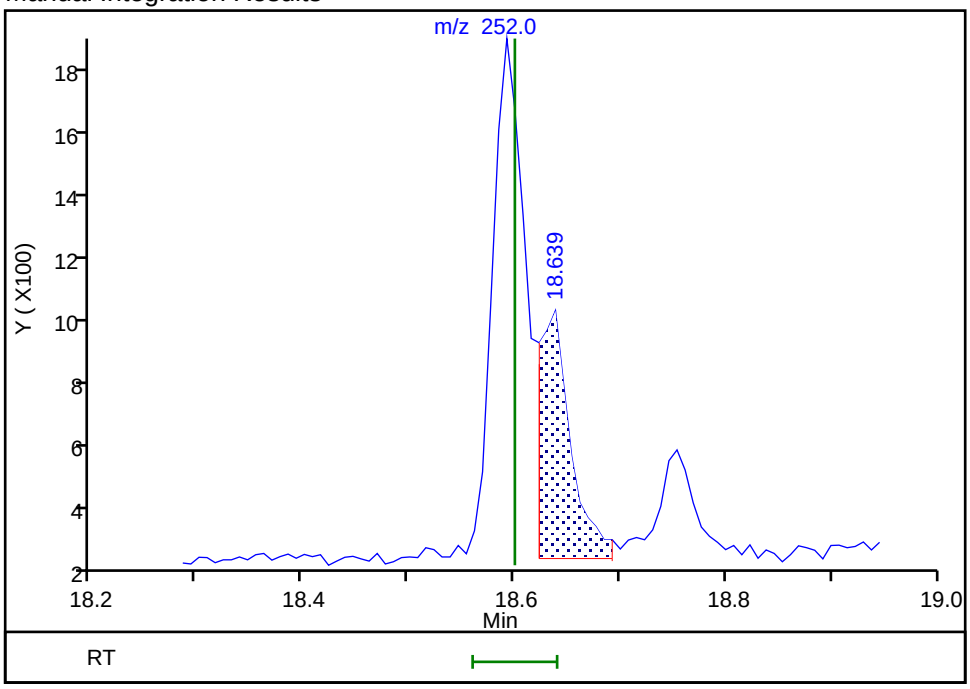
Processing Integration Results

RT: 18.59
Area: 4926
Amount: 0.003959
Amount Units: ug/ml



Manual Integration Results

RT: 18.64
Area: 1470
Amount: 0.001181
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:28:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

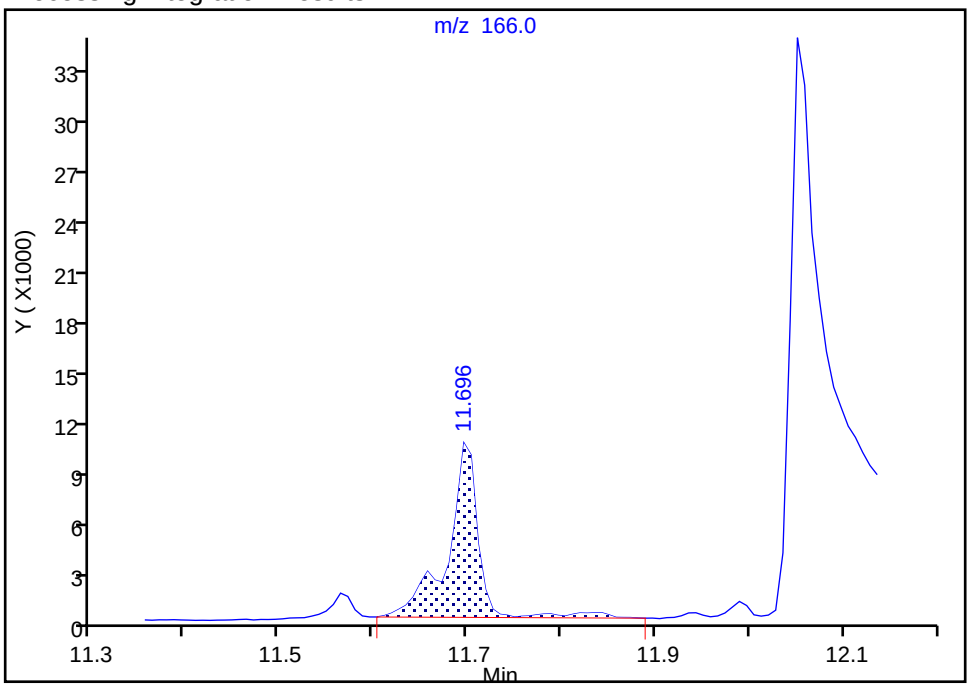
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D		
Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9
Client ID:	MW-14D-20211221		
Operator ID:	whs02991	ALS Bottle#:	19 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. 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

17 Fluorene, CAS: 86-73-7

Signal: 1

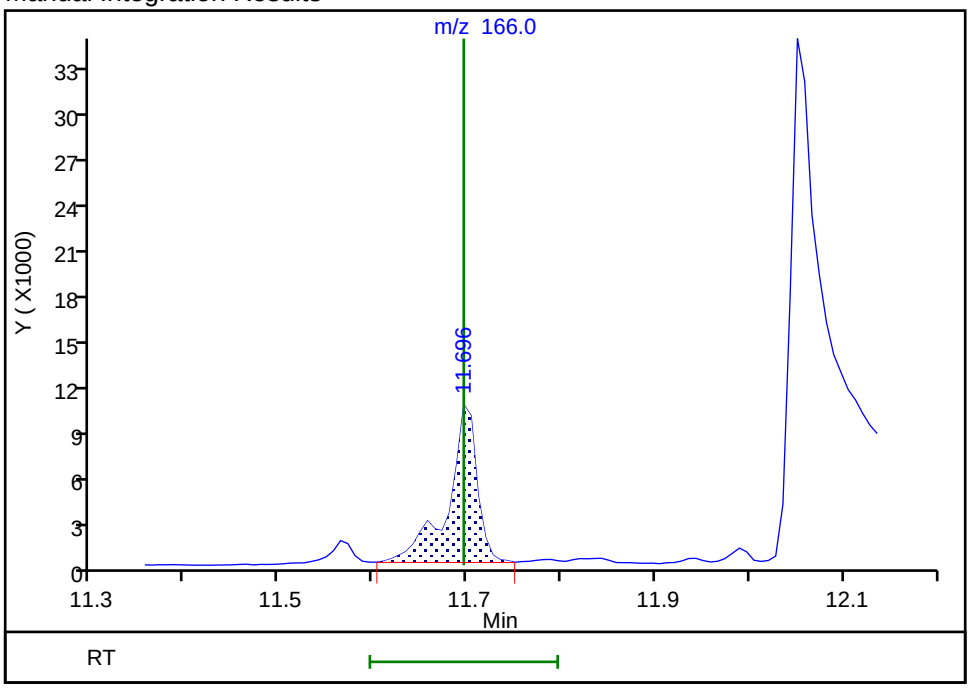
Processing Integration Results

RT: 11.70
Area: 23603
Amount: 0.028326
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 22355
Amount: 0.026829
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:28:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

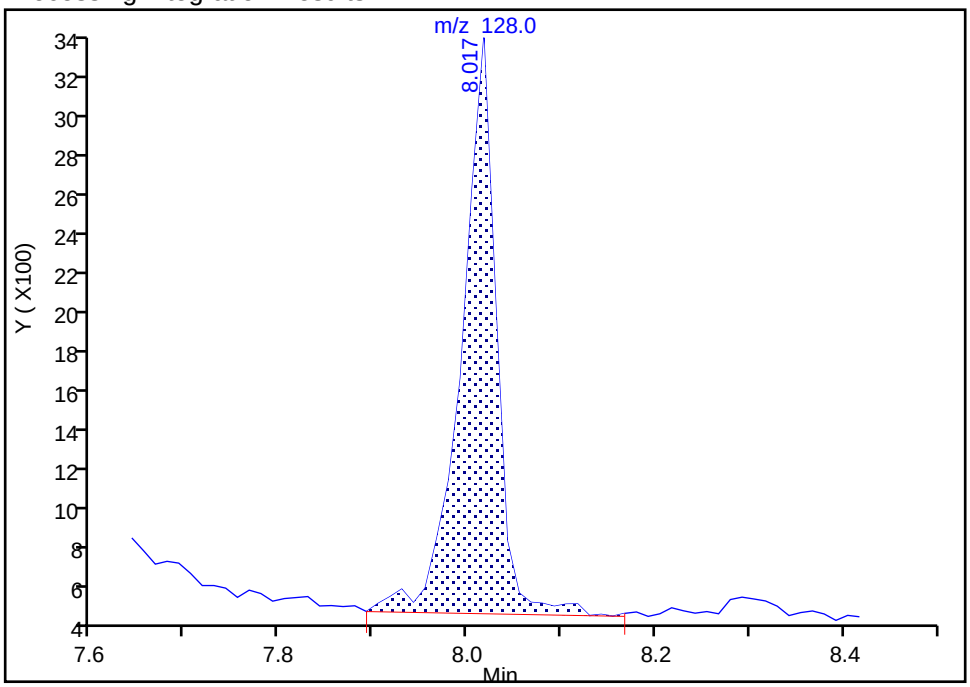
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1218.D		
Injection Date:	27-Dec-2021 22:32:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-9-A	Lab Sample ID:	410-68043-9
Client ID:	MW-14D-20211221		
Operator ID:	whs02991	ALS Bottle#:	19 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. 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

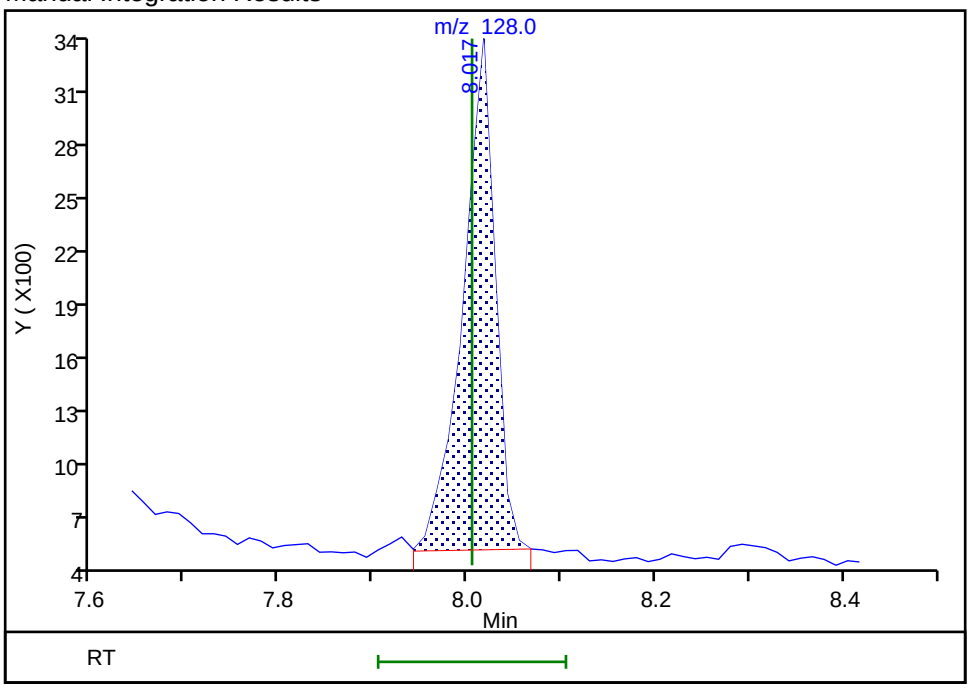
Processing Integration Results

RT: 8.02
Area: 7453
Amount: 0.006239
Amount Units: ug/ml



Manual Integration Results

RT: 8.02
Area: 6691
Amount: 0.005601
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:28:11

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-14D-20211221 RE Lab Sample ID: 410-68043-9 RE

Matrix: Ground Water Lab File ID: ML1807.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 12:39

Extract. Method: 3510C Date Extracted: 12/30/2021 09:26

Sample wt/vol: 243.9(mL) Date Analyzed: 12/31/2021 17:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210855 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.017*	*J H*	*0.051*	*0.010*
208-96-8	*Acenaphthylene*	*0.031*	*J H*	*0.051*	*0.010*
120-12-7	*Anthracene*	*ND*	*H*	*0.051*	*0.010*
56-55-3	*Benzo[a]anthracene*	*ND*	*H*	*0.051*	*0.010*
50-32-8	*Benzo[a]pyrene*	*ND*	*H*	*0.051*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*ND*	*H*	*0.051*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*ND*	*H*	*0.051*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	*H*	*0.051*	*0.010*
218-01-9	*Chrysene*	*ND*	*H*	*0.051*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.051*	*0.021*
206-44-0	*Fluoranthene*	*ND*	*H*	*0.051*	*0.010*
86-73-7	*Fluorene*	*0.078*	*H*	*0.051*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*ND*	*H*	*0.051*	*0.021*
91-20-3	*Naphthalene*	*ND*	*H*	*0.072*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*H*	*0.072*	*0.031*
129-00-0	*Pyrene*	*0.015*	*J H*	*0.051*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	45		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	83		36-111
93951-69-0	Fluoranthene-d10 (Surr)	90		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D				
Lims ID:	410-68043-B-9-A				
Client ID:	MW-14D-20211221				
Sample Type:	Client				
Inject. Date:	31-Dec-2021 17:13:13	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-68043-B-9-A				
Misc. Info.:	410-0047541-008				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	04-Jan-2022 13:17:34	Calib Date:	21-Dec-2021 12:24:39		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1653				
First Level Reviewer: transuea		Date:	04-Jan-2022 13:09:11		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	88	41142	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	92	126992	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.154	10.166	-0.012	99	61075	0.2071	
12 Acenaphthylene	152	11.498	11.498	-0.001	100	4698	0.007578	M
* 13 Acenaphthene-d10	164	11.706	11.706	0.000	89	89663	0.2500	
14 Acenaphthene	154	11.743	11.755	-0.012	88	1784	0.004265	
17 Fluorene	166	12.426	12.426	0.000	97	9472	0.0189	M
* 20 Phenanthrene-d10	188	13.597	13.597	0.000	95	193879	0.2500	
21 Phenanthrene	178	13.628	13.628	0.000	99	5427	0.006275	7M
$ 24 Fluoranthene-d10 (Surr)	212	15.270	15.275	-0.005	96	191034	0.2242	
25 Fluoranthene	202	15.302	15.300	0.002	97	2299	0.002215	7M
26 Pyrene	202	15.647	15.647	-0.005	96	3913	0.003539	M
* 29 Chrysene-d12	240	17.691	17.696	-0.005	55	214939	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.038	20.038	-0.005	97	99798	0.1127	
* 38 Perylene-d12	264	20.168	20.173	-0.005	97	244678	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

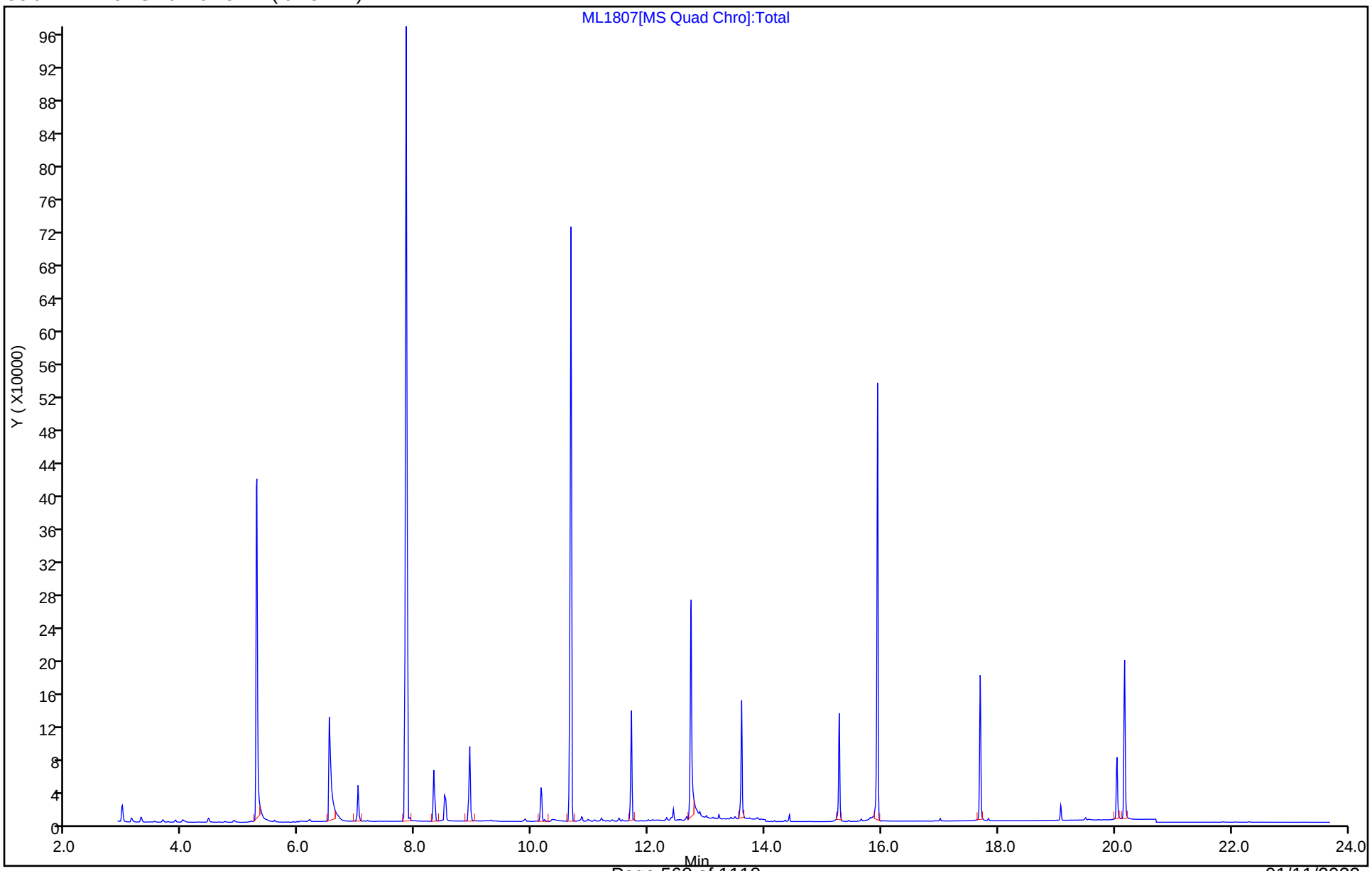
Report Date: 04-Jan-2022 13:18:39 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D

Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9	Worklist Smp#:	8
Client ID:	MW-14D-20211221				
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)



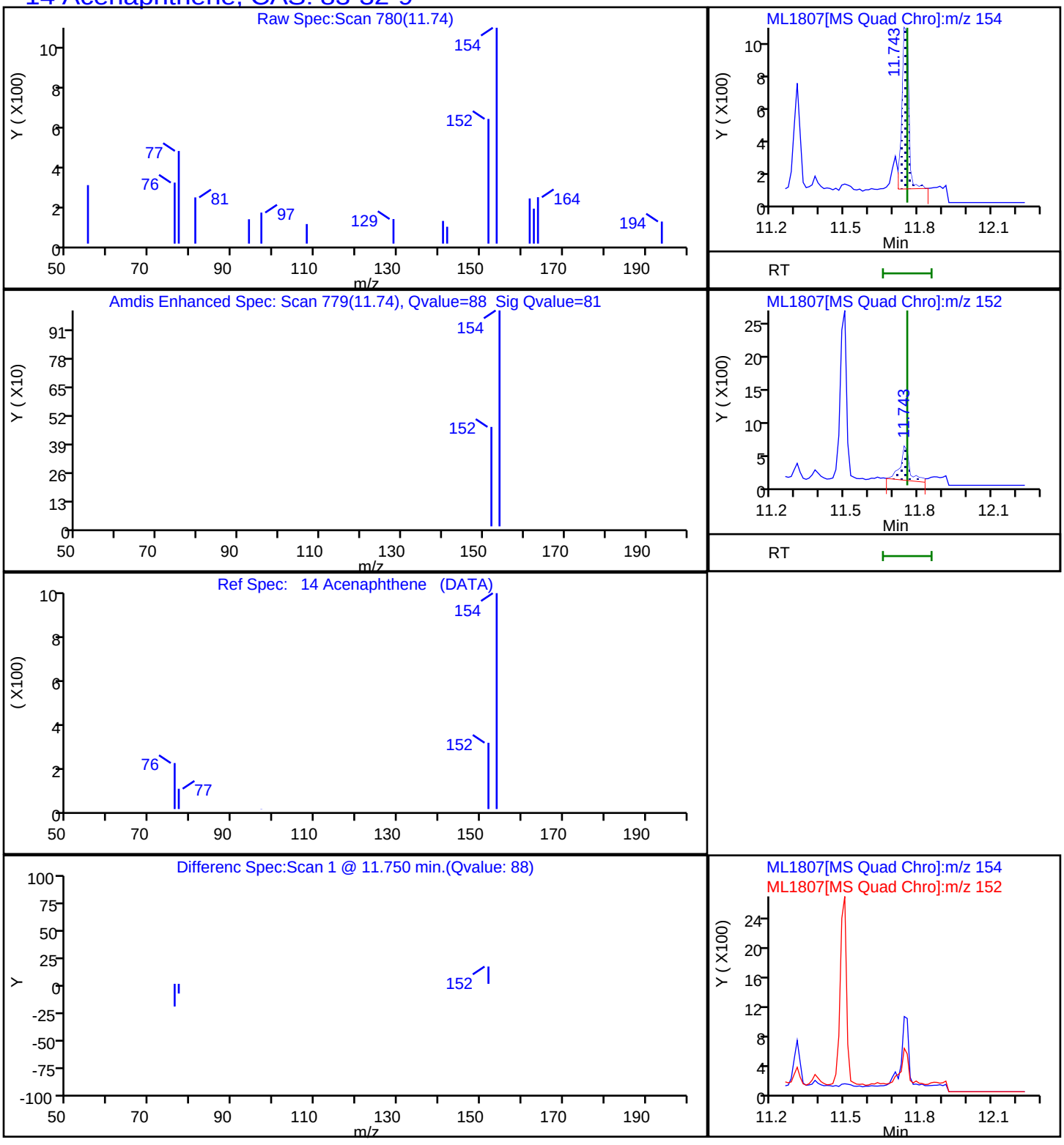
Report Date: 04-Jan-2022 13:18:39 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D

Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
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



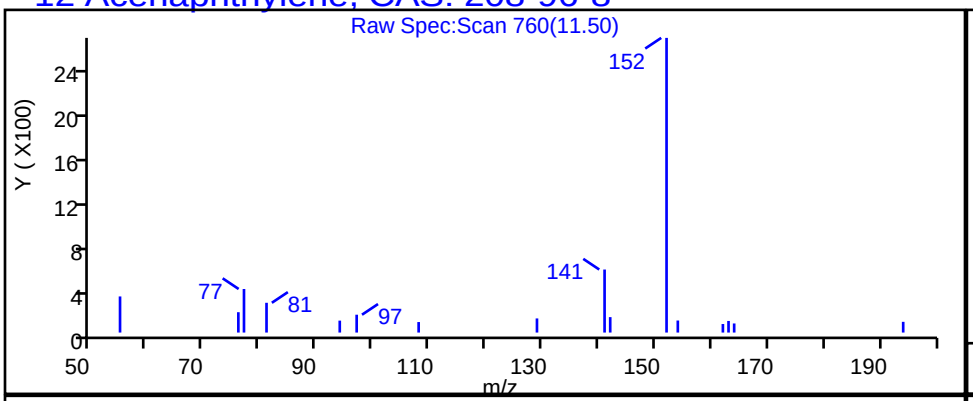
Report Date: 04-Jan-2022 13:18:39 Chrom Revision: 2.3 15-Nov-2021 20:34:30

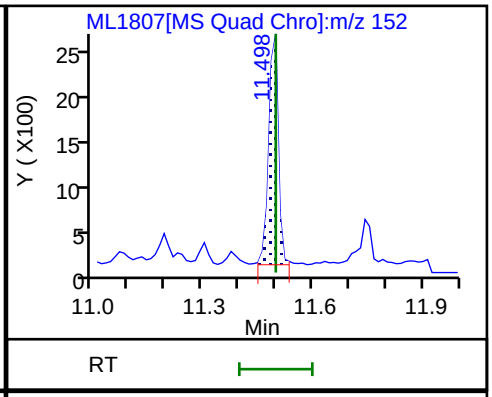
Eurofins Lancaster Laboratories Env, LLC

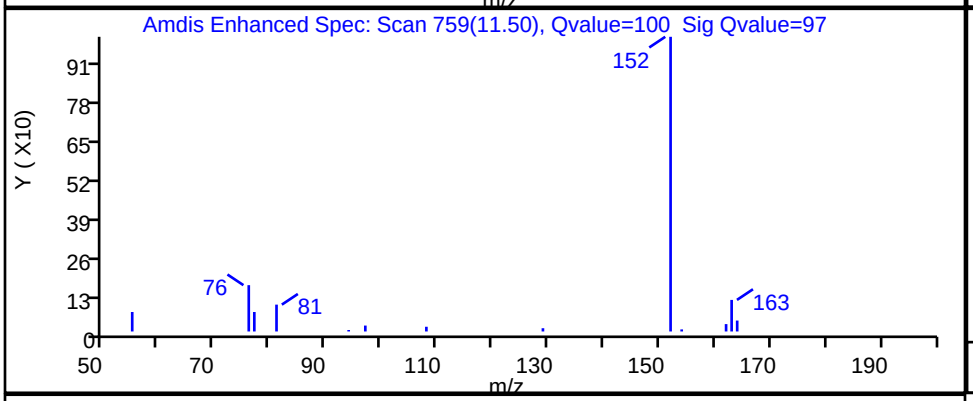
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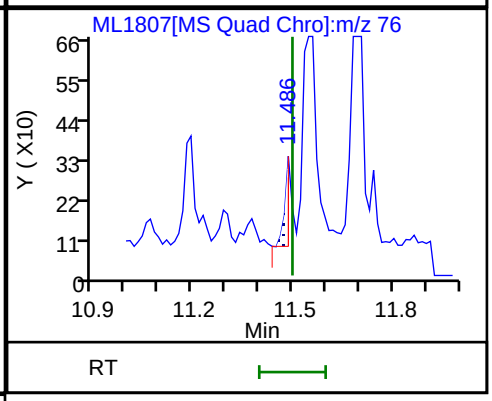
Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

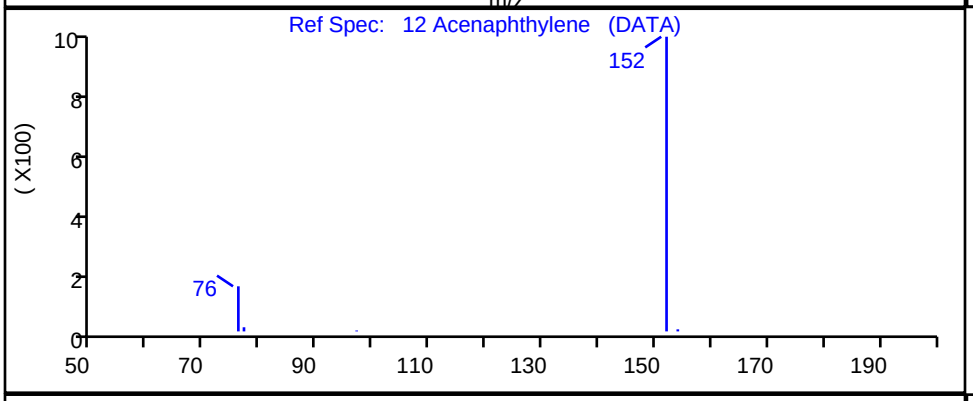
12 Acenaphthylene, CAS: 208-96-8

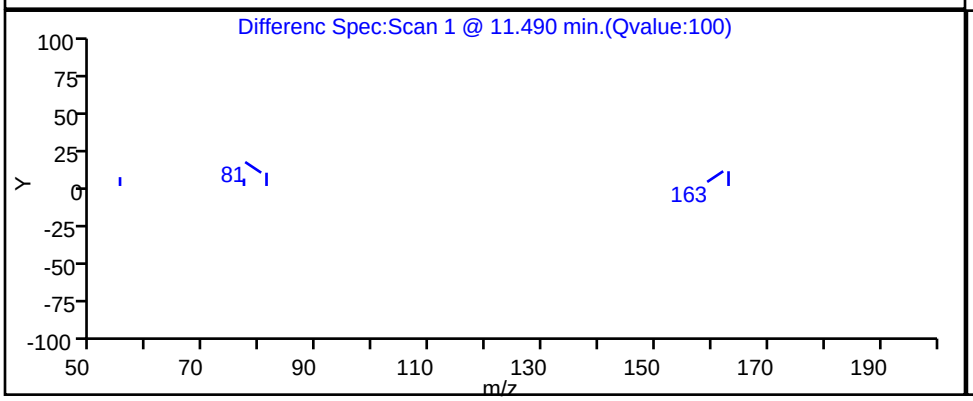


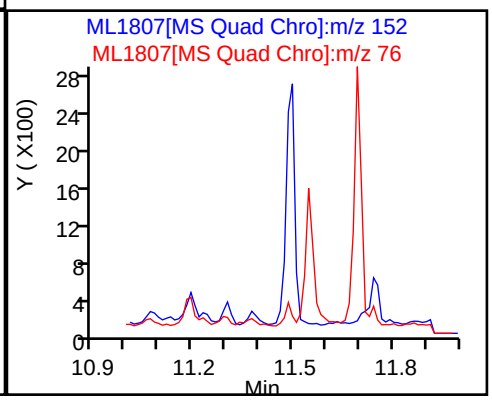








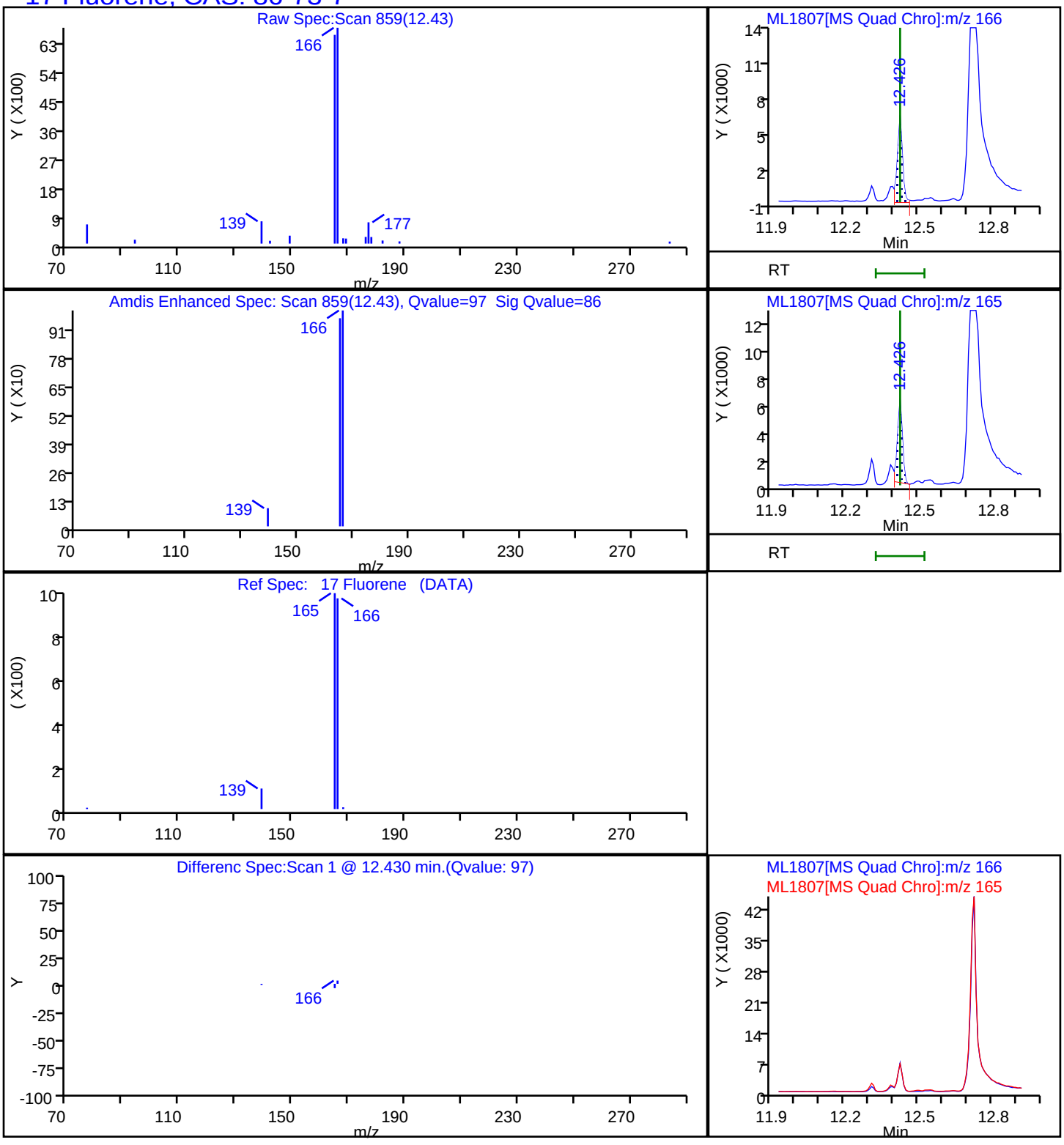




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D		
Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9
Client ID:	MW-14D-20211221		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 8
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



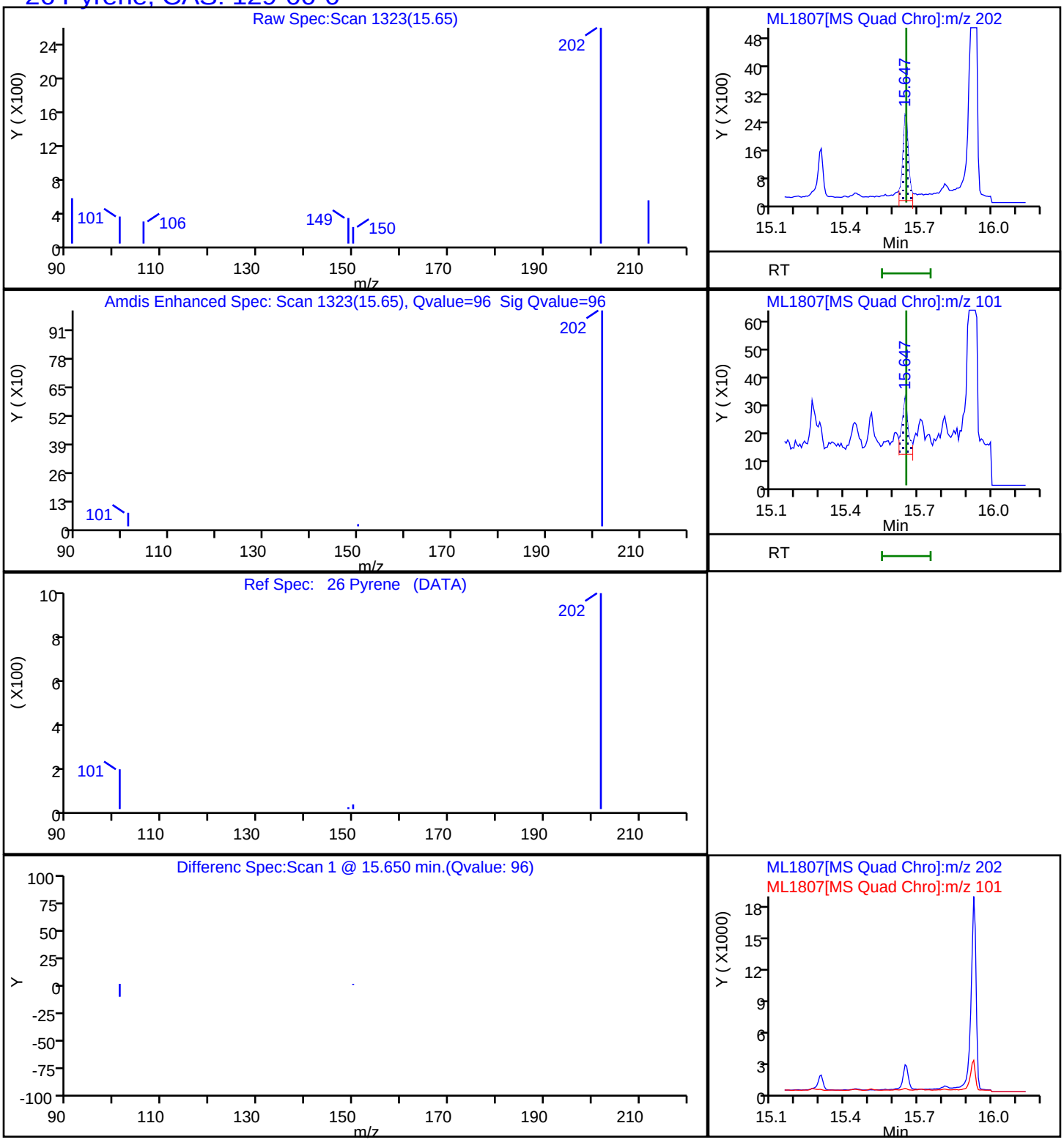
Report Date: 04-Jan-2022 13:18:39 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D

Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
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 Env, LLC

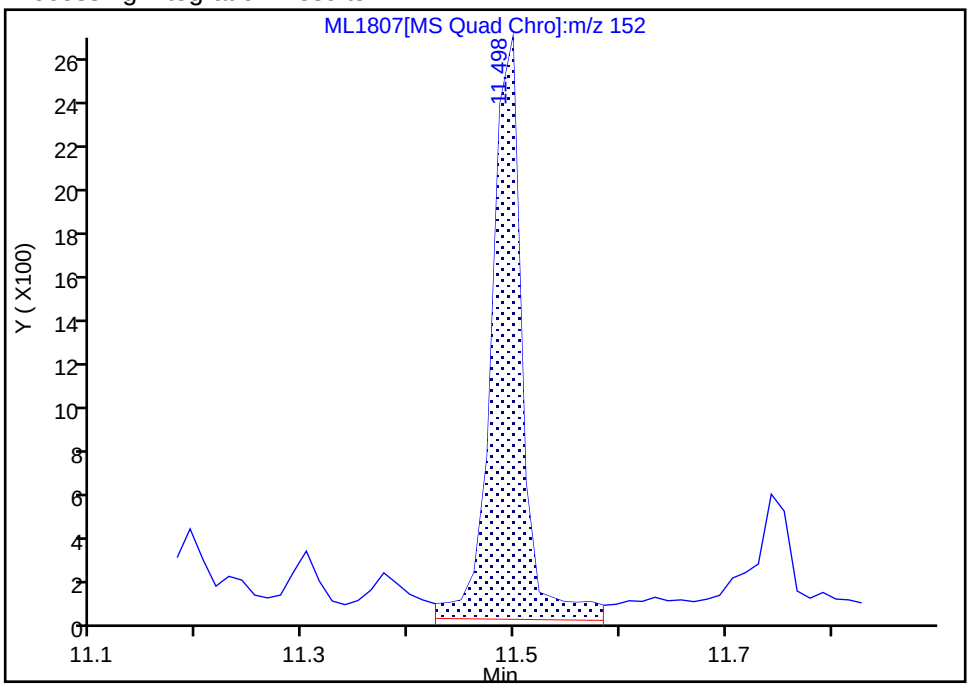
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Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

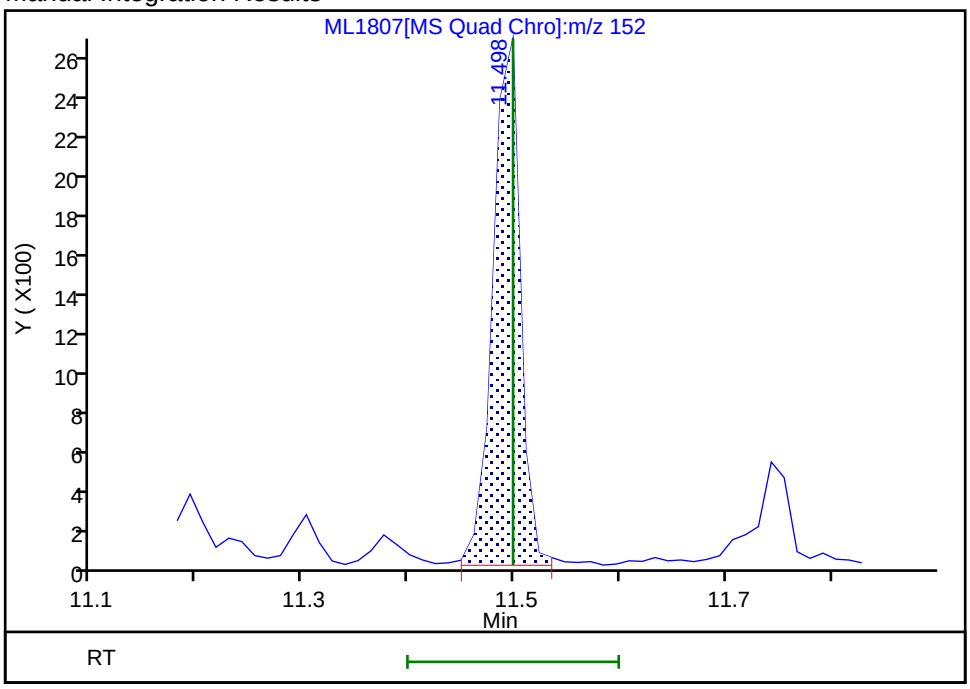
Processing Integration Results

RT: 11.50
Area: 5374
Amount: 0.008668
Amount Units: ug/ml



Manual Integration Results

RT: 11.50
Area: 4698
Amount: 0.007578
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:08:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

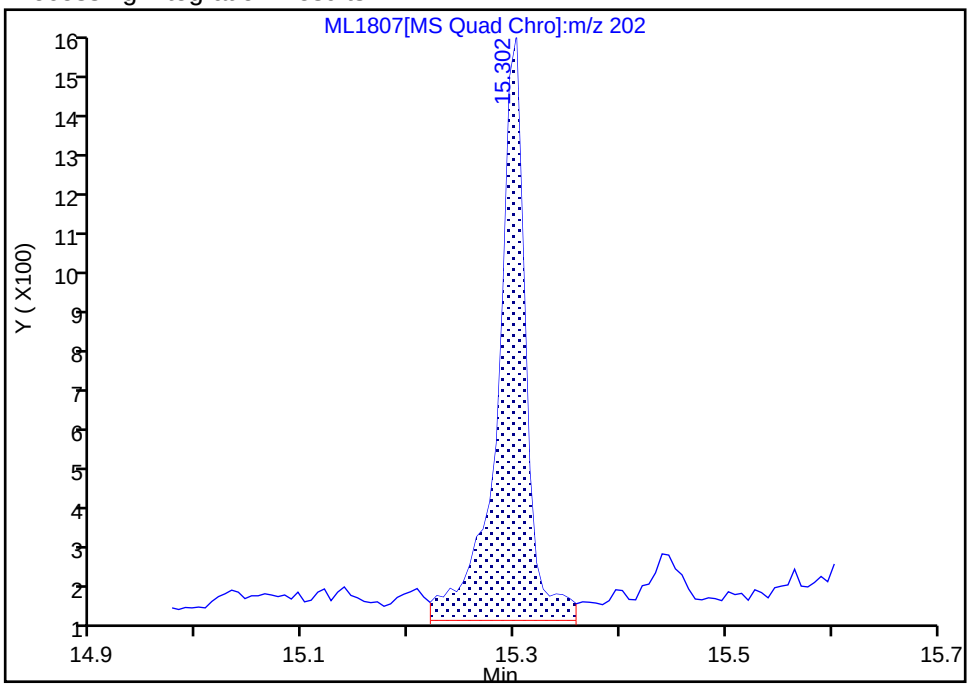
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Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

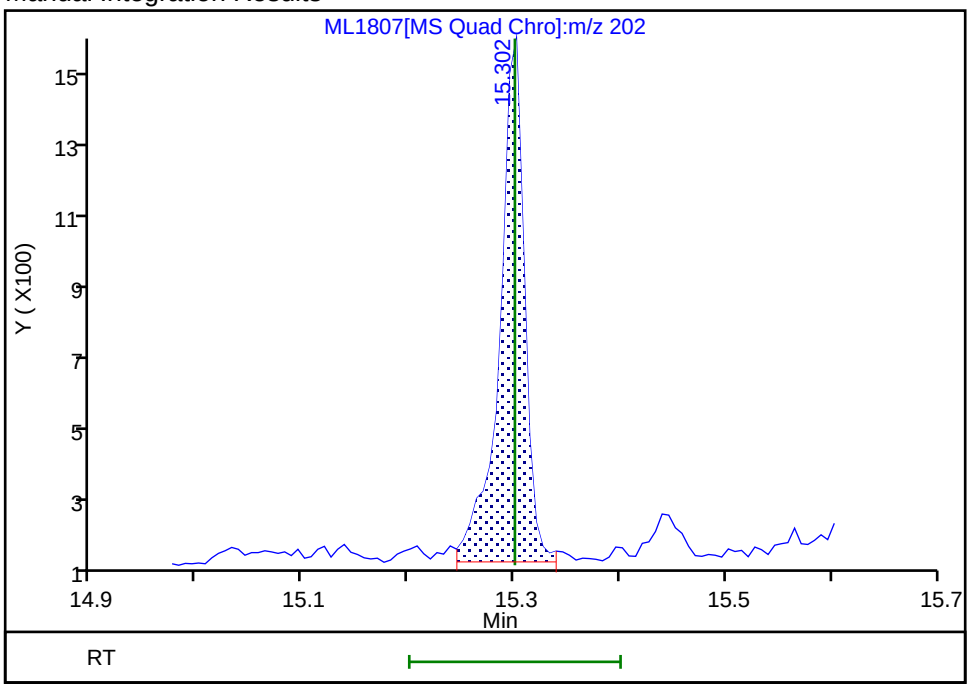
Processing Integration Results

RT: 15.30
Area: 2662
Amount: 0.002565
Amount Units: ug/ml



Manual Integration Results

RT: 15.30
Area: 2299
Amount: 0.002215
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:08:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

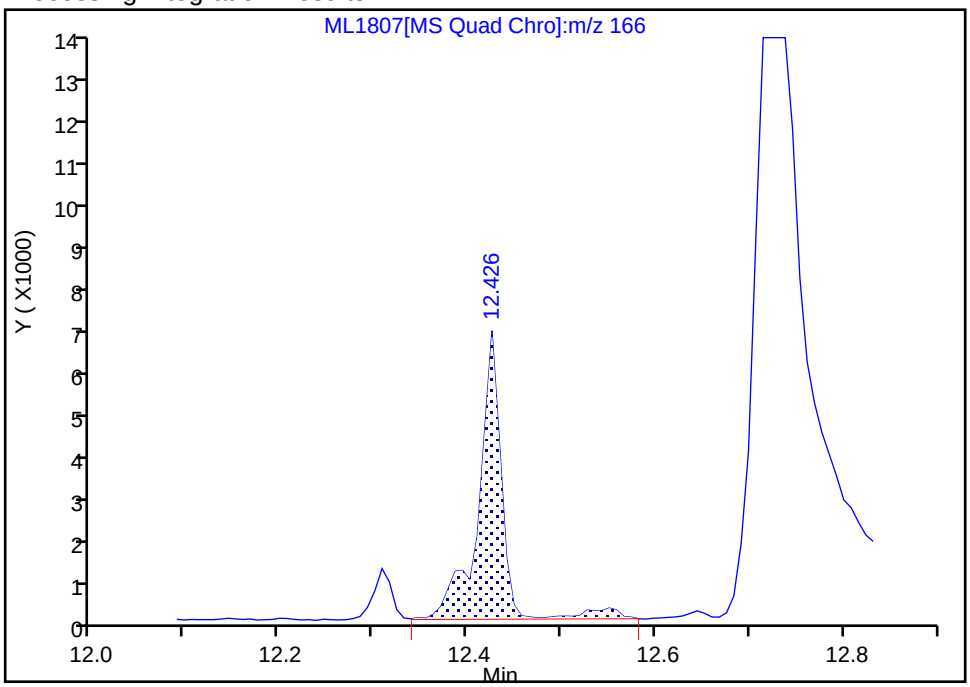
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D				
Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	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

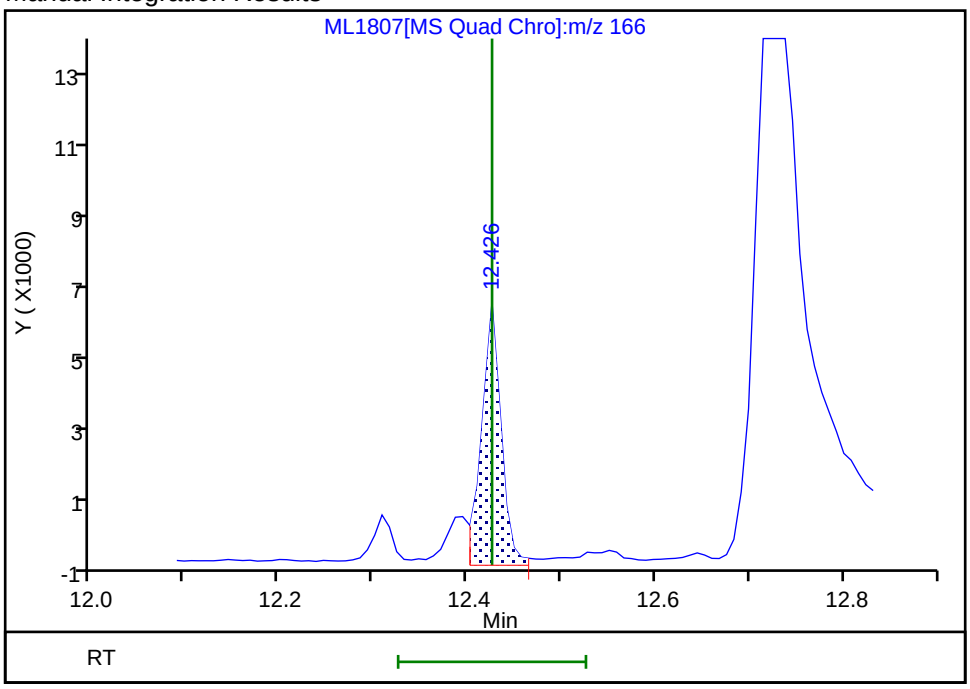
Processing Integration Results

RT: 12.43
Area: 11509
Amount: 0.023011
Amount Units: ug/ml



Manual Integration Results

RT: 12.43
Area: 9472
Amount: 0.018938
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:08:34
Audit Action: Manually Integrated Audit Reason: Baseline

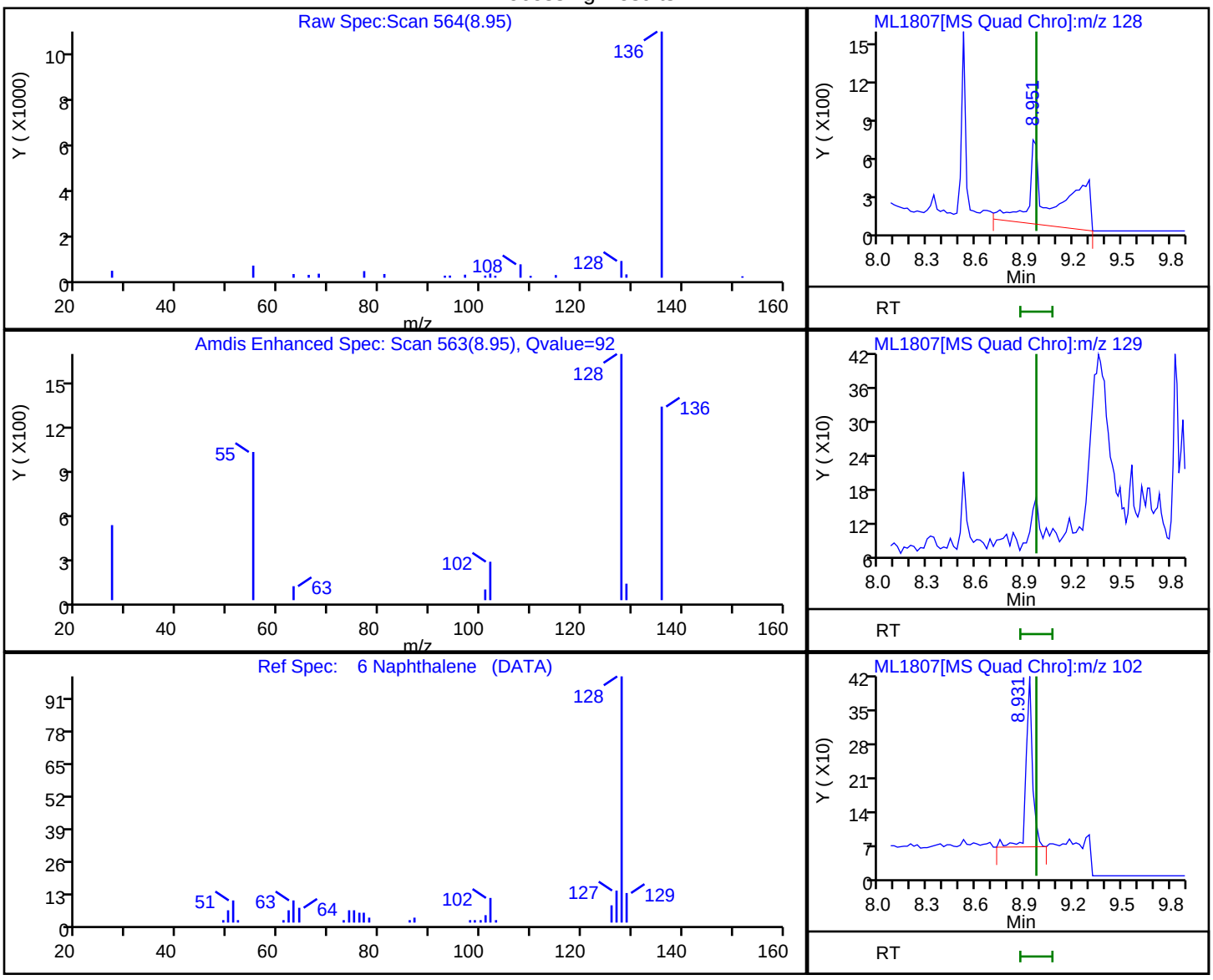
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D				
Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
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
8.95	128.00	7198	0.012878
8.97	129.00	0	
8.93	102.00	984	

Reviewer: transuea, 04-Jan-2022 13:08:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

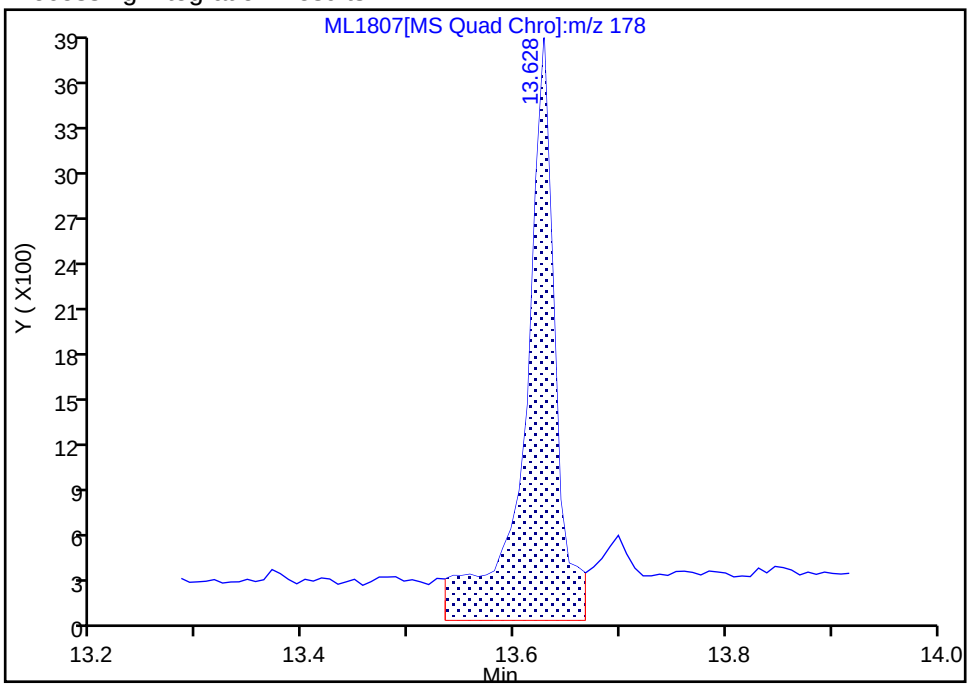
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D				
Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	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

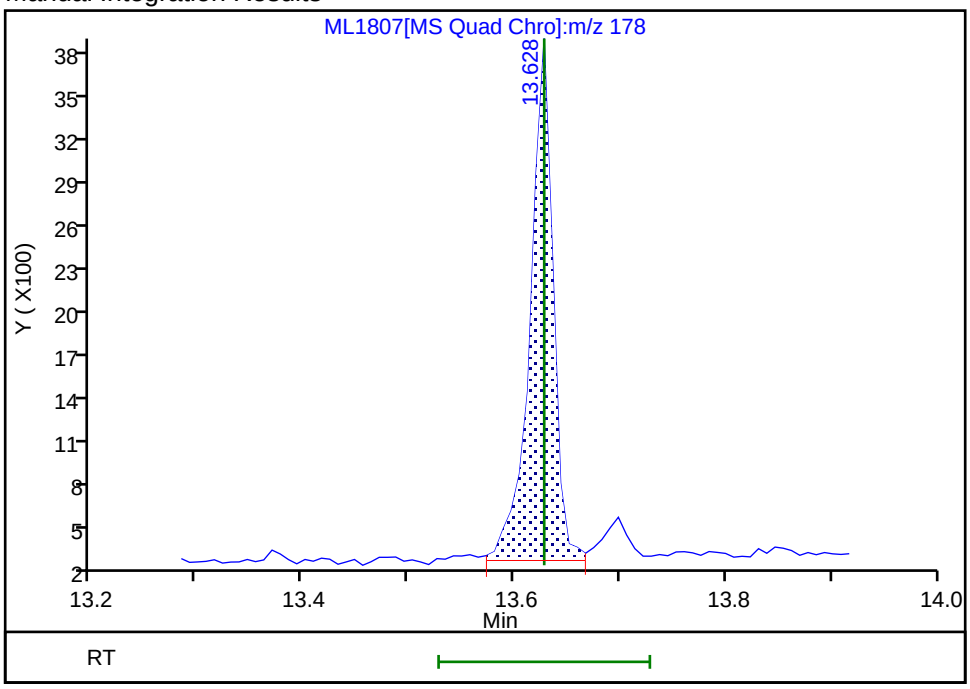
Processing Integration Results

RT: 13.63
Area: 7622
Amount: 0.008812
Amount Units: ug/ml



Manual Integration Results

RT: 13.63
Area: 5427
Amount: 0.006275
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:08:41

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

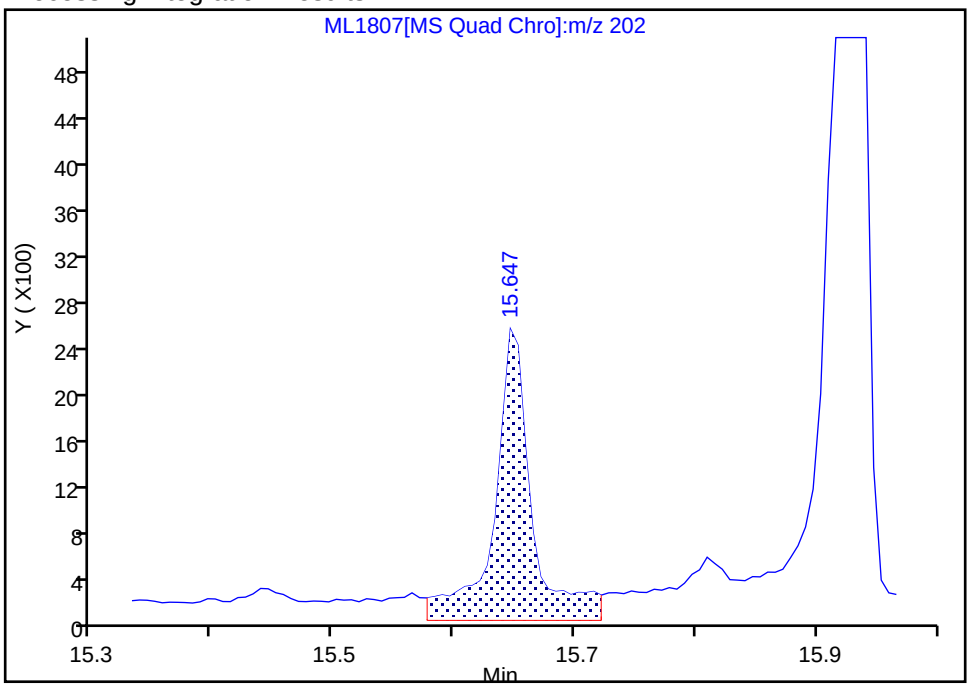
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1807.D				
Injection Date:	31-Dec-2021 17:13:13	Instrument ID:	HP21585		
Lims ID:	410-68043-B-9-A	Lab Sample ID:	410-68043-9		
Client ID:	MW-14D-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	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

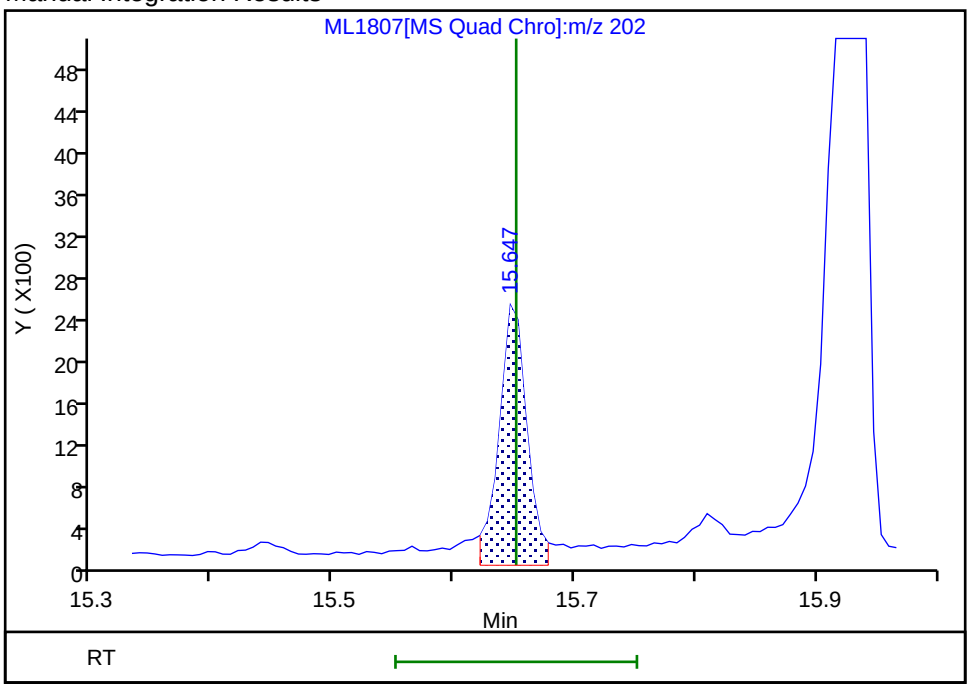
Processing Integration Results

RT: 15.65
Area: 5405
Amount: 0.004888
Amount Units: ug/ml



Manual Integration Results

RT: 15.65
Area: 3913
Amount: 0.003539
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:09:05

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: EB-20211221 Lab Sample ID: 410-68043-10

Matrix: Water Lab File ID: NL1219.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 13:40

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 245.2(mL) Date Analyzed: 12/27/2021 23:00

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 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		0.071	0.031
85-01-8	Phenanthrene	ND		0.071	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)	67		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	70		36-111
93951-69-0	Fluoranthene-d10 (Surr)	74		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1219.D
Lims ID: 410-68043-A-10-A
Client ID: EB-20211221
Sample Type: Client
Inject. Date: 27-Dec-2021 23:00:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-10-A
Misc. Info.: 410-0047167-020
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:30:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	96	86300	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	292477	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	51	4122	0.003371	7M
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	109149	0.1758	
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	160163	0.2500	
* 20 Phenanthrene-d10	188	12.846	12.831	0.015	100	272658	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.418	14.412	0.012	99	193249	0.1849	
* 29 Chrysene-d12	240	16.752	16.737	0.015	81	217279	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.060	19.053	0.015	98	84552	0.1666	
* 38 Perylene-d12	264	19.191	19.175	0.016	97	139559	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

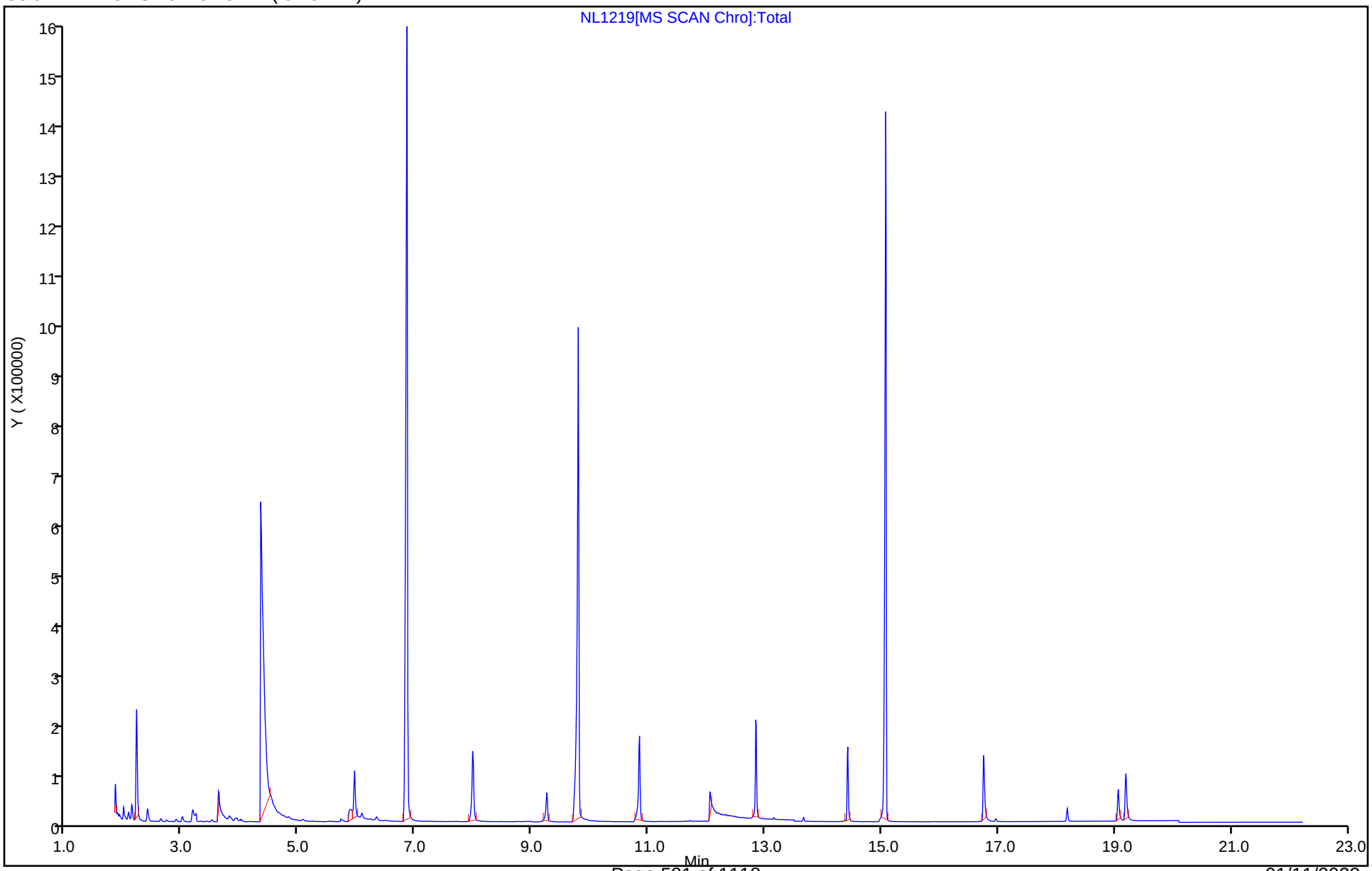
Report Date: 28-Dec-2021 06:59:16 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1219.D

Injection Date:	27-Dec-2021 23:00:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-10-A	Lab Sample ID:	410-68043-10	Worklist Smp#:	20
Client ID:	EB-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



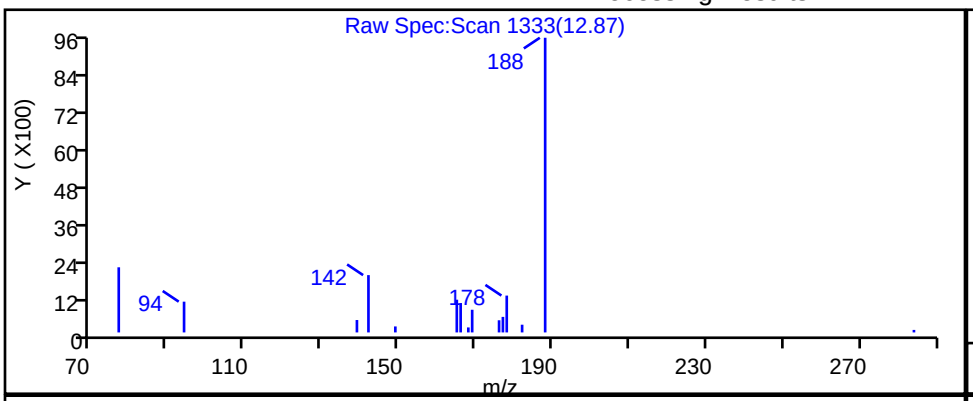
User Disabled Compound Report

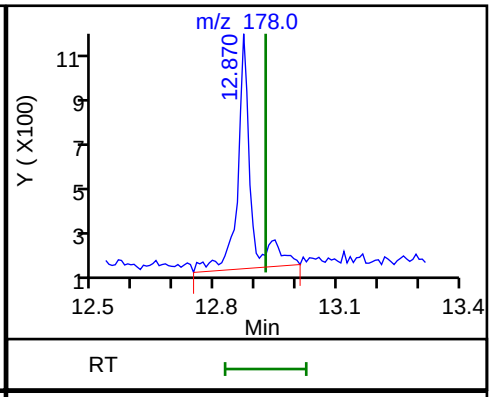
Eurofins Lancaster Laboratories Env, LLC

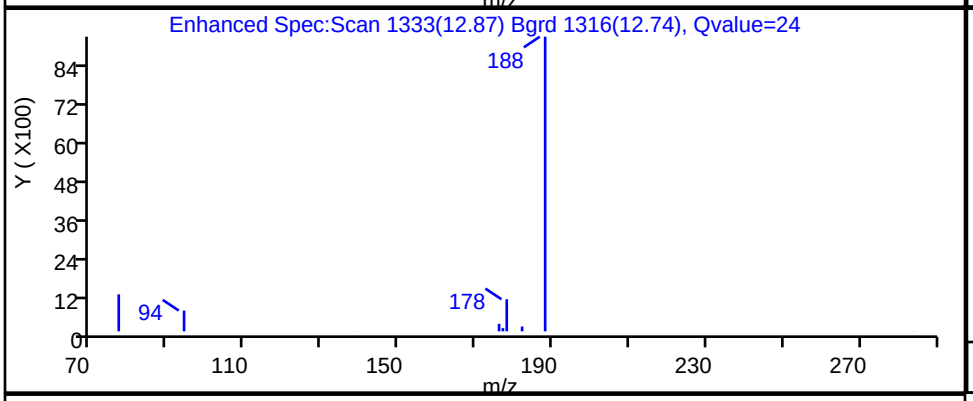
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1219.D				
Injection Date:	27-Dec-2021 23:00:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-10-A	Lab Sample ID:	410-68043-10		
Client ID:	EB-20211221				
Operator ID:	whs02991	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	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		

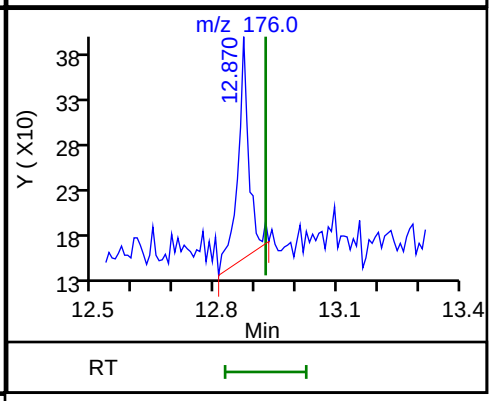
22 Anthracene, CAS: 120-12-7

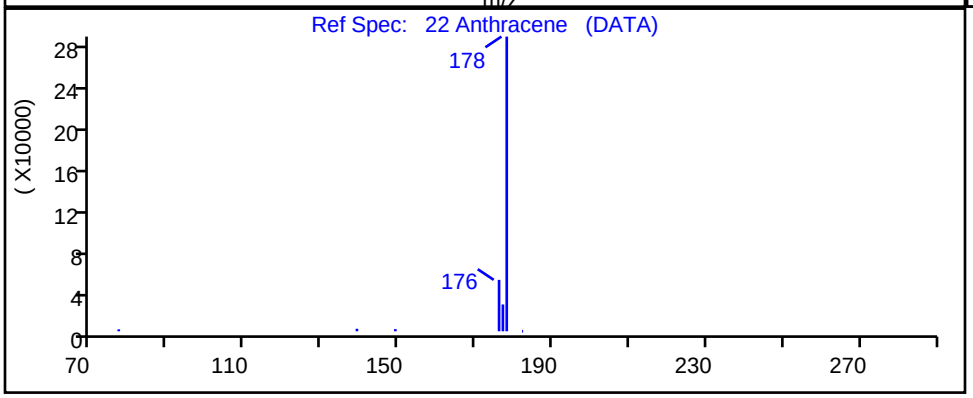
Processing Results











RT	Mass	Response	Amount
12.87	178.00	2339	0.002091
12.87	176.00	452	

Reviewer: gamblerj, 28-Dec-2021 06:29:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

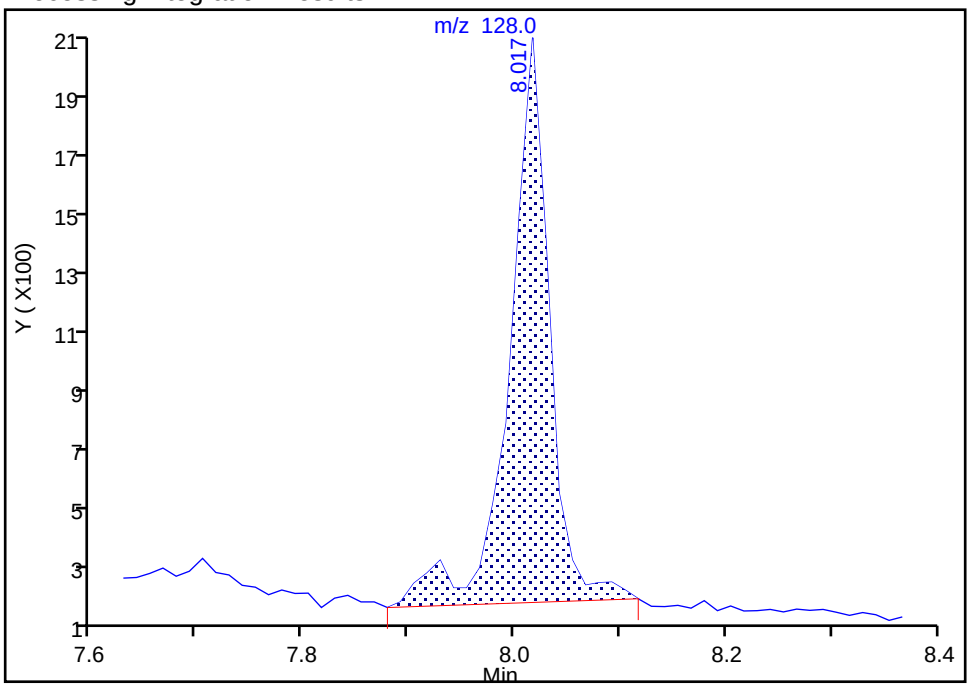
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1219.D		
Injection Date:	27-Dec-2021 23:00:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-10-A	Lab Sample ID:	410-68043-10
Client ID:	EB-20211221		
Operator ID:	whs02991	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	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

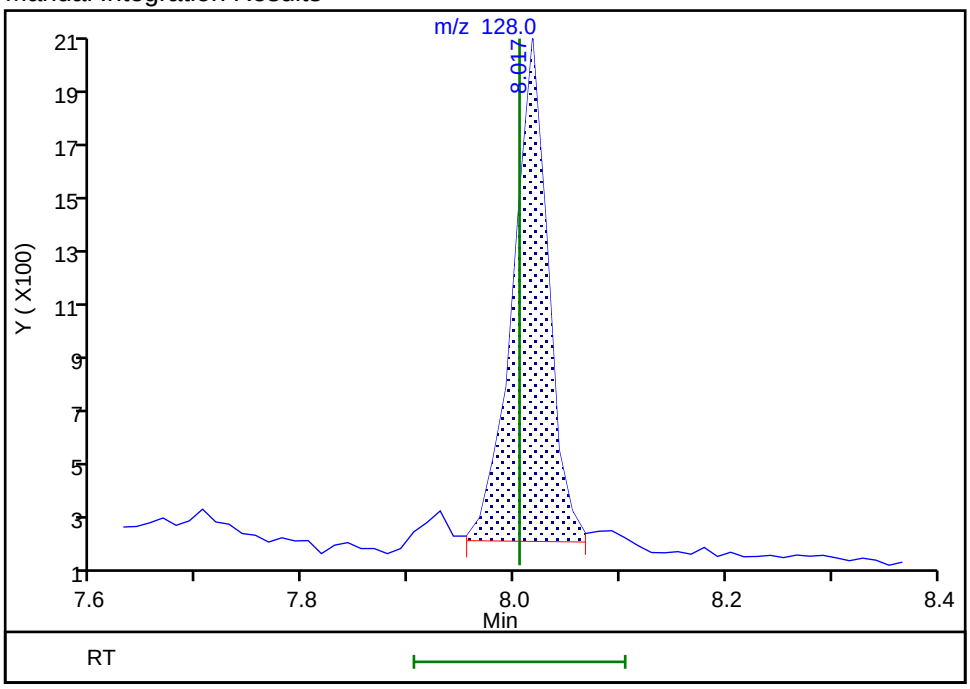
Processing Integration Results

RT: 8.02
Area: 4752
Amount: 0.003886
Amount Units: ug/ml



Manual Integration Results

RT: 8.02
Area: 4122
Amount: 0.003371
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:29:48

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-12S-20211221 Lab Sample ID: 410-68043-11

Matrix: Ground Water Lab File ID: NL1220.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 14:27

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 242.8(mL) Date Analyzed: 12/27/2021 23:28

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND	cn	0.051	0.010
208-96-8	Acenaphthylene	ND	cn	0.051	0.010
120-12-7	Anthracene	ND	cn	0.051	0.010
56-55-3	Benzo[a]anthracene	ND	cn	0.051	0.010
50-32-8	Benzo[a]pyrene	ND	*3 cn	0.051	0.010
205-99-2	Benzo[b]fluoranthene	ND	*3 *+ cn	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	ND	*3 *+ cn	0.051	0.010
207-08-9	Benzo[k]fluoranthene	ND	*3 *+ cn	0.051	0.010
218-01-9	Chrysene	ND	cn	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	ND	*3 *+ cn	0.051	0.021
206-44-0	Fluoranthene	ND	cn	0.051	0.010
86-73-7	Fluorene	ND	cn	0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*3 *+ cn	0.051	0.021
91-20-3	Naphthalene	ND	cn	0.072	0.031
85-01-8	Phenanthrene	ND	cn	0.072	0.031
129-00-0	Pyrene	0.010	J cn	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	61	*3 cn	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	96	cn	36-111
93951-69-0	Fluoranthene-d10 (Surr)	92	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1220.D
Lims ID: 410-68043-A-11-A
Client ID: MW-12S-20211221
Sample Type: Client
Inject. Date: 27-Dec-2021 23:28:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-11-A
Misc. Info.: 410-0047167-021
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:32:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	96	84781	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	283614	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	38	4978	0.004198	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	143937	0.2391	
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	157105	0.2500	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	99	274894	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.418	14.412	0.012	98	243330	0.2310	
26 Pyrene	202	14.775	14.775	0.018	98	3446	0.002525	M
* 29 Chrysene-d12	240	16.752	16.737	0.015	82	218100	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.068	19.053	0.023	98	33271	0.1524	
* 38 Perylene-d12	264	19.199	19.175	0.024	96	59815	0.2500	s

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

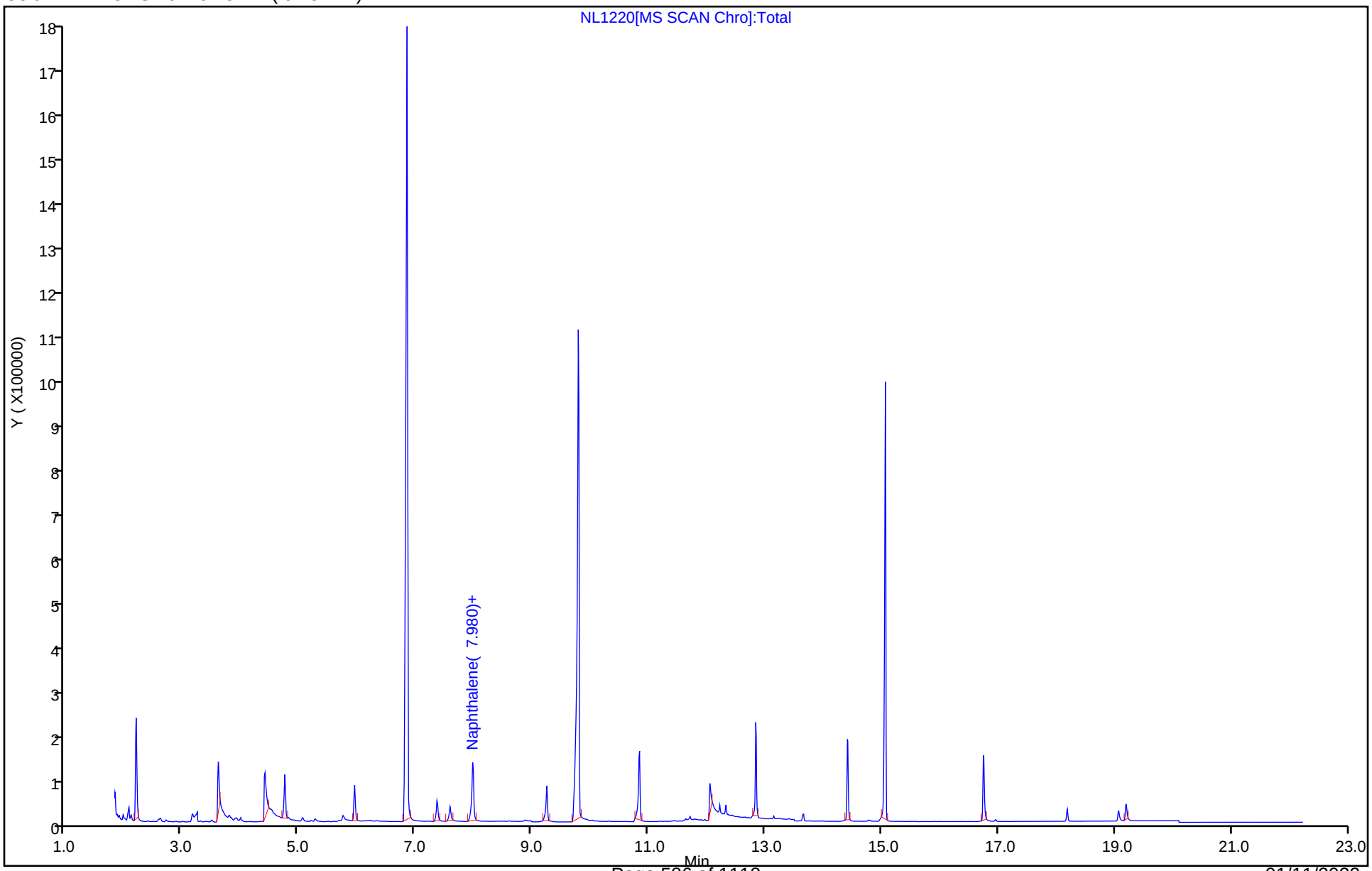
Report Date: 28-Dec-2021 06:59:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1220.D

Injection Date:	27-Dec-2021 23:28:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-11-A	Lab Sample ID:	410-68043-11	Worklist Smp#:	21
Client ID:	MW-12S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



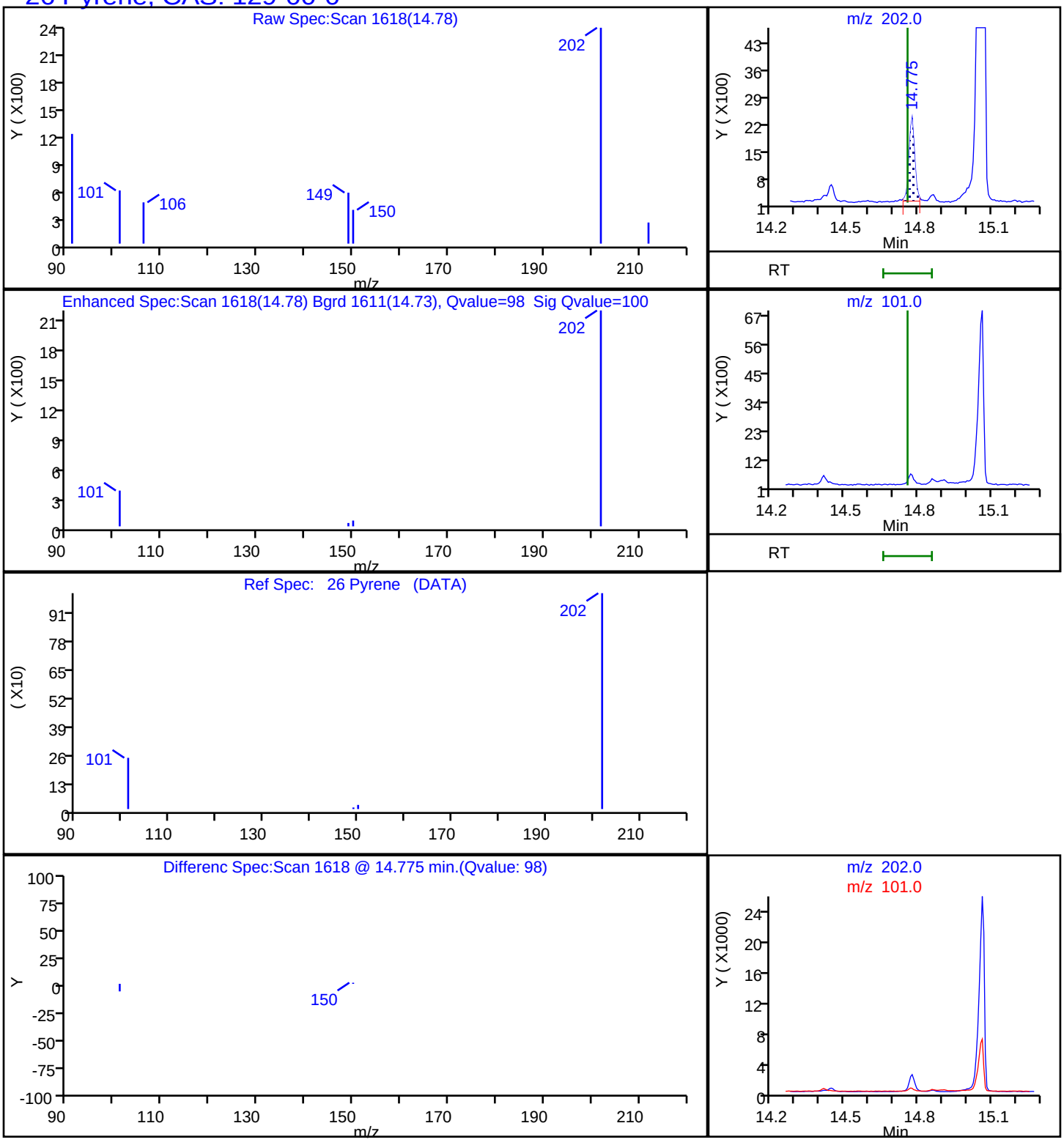
Report Date: 28-Dec-2021 06:59:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1220.D

Injection Date:	27-Dec-2021 23:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	whs02991	ALS Bottle#:	21	Worklist Smp#:	21
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		

26 Pyrene, CAS: 129-00-0



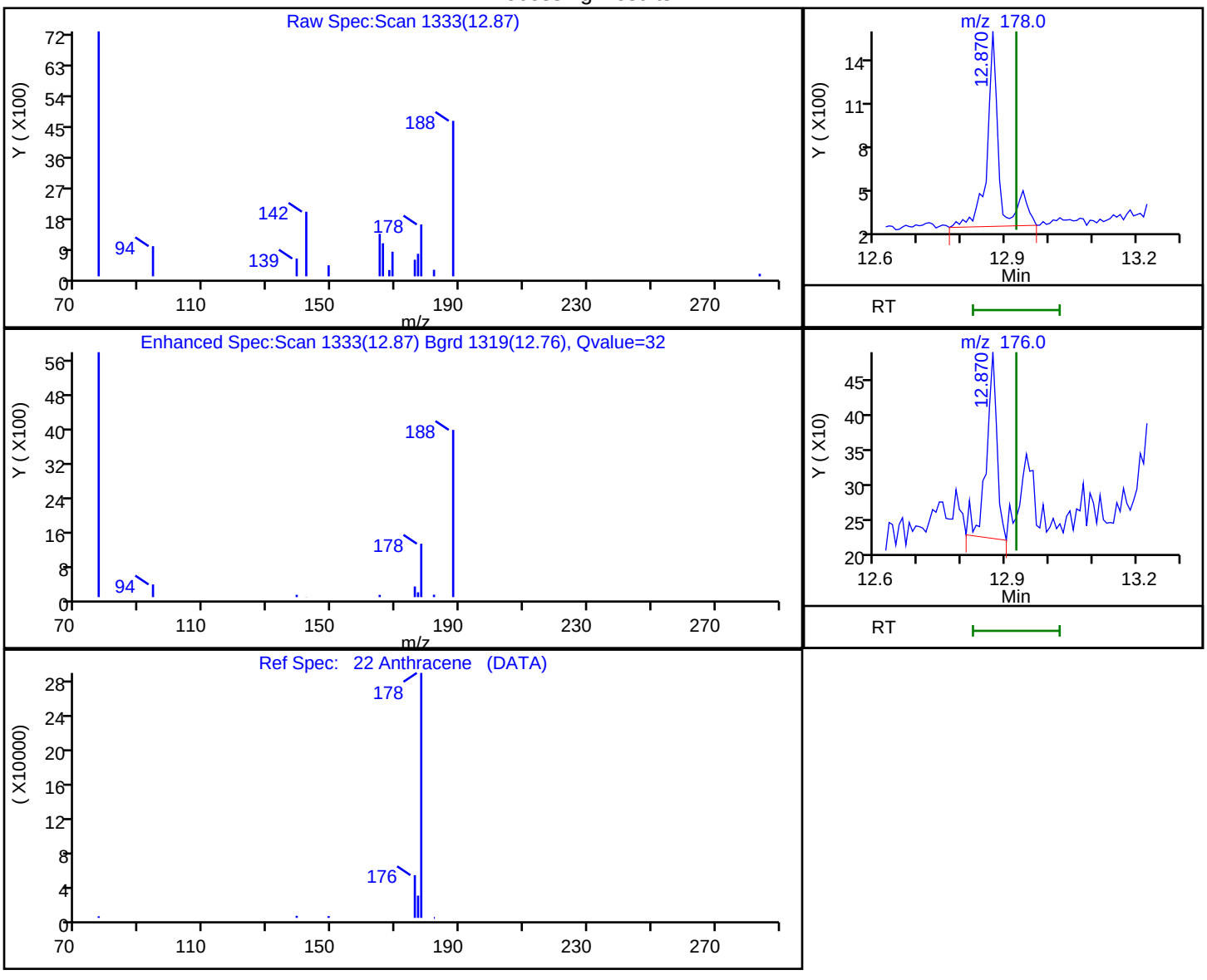
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1220.D				
Injection Date:	27-Dec-2021 23:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	whs02991	ALS Bottle#:	21	Worklist Smp#:	21
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		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
12.87	178.00	2446	0.002169
12.87	176.00	451	

Reviewer: gamblerj, 28-Dec-2021 06:31:49

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

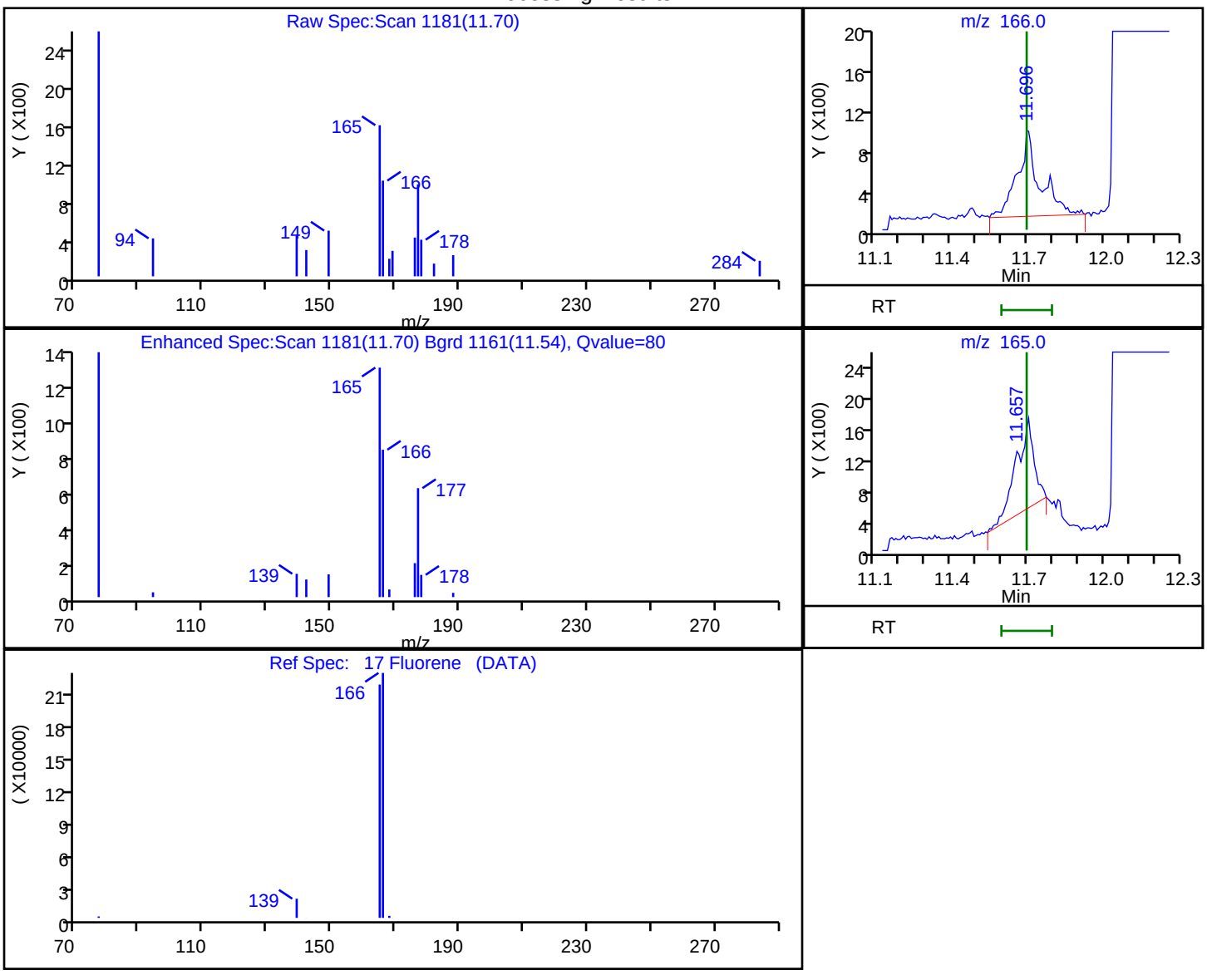
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1220.D				
Injection Date:	27-Dec-2021 23:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	whs02991	ALS Bottle#:	21	Worklist Smp#:	21
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		

17 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
11.70	166.00	5227	0.006374
11.66	165.00	5638	

Reviewer: gamblerj, 28-Dec-2021 06:31:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

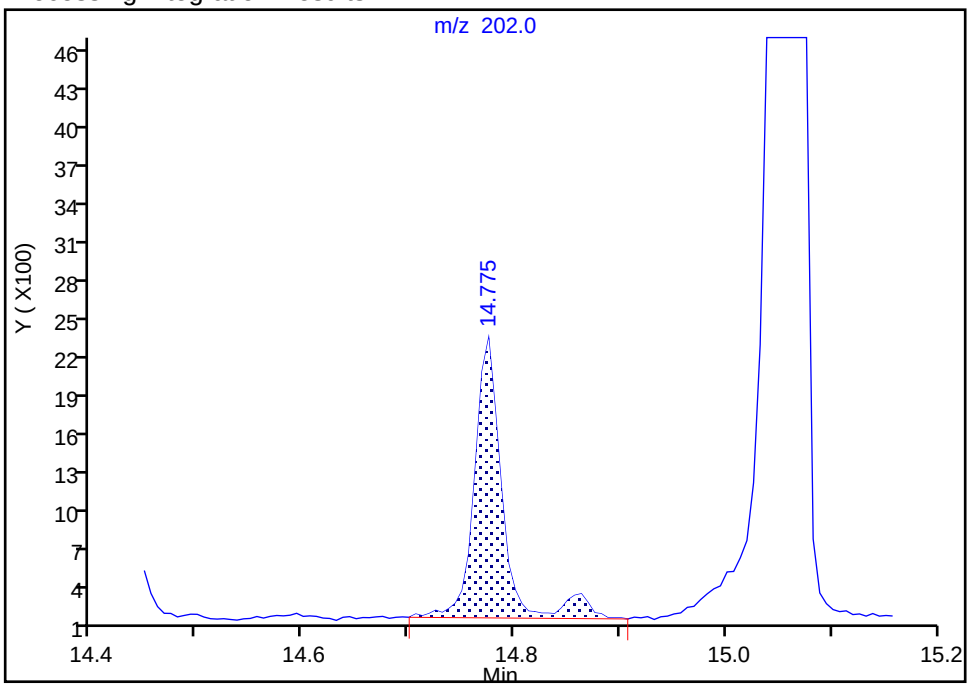
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Injection Date:	27-Dec-2021 23:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	whs02991	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0

Signal: 1

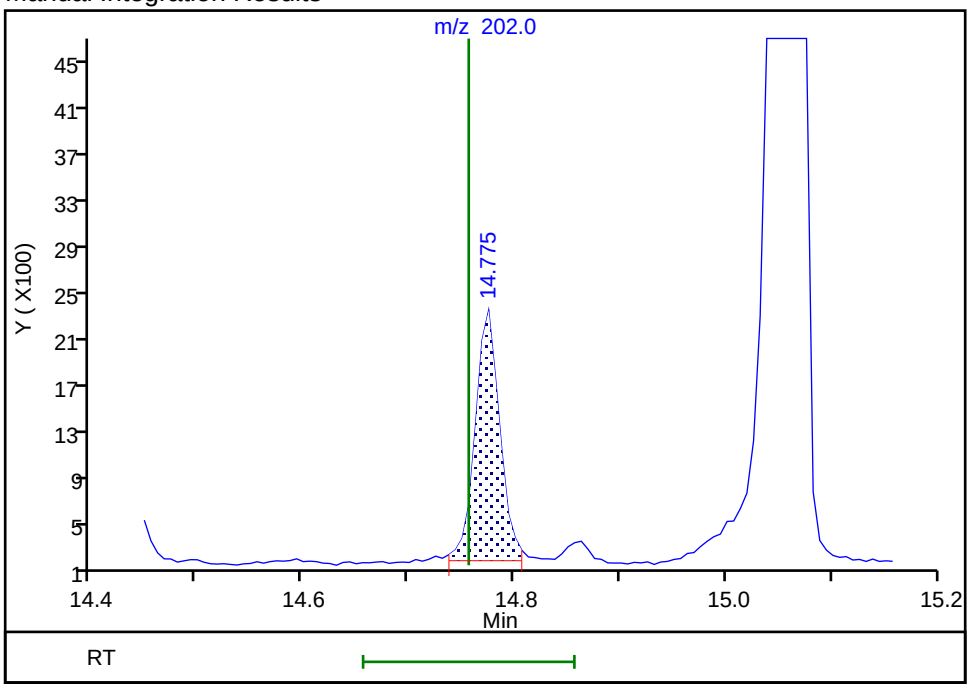
Processing Integration Results

RT: 14.78
Area: 4014
Amount: 0.002942
Amount Units: ug/ml



Manual Integration Results

RT: 14.78
Area: 3446
Amount: 0.002525
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:31:58

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-12S-20211221 RA Lab Sample ID: 410-68043-11 RA

Matrix: Ground Water Lab File ID: NL1260.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 14:27

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 242.8(mL) Date Analyzed: 12/28/2021 12:34

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209501 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*ND*	*cn*	*0.051*	*0.010*
208-96-8	*Acenaphthylene*	*ND*	*cn*	*0.051*	*0.010*
120-12-7	*Anthracene*	*ND*	*cn*	*0.051*	*0.010*
56-55-3	*Benzo[a]anthracene*	*ND*	*cn*	*0.051*	*0.010*
50-32-8	*Benzo[a]pyrene*	*ND*	**3 cn*	*0.051*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*ND*	**3 *+ cn*	*0.051*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.099*	**3 *+ cn*	*0.051*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*ND*	**3 *+ cn*	*0.051*	*0.010*
218-01-9	*Chrysene*	*ND*	*cn*	*0.051*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*0.050*	*J *3 *+ cn*	*0.051*	*0.021*
206-44-0	*Fluoranthene*	*ND*	*cn*	*0.051*	*0.010*
86-73-7	*Fluorene*	*ND*	*cn*	*0.051*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.086*	**3 *+ cn*	*0.051*	*0.021*
91-20-3	*Naphthalene*	*ND*	*cn*	*0.072*	*0.031*
85-01-8	*Phenanthrene*	*ND*	*cn*	*0.072*	*0.031*
129-00-0	*Pyrene*	*0.011*	*J cn*	*0.051*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	73	**3 cn*	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	98	*cn*	36-111
93951-69-0	Fluoranthene-d10 (Surr)	95	*cn*	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D
Lims ID: 410-68043-A-11-A RA
Client ID: MW-12S-20211221
Sample Type: Client
Inject. Date: 28-Dec-2021 12:34:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-11-A
Misc. Info.: 410-0047246-011
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 19:02:47 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 28-Dec-2021 18:59:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.968	5.968	0.000	96	91351	0.2500	
* 5 Naphthalene-d8	136	8.005	8.005	0.000	100	301159	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.283	9.282	0.000	100	157225	0.2460	
* 13 Acenaphthene-d10	164	10.865	10.865	0.000	94	168500	0.2500	
* 20 Phenanthrene-d10	188	12.870	12.870	0.000	100	308041	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.437	14.438	-0.001	99	279920	0.2371	
26 Pyrene	202	14.794	14.787	0.011	97	4268	0.002622	
* 29 Chrysene-d12	240	16.767	16.762	0.005	81	260172	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.084	19.068	0.021	99	14571	0.1828	
* 38 Perylene-d12	264	19.214	19.194	0.020	97	21992	0.2500	s
40 Indeno[1,2,3-cd]pyrene	276	20.838	20.804	0.040	98	1997	0.0210	
41 Dibenz(a,h)anthracene	278	20.881	20.846	0.040	98	1339	0.0123	
42 Benzo[g,h,i]perylene	276	21.198	21.164	0.039	95	2885	0.0239	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

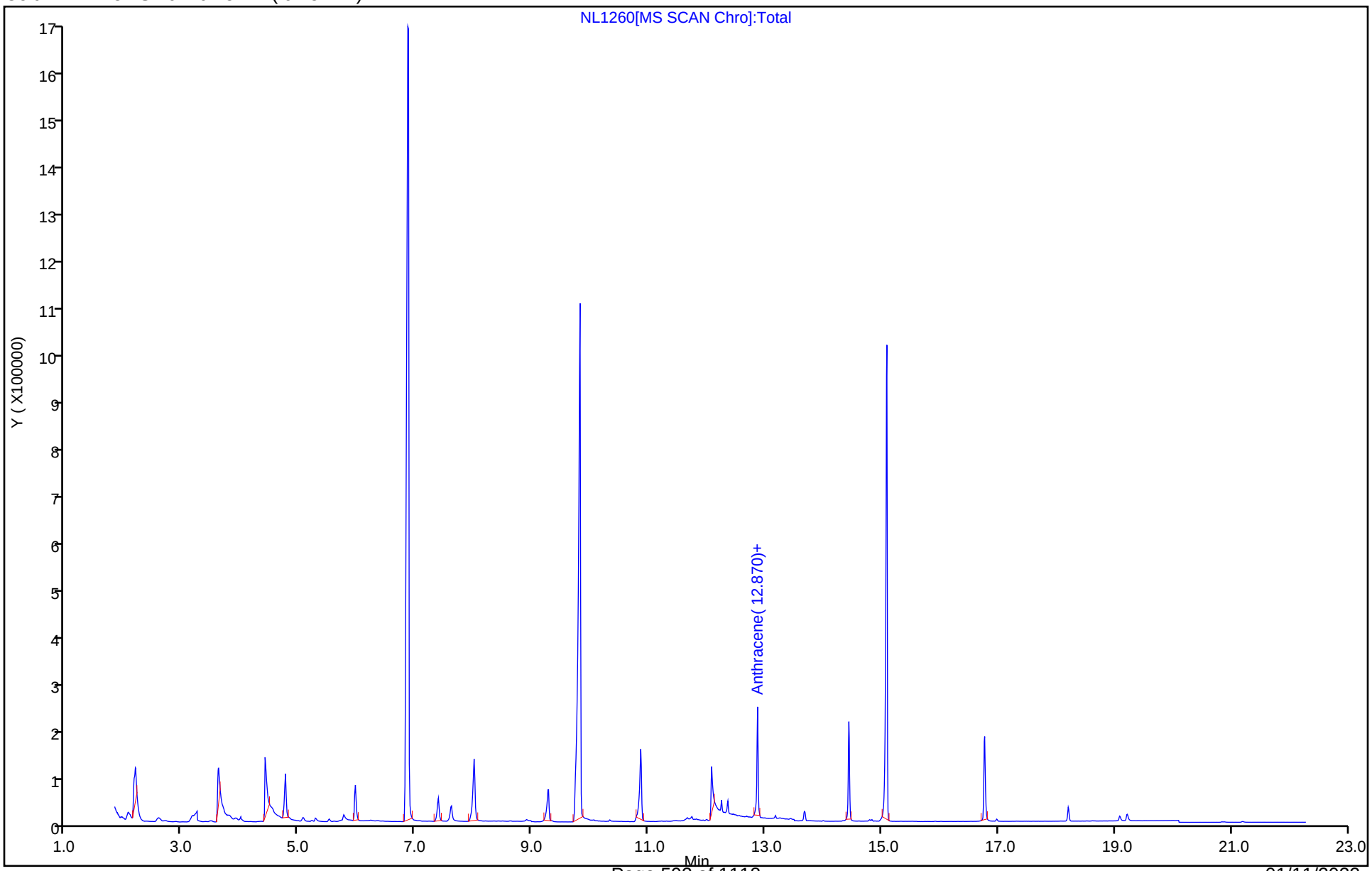
Report Date: 28-Dec-2021 19:03:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D

Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11	Worklist Smp#:	11
Client ID:	MW-12S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

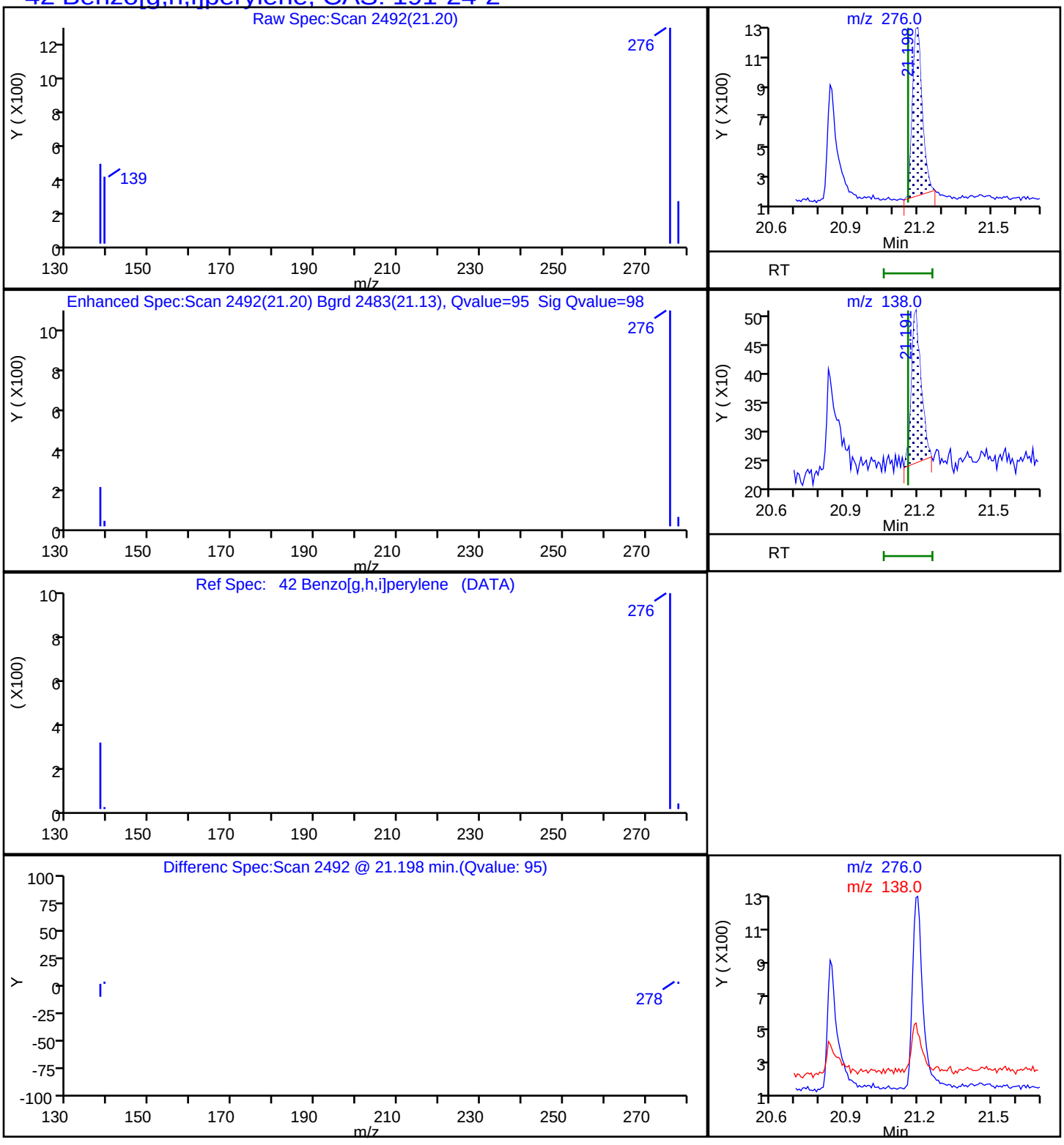
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D				
Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
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		

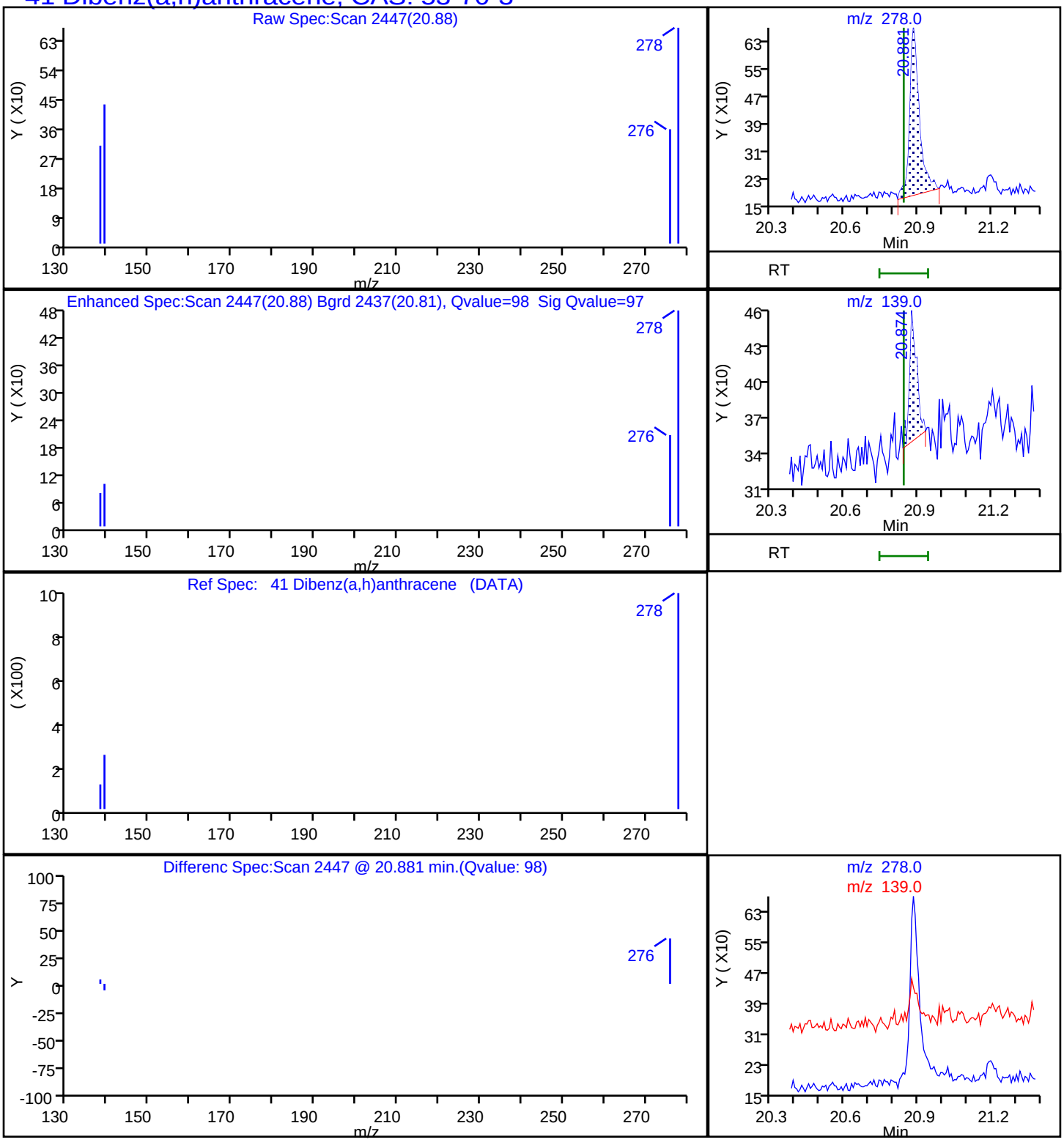
42 Benzo[g,h,i]perylene, CAS: 191-24-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D				
Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
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



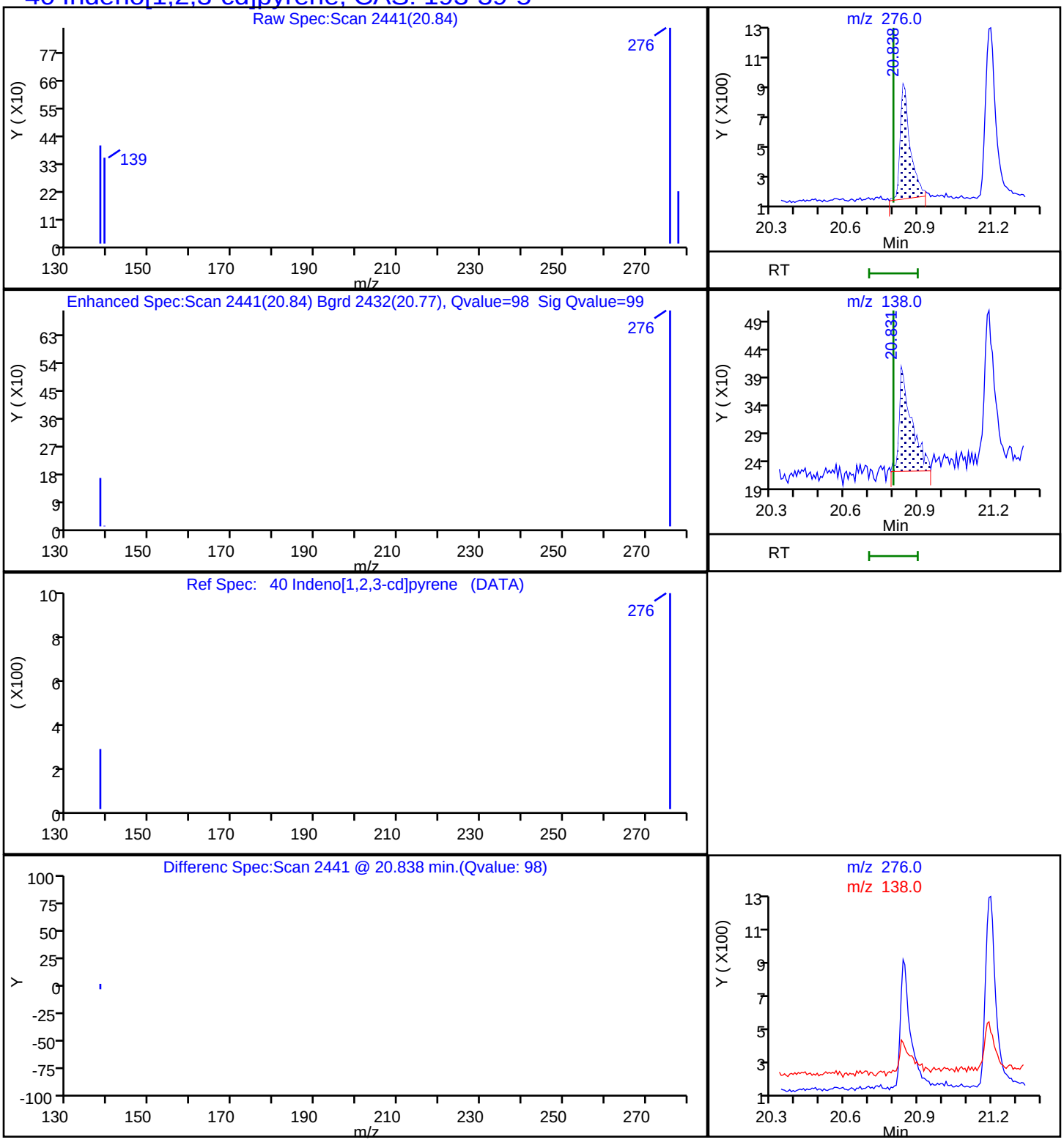
Report Date: 28-Dec-2021 19:03:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D

Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
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



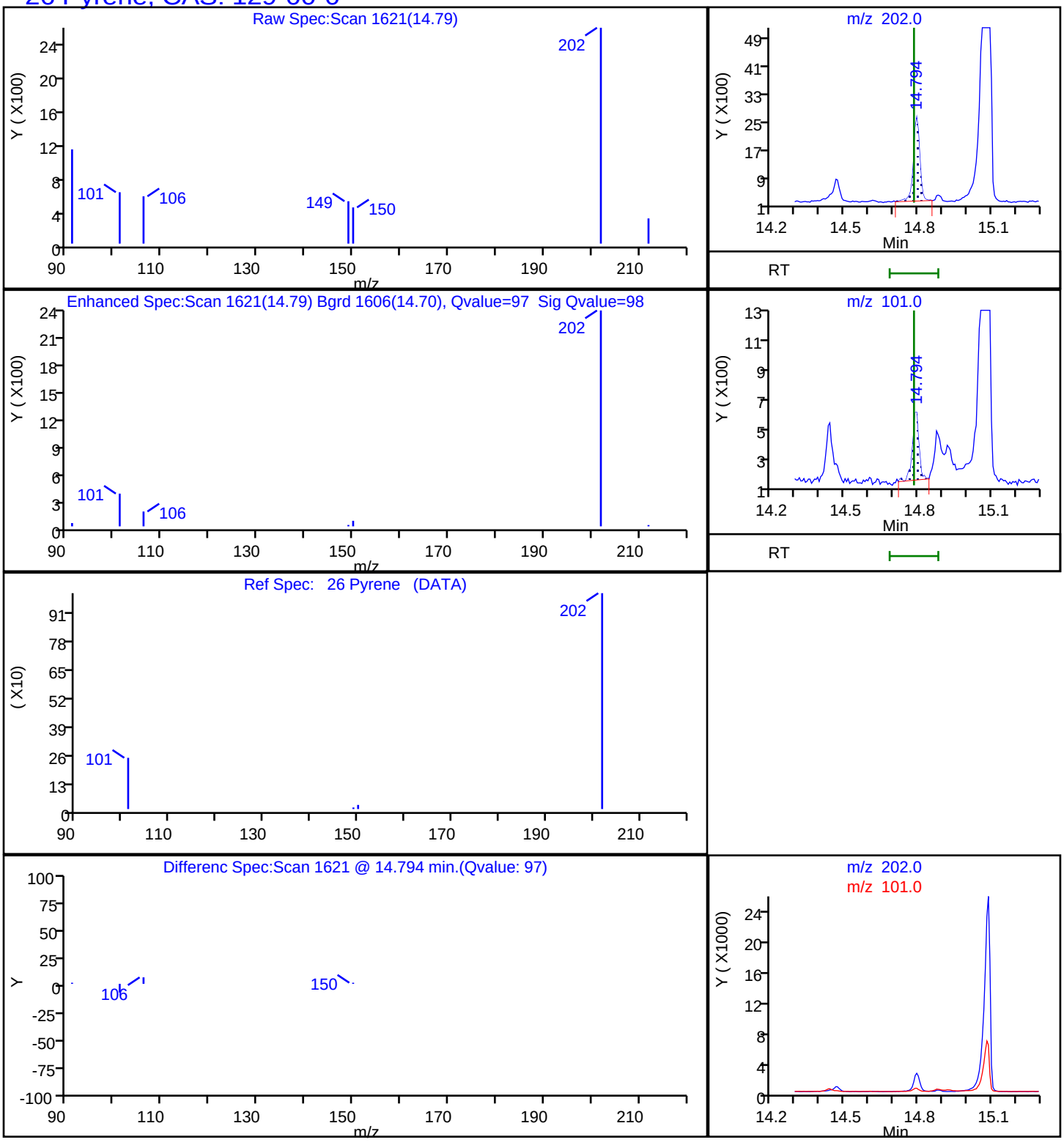
Report Date: 28-Dec-2021 19:03:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D

Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
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		

26 Pyrene, CAS: 129-00-0



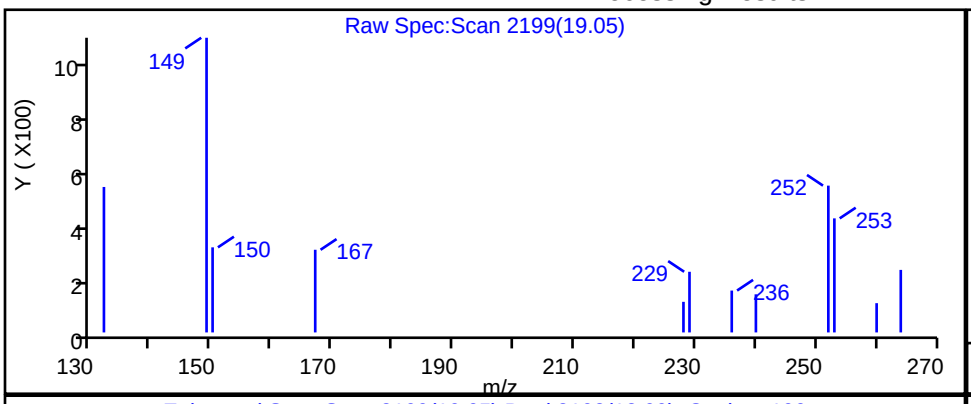
User Disabled Compound Report

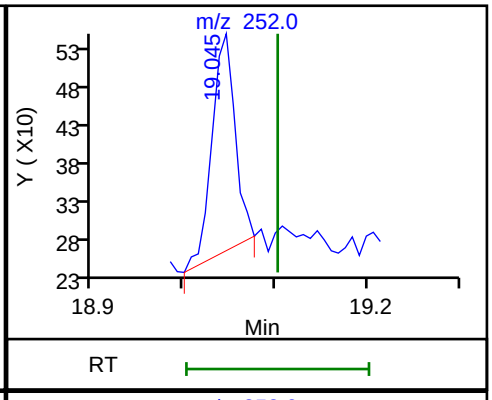
Eurofins Lancaster Laboratories Env, LLC

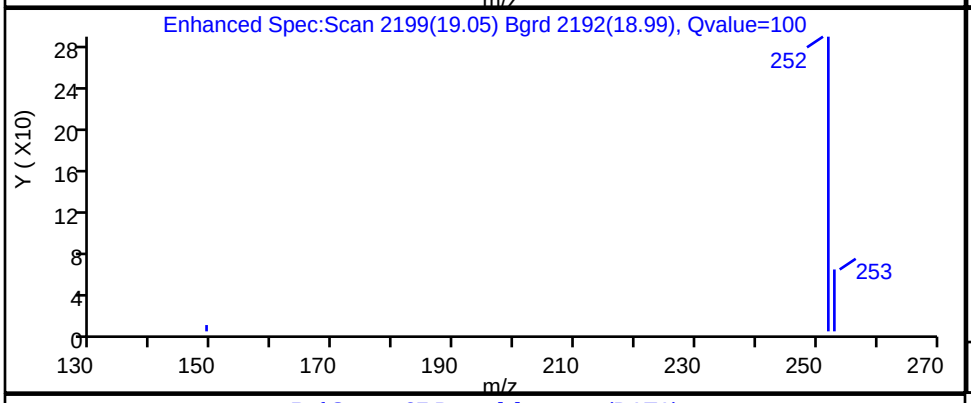
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D				
Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	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		

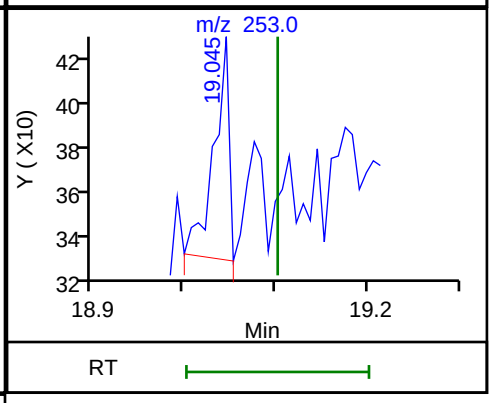
37 Benzo[a]pyrene, CAS: 50-32-8

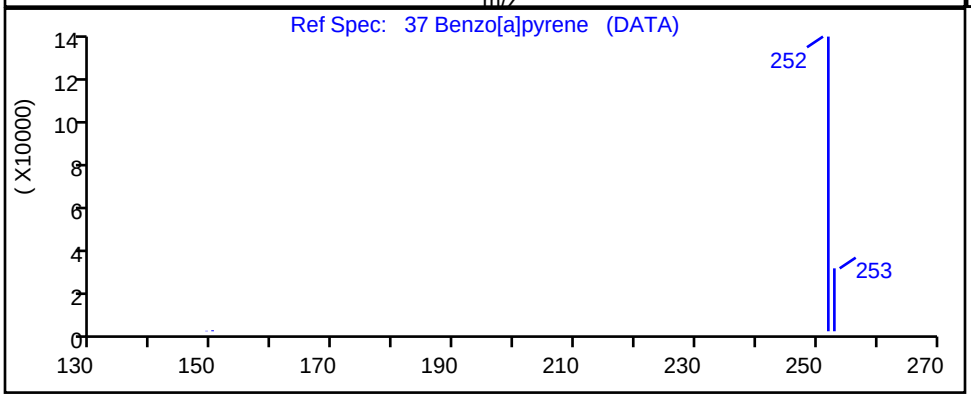
Processing Results











RT	Mass	Response	Amount
19.05	252.00	494	0.004724
19.05	253.00	105	

Reviewer: transuea, 28-Dec-2021 18:58:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

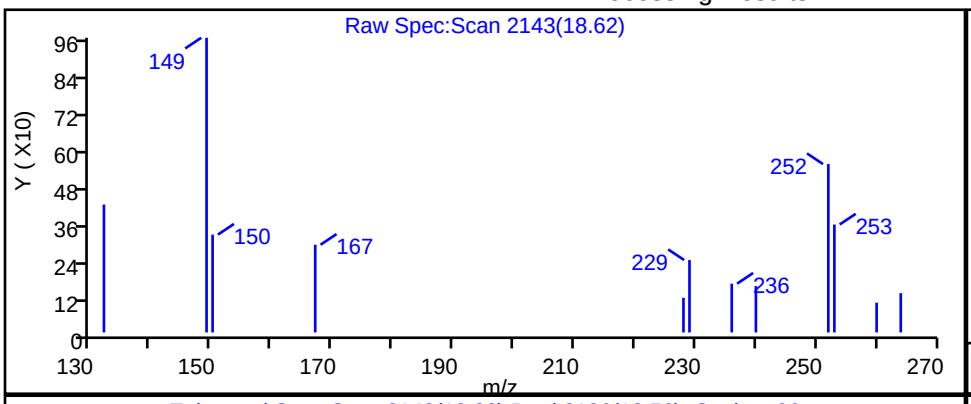
User Disabled Compound Report

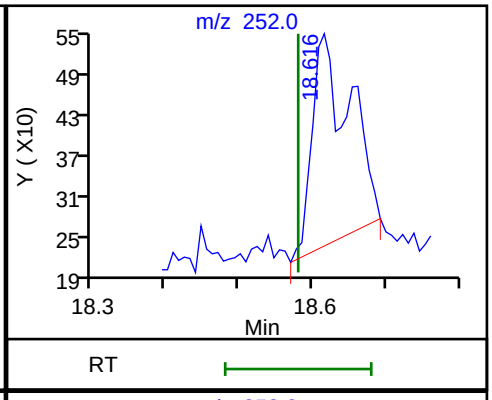
Eurofins Lancaster Laboratories Env, LLC

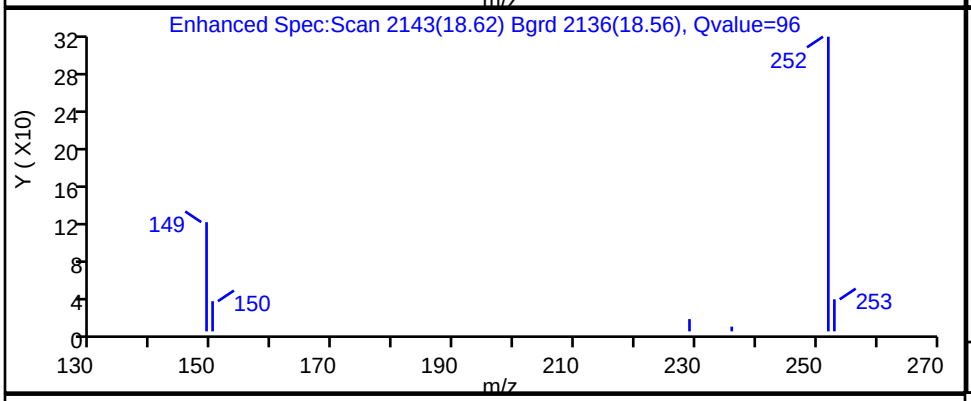
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D				
Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	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		

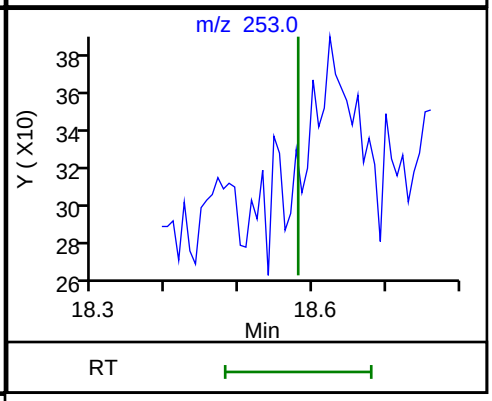
33 Benzo[b]fluoranthene, CAS: 205-99-2

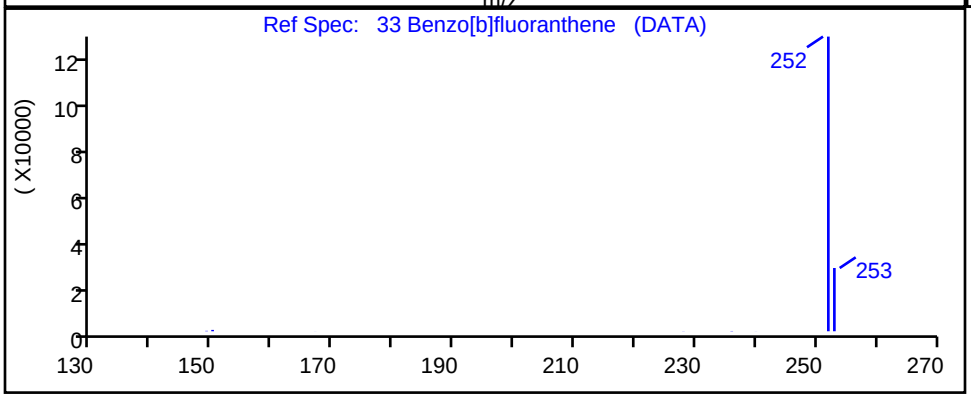
Processing Results











RT	Mass	Response	Amount
18.62	252.00	1127	0.010412
18.58	253.00	0	

Reviewer: transuea, 28-Dec-2021 18:58:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

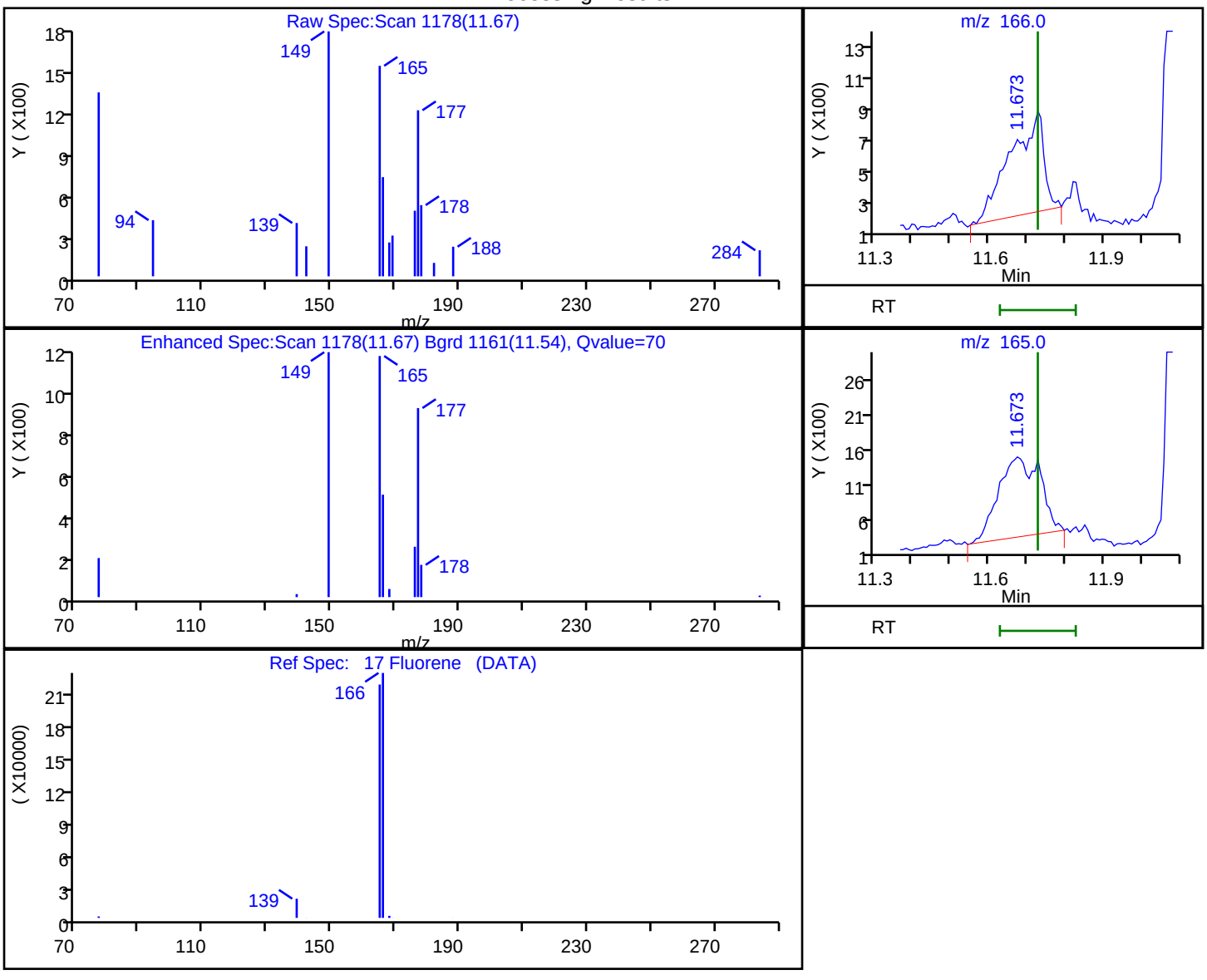
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D				
Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
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		

17 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
11.67	166.00	3969	0.004513
11.67	165.00	8546	

Reviewer: transuea, 28-Dec-2021 18:58:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

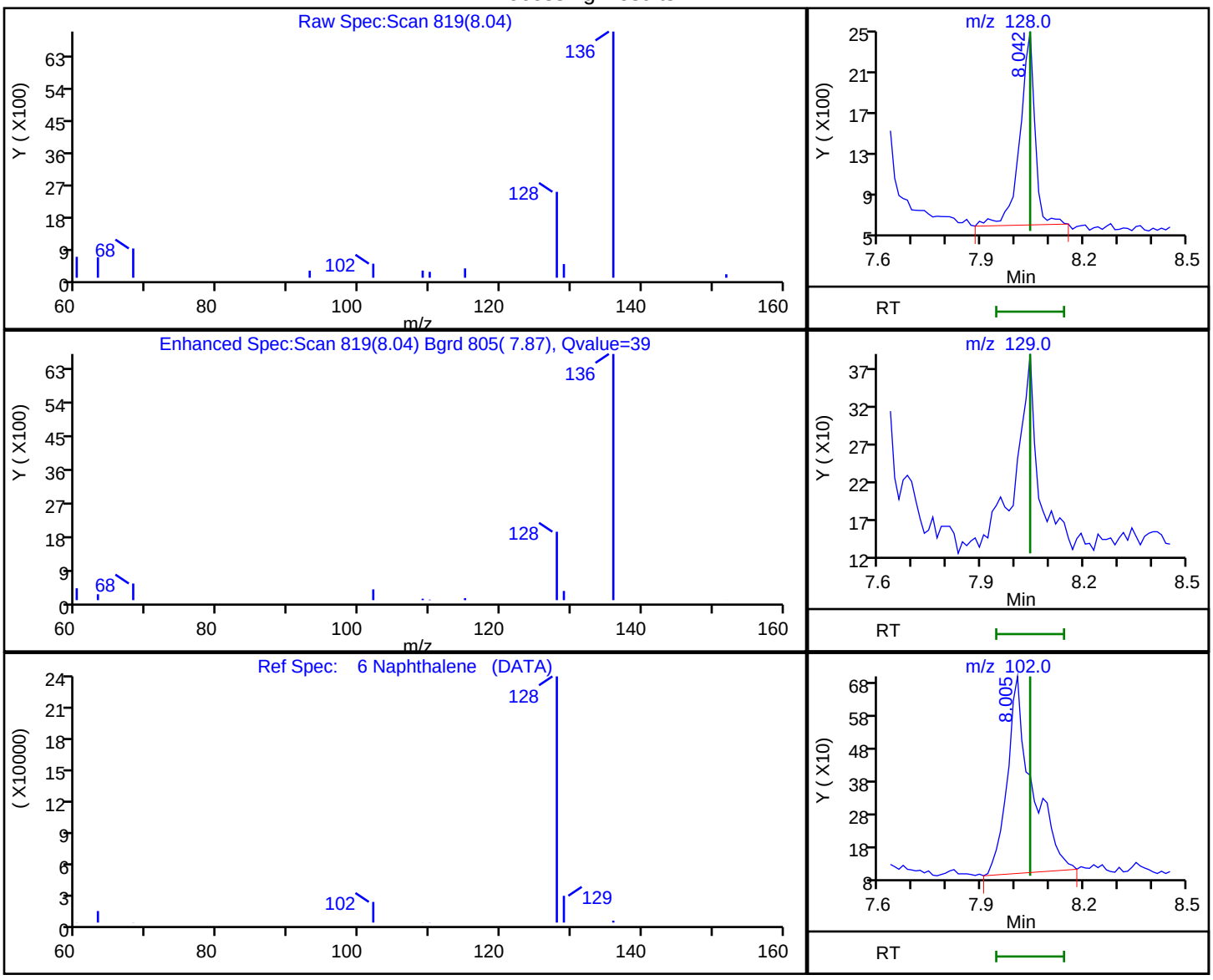
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1260.D				
Injection Date:	28-Dec-2021 12:34:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-11-A RA	Lab Sample ID:	410-68043-11		
Client ID:	MW-12S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	11	Worklist Smp#:	11
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

Processing Results



RT	Mass	Response	Amount
8.04	128.00	5584	0.004435
8.04	129.00	0	
8.00	102.00	3099	

Reviewer: transuea, 28-Dec-2021 18:56:25

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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-12D-20211221 Lab Sample ID: 410-68043-12

Matrix: Ground Water Lab File ID: NL1221.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 15:06

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 242.6(mL) Date Analyzed: 12/27/2021 23:56

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		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	0.011	J	0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND	*+	0.052	0.021
91-20-3	Naphthalene	ND		0.072	0.031
85-01-8	Phenanthrene	ND		0.072	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)	41		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	94		36-111
93951-69-0	Fluoranthene-d10 (Surr)	94		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1221.D
Lims ID: 410-68043-A-12-A
Client ID: MW-12D-20211221
Sample Type: Client
Inject. Date: 27-Dec-2021 23:56:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-12-A
Misc. Info.: 410-0047167-022
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:55:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	97	83921	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	287018	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	143252	0.2352	
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	159354	0.2500	
17 Fluorene	166	11.704	11.696	0.008	64	831	0.000999	7M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	99	265892	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.418	14.412	0.012	98	239023	0.2345	
25 Fluoranthene	202	14.443	14.448	0.012	27	2931	0.002564	
26 Pyrene	202	14.775	14.775	0.018	96	2735	0.001965	
28 Benzo[a]anthracene	228	16.736	16.736	0.015	1	1949	0.001829	M
* 29 Chrysene-d12	240	16.744	16.737	0.007	81	222418	0.2500	
33 Benzo[b]fluoranthene	252	18.600	18.592	0.046	99	1574	0.001521	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.060	19.053	0.015	98	80268	0.1026	
* 38 Perylene-d12	264	19.183	19.175	0.008	98	210286	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

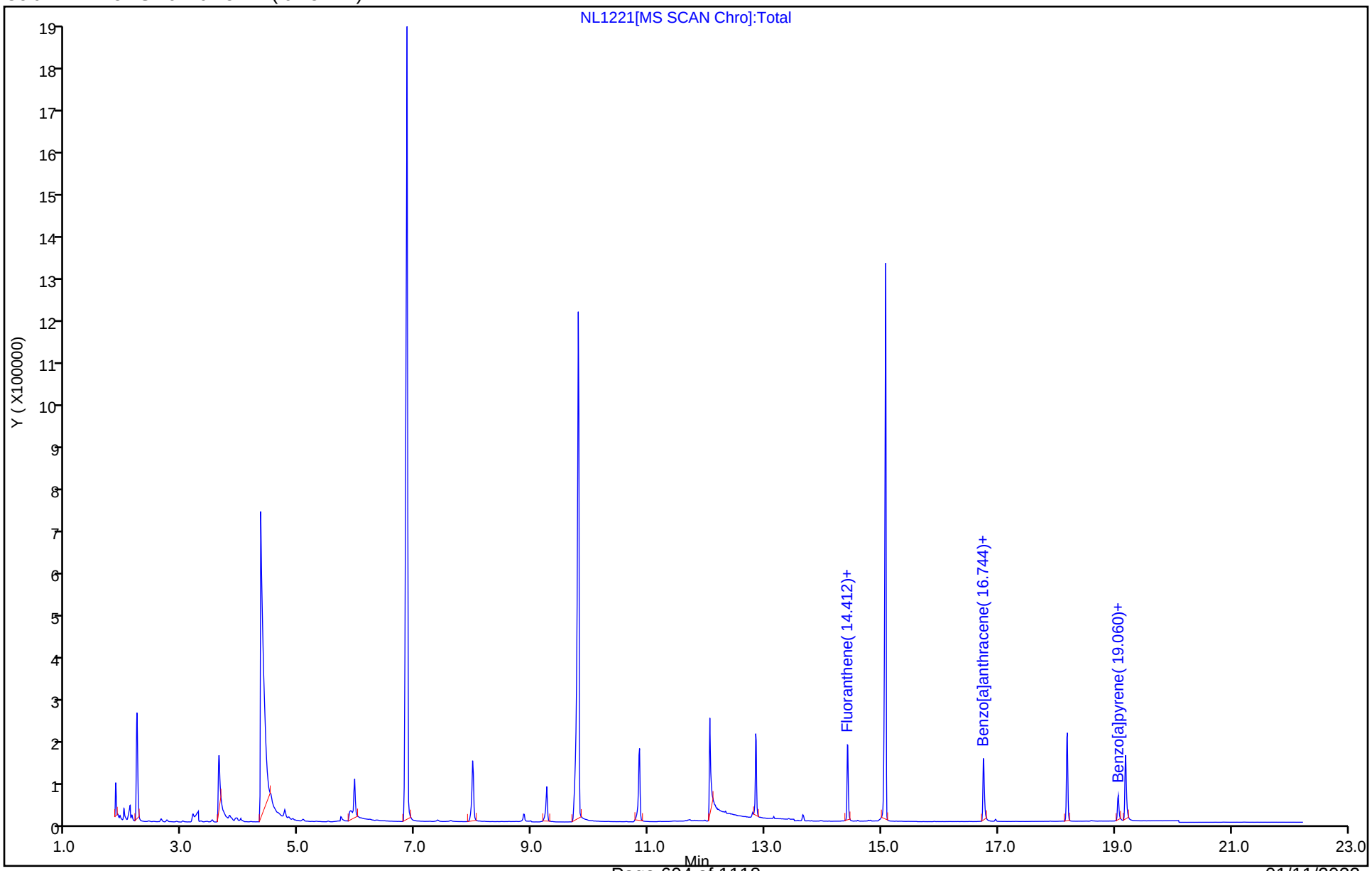
Report Date: 28-Dec-2021 06:59:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1221.D

Injection Date:	27-Dec-2021 23:56:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-12-A	Lab Sample ID:	410-68043-12	Worklist Smp#:	22
Client ID:	MW-12D-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



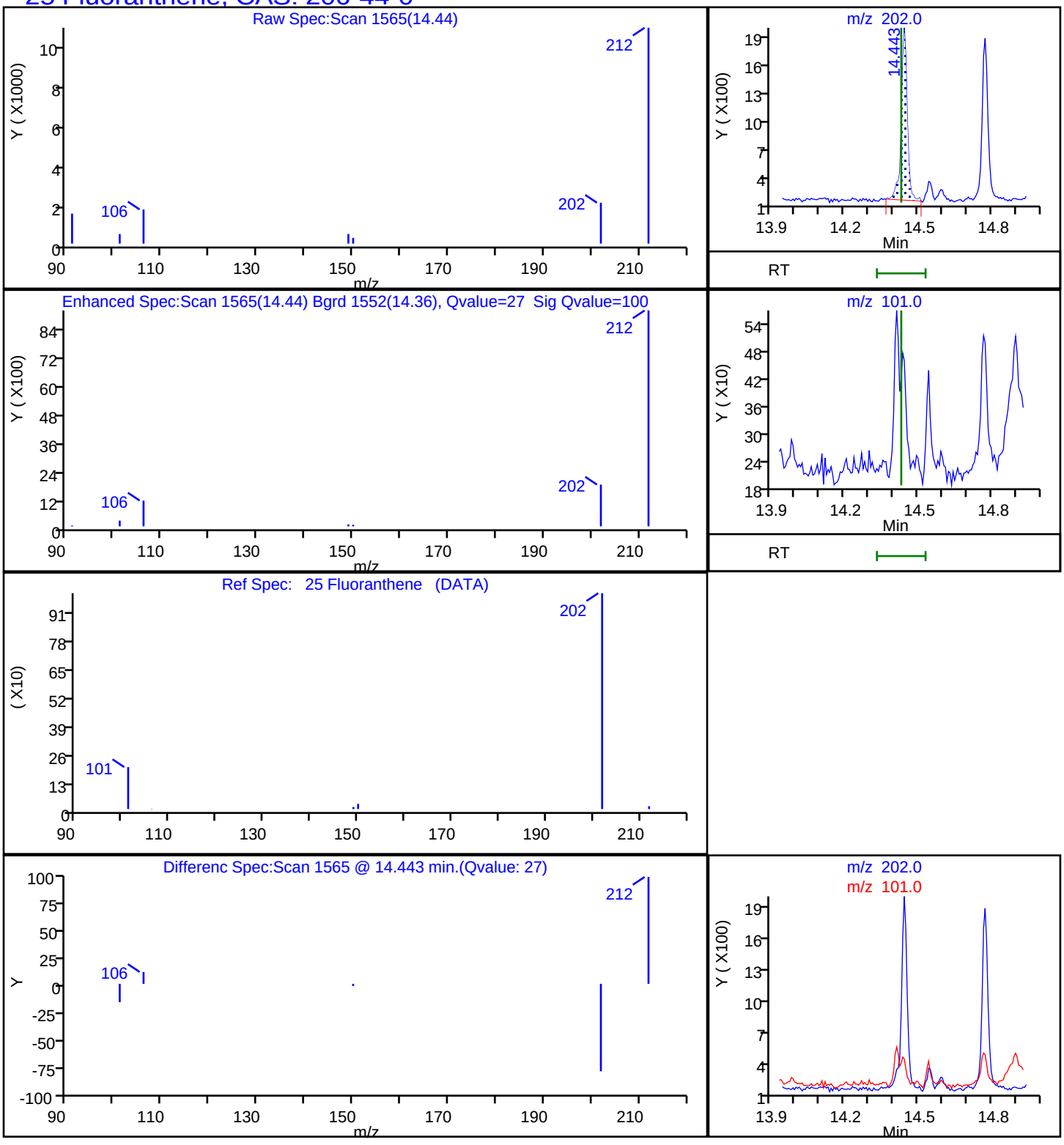
Report Date: 28-Dec-2021 06:59:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1221.D

Injection Date:	27-Dec-2021 23:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-12-A	Lab Sample ID:	410-68043-12		
Client ID:	MW-12D-20211221				
Operator ID:	whs02991	ALS Bottle#:	22	Worklist Smp#:	22
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		

25 Fluoranthene, CAS: 206-44-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

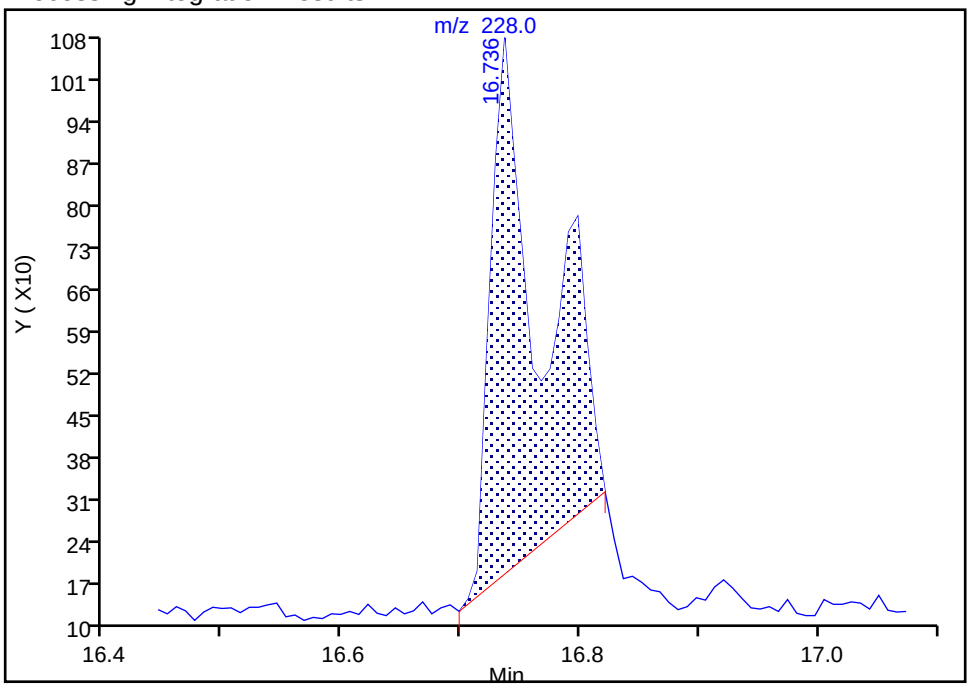
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Injection Date:	27-Dec-2021 23:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-12-A	Lab Sample ID:	410-68043-12		
Client ID:	MW-12D-20211221				
Operator ID:	whs02991	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

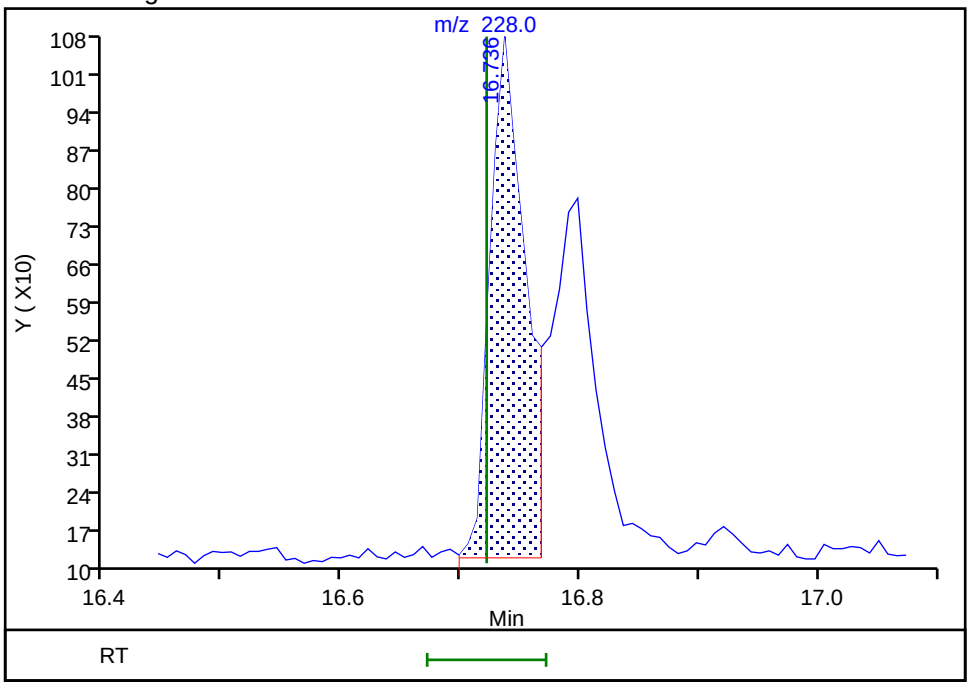
Processing Integration Results

RT: 16.74
Area: 2687
Amount: 0.002521
Amount Units: ug/ml



Manual Integration Results

RT: 16.74
Area: 1949
Amount: 0.001829
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:55:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

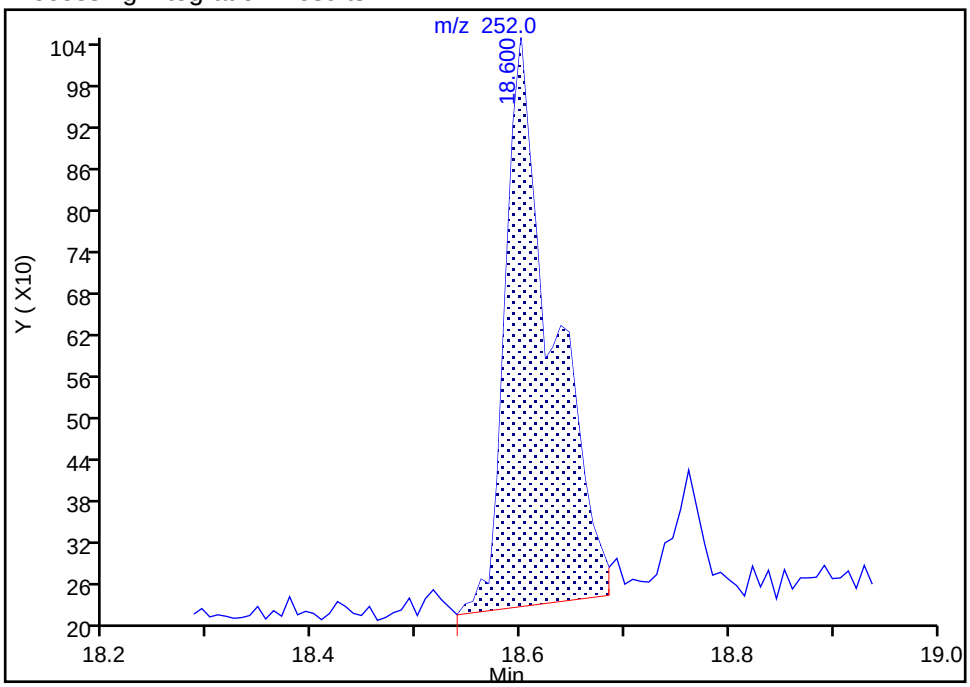
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1221.D		
Injection Date:	27-Dec-2021 23:56:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-12-A	Lab Sample ID:	410-68043-12
Client ID:	MW-12D-20211221		
Operator ID:	whs02991	ALS Bottle#:	22 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. 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

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

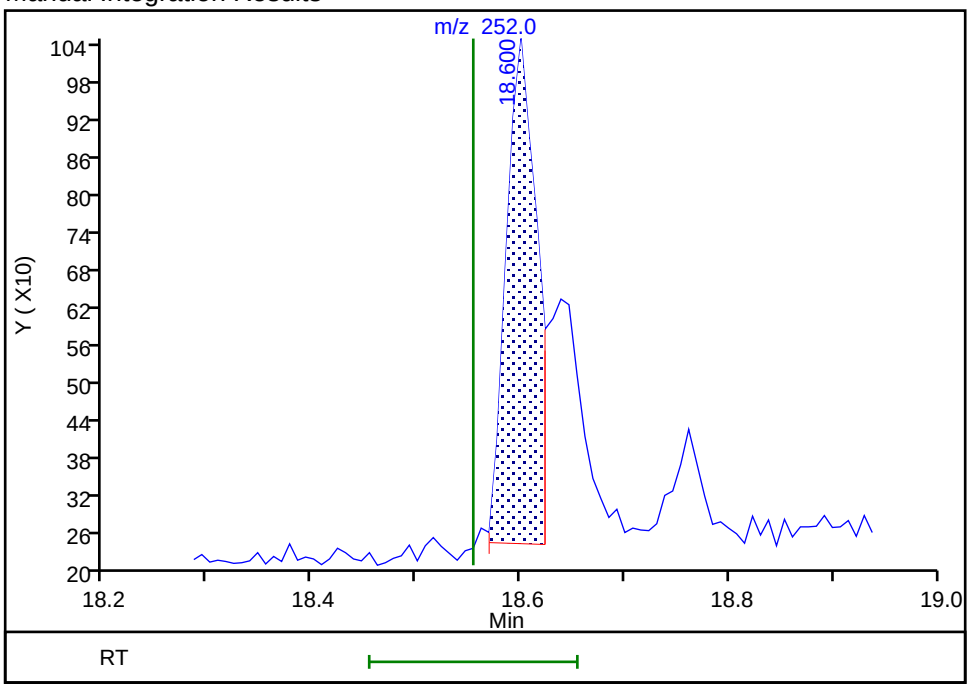
Processing Integration Results

RT: 18.60
Area: 2572
Amount: 0.002485
Amount Units: ug/ml



Manual Integration Results

RT: 18.60
Area: 1574
Amount: 0.001521
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:55:23

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

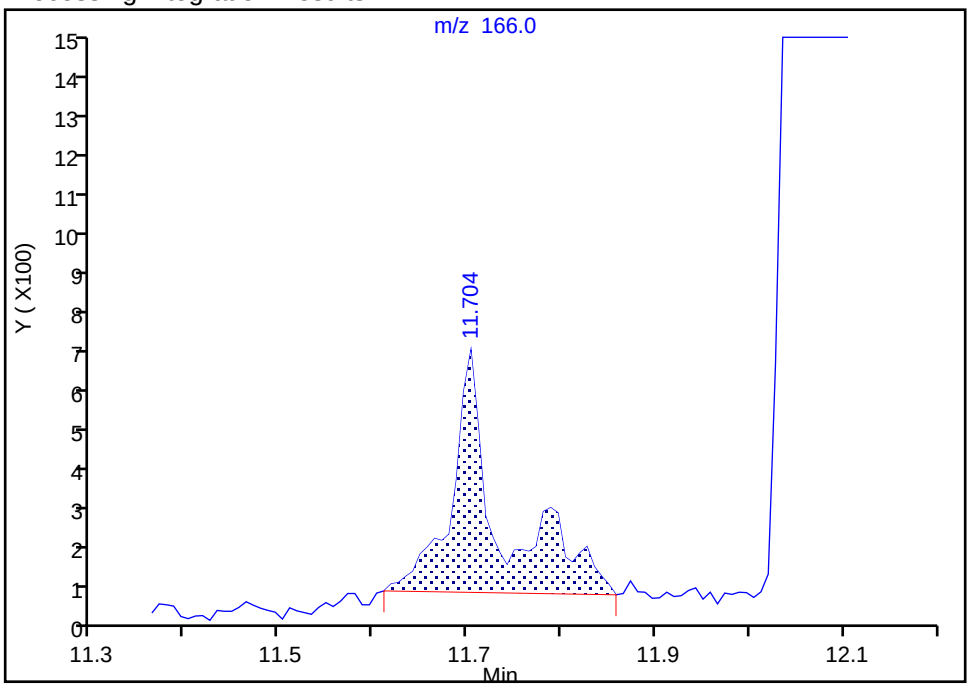
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1221.D				
Injection Date:	27-Dec-2021 23:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-12-A	Lab Sample ID:	410-68043-12		
Client ID:	MW-12D-20211221				
Operator ID:	whs02991	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 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		

17 Fluorene, CAS: 86-73-7

Signal: 1

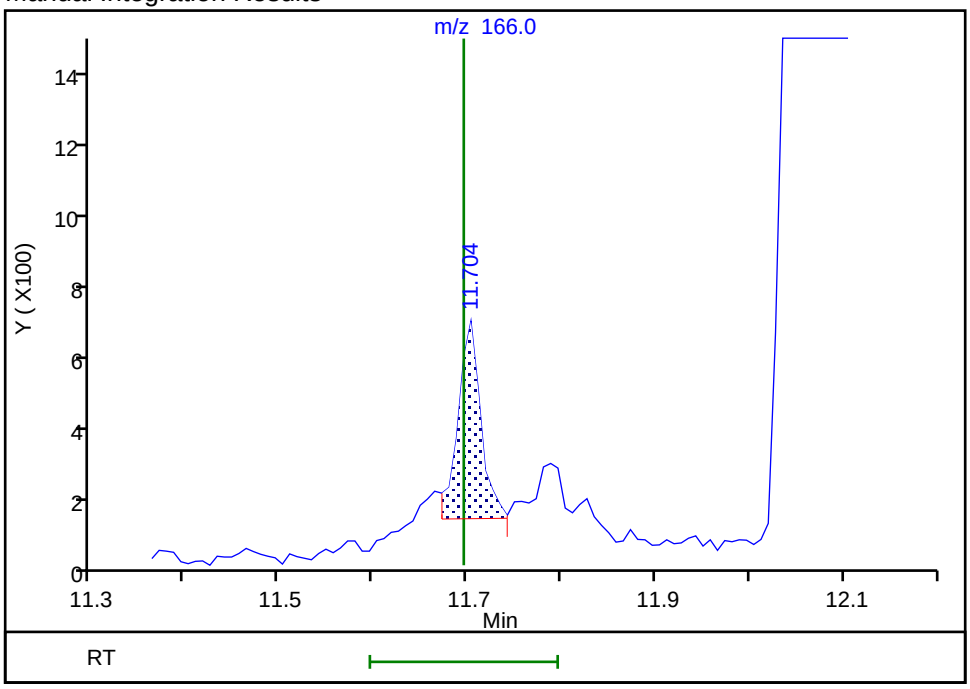
Processing Integration Results

RT: 11.70
Area: 1981
Amount: 0.002382
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 831
Amount: 0.000999
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:54:52

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-11S-20211221 Lab Sample ID: 410-68043-13

Matrix: Ground Water Lab File ID: NL1222.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 16:17

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 245.5(mL) Date Analyzed: 12/28/2021 00:23

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	1.8	cn	0.051	0.010
120-12-7	Anthracene	1.9	cn	0.051	0.010
56-55-3	Benzo[a]anthracene	0.75	cn	0.051	0.010
50-32-8	Benzo[a]pyrene	0.33	cn	0.051	0.010
205-99-2	Benzo[b]fluoranthene	0.30	*+ cn	0.051	0.010
191-24-2	Benzo[g,h,i]perylene	0.12	*+ cn	0.051	0.010
207-08-9	Benzo[k]fluoranthene	0.11	*+ cn	0.051	0.010
218-01-9	Chrysene	0.52	cn	0.051	0.010
53-70-3	Dibenz(a,h)anthracene	0.038	J *+ cn	0.051	0.020
206-44-0	Fluoranthene	3.5	cn	0.051	0.010
86-73-7	Fluorene	4.9	cn	0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.14	*+ cn	0.051	0.020
91-20-3	Naphthalene	2.9	cn	0.071	0.031
85-01-8	Phenanthrene	0.73	cn	0.071	0.031
129-00-0	Pyrene	4.1	cn	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	96	cn	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	93	cn	36-111
93951-69-0	Fluoranthene-d10 (Surr)	91	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D
Lims ID: 410-68043-A-13-A
Client ID: MW-11S-20211221
Sample Type: Client
Inject. Date: 28-Dec-2021 00:23:30 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-13-A
Misc. Info.: 410-0047167-023
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:57:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	96	82263	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	274120	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	100	813770	0.7101	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	42	134604	0.2314	
12 Acenaphthylene	152	10.604	10.614	0.010	100	500124	0.4401	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	25	159392	0.2500	
14 Acenaphthene	154	10.895	10.885	0.010	97	6605026	9.33	E
17 Fluorene	166	11.696	11.696	0.000	97	1002008	1.20	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	263451	0.2500	
21 Phenanthrene	178	12.862	12.870	0.000	100	208181	0.1803	
22 Anthracene	178	12.931	12.939	0.007	100	513026	0.4746	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	98	228690	0.2265	
25 Fluoranthene	202	14.437	14.448	0.006	96	969509	0.8558	
26 Pyrene	202	14.763	14.775	0.006	98	1261554	1.01	
28 Benzo[a]anthracene	228	16.729	16.736	0.008	95	176796	0.1852	
* 29 Chrysene-d12	240	16.744	16.737	0.007	91	199217	0.2500	
30 Chrysene	228	16.790	16.790	0.007	100	134561	0.1278	
33 Benzo[b]fluoranthene	252	18.577	18.592	0.023	100	84199	0.0745	
34 Benzo[k]fluoranthene	252	18.616	18.639	0.016	99	36285	0.0282	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	98	198118	0.2399	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	100	87830	0.0804	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	229641	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.803	20.845	0.028	97	34323	0.0345	
41 Dibenz(a,h)anthracene	278	20.839	20.833	0.014	97	10659	0.009346	
42 Benzo[g,h,i]perylene	276	21.164	21.168	0.022	97	36338	0.0289	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

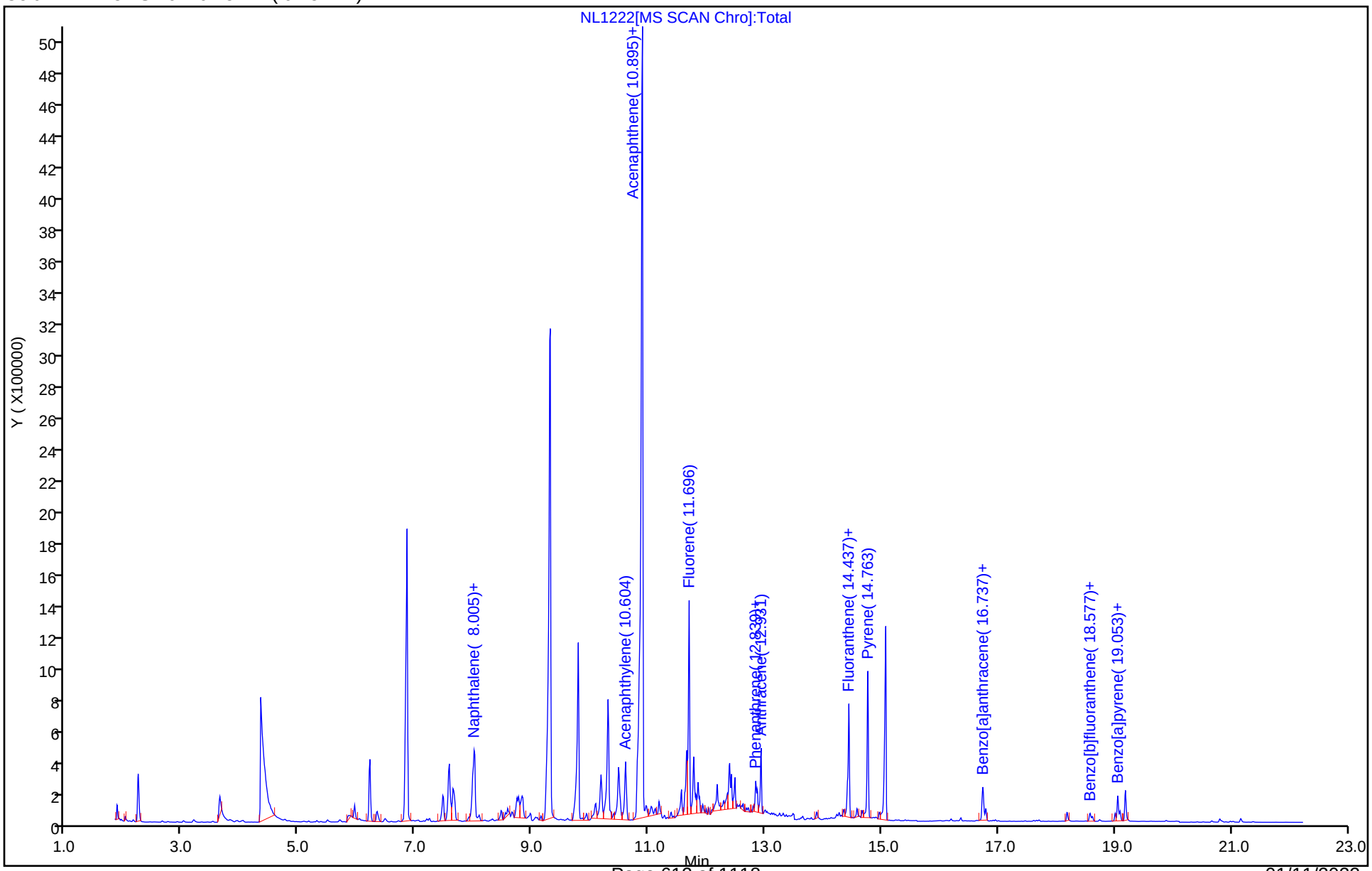
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D

Injection Date:	28-Dec-2021 00:23:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13	Worklist Smp#:	23
Client ID:	MW-11S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



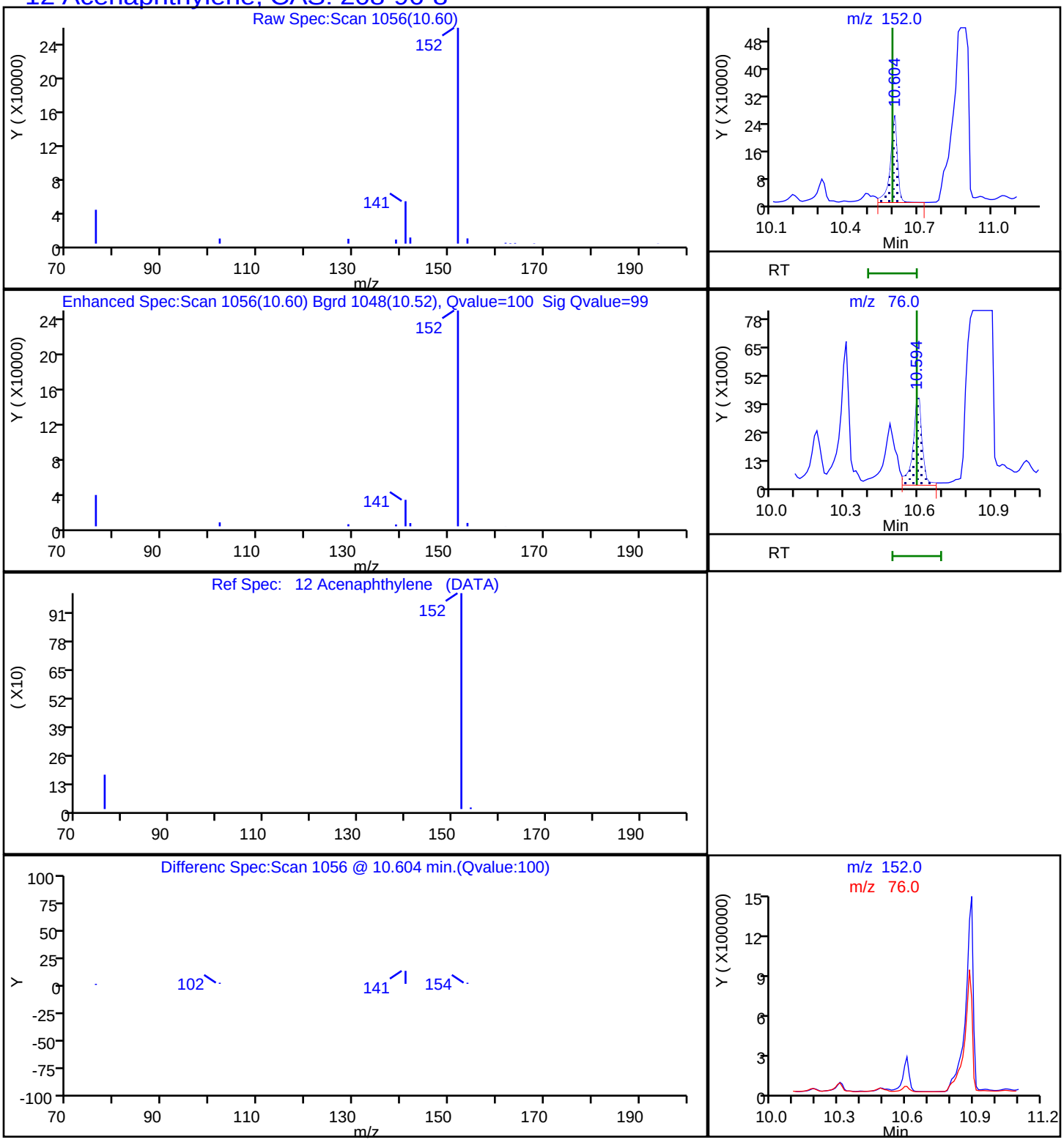
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	28-Dec-2021 00:23:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13
Client ID:	MW-11S-20211221		
Operator ID:	whs02991	ALS Bottle#:	23 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
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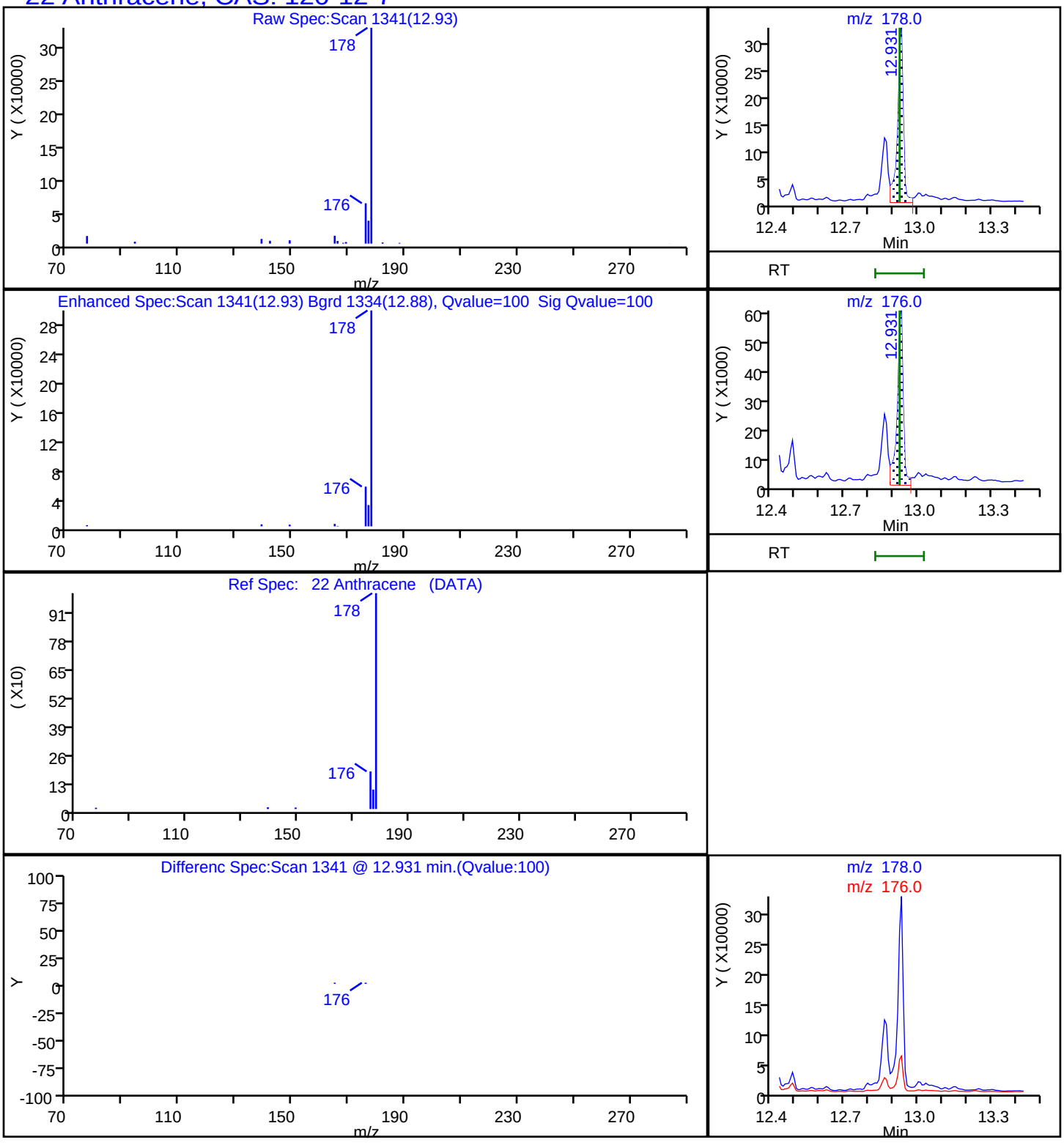
12 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Env, LLC

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Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	whs02991	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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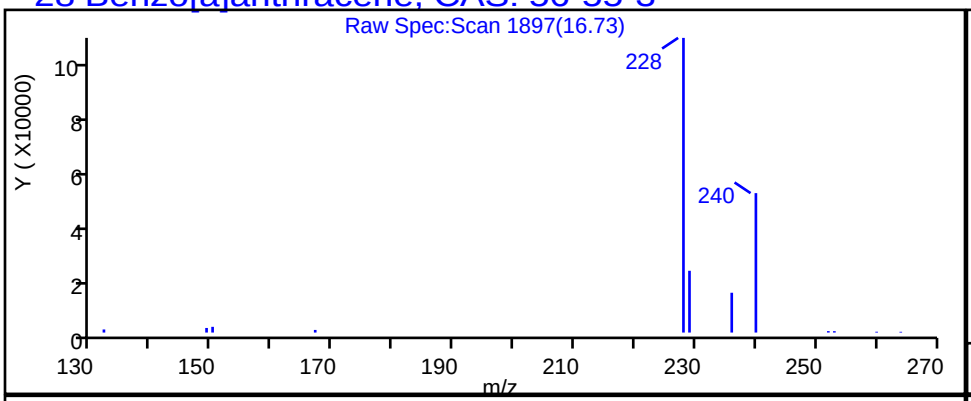
22 Anthracene, CAS: 120-12-7

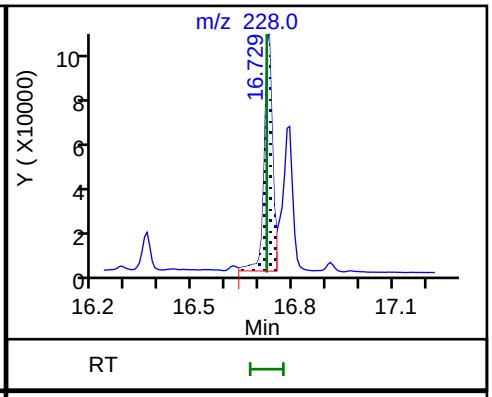


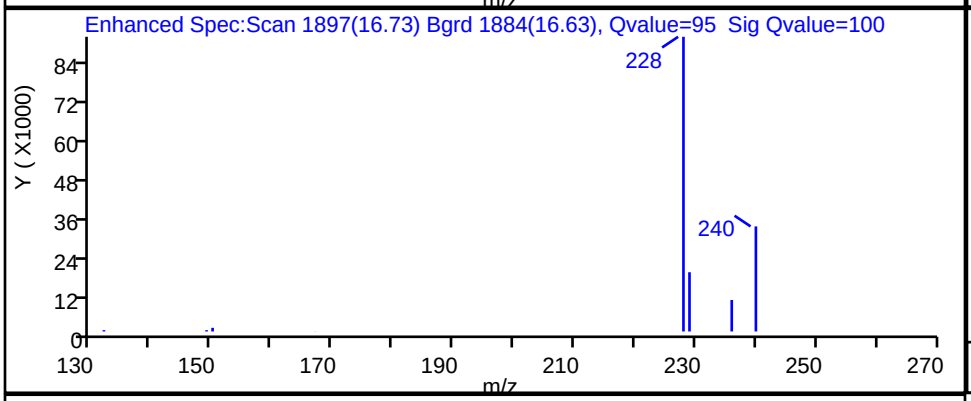
Eurofins Lancaster Laboratories Env, LLC

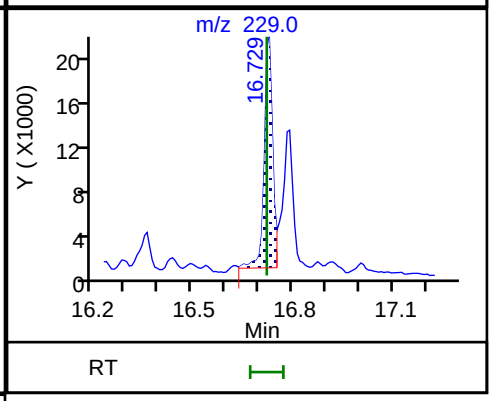
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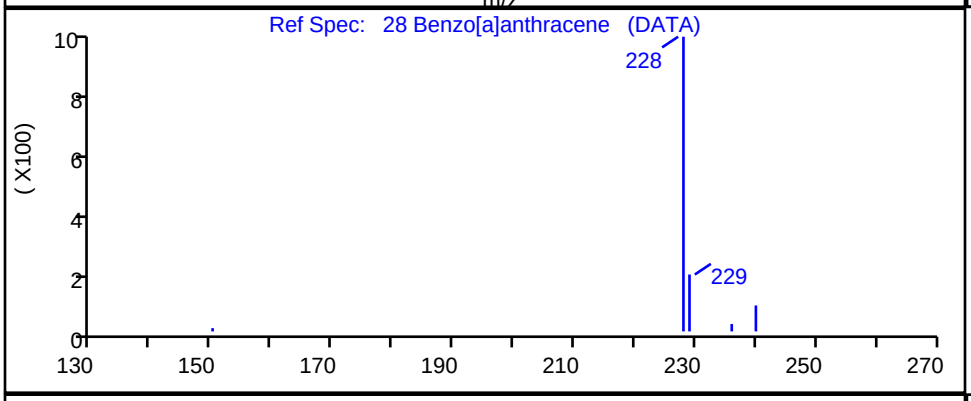
28 Benzo[a]anthracene, CAS: 56-55-3

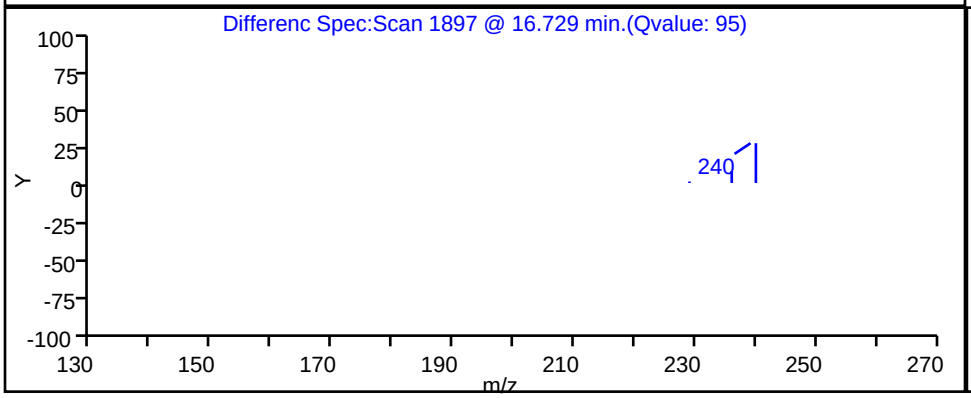


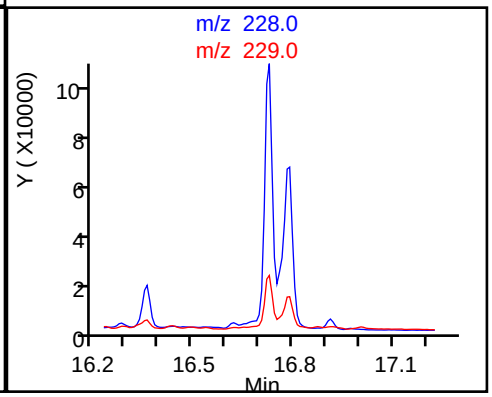








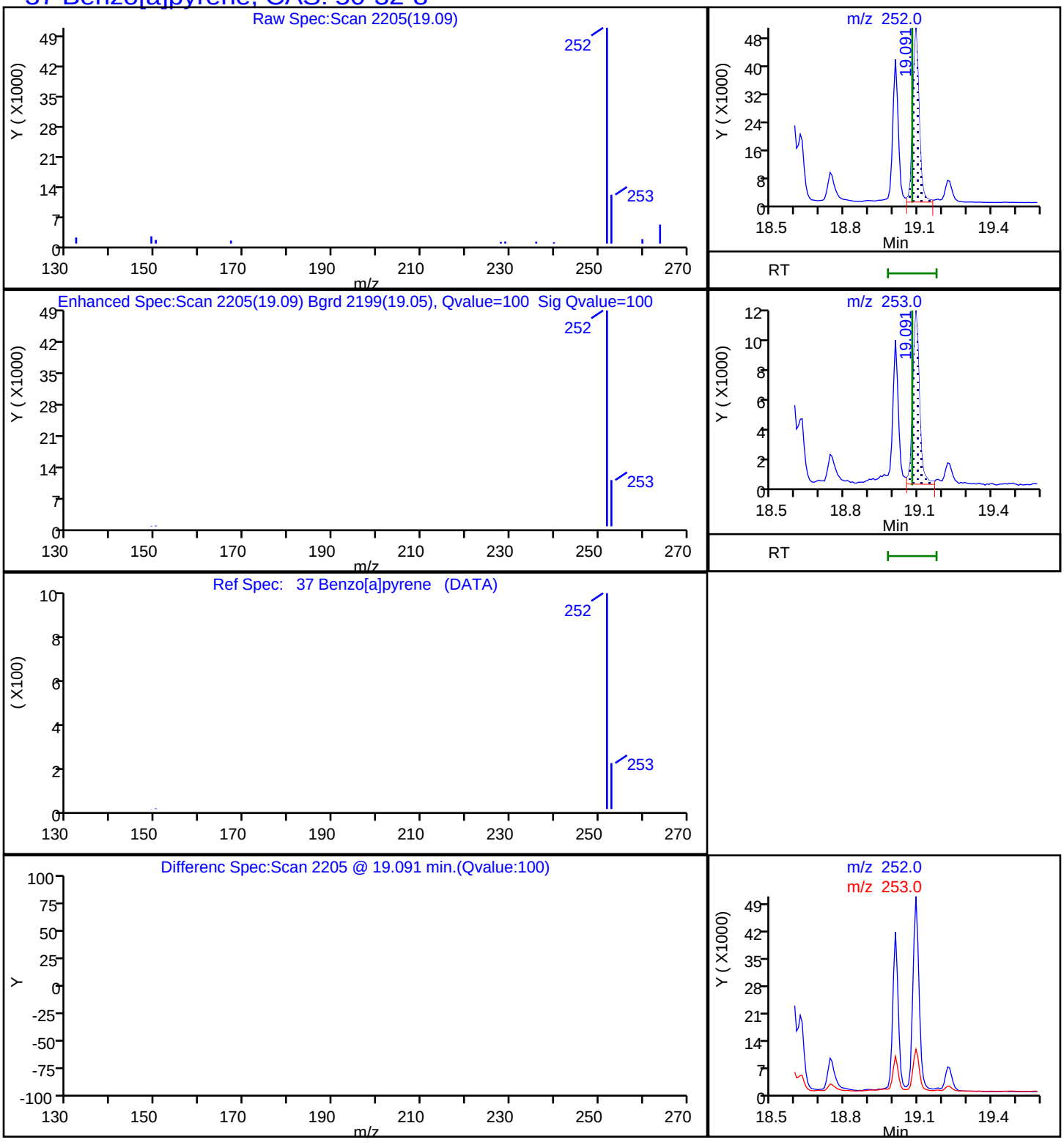




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Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	whs02991	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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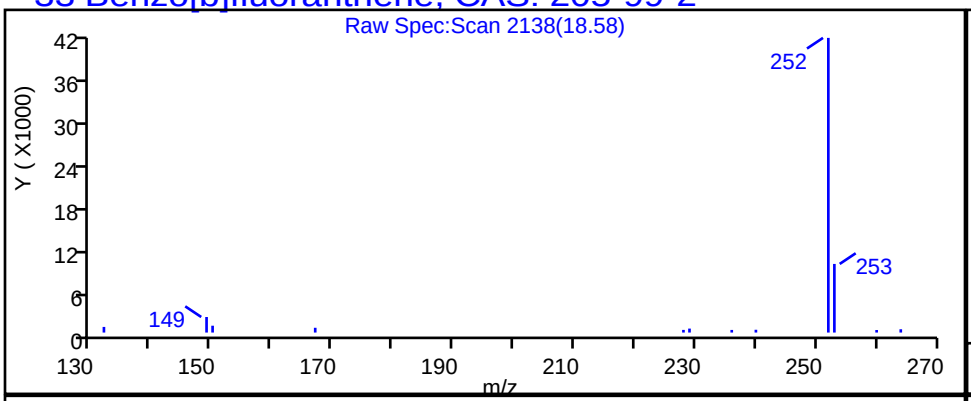
37 Benzo[a]pyrene, CAS: 50-32-8

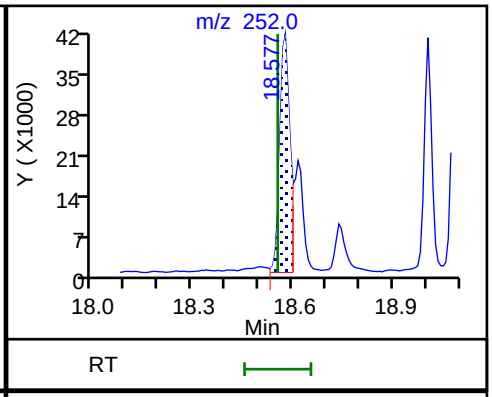


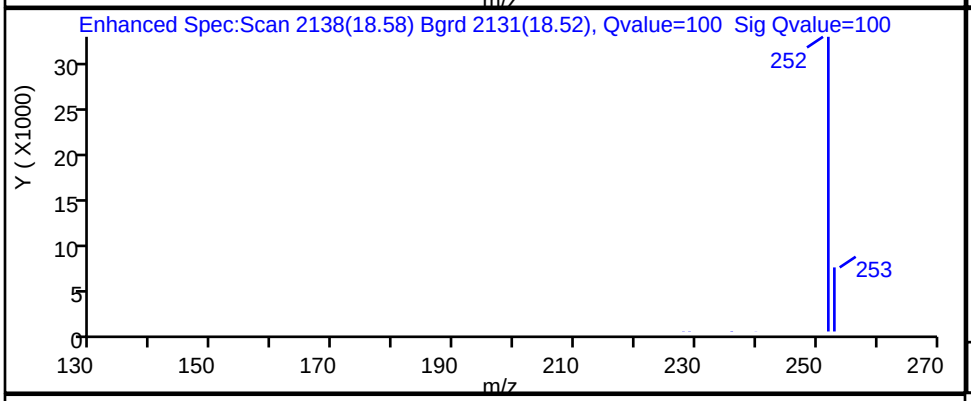
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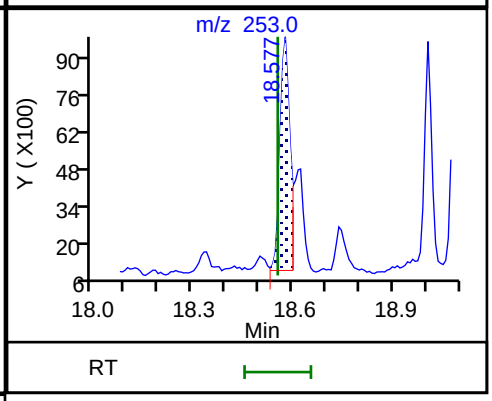
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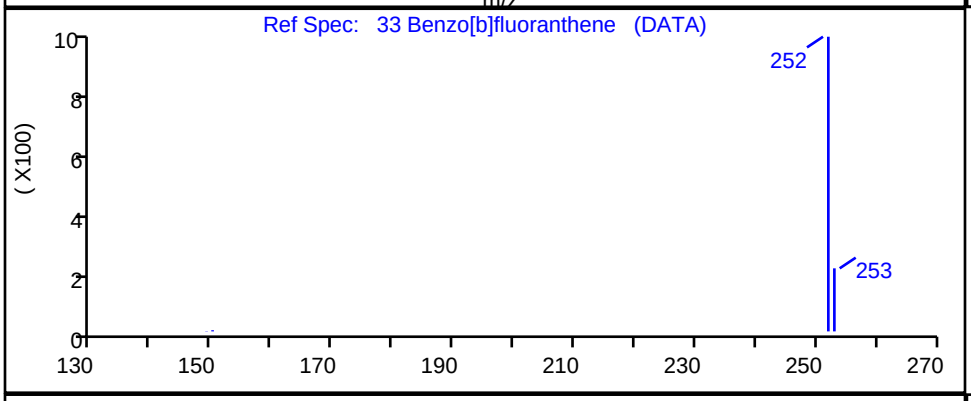
33 Benzo[b]fluoranthene, CAS: 205-99-2

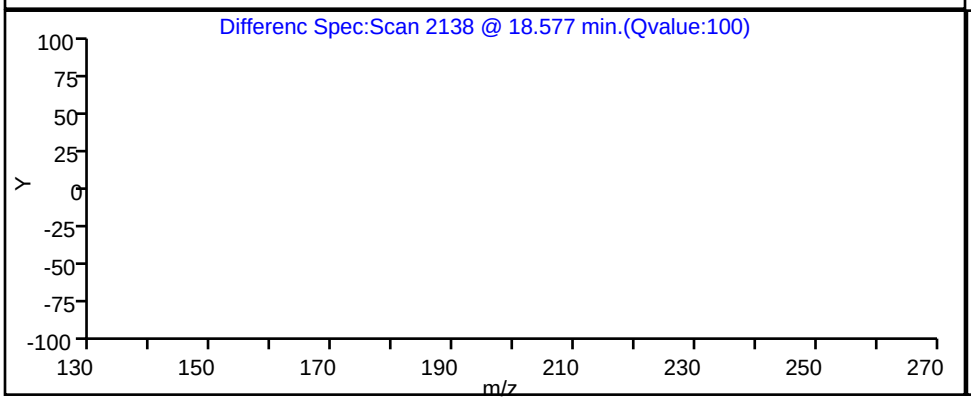


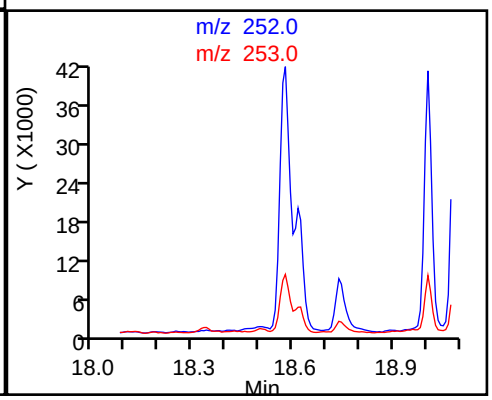








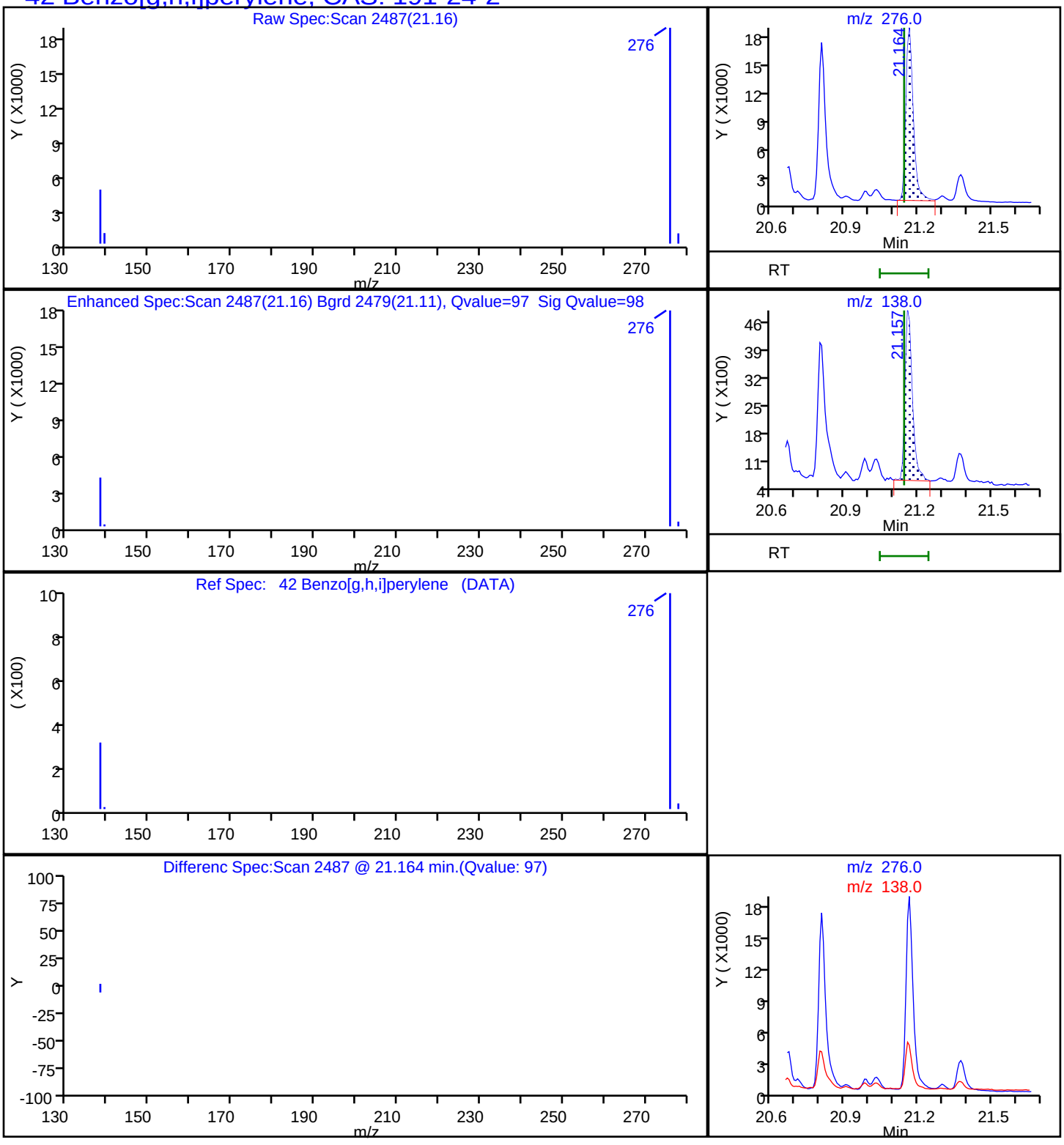




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Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D				
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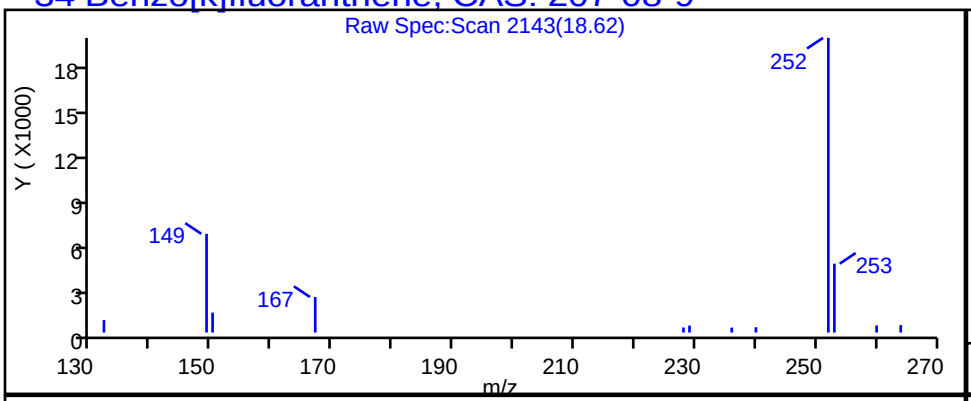
42 Benzo[g,h,i]perylene, CAS: 191-24-2

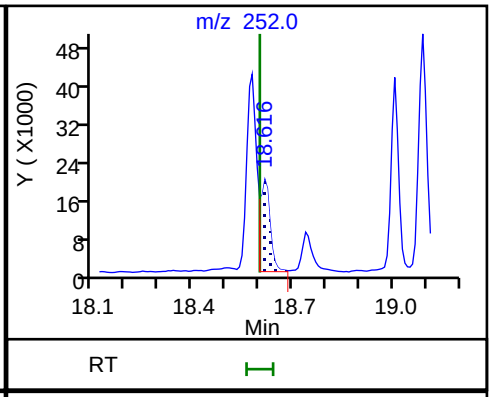


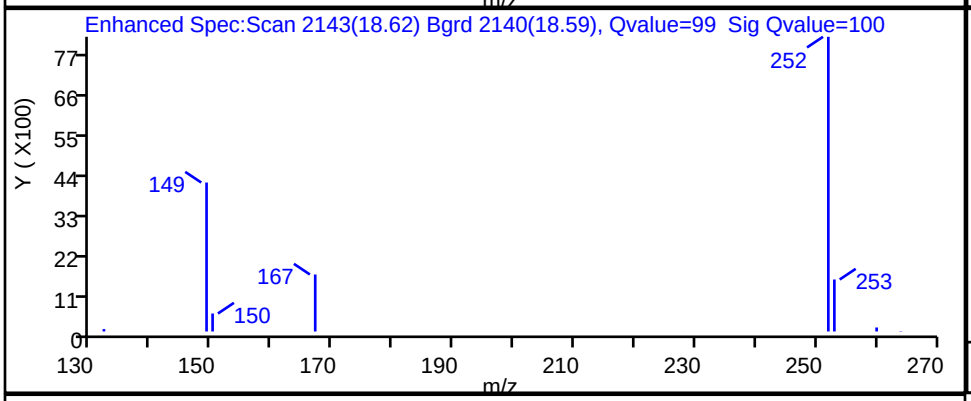
Eurofins Lancaster Laboratories Env, LLC

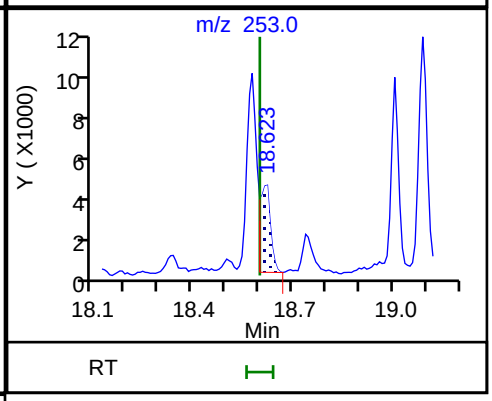
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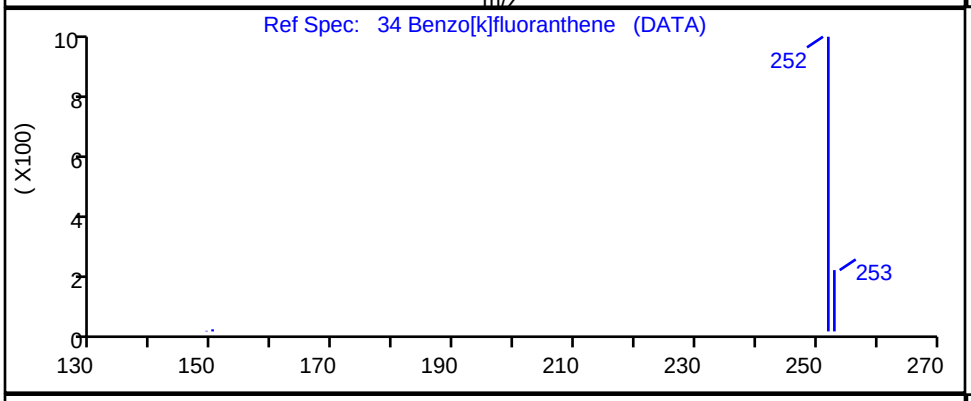
34 Benzo[k]fluoranthene, CAS: 207-08-9

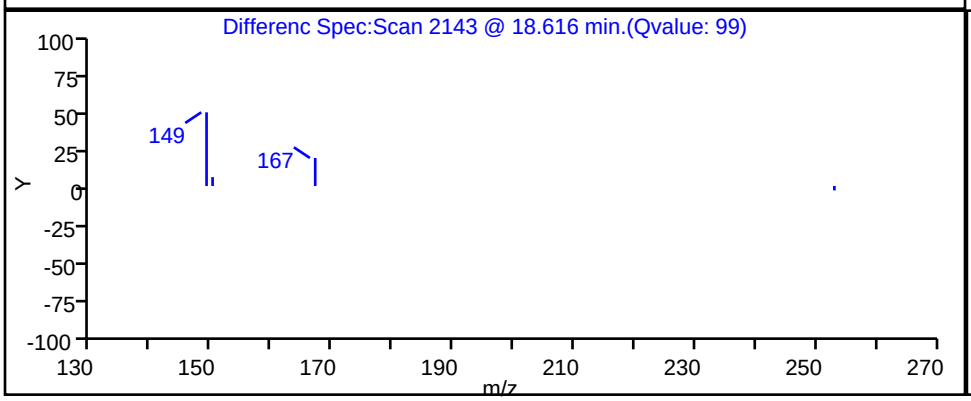


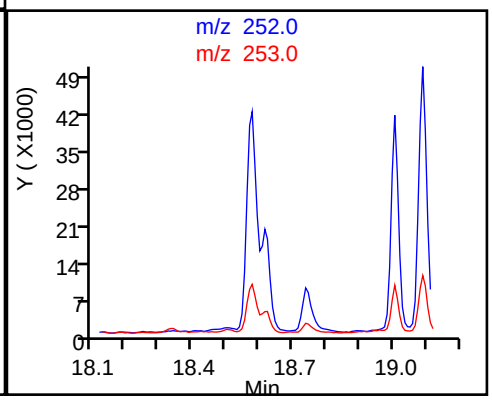








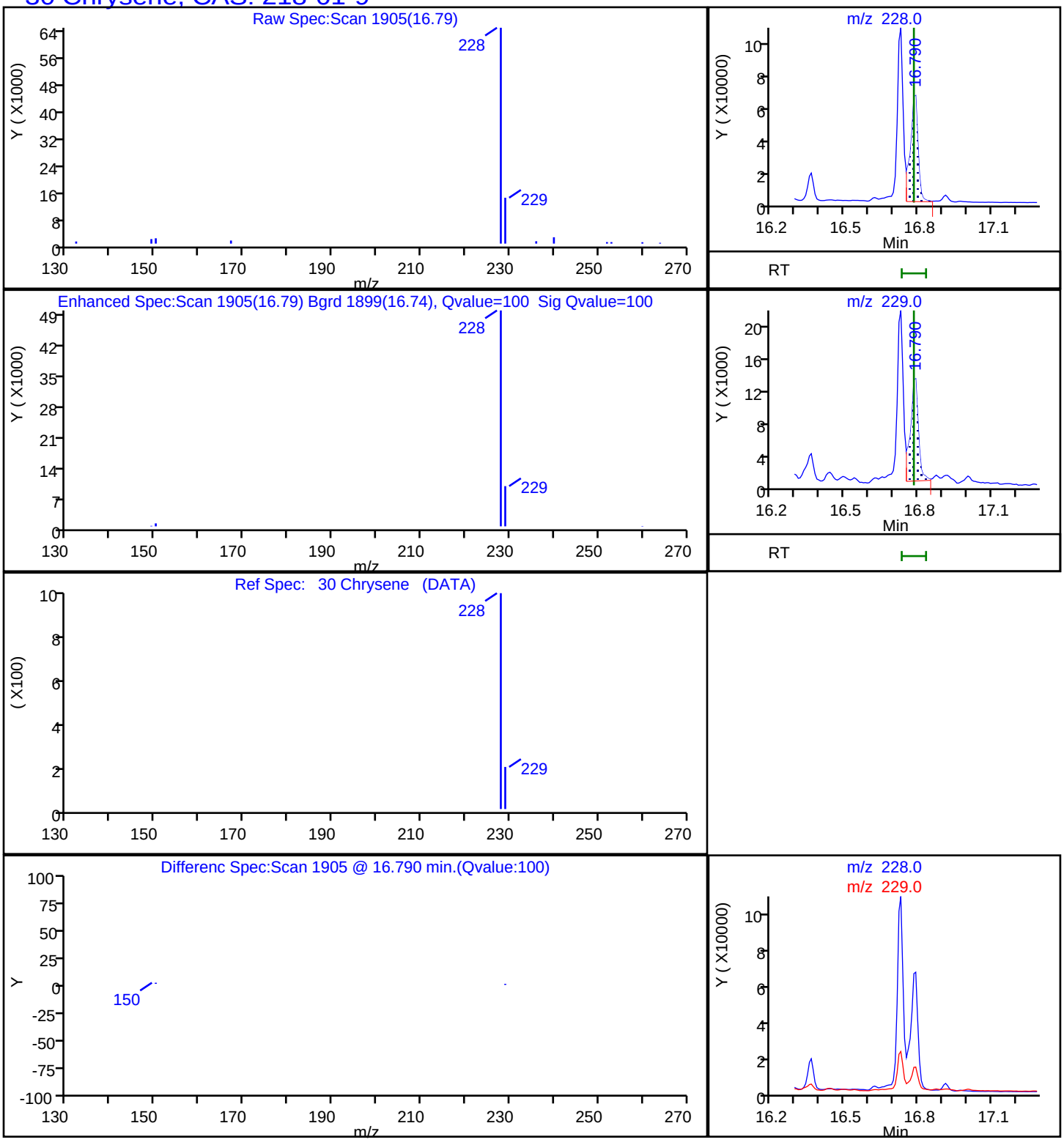




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Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D				
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Client ID:	MW-11S-20211221				
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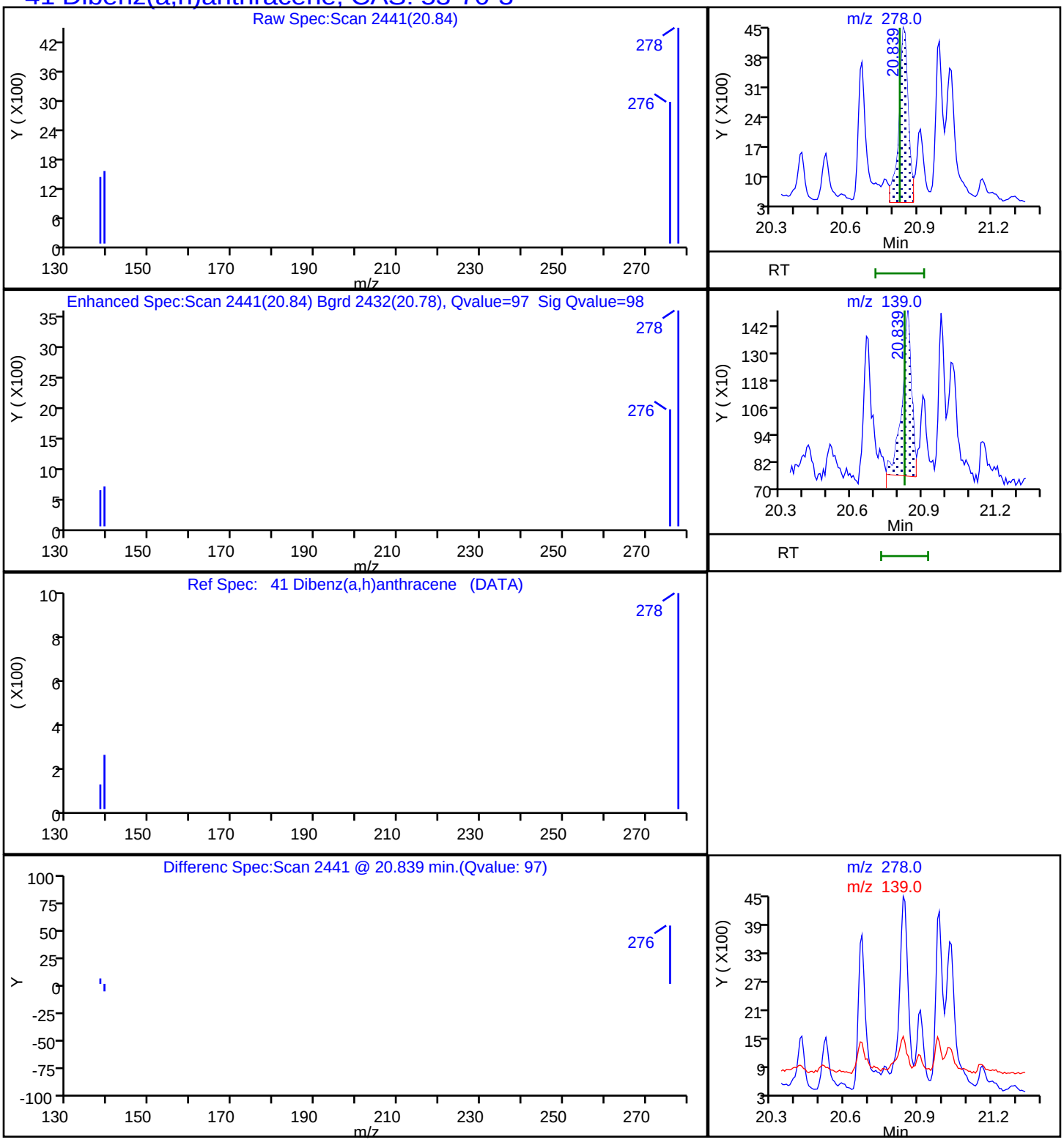
30 Chrysene, CAS: 218-01-9



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Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D				
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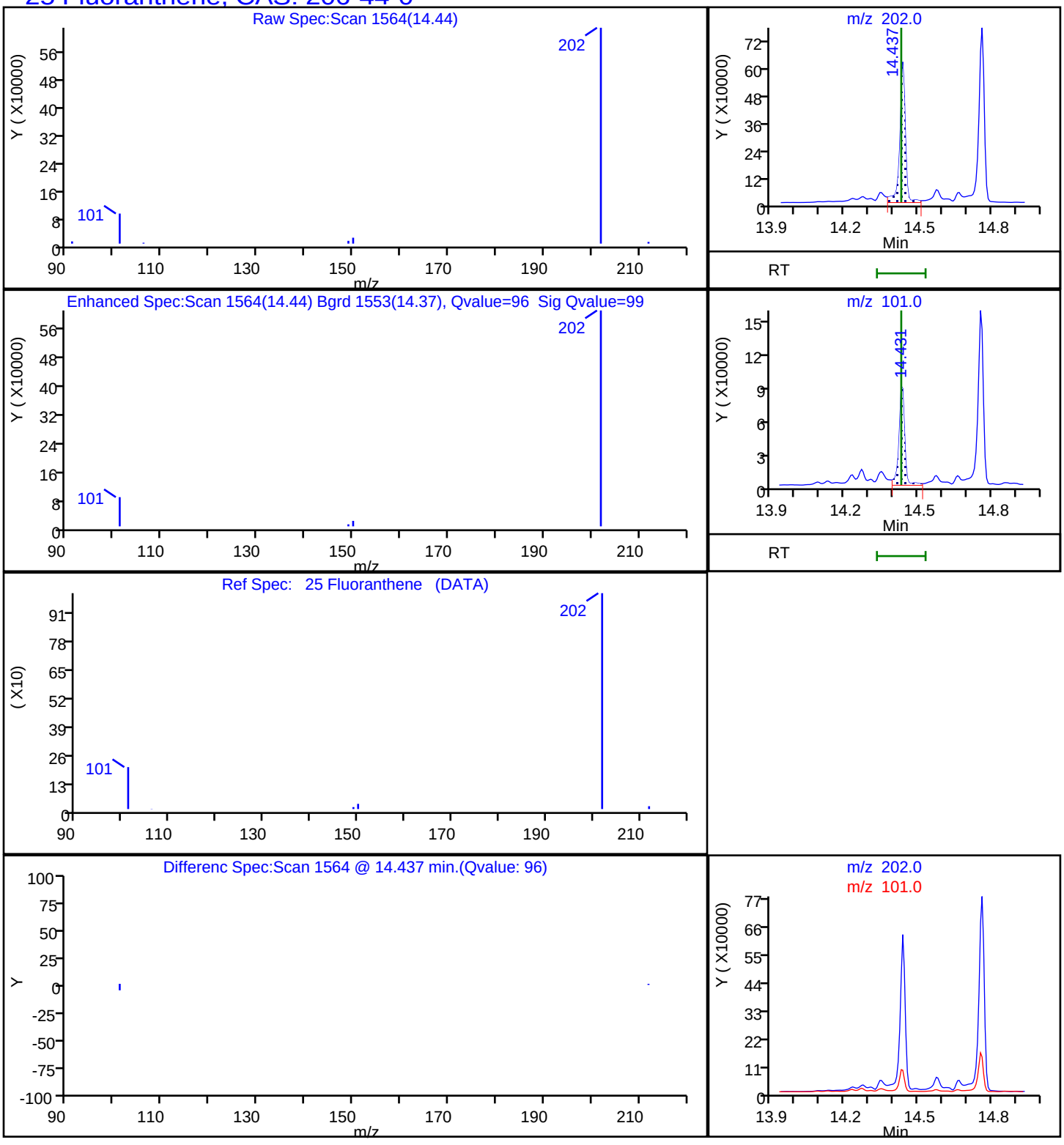
41 Dibenz(a,h)anthracene, CAS: 53-70-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D		
Injection Date:	28-Dec-2021 00:23:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13
Client ID:	MW-11S-20211221		
Operator ID:	whs02991	ALS Bottle#:	23 Worklist Smp#: 23
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

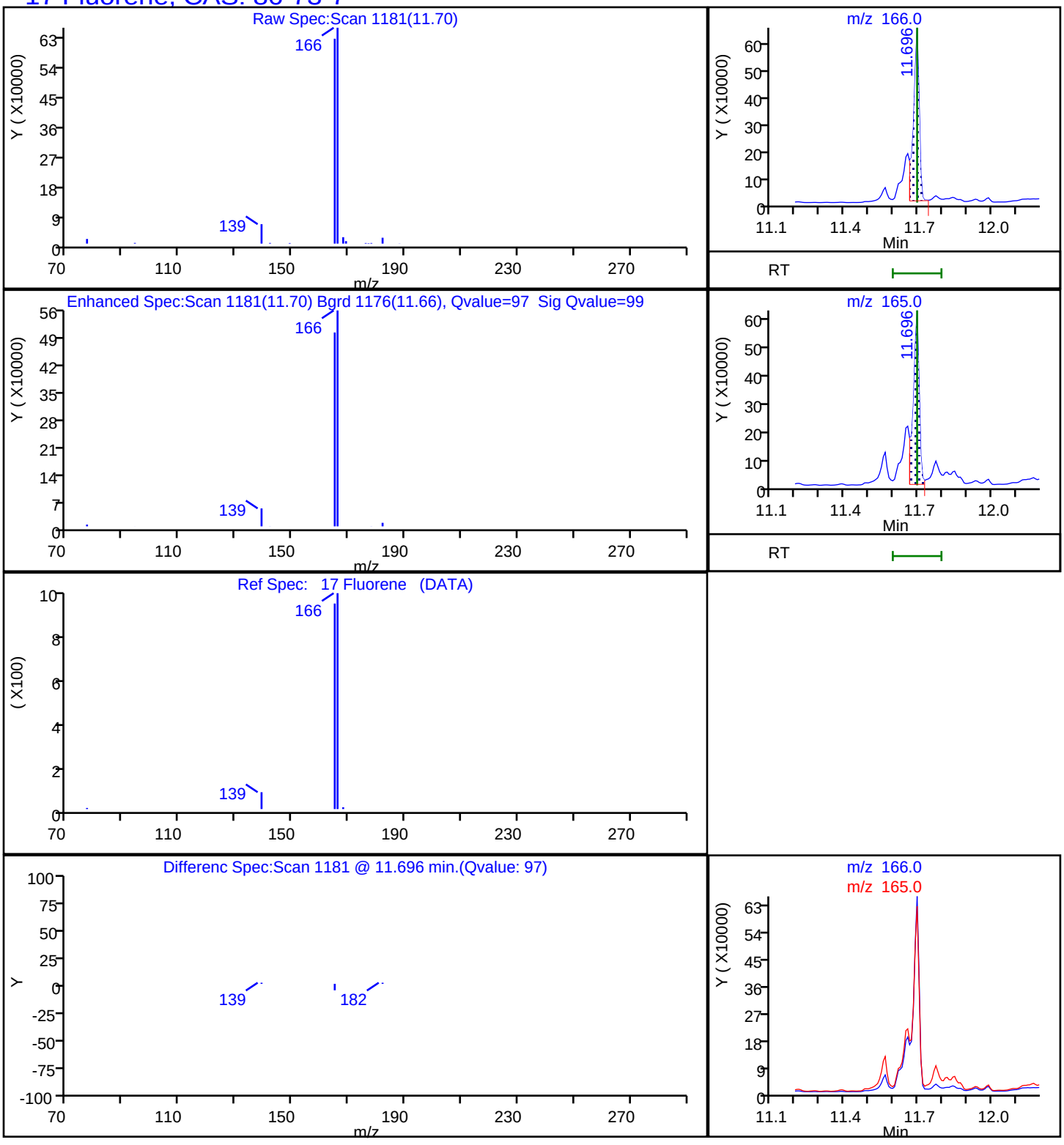
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D				
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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		

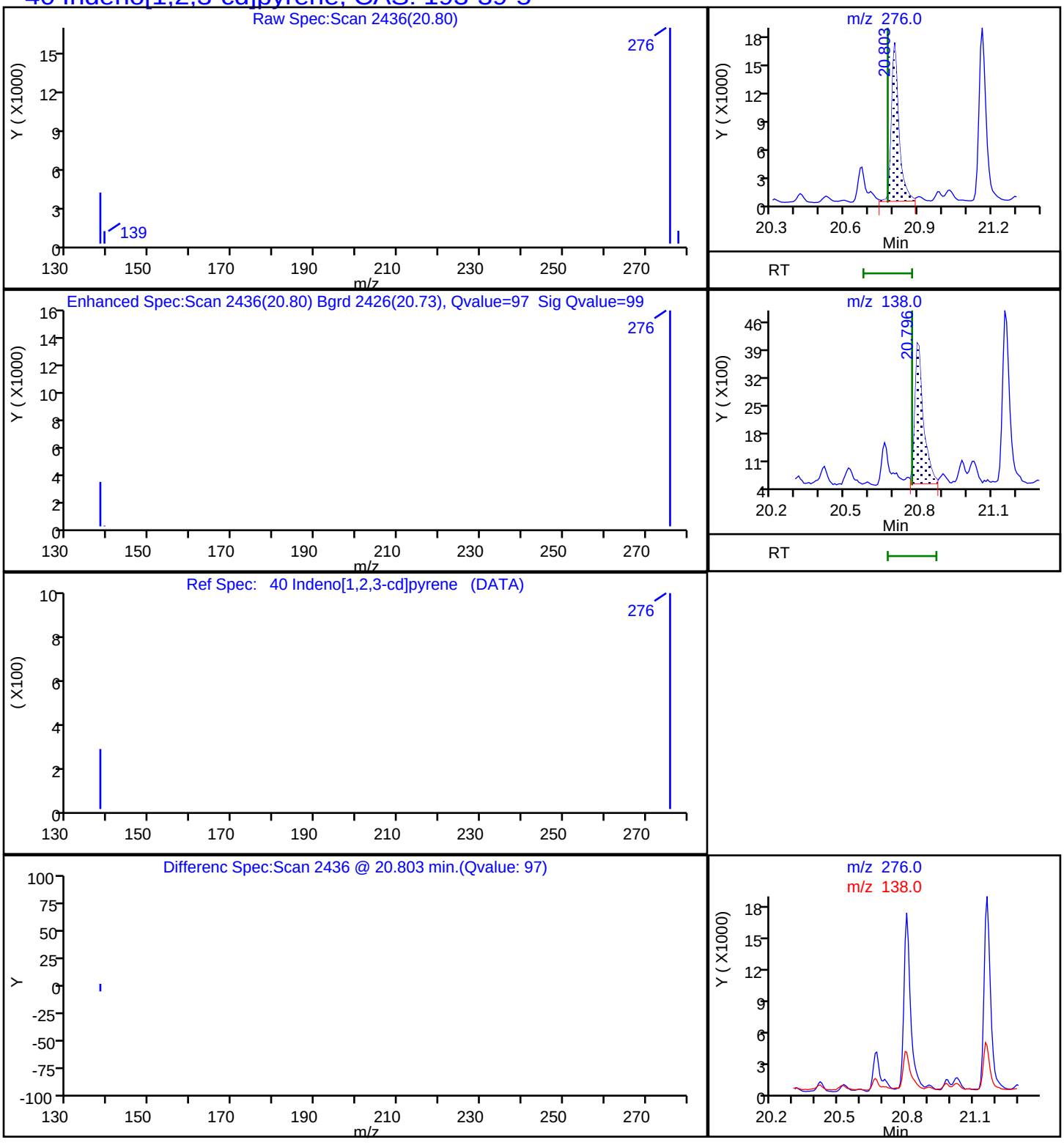
17 Fluorene, CAS: 86-73-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D				
Injection Date:	28-Dec-2021 00:23:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	whs02991	ALS Bottle#:	23	Worklist Smp#:	23
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



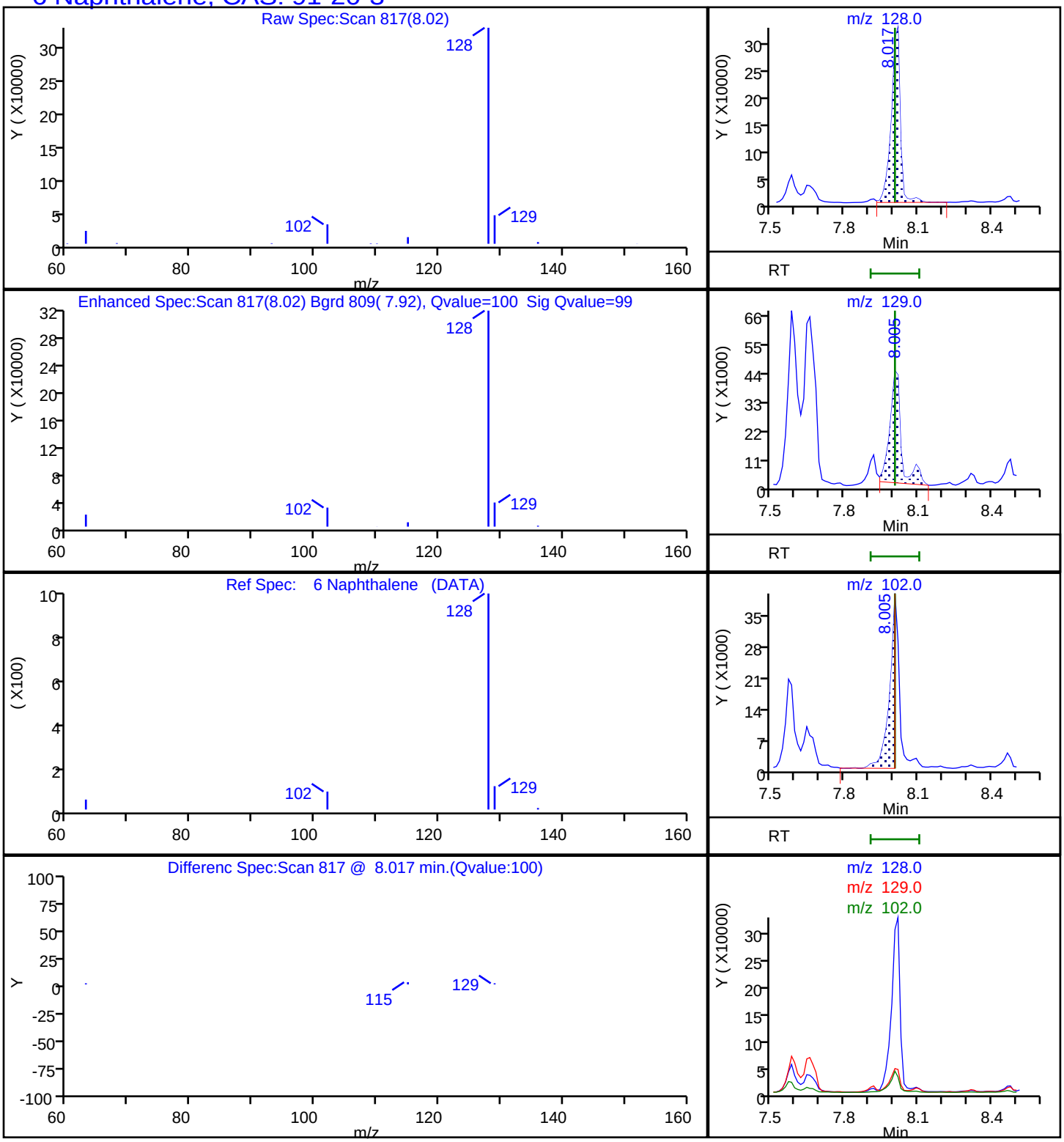
Report Date: 28-Dec-2021 06:59:18 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D

Injection Date:	28-Dec-2021 00:23:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	whs02991	ALS Bottle#:	23	Worklist Smp#:	23
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		

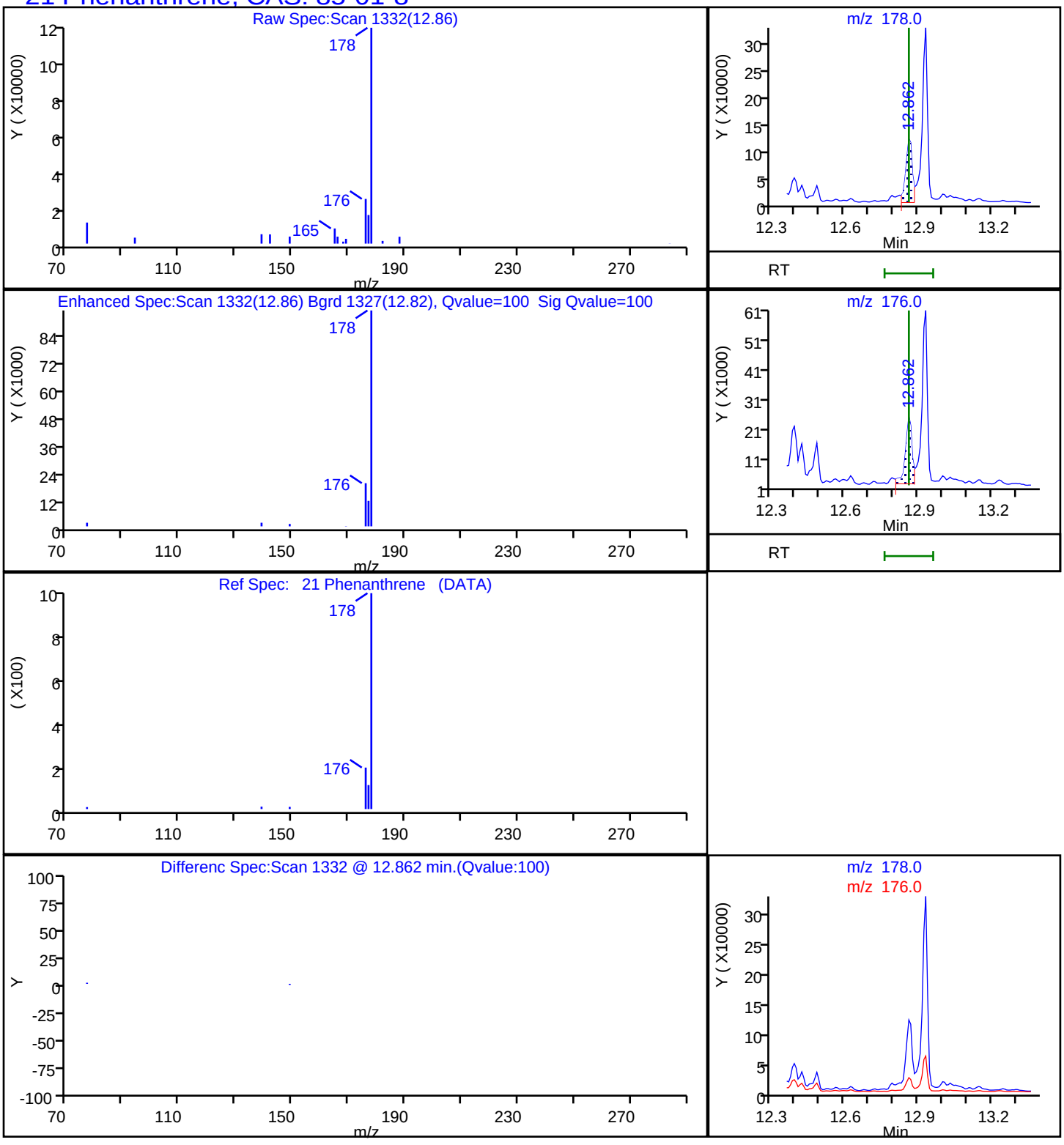
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D				
Injection Date:	28-Dec-2021 00:23:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	whs02991	ALS Bottle#:	23	Worklist Smp#:	23
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		

21 Phenanthrene, CAS: 85-01-8



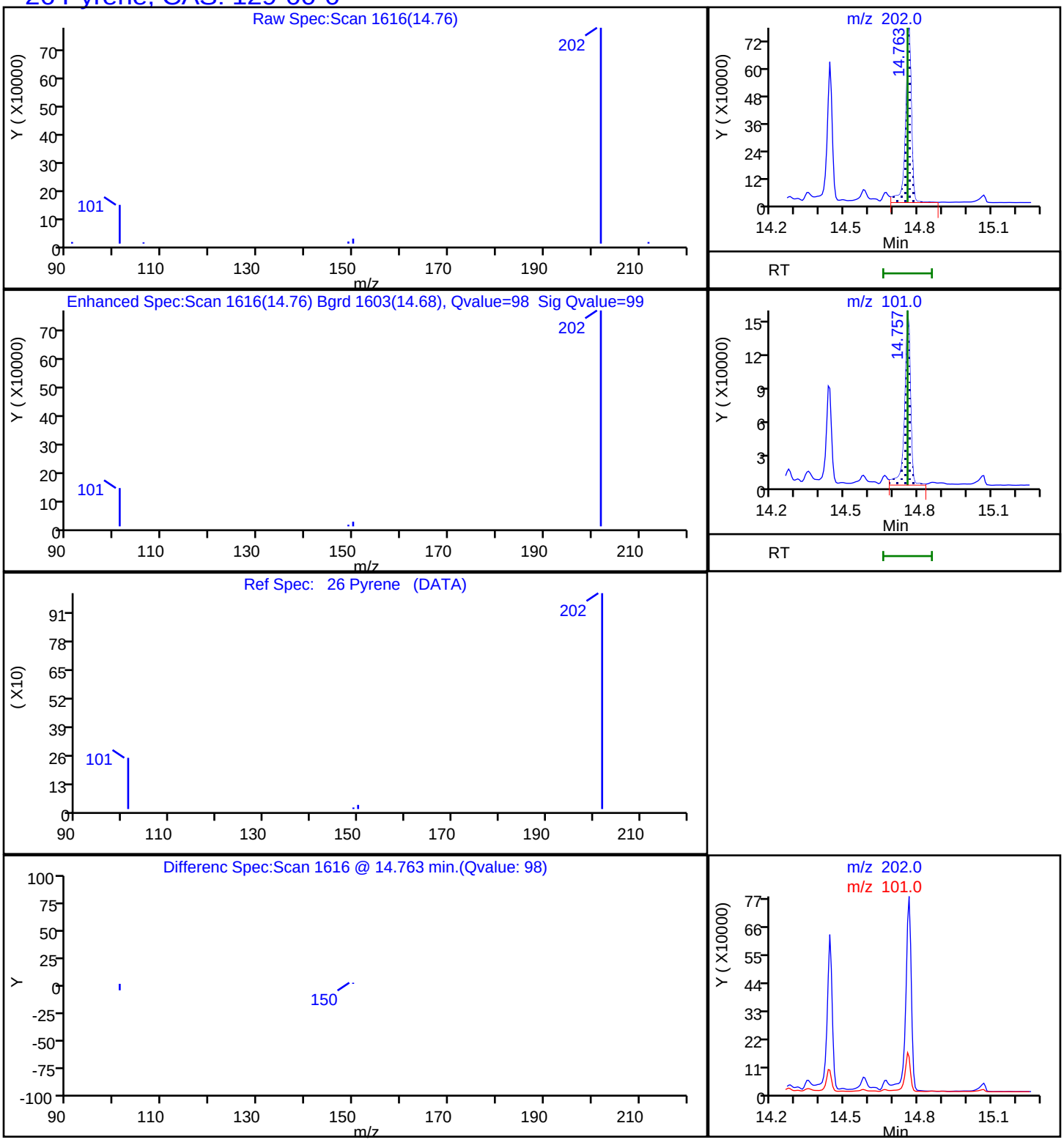
Report Date: 28-Dec-2021 06:59:18 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1222.D

Injection Date:	28-Dec-2021 00:23:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	whs02991	ALS Bottle#:	23	Worklist Smp#:	23
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		

26 Pyrene, CAS: 129-00-0



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-11S-20211221 RE Lab Sample ID: 410-68043-13 RE

Matrix: Ground Water Lab File ID: ML1808.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 16:17

Extract. Method: 3510C Date Extracted: 12/30/2021 09:26

Sample wt/vol: 239.9(mL) Date Analyzed: 12/31/2021 17:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210855 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*29*	*H E*	*0.052*	*0.010*
208-96-8	*Acenaphthylene*	*0.97*	*H*	*0.052*	*0.010*
120-12-7	*Anthracene*	*0.80*	*H*	*0.052*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.38*	*H*	*0.052*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.18*	*H*	*0.052*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.17*	*H*	*0.052*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.084*	*H*	*0.052*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.060*	*H*	*0.052*	*0.010*
218-01-9	*Chrysene*	*0.30*	*H*	*0.052*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*ND*	*H*	*0.052*	*0.021*
206-44-0	*Fluoranthene*	*2.5*	*H*	*0.052*	*0.010*
86-73-7	*Fluorene*	*3.7*	*H*	*0.052*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.083*	*H*	*0.052*	*0.021*
91-20-3	*Naphthalene*	*0.55*	*H*	*0.073*	*0.031*
85-01-8	*Phenanthrene*	*0.30*	*H*	*0.073*	*0.031*
129-00-0	*Pyrene*	*3.2*	*H*	*0.052*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	73		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	80		36-111
93951-69-0	Fluoranthene-d10 (Surr)	76		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1808.D
Lims ID: 410-68043-B-13-A
Client ID: MW-11S-20211221
Sample Type: Client
Inject. Date: 31-Dec-2021 17:43:02 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-B-13-A
Misc. Info.: 410-0047541-009
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 04-Jan-2022 13:17:34 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: transuea Date: 04-Jan-2022 13:12:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	86	41218	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	94	126298	0.2500	
6 Naphthalene	128	8.951	8.972	-0.021	43	73737	0.1327	M
$ 9 1-Methylnaphthalene-d10	152	10.154	10.166	-0.012	100	58451	0.1993	
12 Acenaphthylene	152	11.499	11.498	-0.001	99	151271	0.2333	
* 13 Acenaphthene-d10	164	11.706	11.706	0.000	90	93786	0.2500	M
14 Acenaphthene	154	11.755	11.755	0.000	92	3010563	6.88	E
17 Fluorene	166	12.426	12.426	0.000	94	461725	0.8826	
* 20 Phenanthrene-d10	188	13.597	13.597	0.000	95	198251	0.2500	
21 Phenanthrene	178	13.628	13.628	0.000	100	63859	0.0722	M
22 Anthracene	178	13.690	13.698	-0.008	100	157907	0.1913	M
$ 24 Fluoranthene-d10 (Surr)	212	15.270	15.275	-0.005	96	165354	0.1898	M
25 Fluoranthene	202	15.302	15.300	0.002	99	642017	0.6050	
26 Pyrene	202	15.647	15.647	-0.004	97	847684	0.7662	
28 Benzo[a]anthracene	228	17.676	17.668	0.003	100	97278	0.0907	M
* 29 Chrysene-d12	240	17.691	17.696	-0.005	59	215055	0.2500	
30 Chrysene	228	17.737	17.737	-0.005	100	82068	0.0709	
33 Benzo[b]fluoranthene	252	19.547	19.540	0.003	100	48586	0.0416	M
34 Benzo[k]fluoranthene	252	19.593	19.586	0.003	100	17660	0.0143	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.038	20.038	-0.005	98	161316	0.1828	
37 Benzo[a]pyrene	252	20.076	20.076	-0.005	100	48064	0.0431	M
* 38 Perylene-d12	264	20.168	20.173	-0.005	97	243732	0.2500	M
40 Indeno[1,2,3-cd]pyrene	276	21.850	21.842	0.003	97	23669	0.0200	M
41 Dibenz(a,h)anthracene	278	21.893	21.891	-0.004	85	6615	0.004769	7M
42 Benzo[g,h,i]perylene	276	22.295	22.294	-0.004	93	28606	0.0202	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

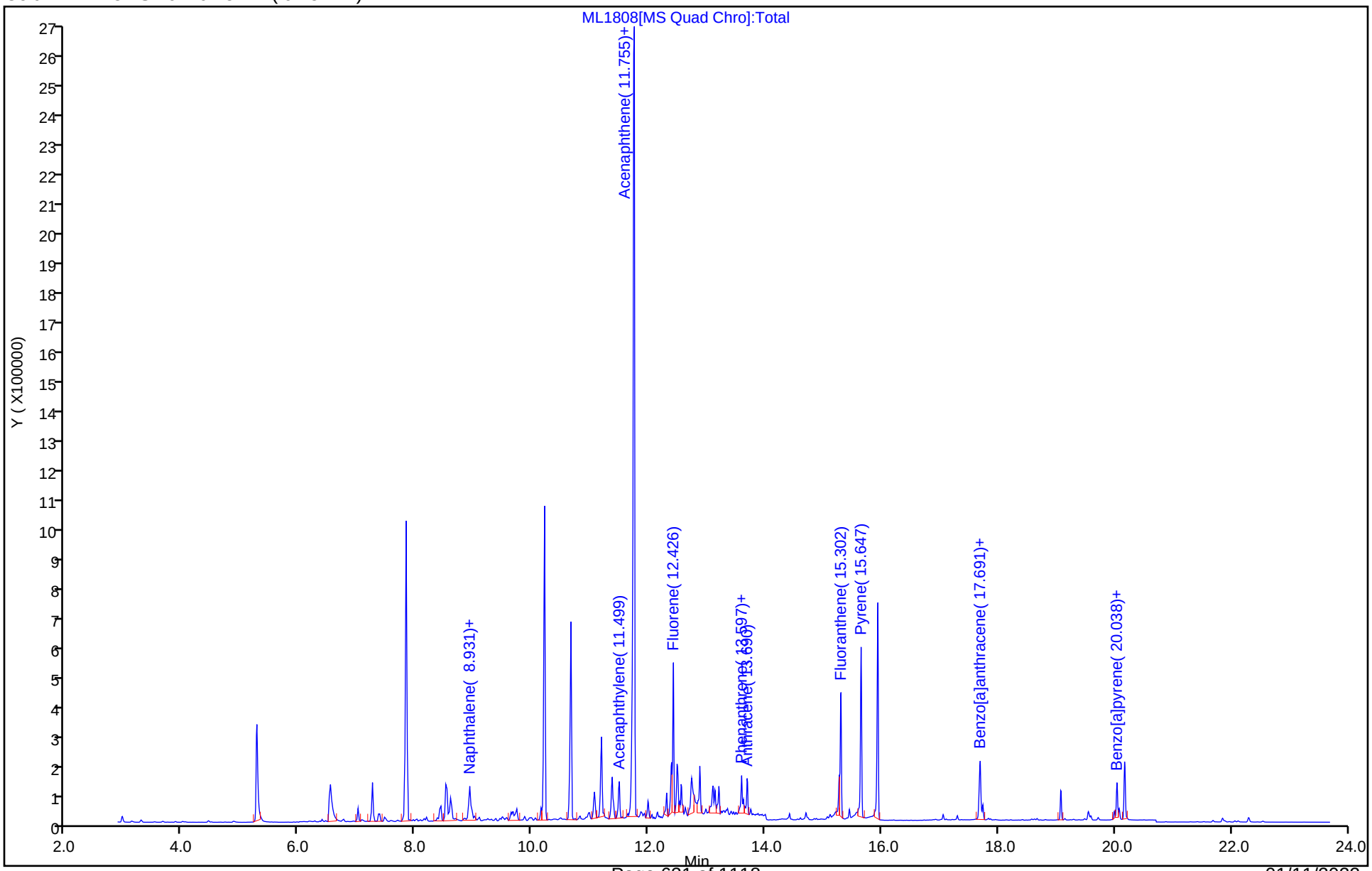
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1808.D

Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13	Worklist Smp#:	9
Client ID:	MW-11S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

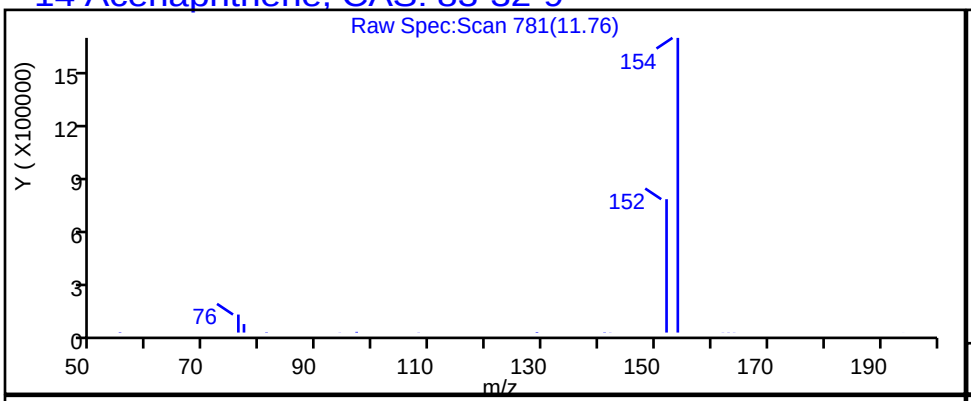
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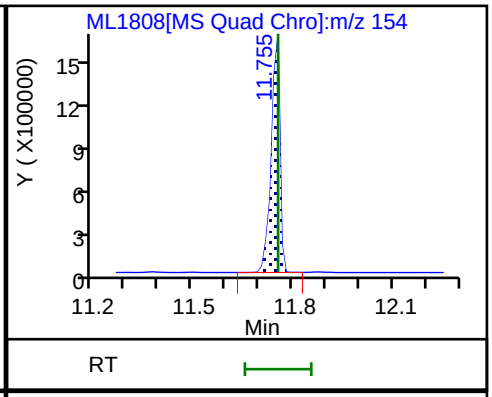


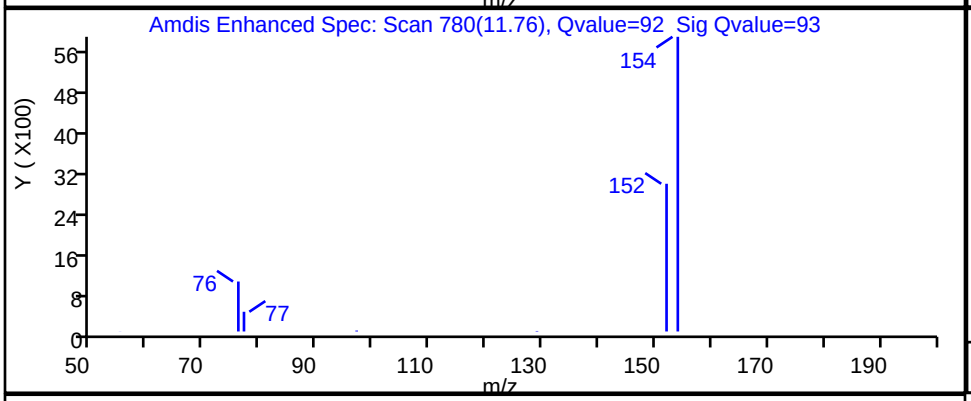
Eurofins Lancaster Laboratories Env, LLC

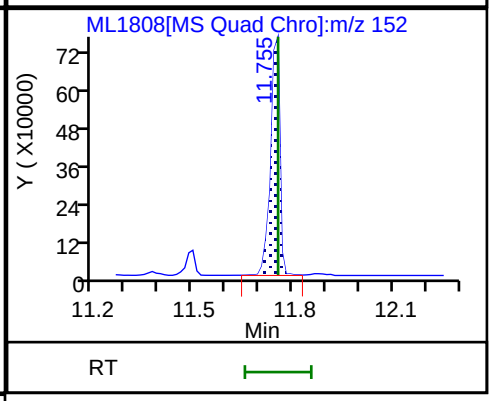
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13
Client ID:	MW-11S-20211221		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

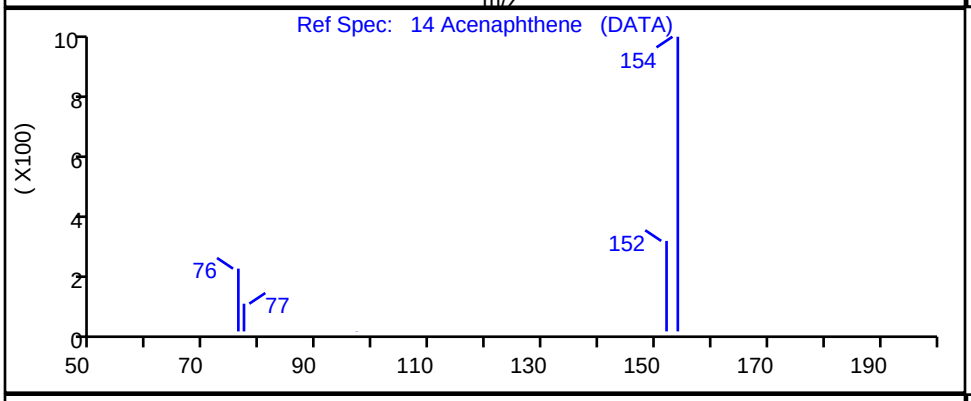
14 Acenaphthene, CAS: 83-32-9

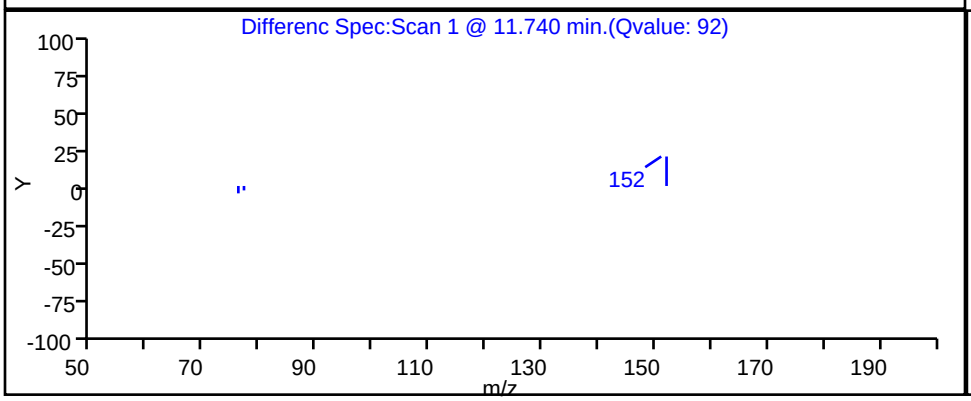


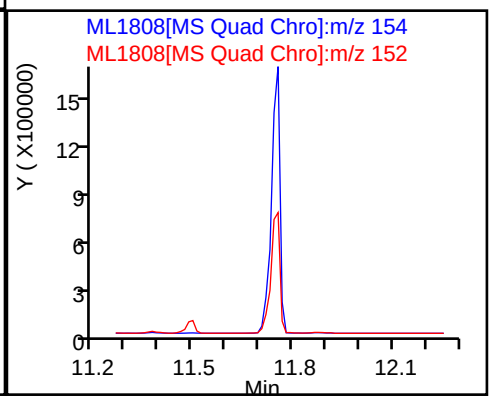








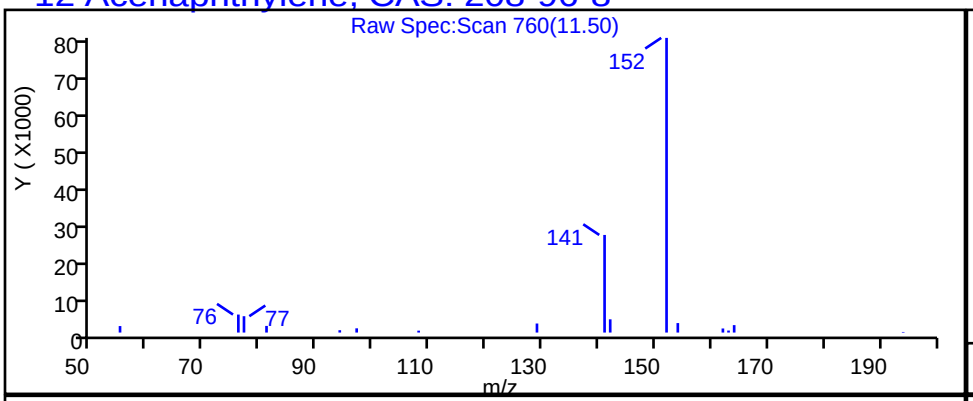


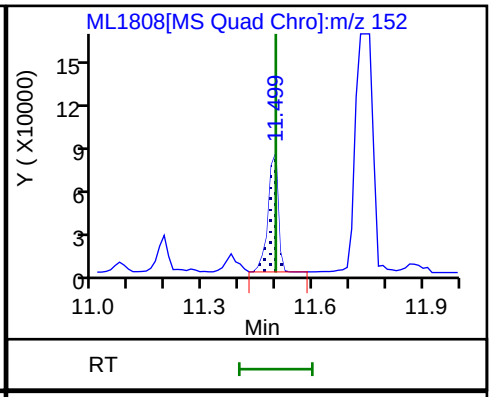


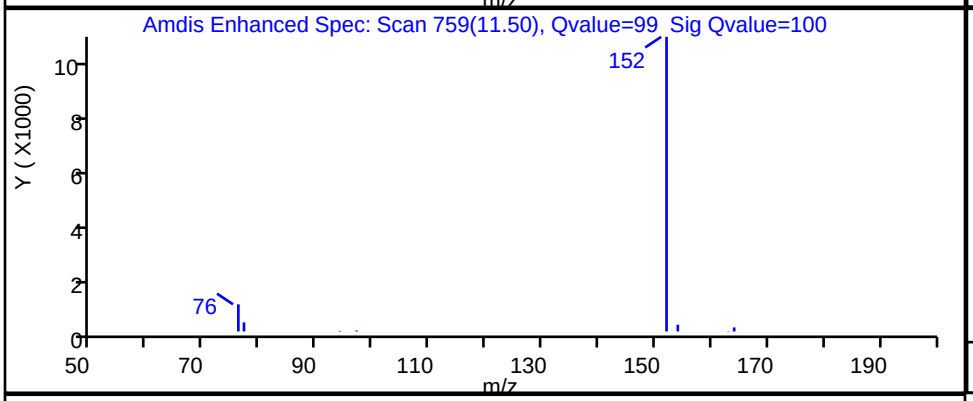
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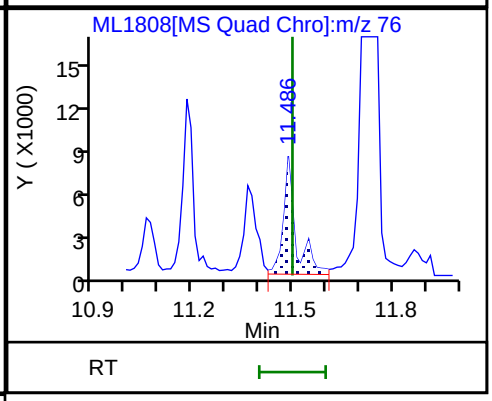
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13
Client ID:	MW-11S-20211221		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

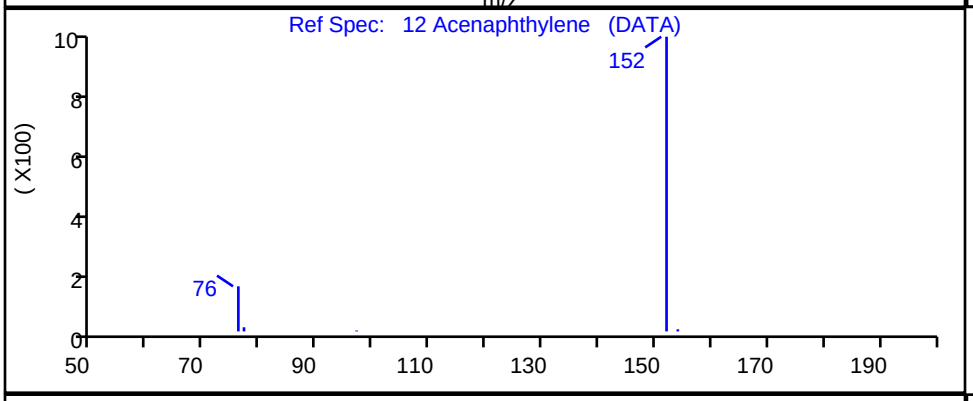
12 Acenaphthylene, CAS: 208-96-8

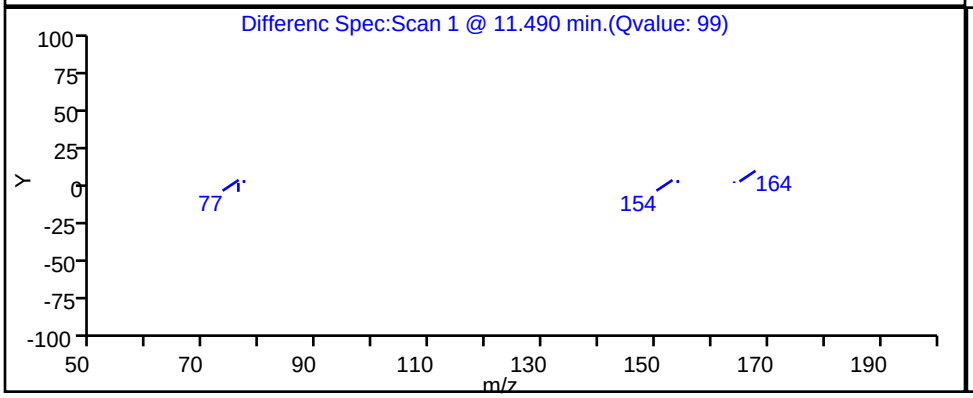


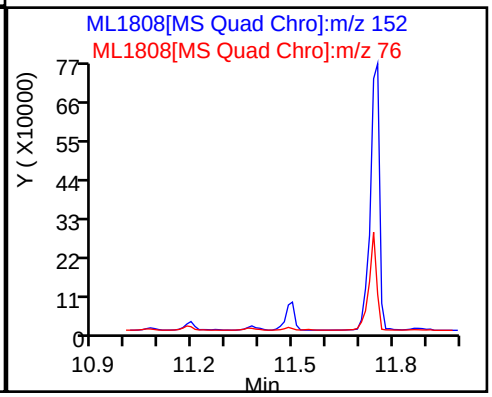








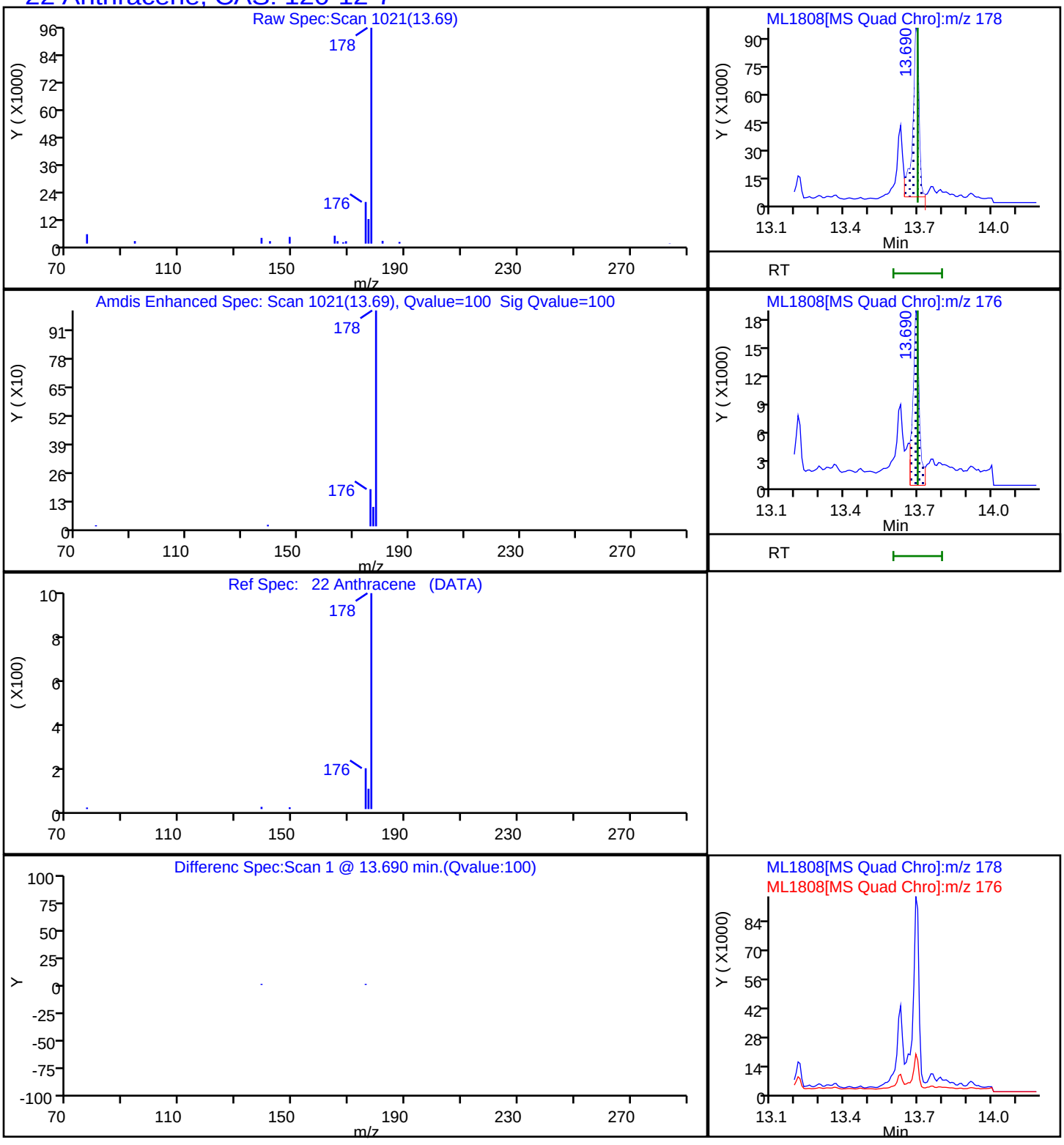




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1808.D		
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Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13
Client ID:	MW-11S-20211221		
Operator ID:	art12405	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

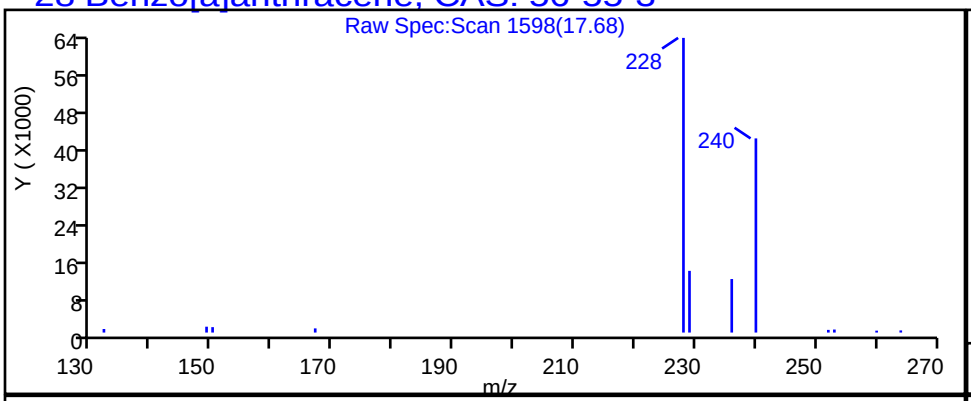
22 Anthracene, CAS: 120-12-7

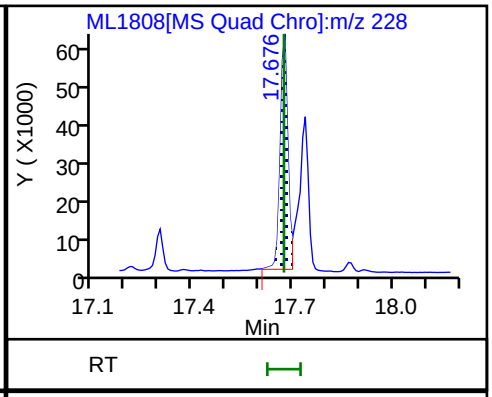


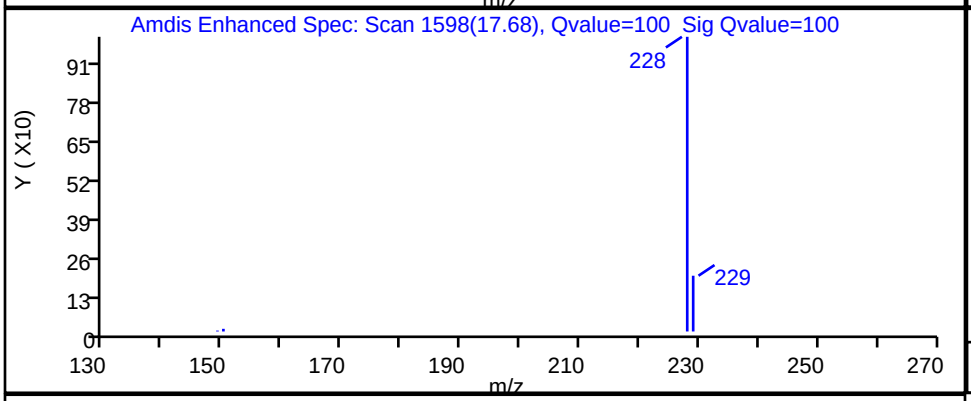
Eurofins Lancaster Laboratories Env, LLC

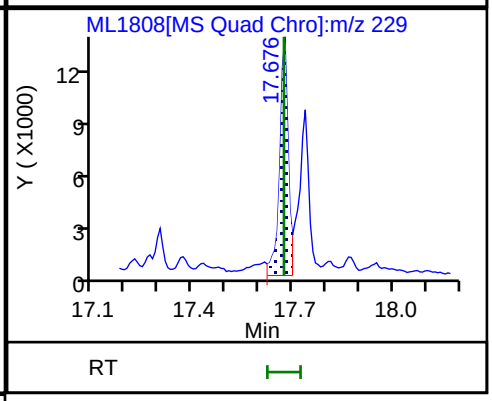
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Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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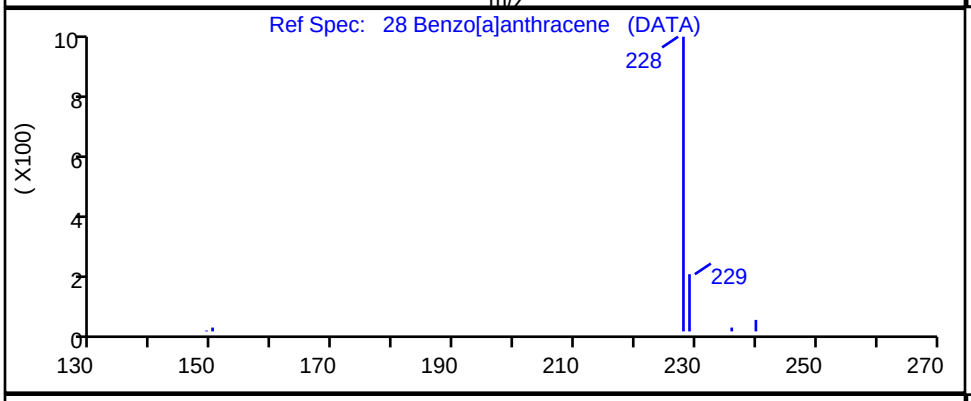
28 Benzo[a]anthracene, CAS: 56-55-3

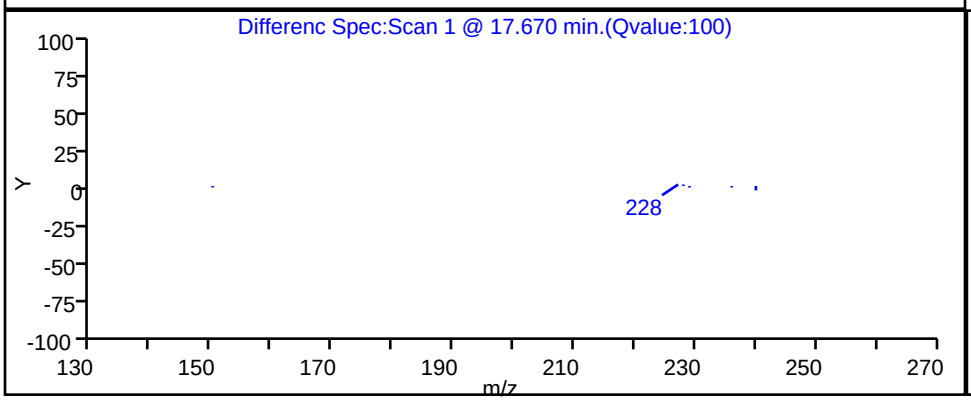


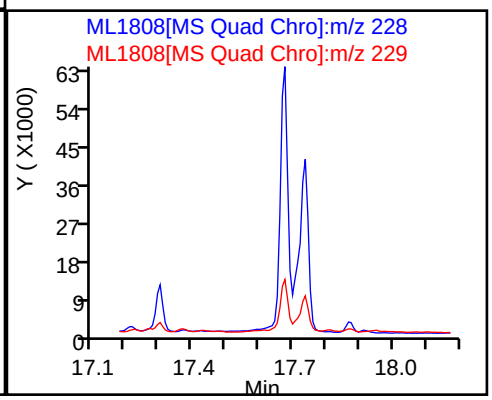








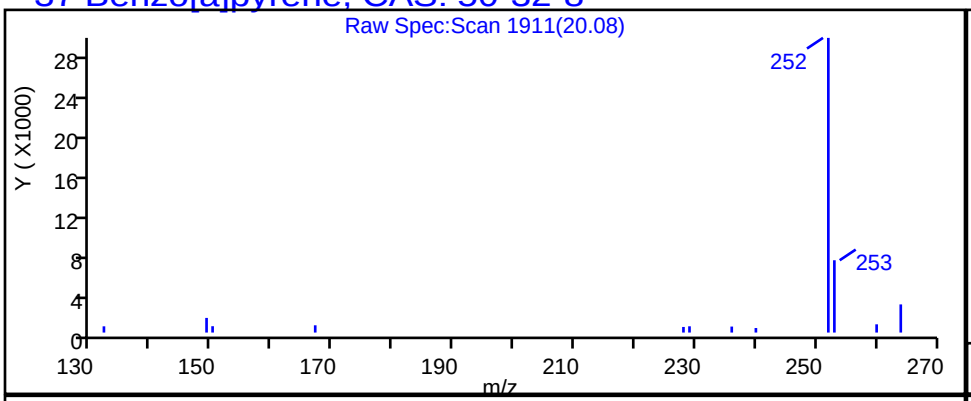


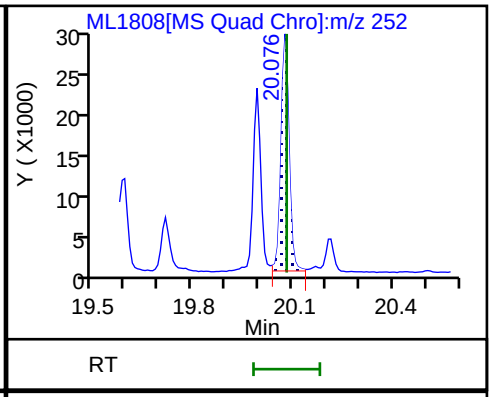


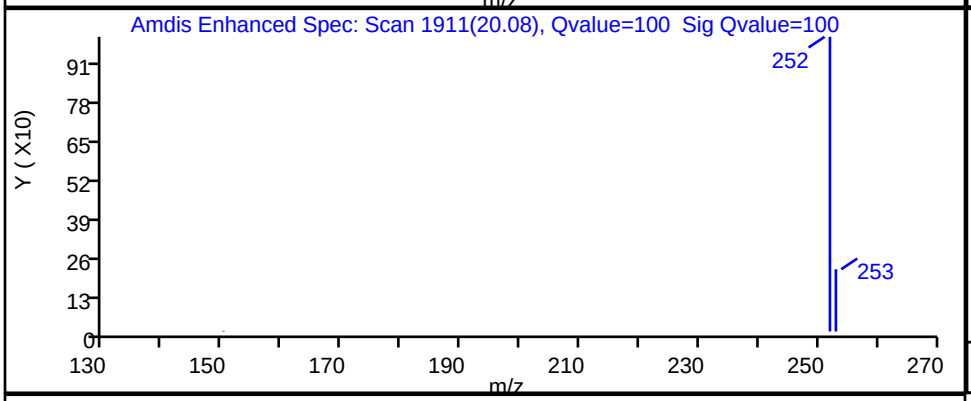
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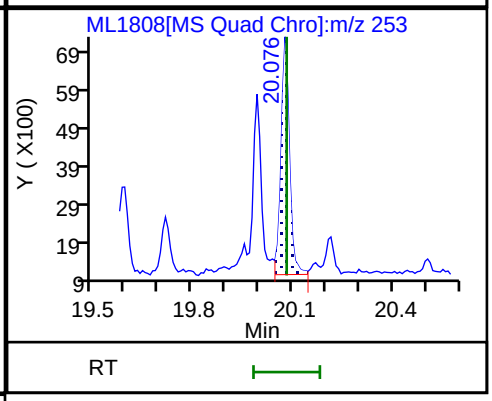
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Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

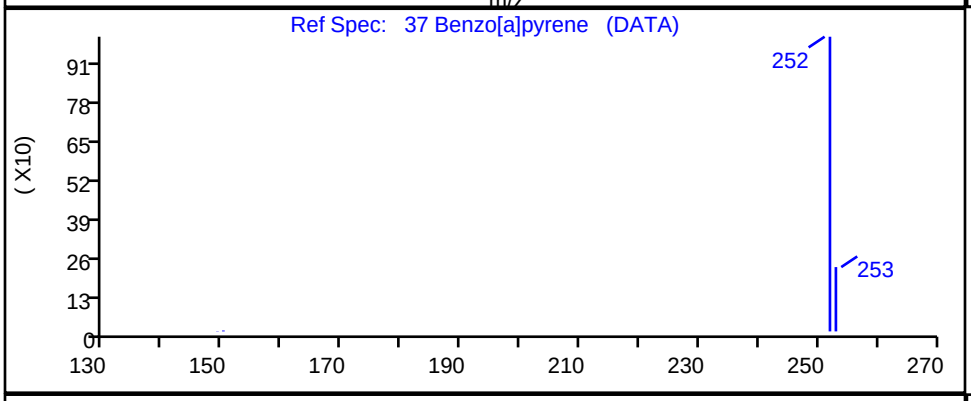
37 Benzo[a]pyrene, CAS: 50-32-8

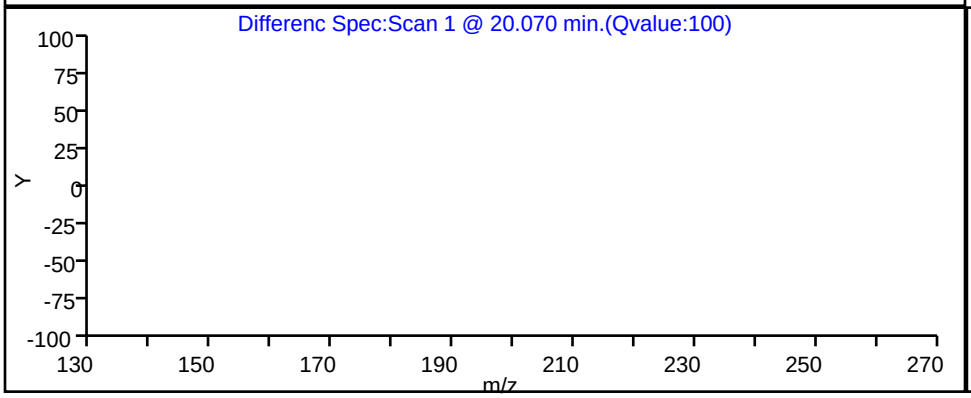


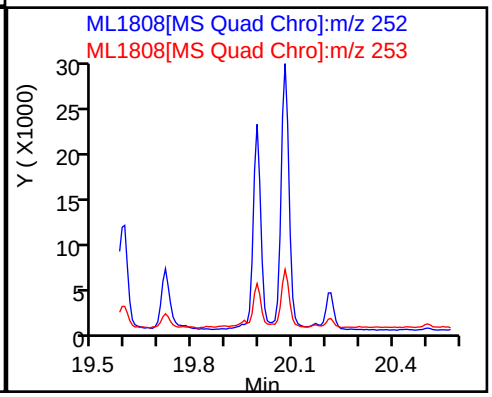








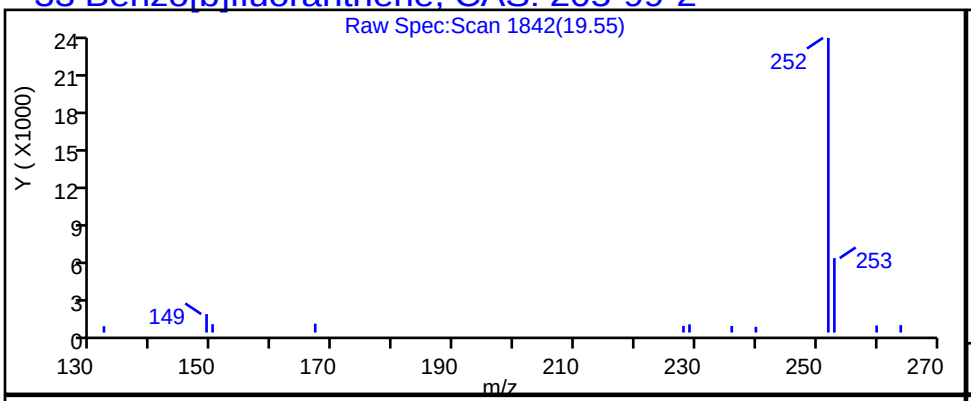


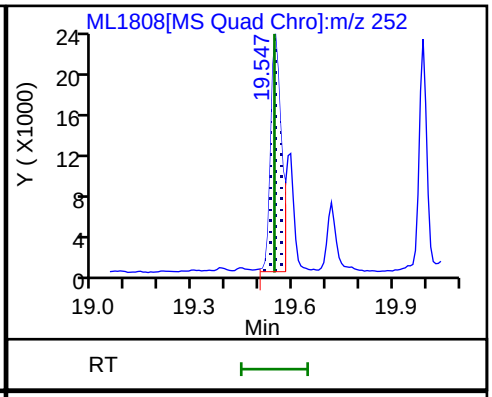


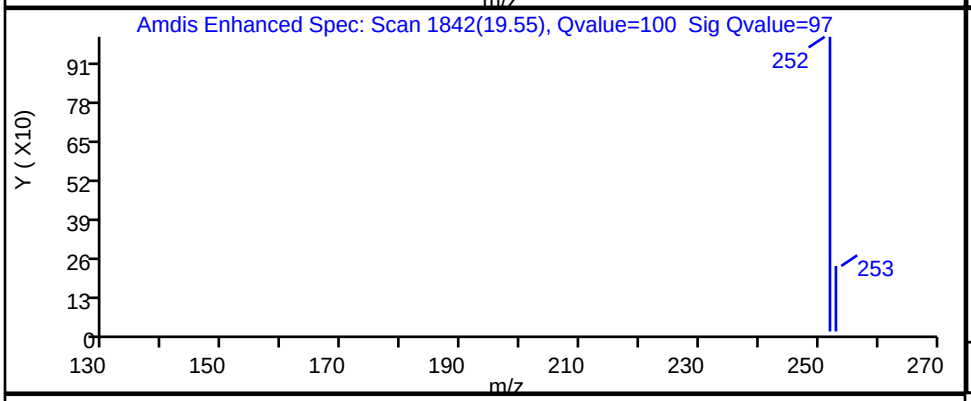
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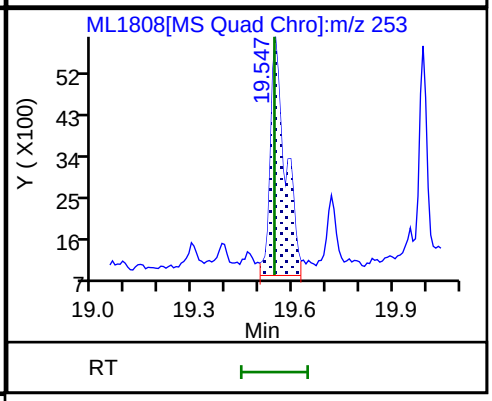
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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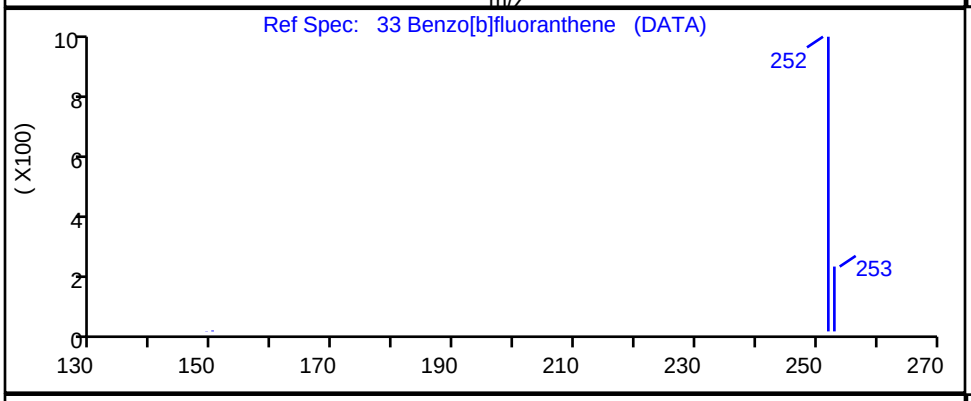
33 Benzo[b]fluoranthene, CAS: 205-99-2

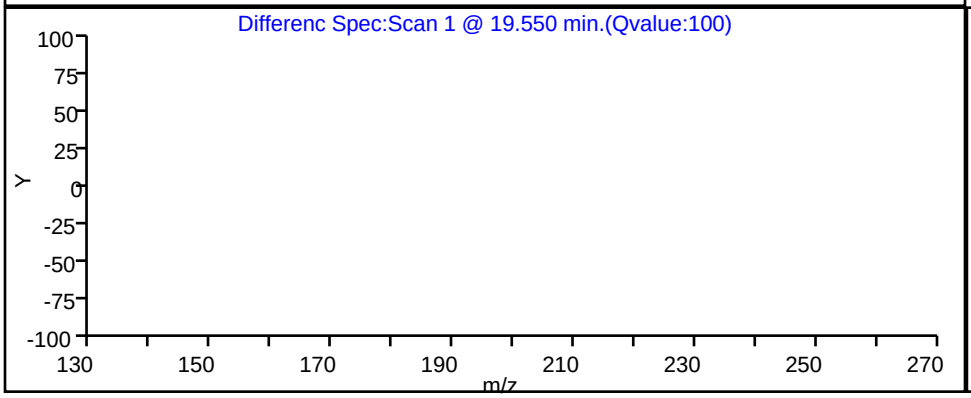


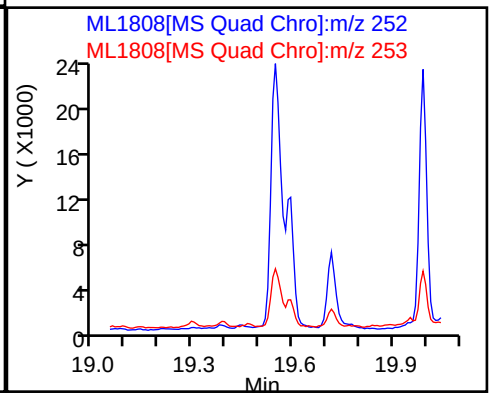












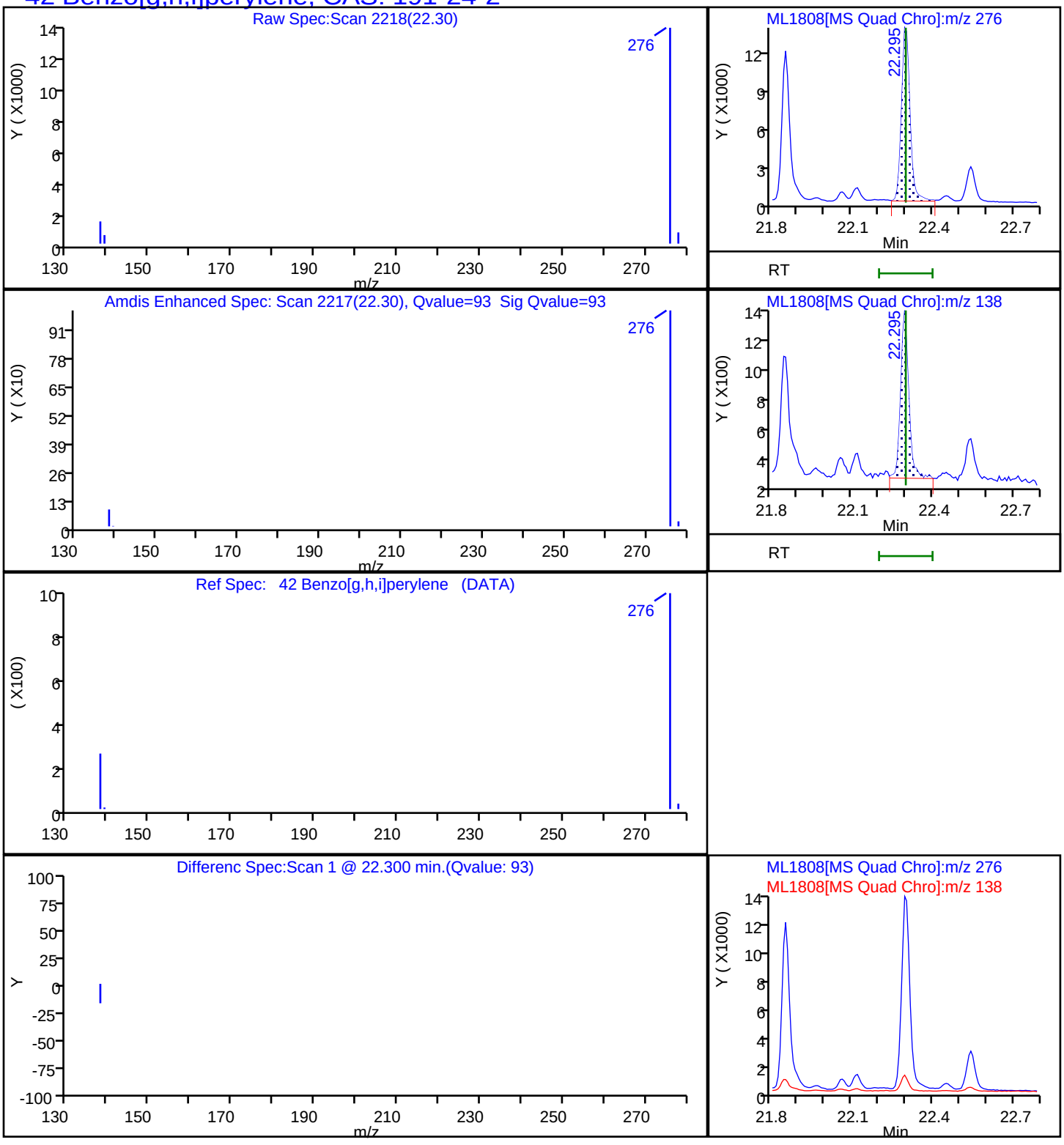
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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

42 Benzo[g,h,i]perylene, CAS: 191-24-2



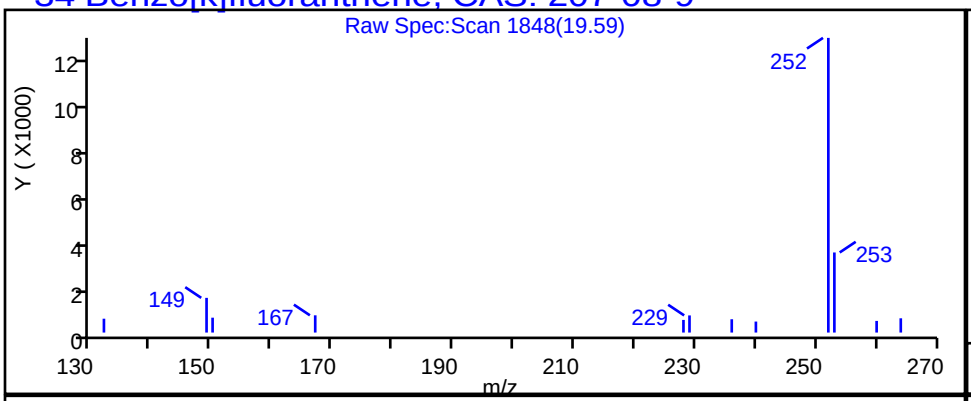
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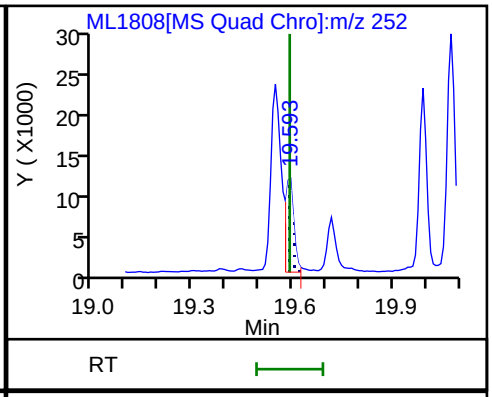
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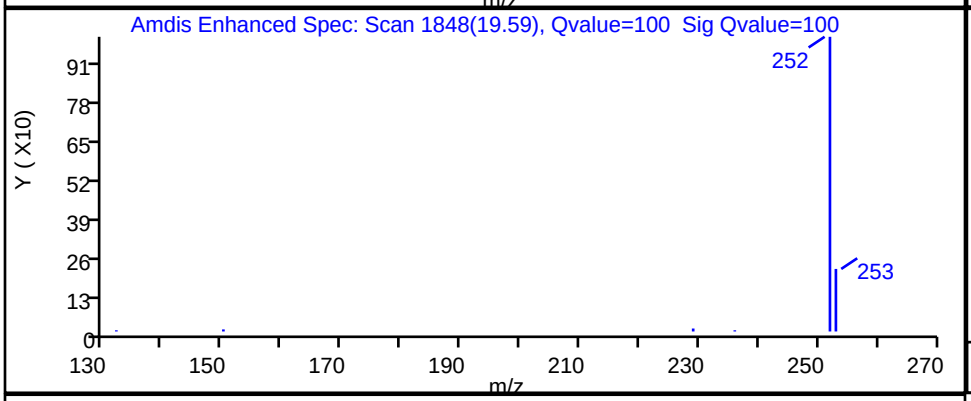
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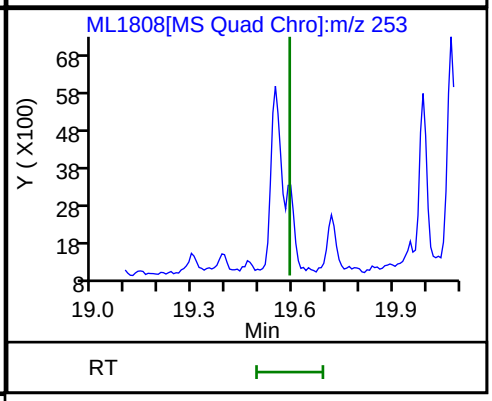
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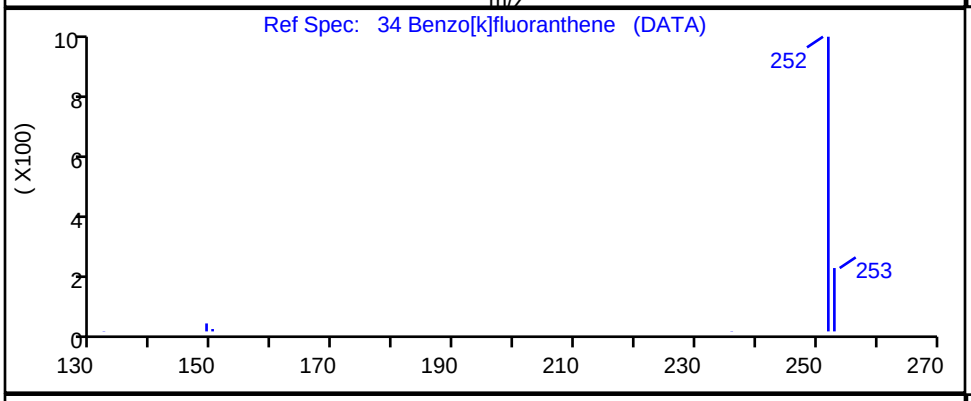
34 Benzo[k]fluoranthene, CAS: 207-08-9

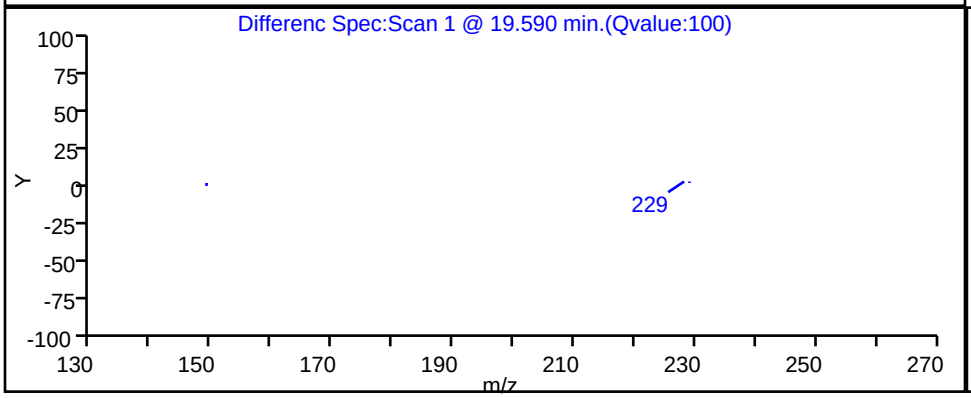


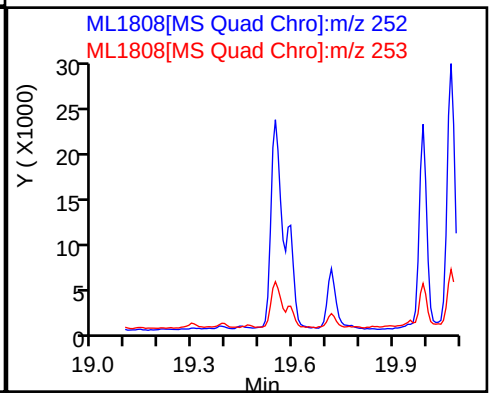








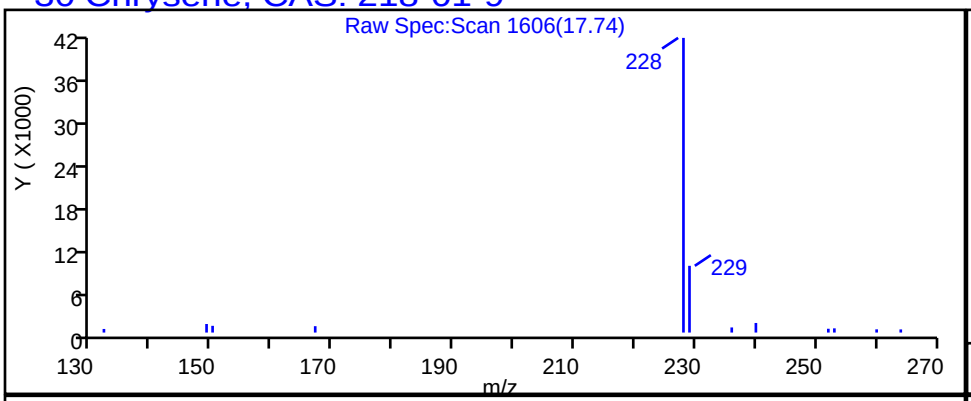


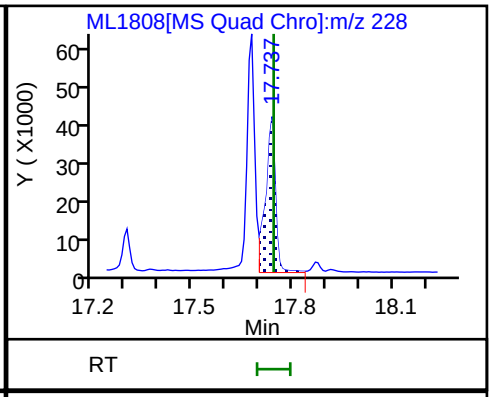


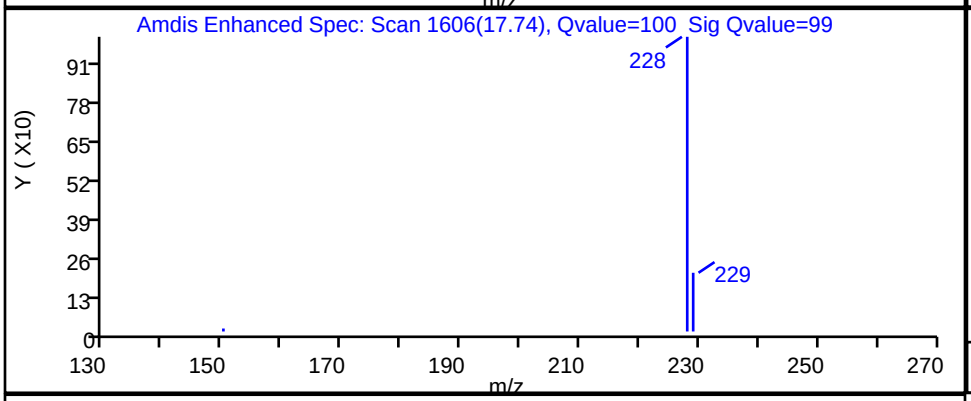
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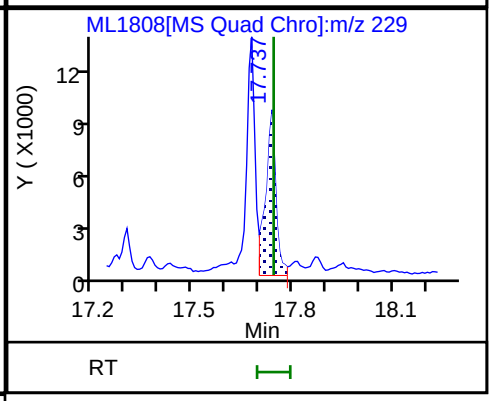
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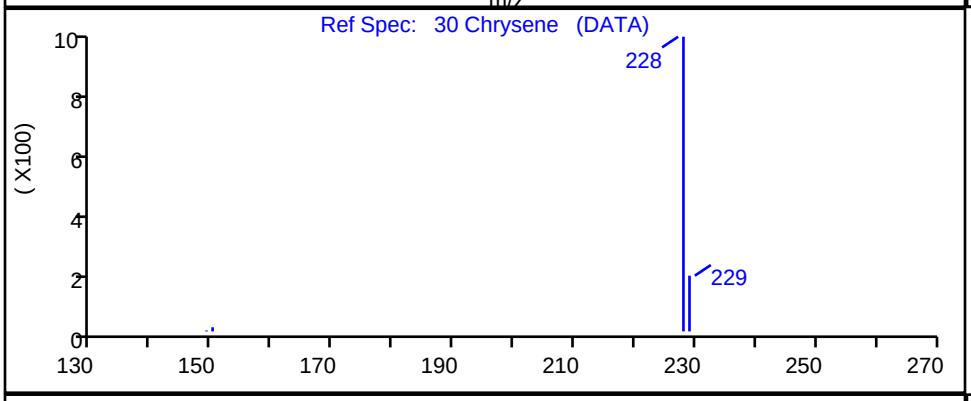
30 Chrysene, CAS: 218-01-9

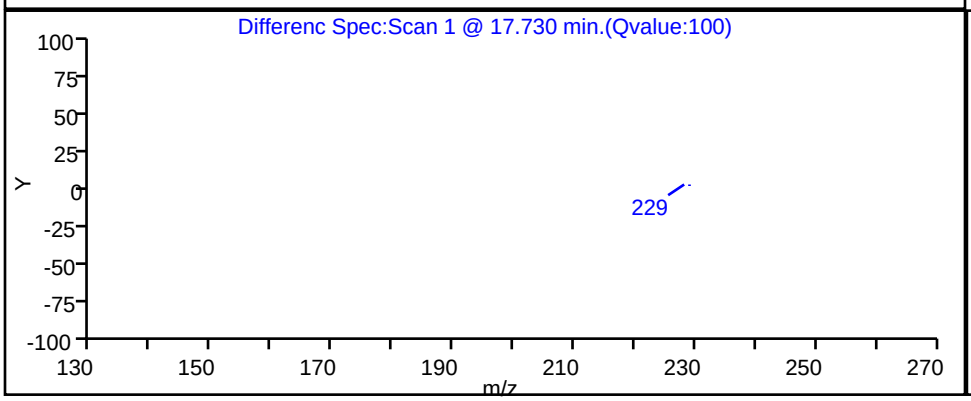


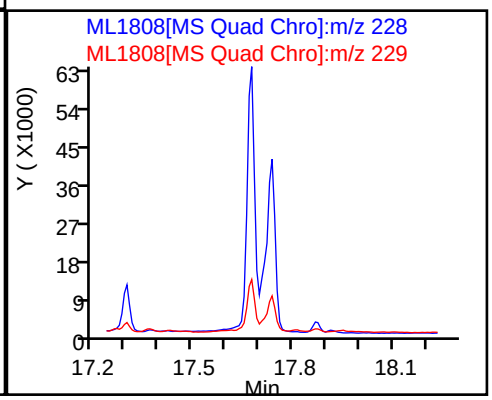












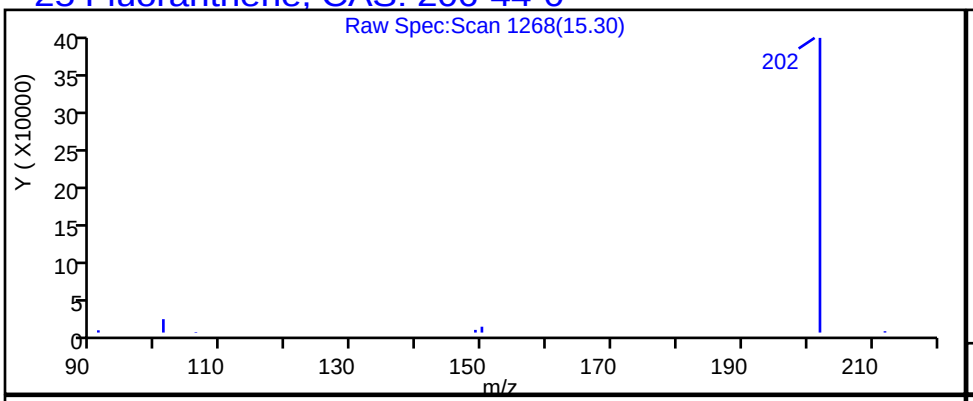
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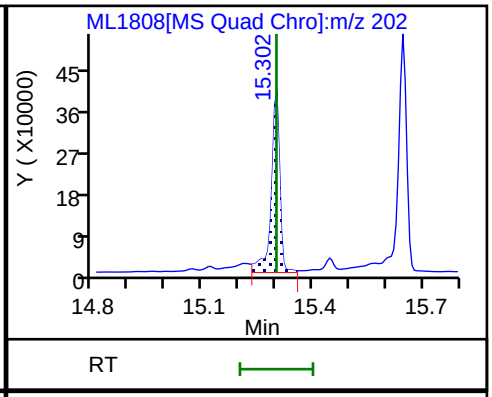
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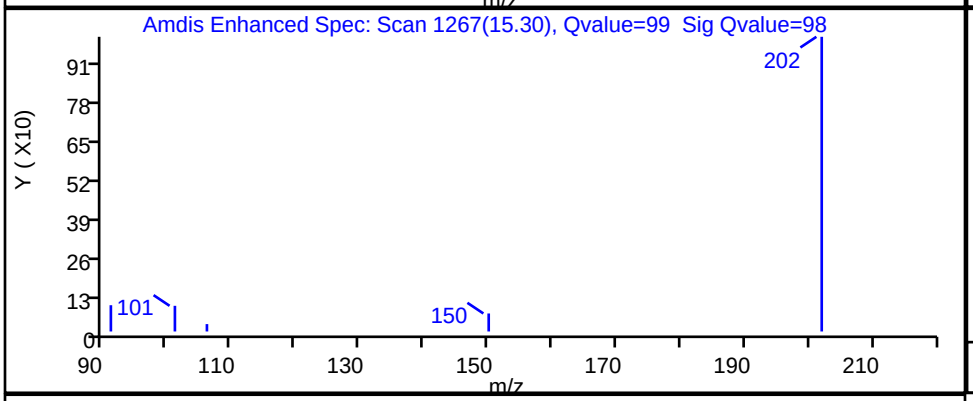
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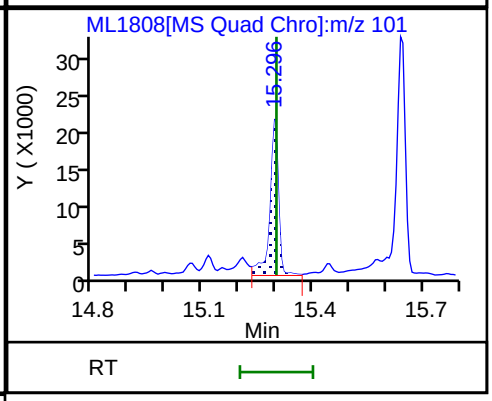
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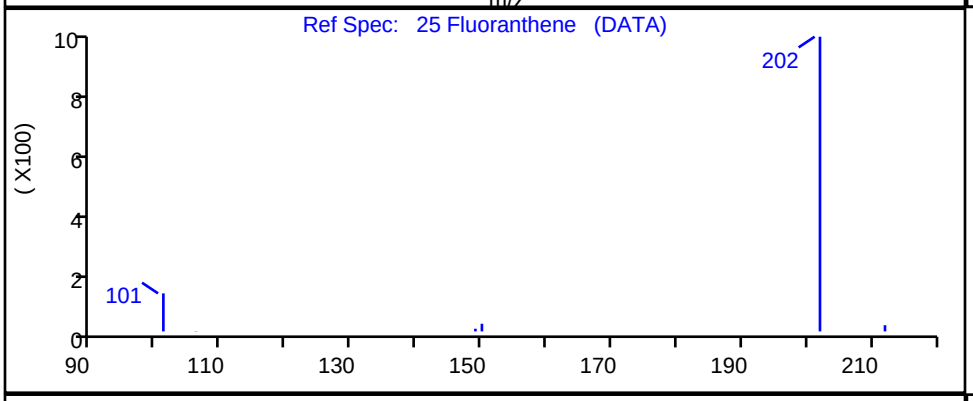
25 Fluoranthene, CAS: 206-44-0

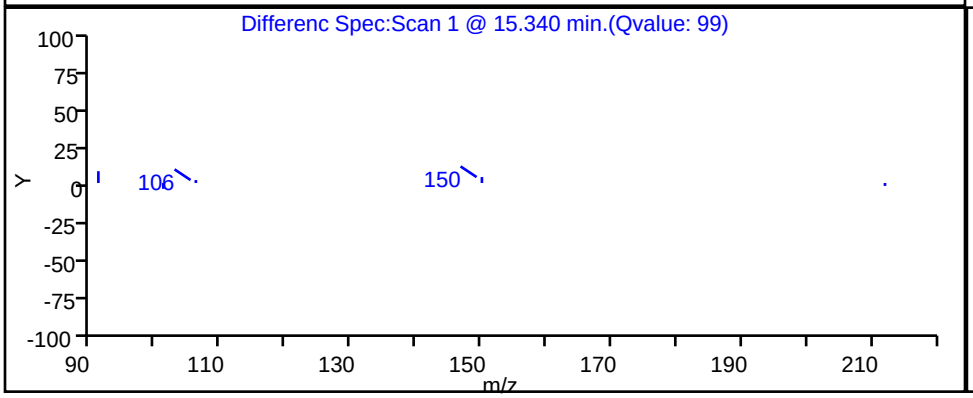


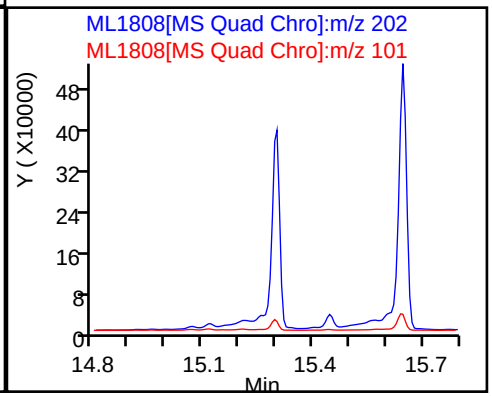












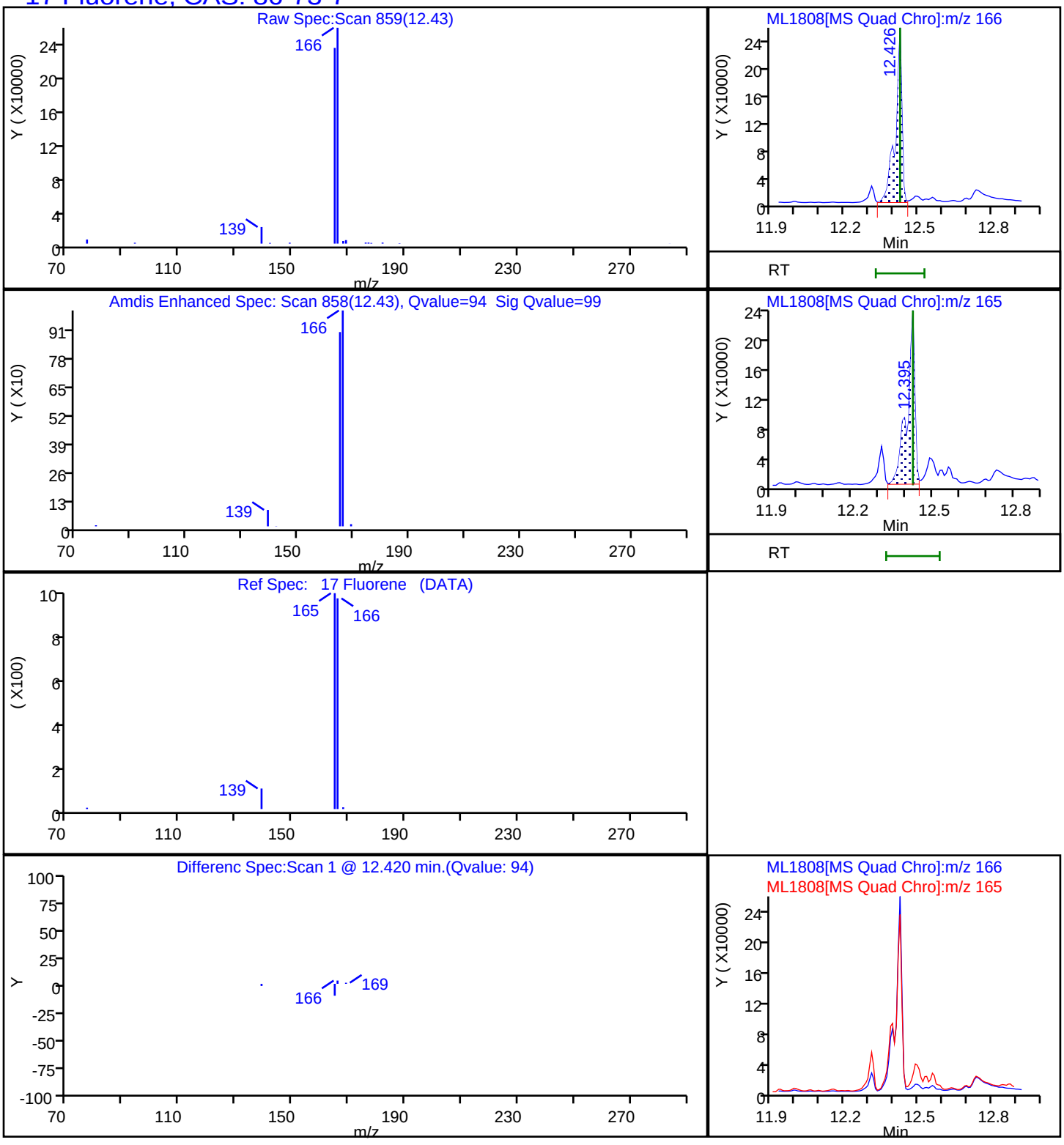
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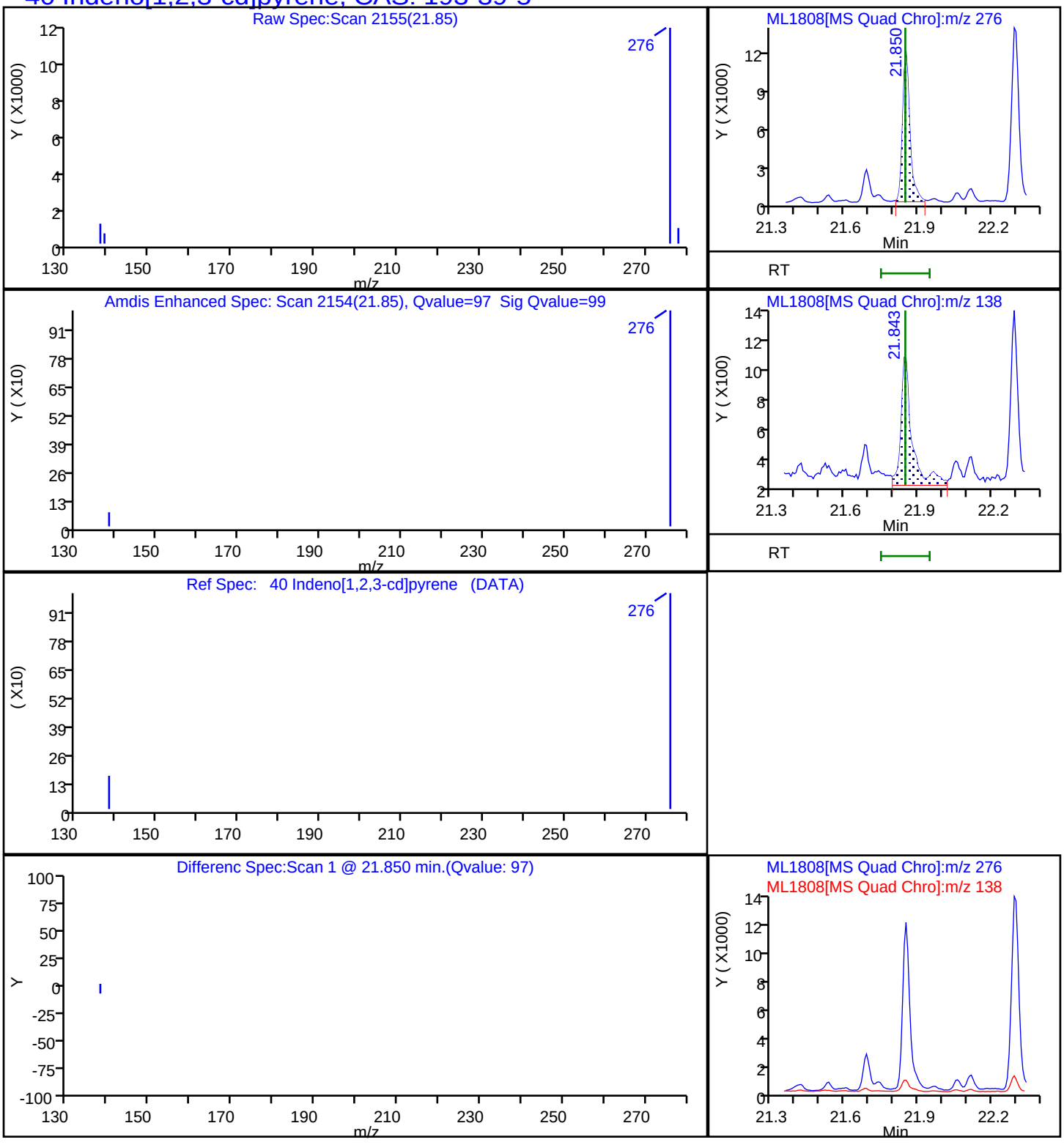
17 Fluorene, CAS: 86-73-7



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Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1808.D				
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
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40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



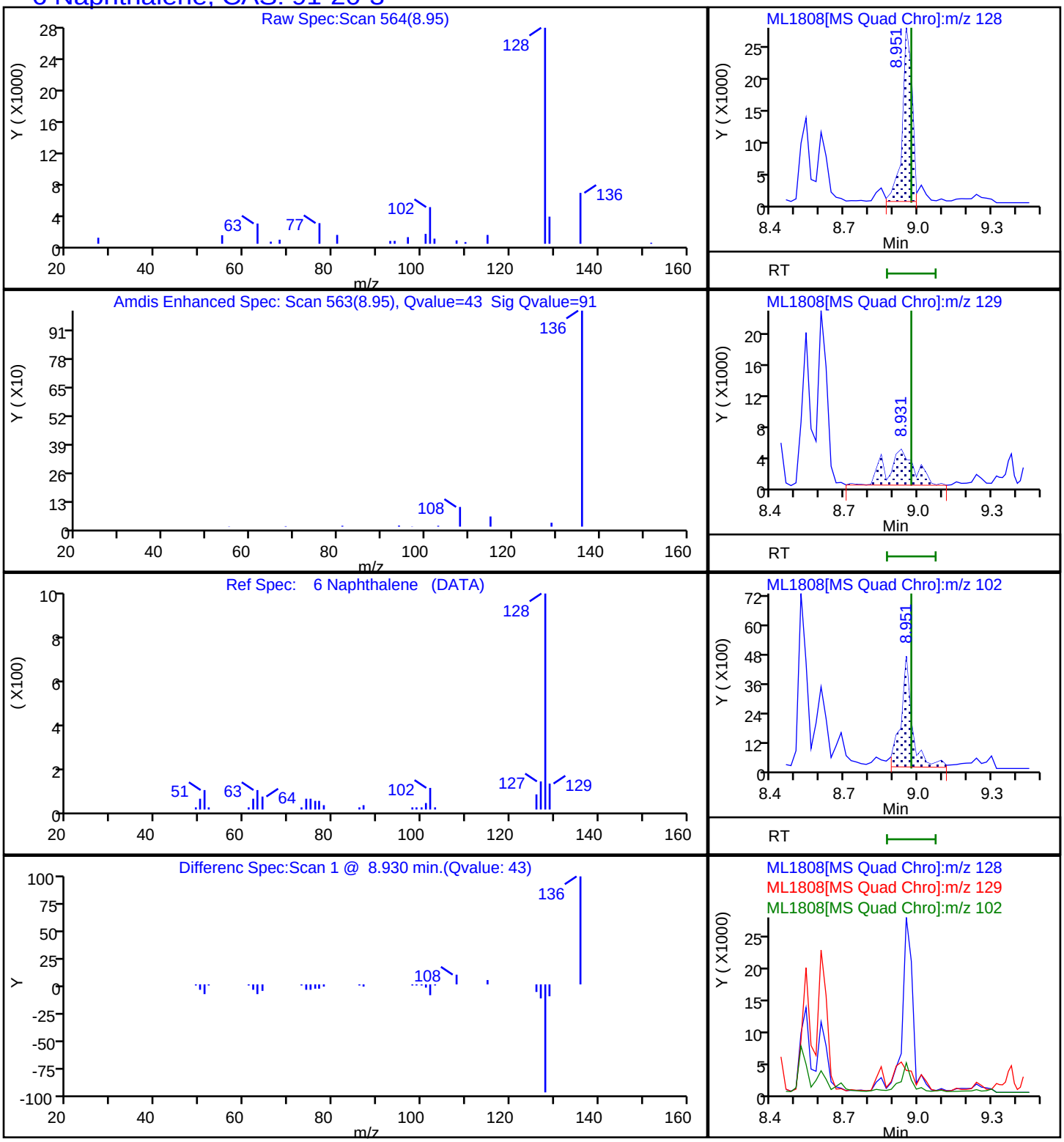
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Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

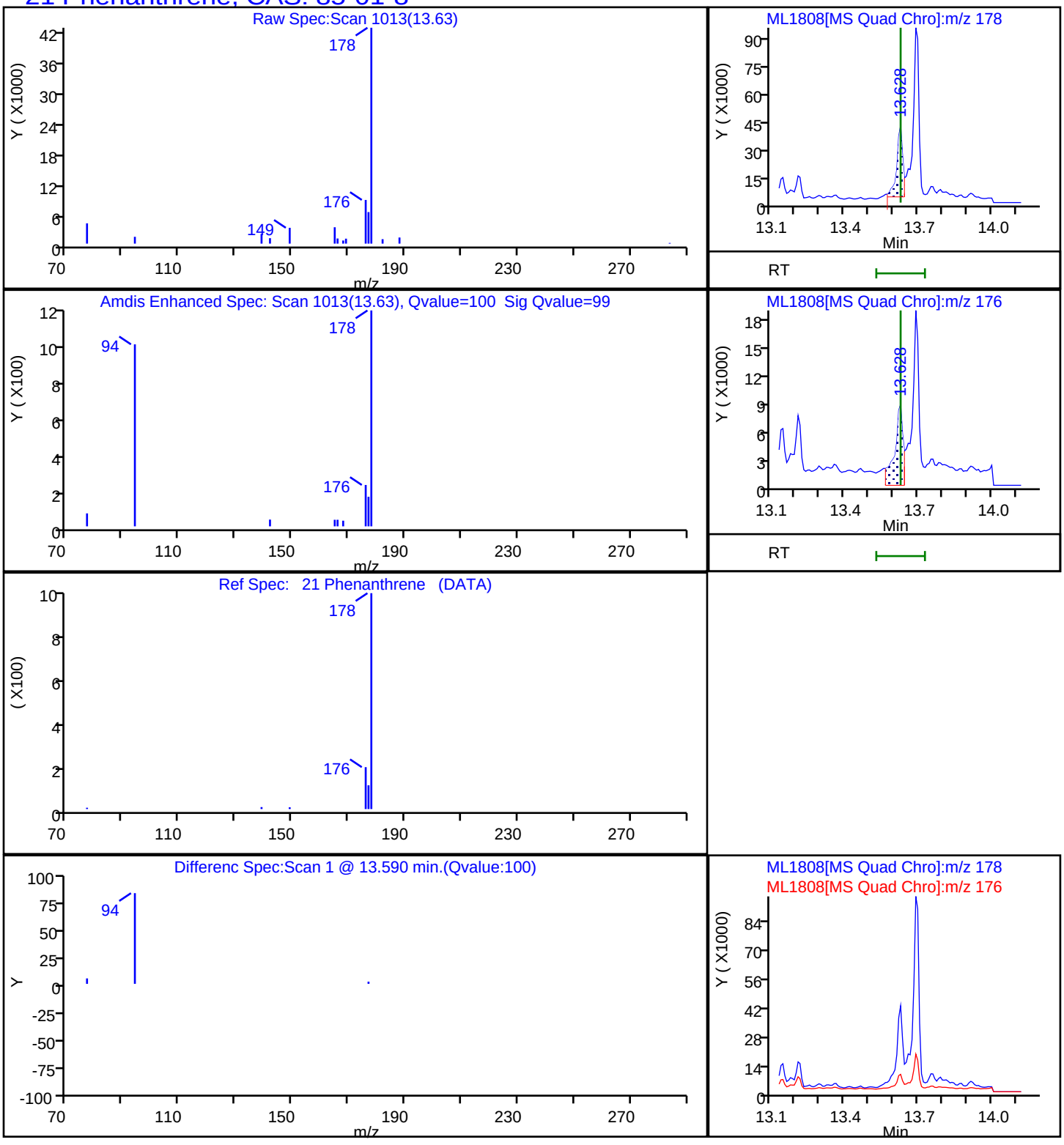
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1808.D		
Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13
Client ID:	MW-11S-20211221		
Operator ID:	art12405	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

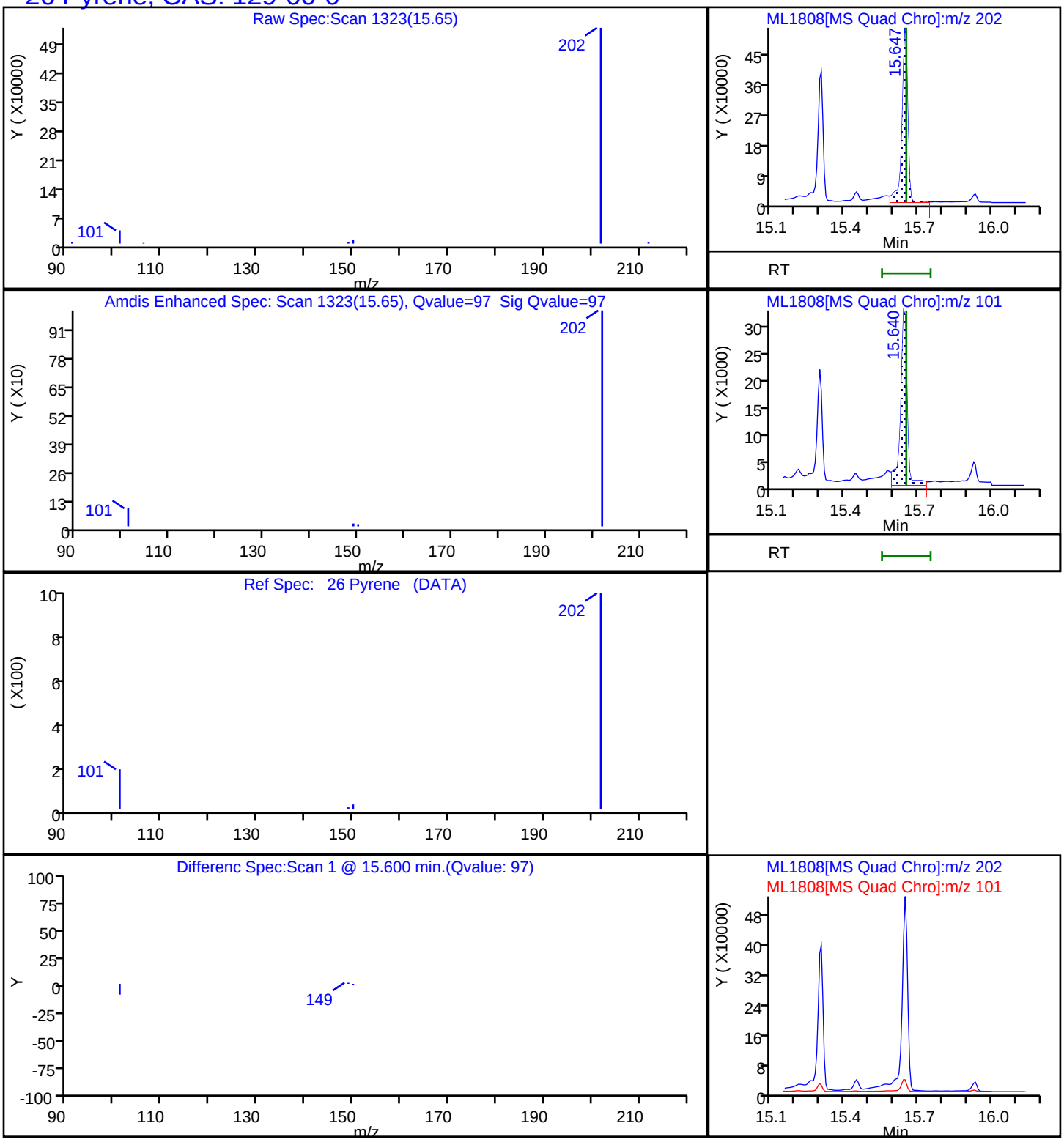
21 Phenanthrene, CAS: 85-01-8



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1808.D				
Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

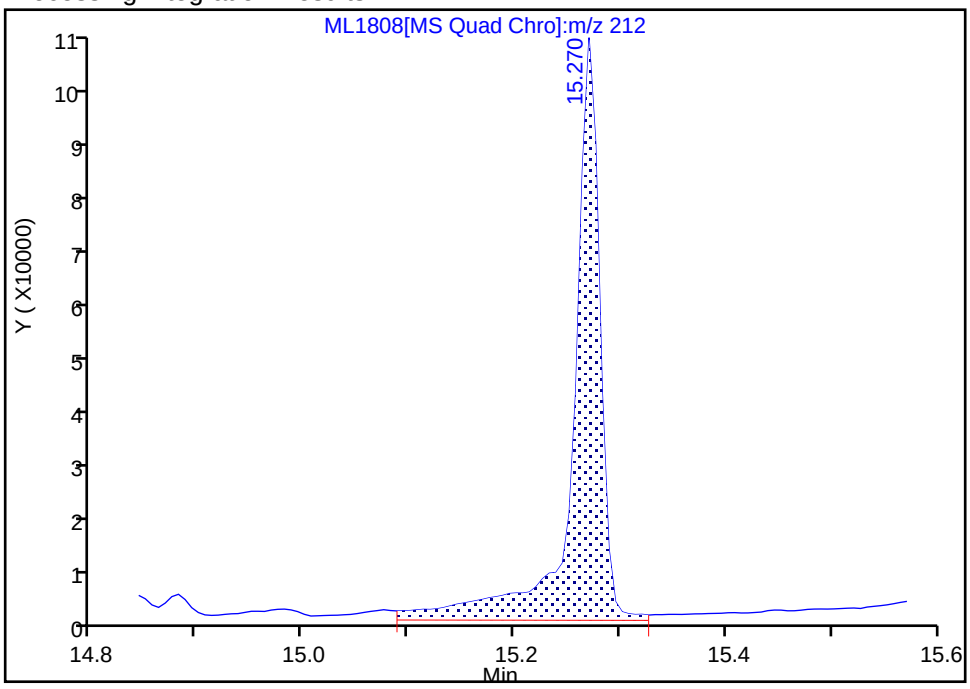
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Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

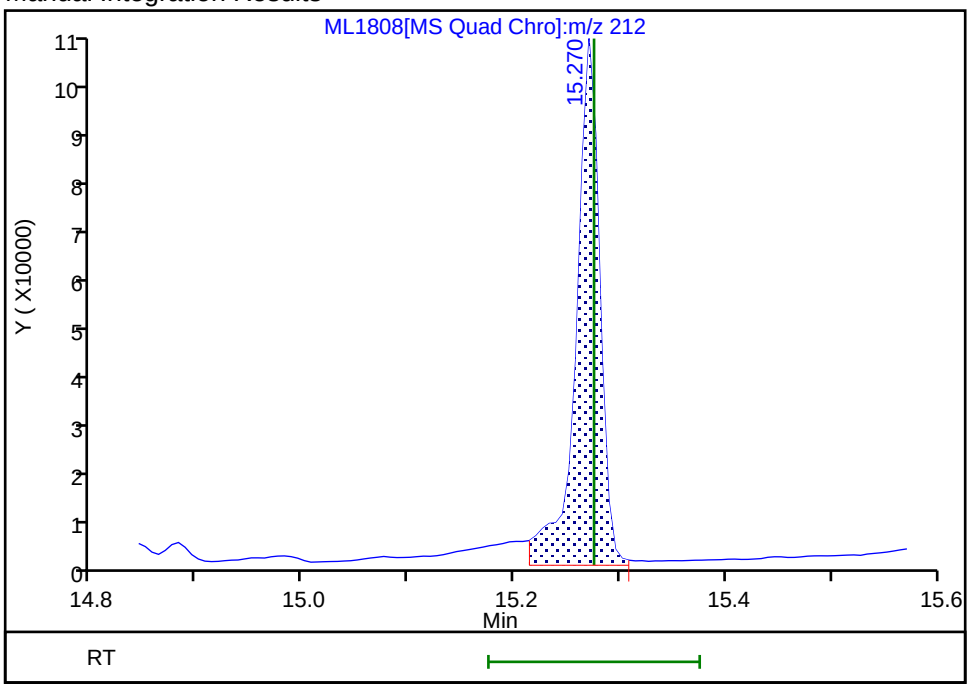
Processing Integration Results

RT: 15.27
Area: 191385
Amount: 0.219682
Amount Units: ug/ml



Manual Integration Results

RT: 15.27
Area: 165354
Amount: 0.189802
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:10:42

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

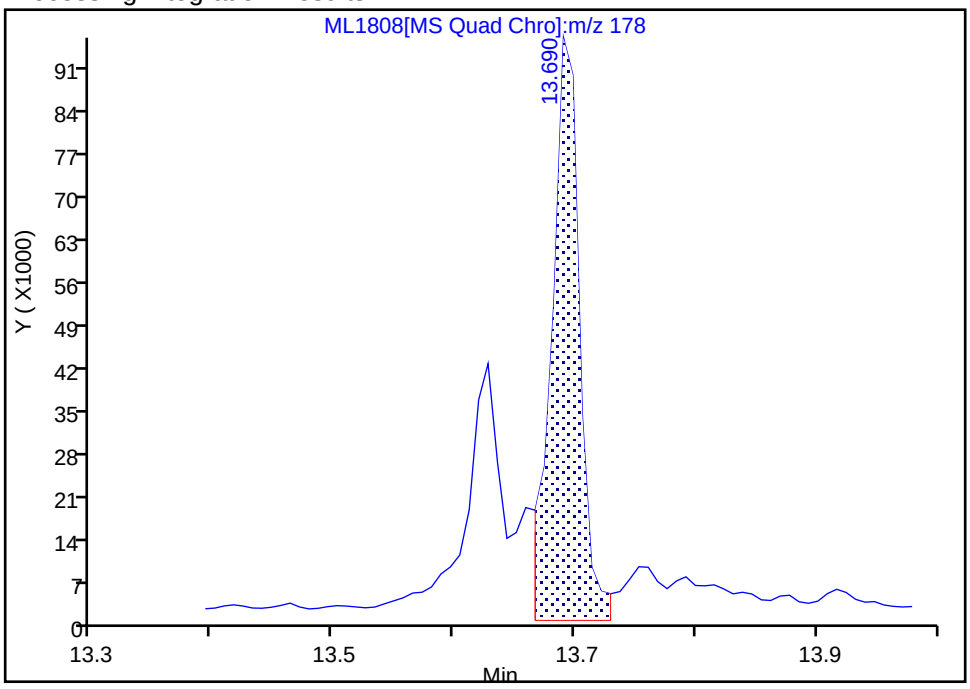
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

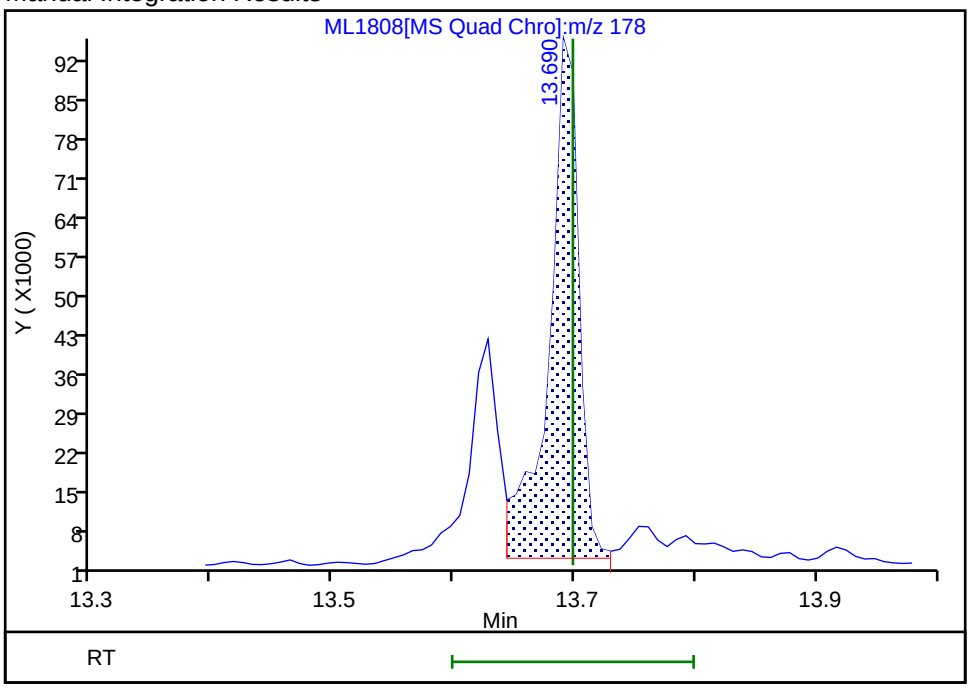
Processing Integration Results

RT: 13.69
Area: 151190
Amount: 0.183125
Amount Units: ug/ml



Manual Integration Results

RT: 13.69
Area: 157907
Amount: 0.191261
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:10:29

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

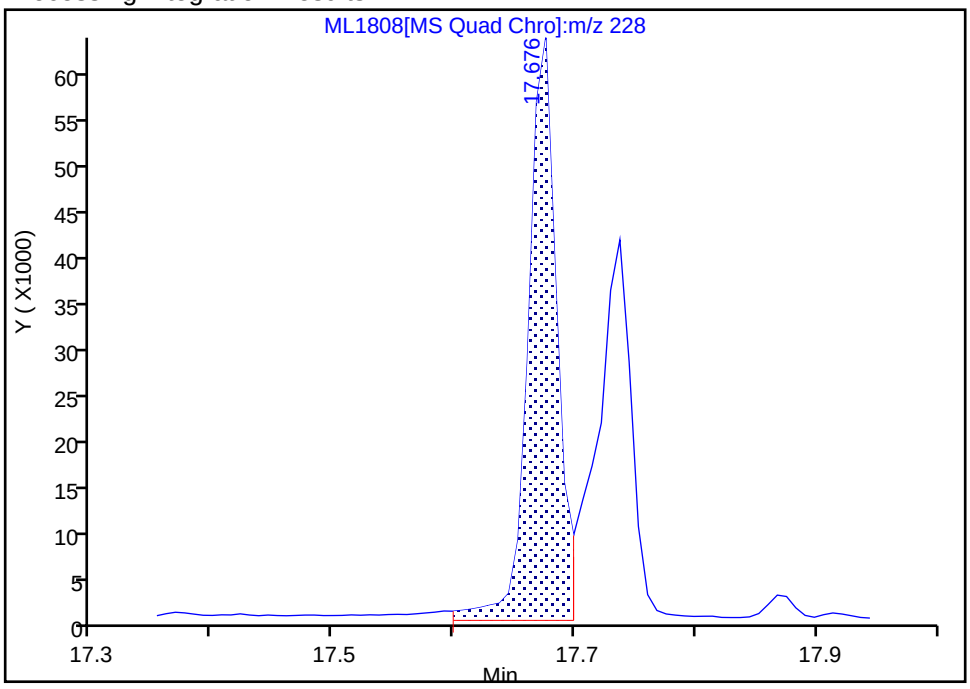
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

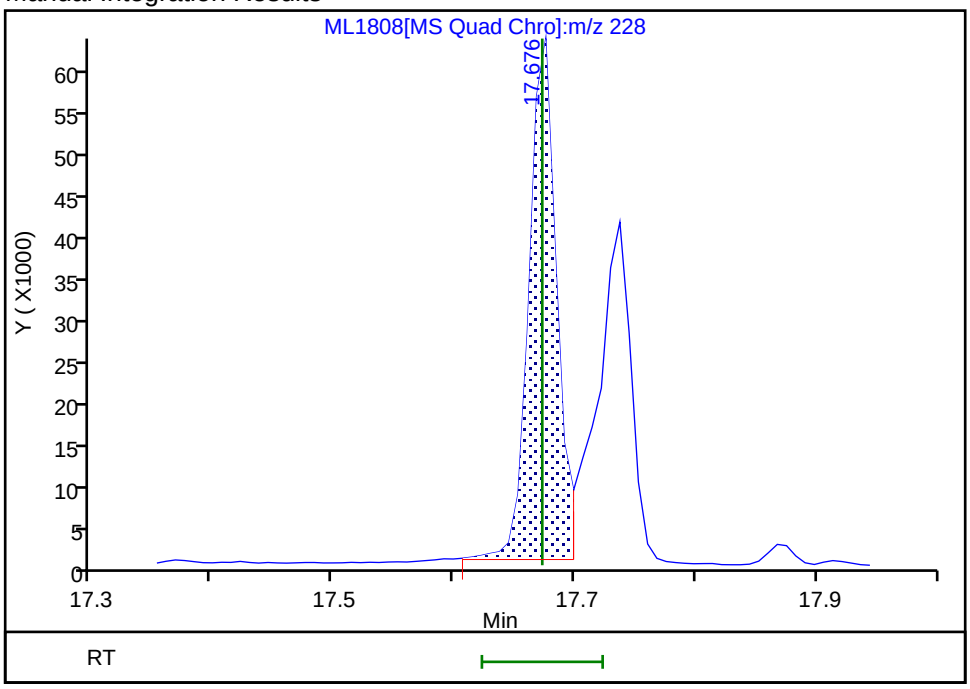
Processing Integration Results

RT: 17.68
Area: 102873
Amount: 0.095907
Amount Units: ug/ml



Manual Integration Results

RT: 17.68
Area: 97278
Amount: 0.090691
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:10:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

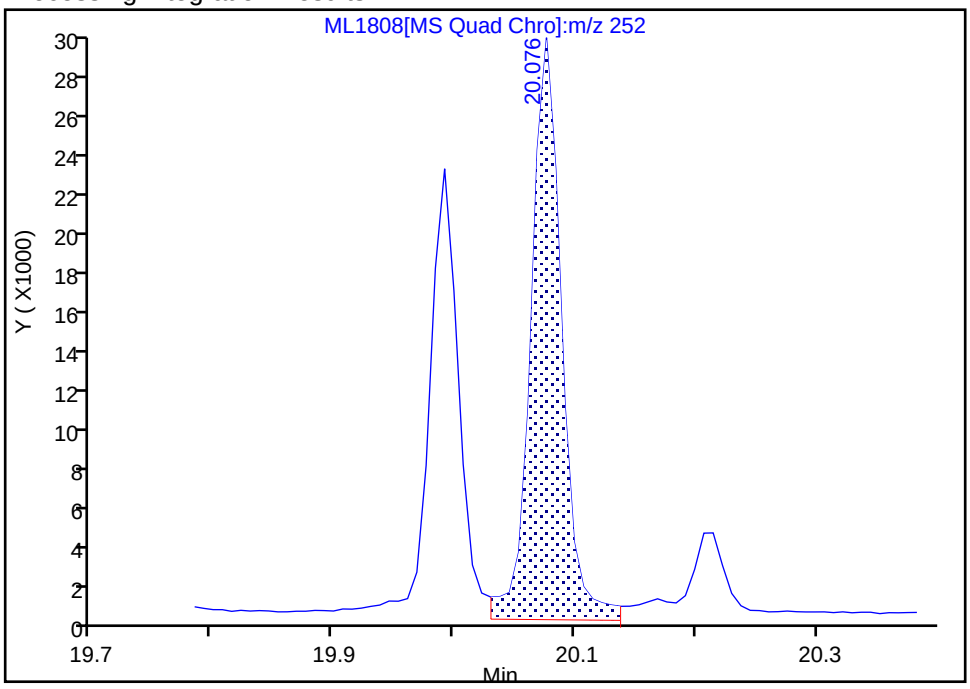
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

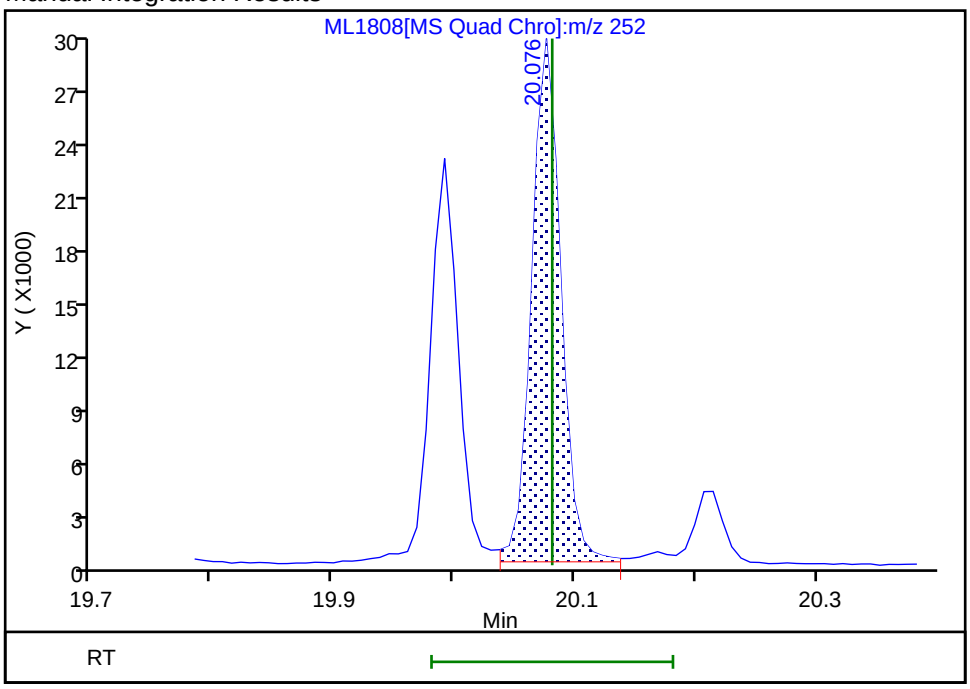
Processing Integration Results

RT: 20.08
Area: 51558
Amount: 0.042888
Amount Units: ug/ml



Manual Integration Results

RT: 20.08
Area: 48064
Amount: 0.043095
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:11:40

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

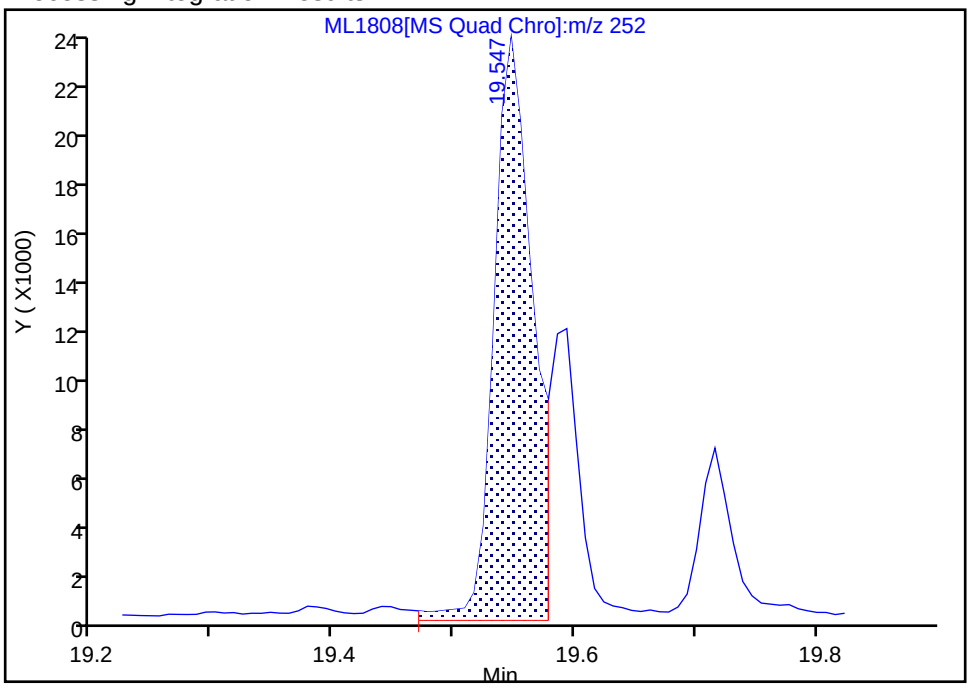
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

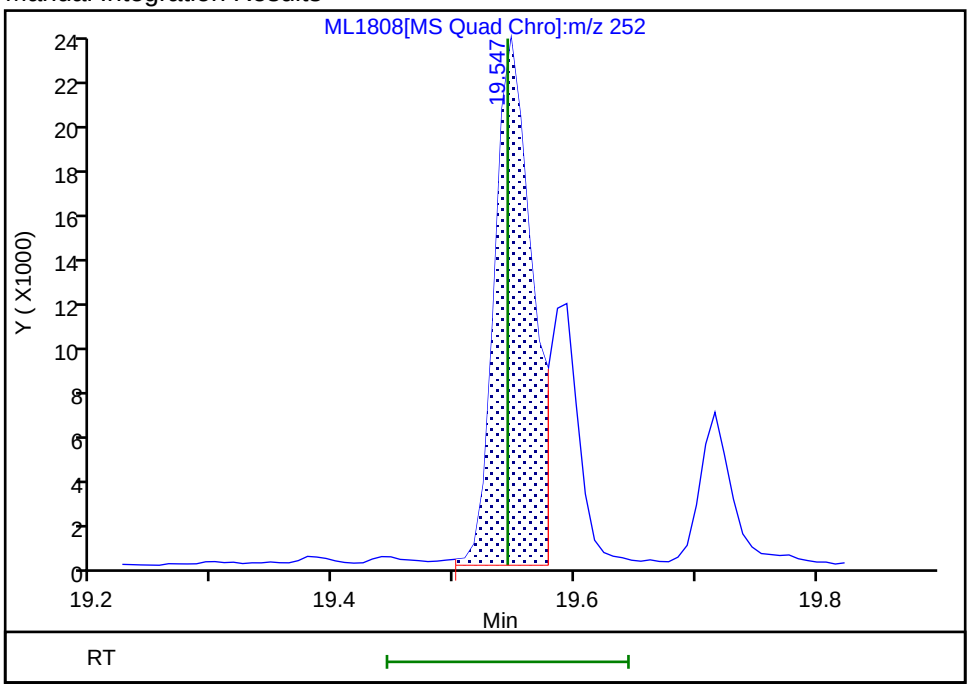
Processing Integration Results

RT: 19.55
Area: 50089
Amount: 0.039758
Amount Units: ug/ml



Manual Integration Results

RT: 19.55
Area: 48586
Amount: 0.041567
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:11:07

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

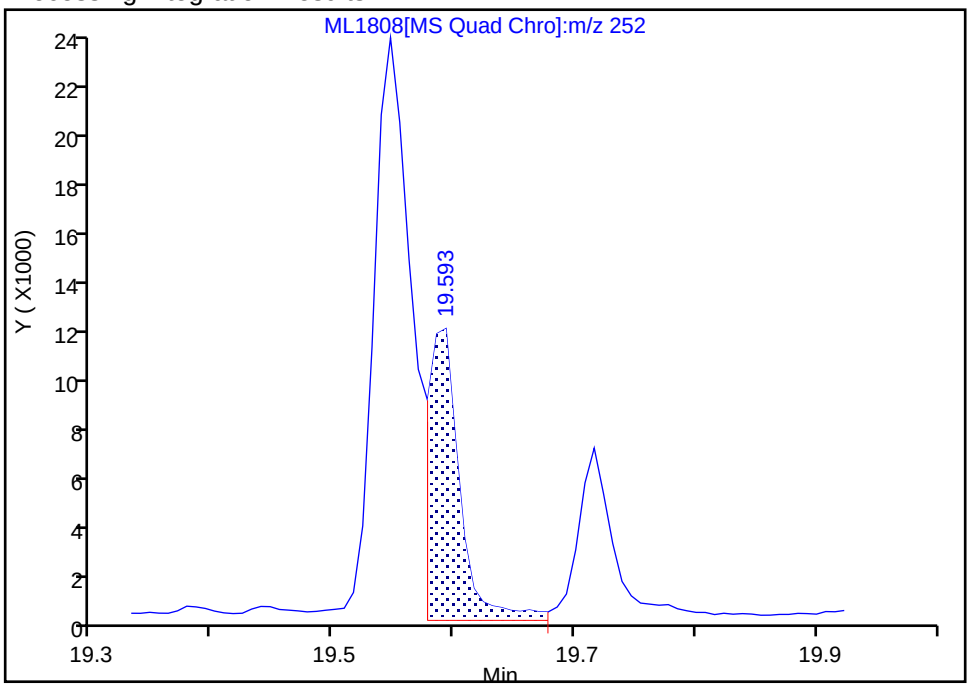
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

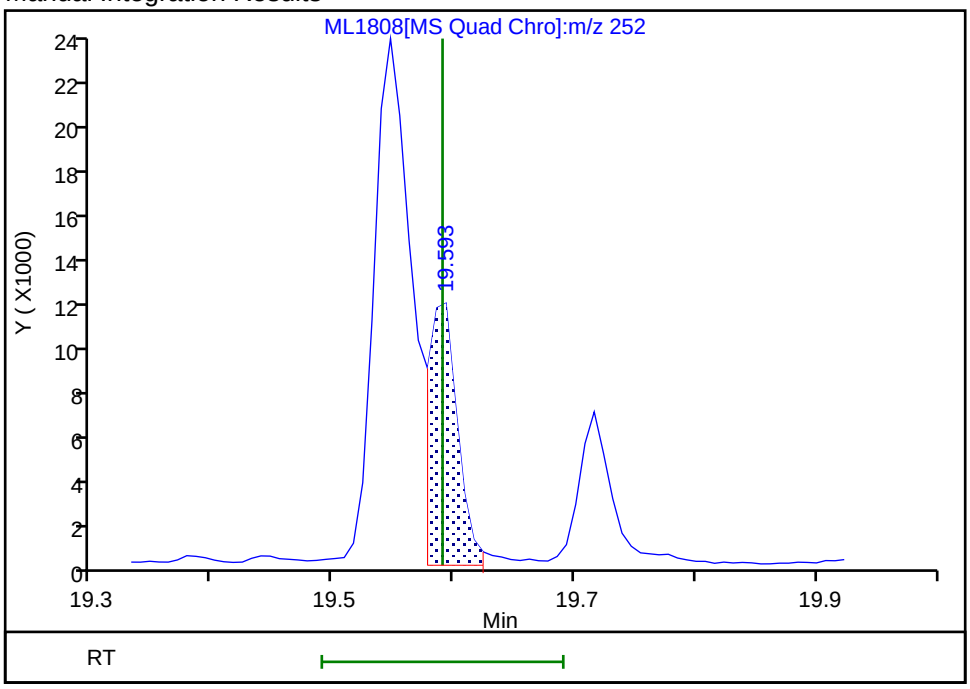
Processing Integration Results

RT: 19.59
Area: 19483
Amount: 0.014630
Amount Units: ug/ml



Manual Integration Results

RT: 19.59
Area: 17660
Amount: 0.014294
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:11:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

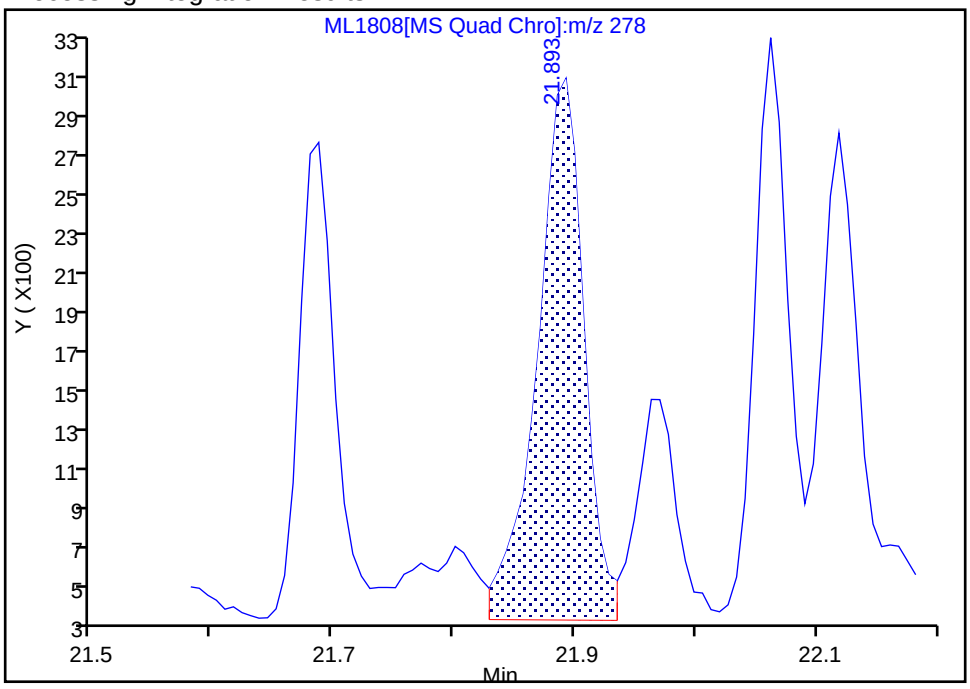
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

41 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

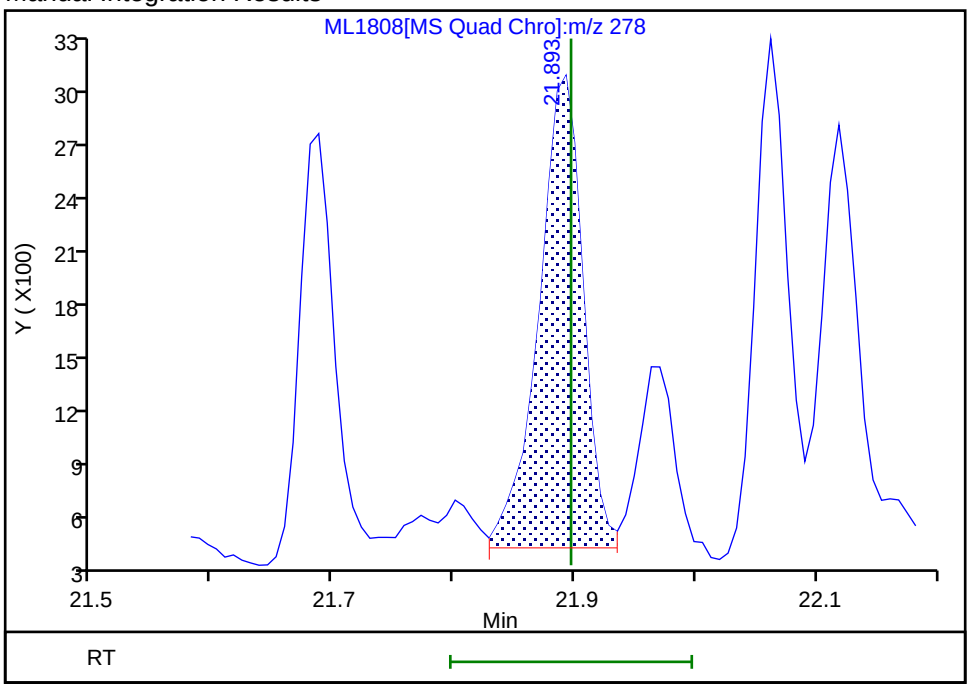
Processing Integration Results

RT: 21.89
Area: 7283
Amount: 0.005251
Amount Units: ug/ml



Manual Integration Results

RT: 21.89
Area: 6615
Amount: 0.004769
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:12:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

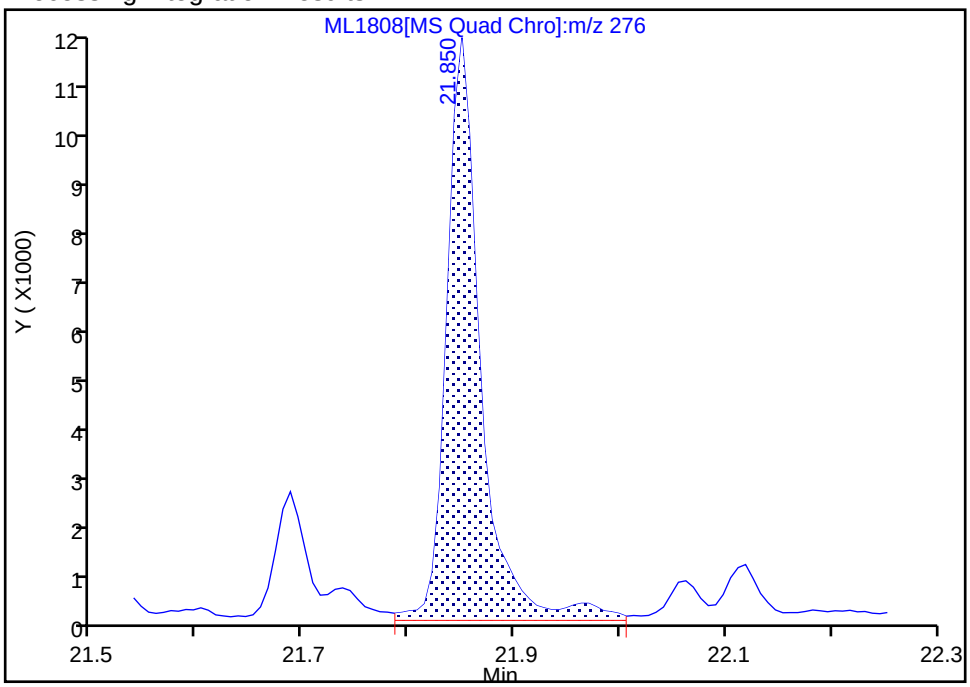
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

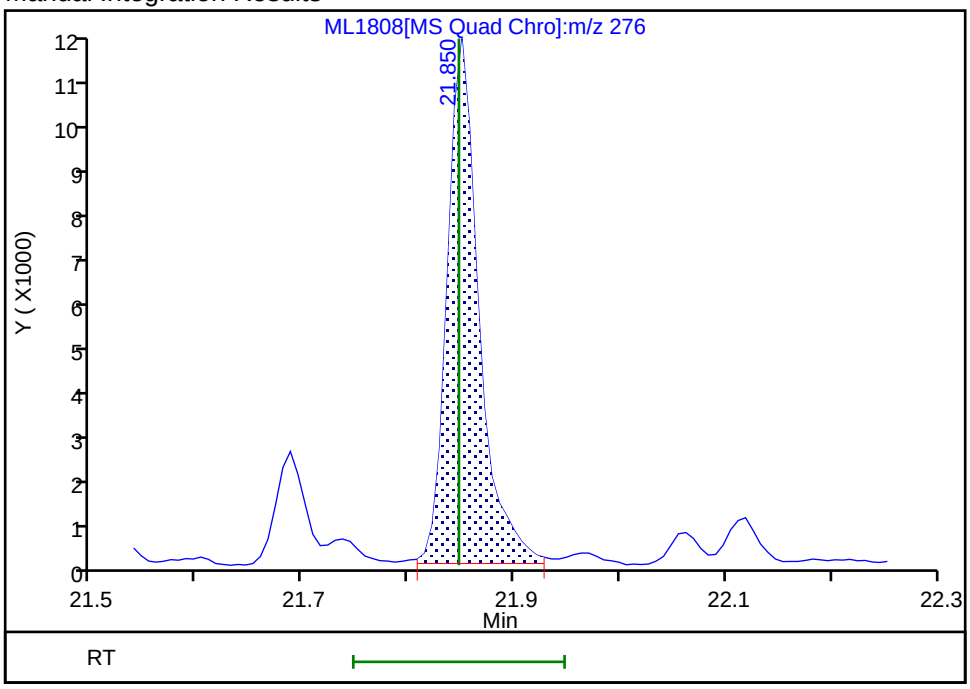
Processing Integration Results

RT: 21.85
Area: 25747
Amount: 0.021703
Amount Units: ug/ml



Manual Integration Results

RT: 21.85
Area: 23669
Amount: 0.019951
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:12:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

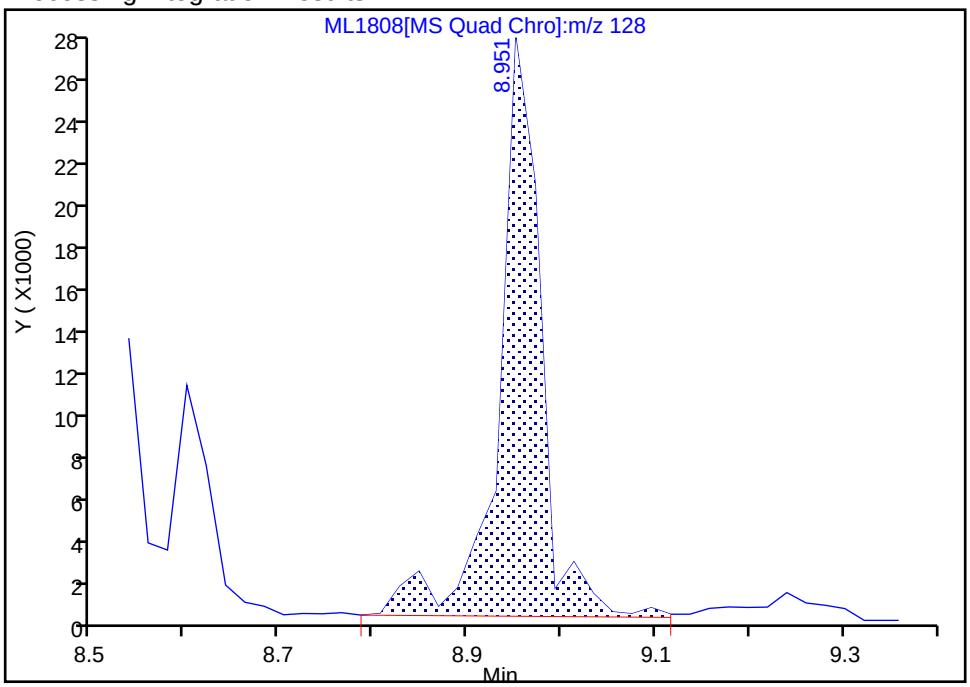
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

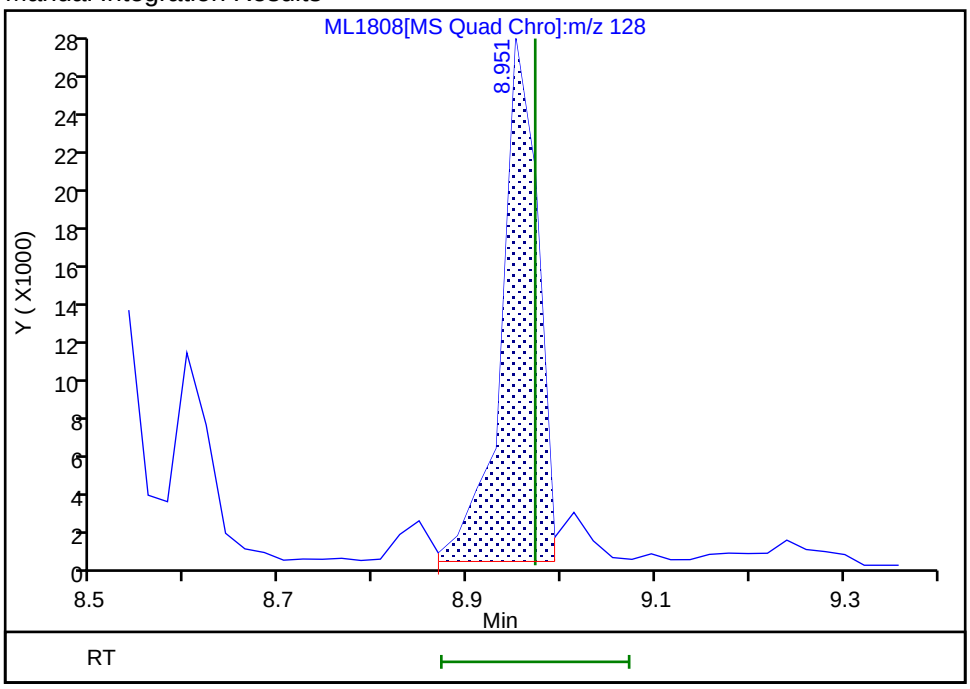
Processing Integration Results

RT: 8.95
Area: 84834
Amount: 0.152614
Amount Units: ug/ml



Manual Integration Results

RT: 8.95
Area: 73737
Amount: 0.132651
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:10:00

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

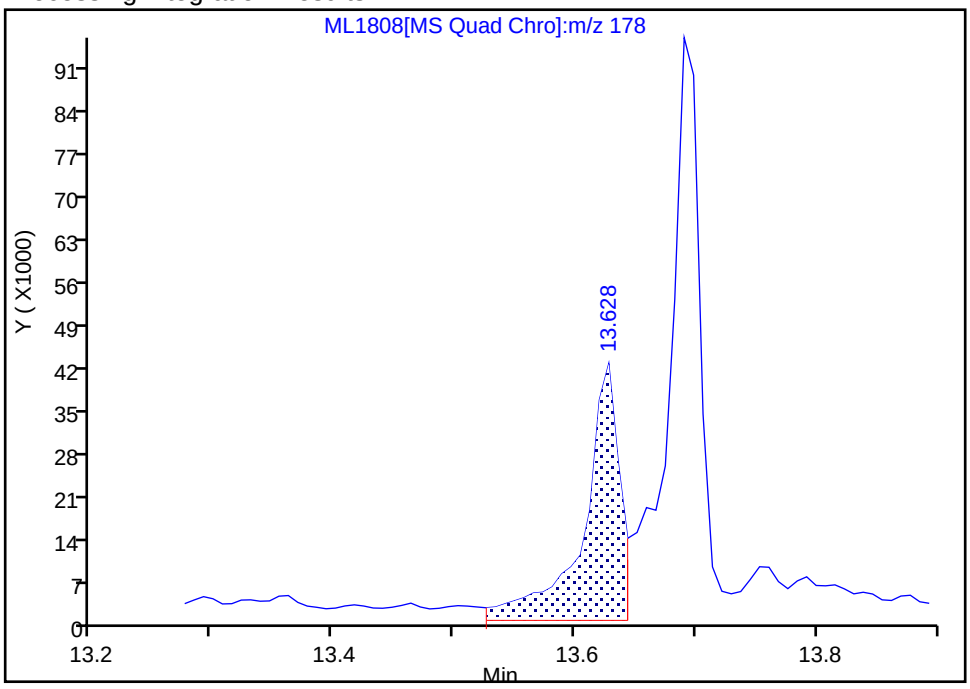
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

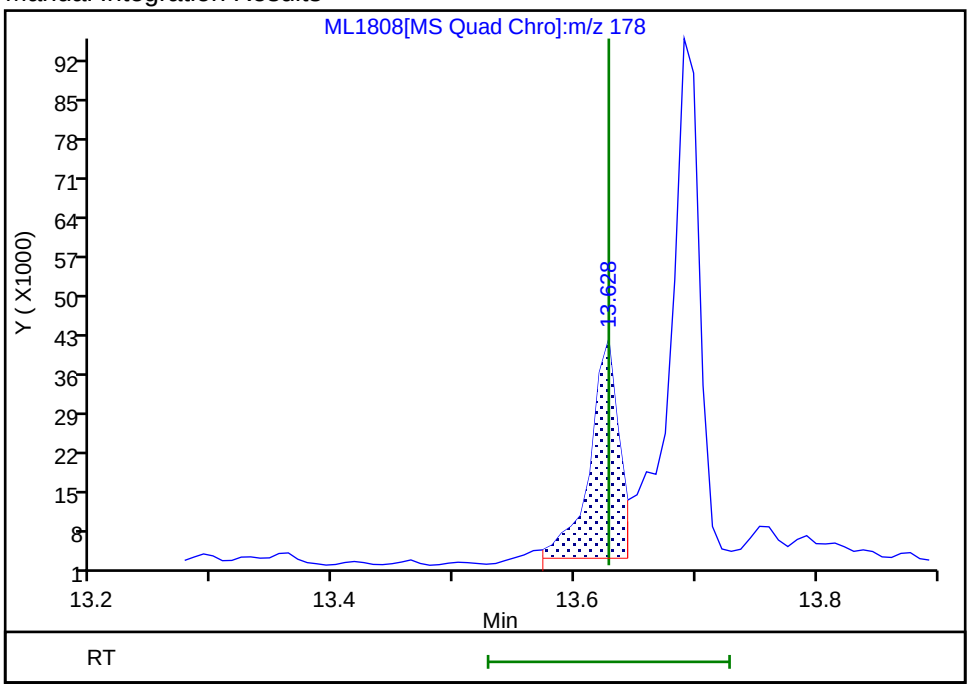
Processing Integration Results

RT: 13.63
Area: 86320
Amount: 0.097600
Amount Units: ug/ml



Manual Integration Results

RT: 13.63
Area: 63859
Amount: 0.072204
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:10:22

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

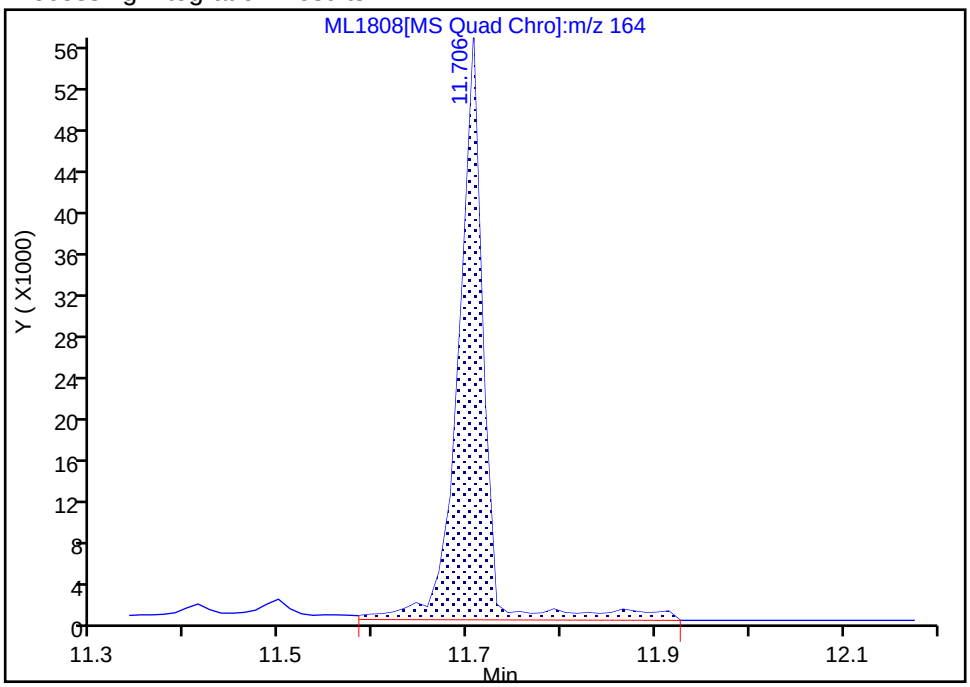
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Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

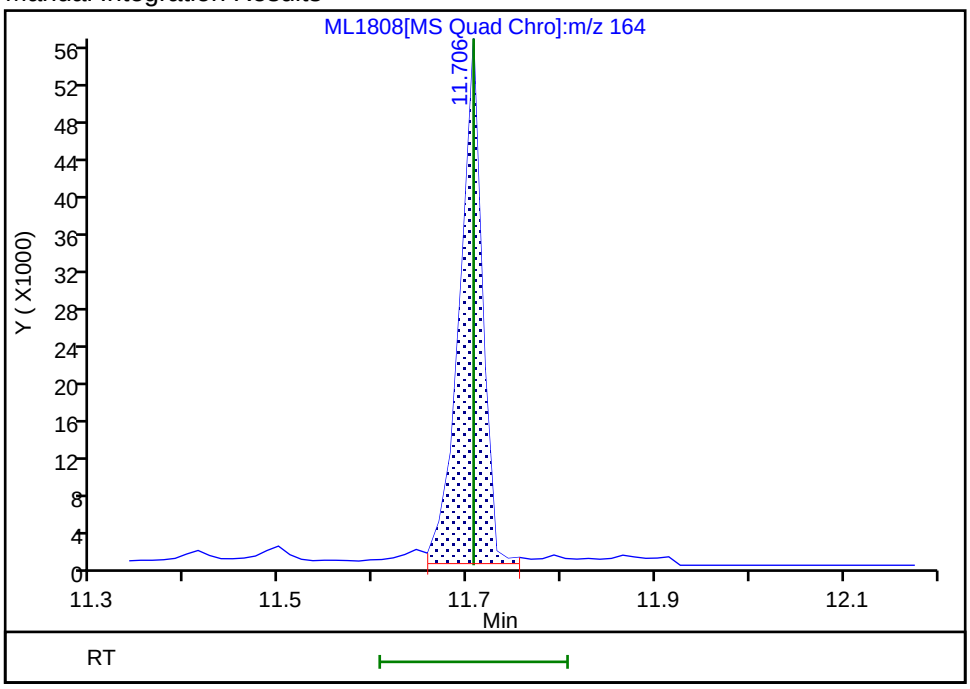
Processing Integration Results

RT: 11.71
Area: 105944
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 11.71
Area: 93786
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:10:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

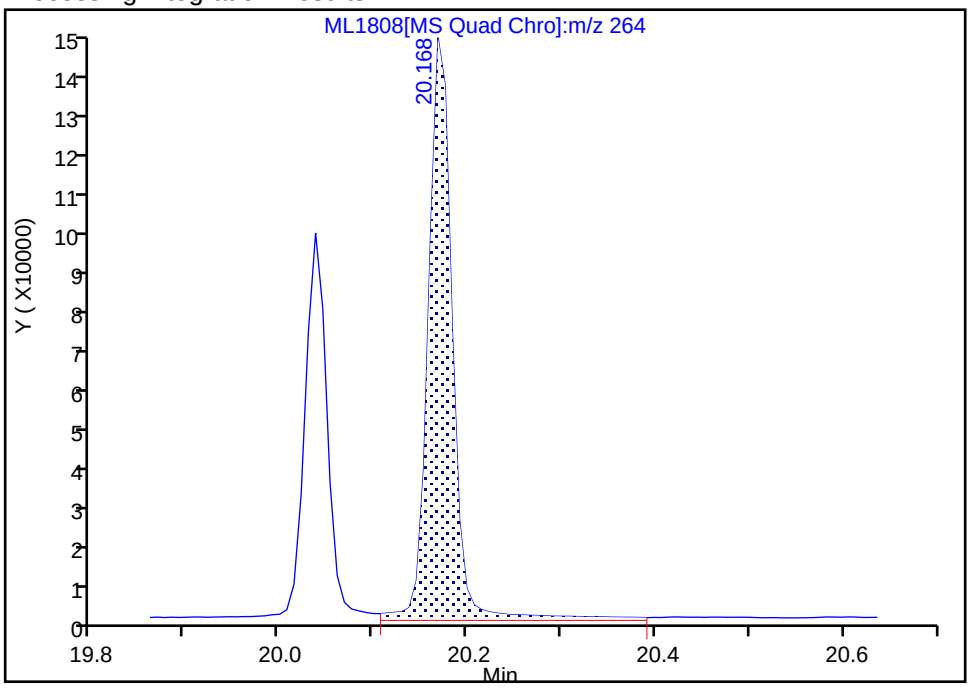
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Injection Date:	31-Dec-2021 17:43:02	Instrument ID:	HP21585		
Lims ID:	410-68043-B-13-A	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 38 Perylene-d12, CAS: 1520-96-3

Signal: 1

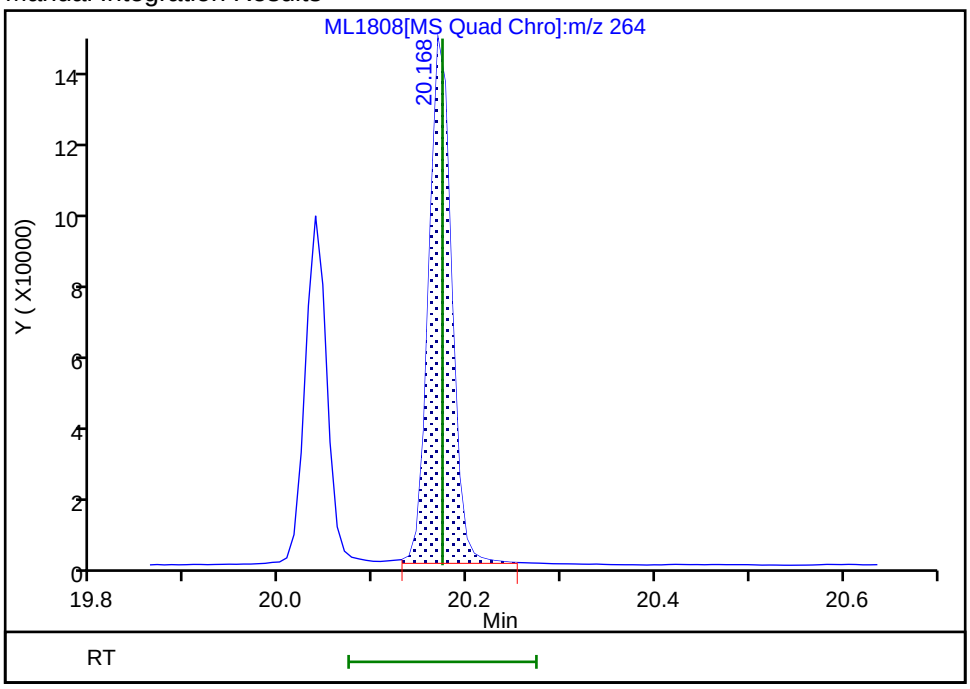
Processing Integration Results

RT: 20.17
Area: 262710
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 20.17
Area: 243732
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 13:11:58

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-11S-20211221 DL Lab Sample ID: 410-68043-13 DL

Matrix: Ground Water Lab File ID: NL1261.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 16:17

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 245.5(mL) Date Analyzed: 12/28/2021 13:02

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209501 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	41	cn	0.51	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	60	cn	10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	97	cn	36-111
93951-69-0	Fluoranthene-d10 (Surr)	86	cn	47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1261.D
Lims ID: 410-68043-A-13-A DL
Client ID: MW-11S-20211221
Sample Type: Client
Inject. Date: 28-Dec-2021 13:02:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-68043-A-13-A
Misc. Info.: 410-0047246-012
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 19:02:47 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 28-Dec-2021 19:00:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.968	5.968	0.000	95	90868	0.2500	
* 5 Naphthalene-d8	136	8.005	8.005	0.000	100	294176	0.2500	
6 Naphthalene	128	8.042	8.042	0.000	99	94501	0.0768	
$ 9 1-Methylnaphthalene-d10	152	9.282	9.282	0.000	30	15134	0.0242	
12 Acenaphthylene	152	10.634	10.634	0.000	100	49273	0.0361	
* 13 Acenaphthene-d10	164	10.865	10.865	0.000	94	191570	0.2500	
14 Acenaphthene	154	10.915	10.915	0.000	100	856147	1.01	
17 Fluorene	166	11.727	11.727	0.000	99	169368	0.1694	M
* 20 Phenanthrene-d10	188	12.870	12.870	0.000	100	351510	0.2500	
21 Phenanthrene	178	12.900	12.893	0.007	100	21647	0.0141	
22 Anthracene	178	12.962	12.962	0.000	100	59395	0.0412	M
$ 24 Fluoranthene-d10 (Surr)	212	14.437	14.438	-0.001	99	29052	0.0216	
25 Fluoranthene	202	14.468	14.463	0.005	98	132765	0.0878	
26 Pyrene	202	14.788	14.787	0.005	98	179610	0.0934	
28 Benzo[a]anthracene	228	16.752	16.752	0.005	13	21628	0.0147	
* 29 Chrysene-d12	240	16.767	16.762	0.005	83	307225	0.2500	
30 Chrysene	228	16.805	16.806	0.004	100	19612	0.006278	
33 Benzo[b]fluoranthene	252	18.600	18.585	0.020	99	9773	0.006551	
34 Benzo[k]fluoranthene	252	18.646	18.631	0.020	100	4370	0.002571	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.076	19.068	0.013	97	22615	0.0150	
37 Benzo[a]pyrene	252	19.114	19.106	0.013	100	10019	0.006951	
* 38 Perylene-d12	264	19.198	19.194	0.004	98	303120	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.845	20.804	0.047	99	3534	0.002690	
42 Benzo[g,h,i]perylene	276	21.205	21.164	0.046	96	4088	0.002461	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

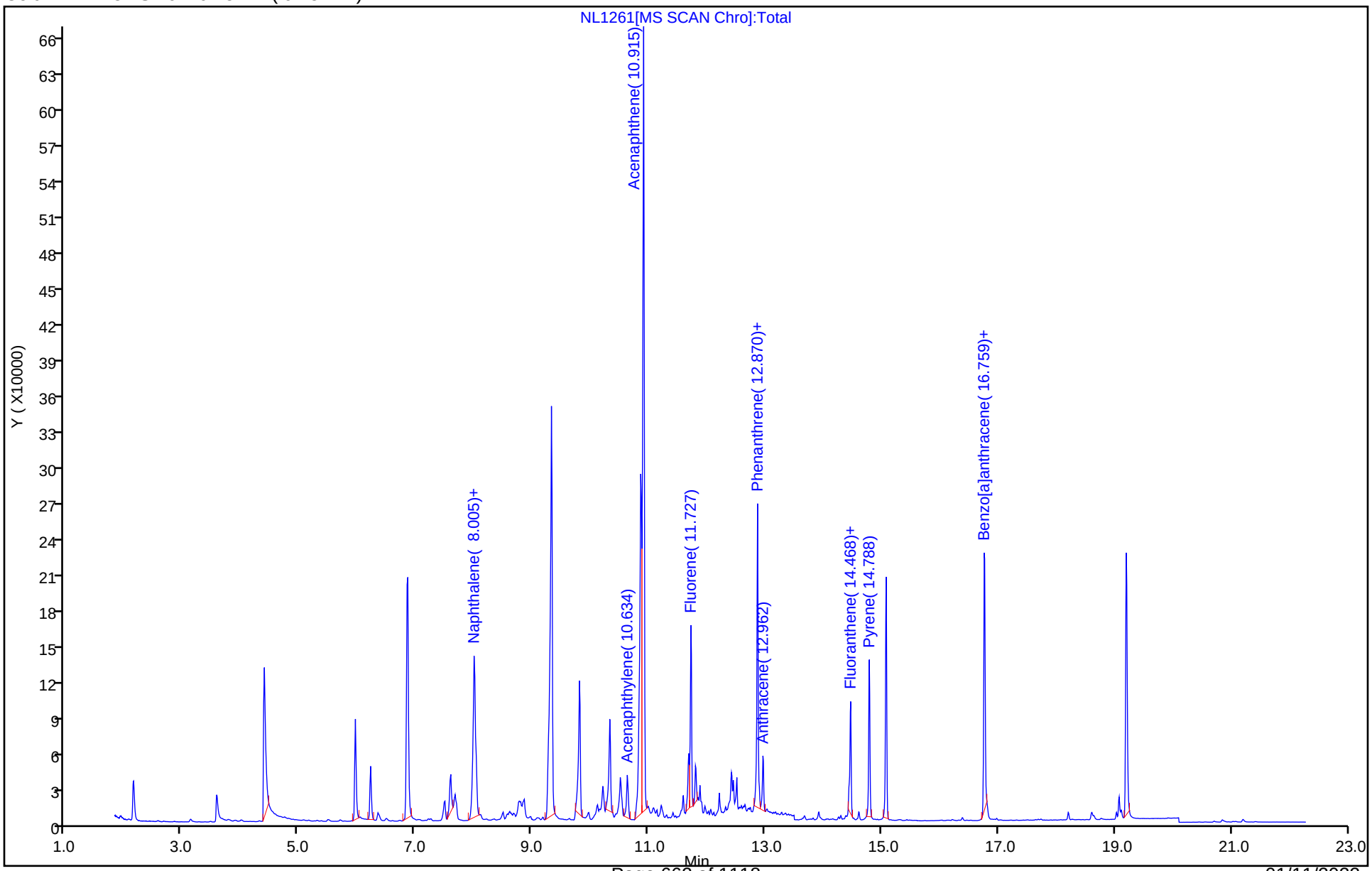
Report Date: 28-Dec-2021 19:03:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1261.D

Injection Date:	28-Dec-2021 13:02:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-13-A DL	Lab Sample ID:	410-68043-13	Worklist Smp#:	12
Client ID:	MW-11S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	12
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



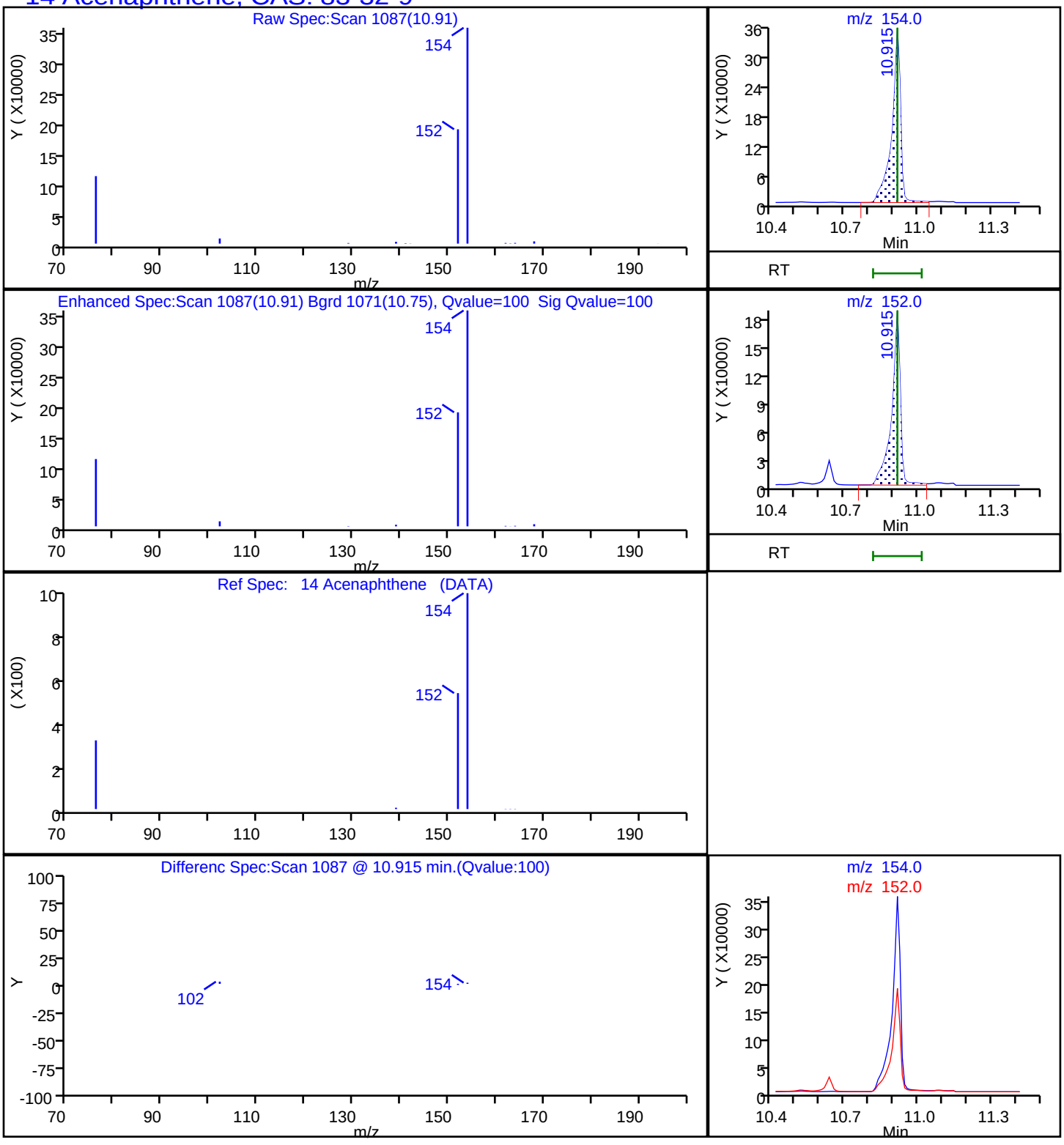
Report Date: 28-Dec-2021 19:03:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1261.D

Injection Date:	28-Dec-2021 13:02:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-13-A DL	Lab Sample ID:	410-68043-13		
Client ID:	MW-11S-20211221				
Operator ID:	jmg00346	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-11D-20211221 Lab Sample ID: 410-68043-14

Matrix: Ground Water Lab File ID: NL1223.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 17:01

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 247.5(mL) Date Analyzed: 12/28/2021 00:51

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 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	0.017	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	ND		0.071	0.030
85-01-8	Phenanthrene	ND		0.071	0.030
129-00-0	Pyrene	0.016	J	0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	70		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	78		36-111
93951-69-0	Fluoranthene-d10 (Surr)	78		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1223.D
Lims ID: 410-68043-A-14-A
Client ID: MW-11D-20211221
Sample Type: Client
Inject. Date: 28-Dec-2021 00:51:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-14-A
Misc. Info.: 410-0047167-024
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:58:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	96	83728	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	272233	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	51	5916	0.005198	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	112758	0.1952	
12 Acenaphthylene	152	10.614	10.614	0.020	99	1152	0.000992	7M
* 13 Acenaphthene-d10	164	10.845	10.835	0.010	99	162826	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	59	1440	0.001990	
17 Fluorene	166	11.696	11.696	0.000	19	1309	0.001540	M
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	265925	0.2500	
21 Phenanthrene	178	12.870	12.870	0.008	65	7900	0.006779	M
$ 24 Fluoranthene-d10 (Surr)	212	14.418	14.412	0.012	98	197858	0.1941	
25 Fluoranthene	202	14.443	14.448	0.012	70	4928	0.004310	
26 Pyrene	202	14.769	14.775	0.012	98	5446	0.004046	
28 Benzo[a]anthracene	228	16.736	16.736	0.015	1	1685	0.001635	
* 29 Chrysene-d12	240	16.744	16.737	0.007	81	215113	0.2500	
33 Benzo[b]fluoranthene	252	18.592	18.592	0.038	100	2647	0.002412	M
34 Benzo[k]fluoranthene	252	18.639	18.639	0.038	96	1034	0.000827	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	99	140716	0.1738	
* 38 Perylene-d12	264	19.183	19.175	0.008	98	222959	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.845	20.845	0.070	96	1162	0.001203	7M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

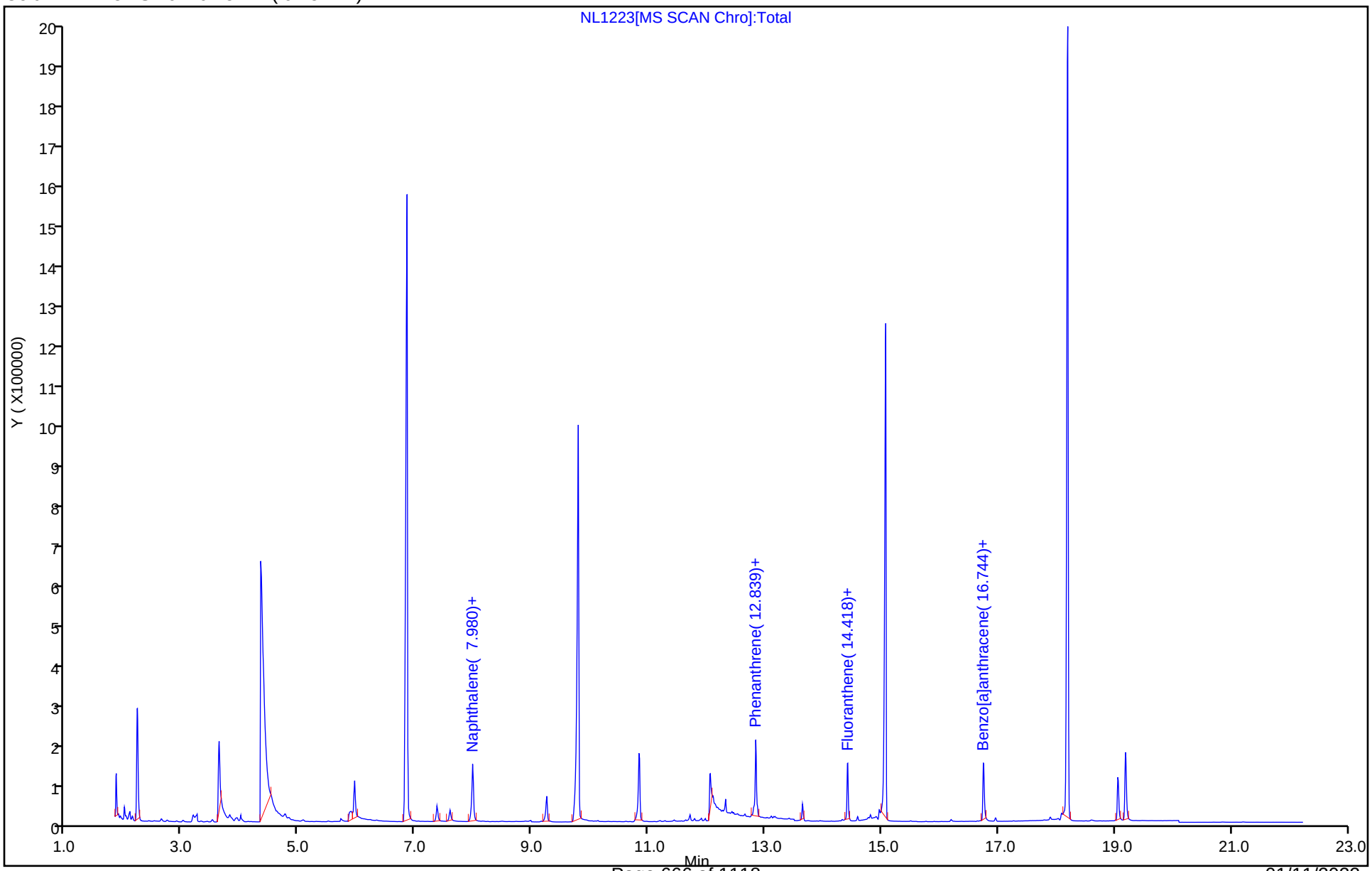
Report Date: 28-Dec-2021 06:59:19 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1223.D

Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14	Worklist Smp#:	24
Client ID:	MW-11D-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



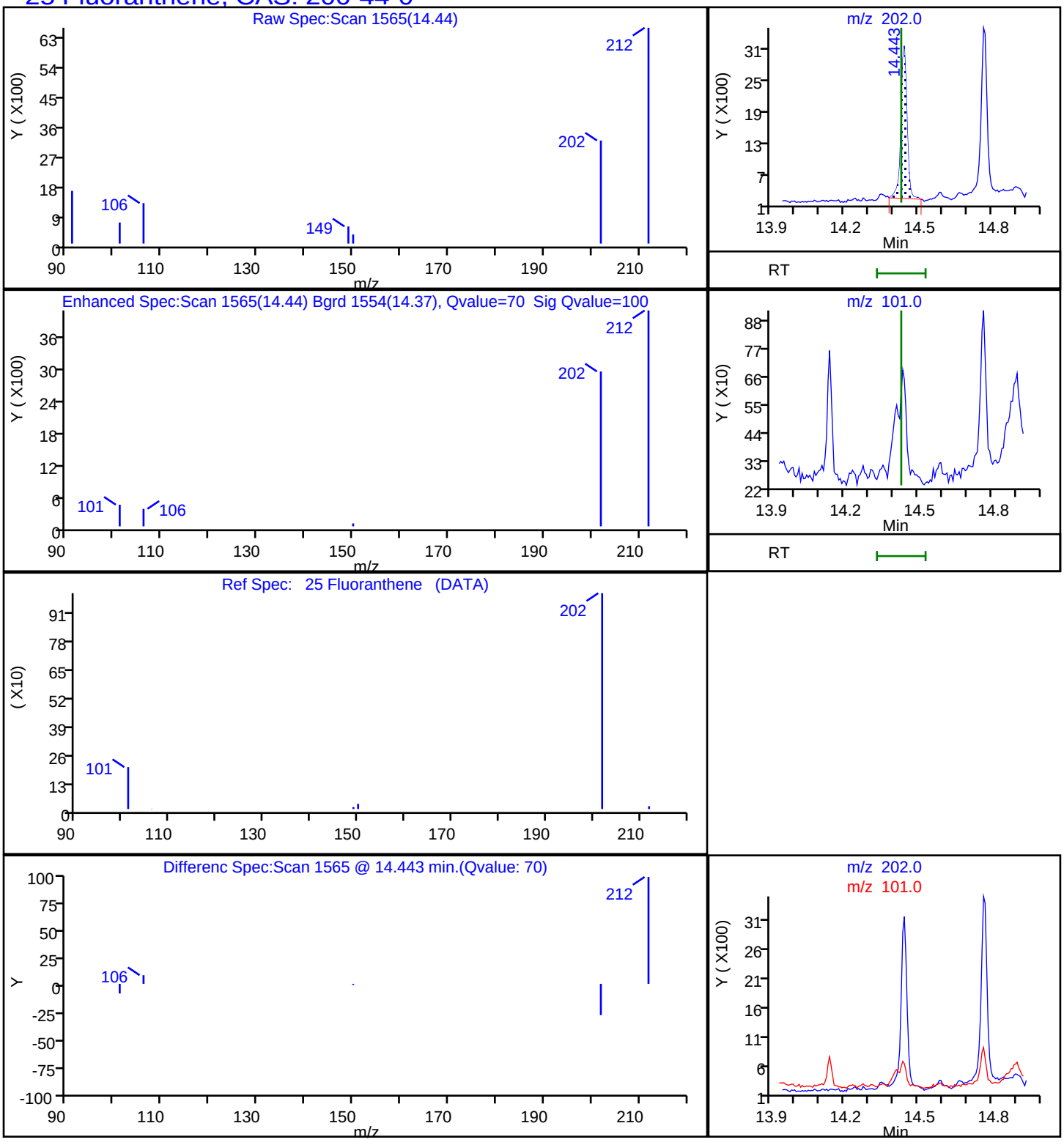
Report Date: 28-Dec-2021 06:59:19 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1223.D

Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14		
Client ID:	MW-11D-20211221				
Operator ID:	whs02991	ALS Bottle#:	24	Worklist Smp#:	24
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		

25 Fluoranthene, CAS: 206-44-0



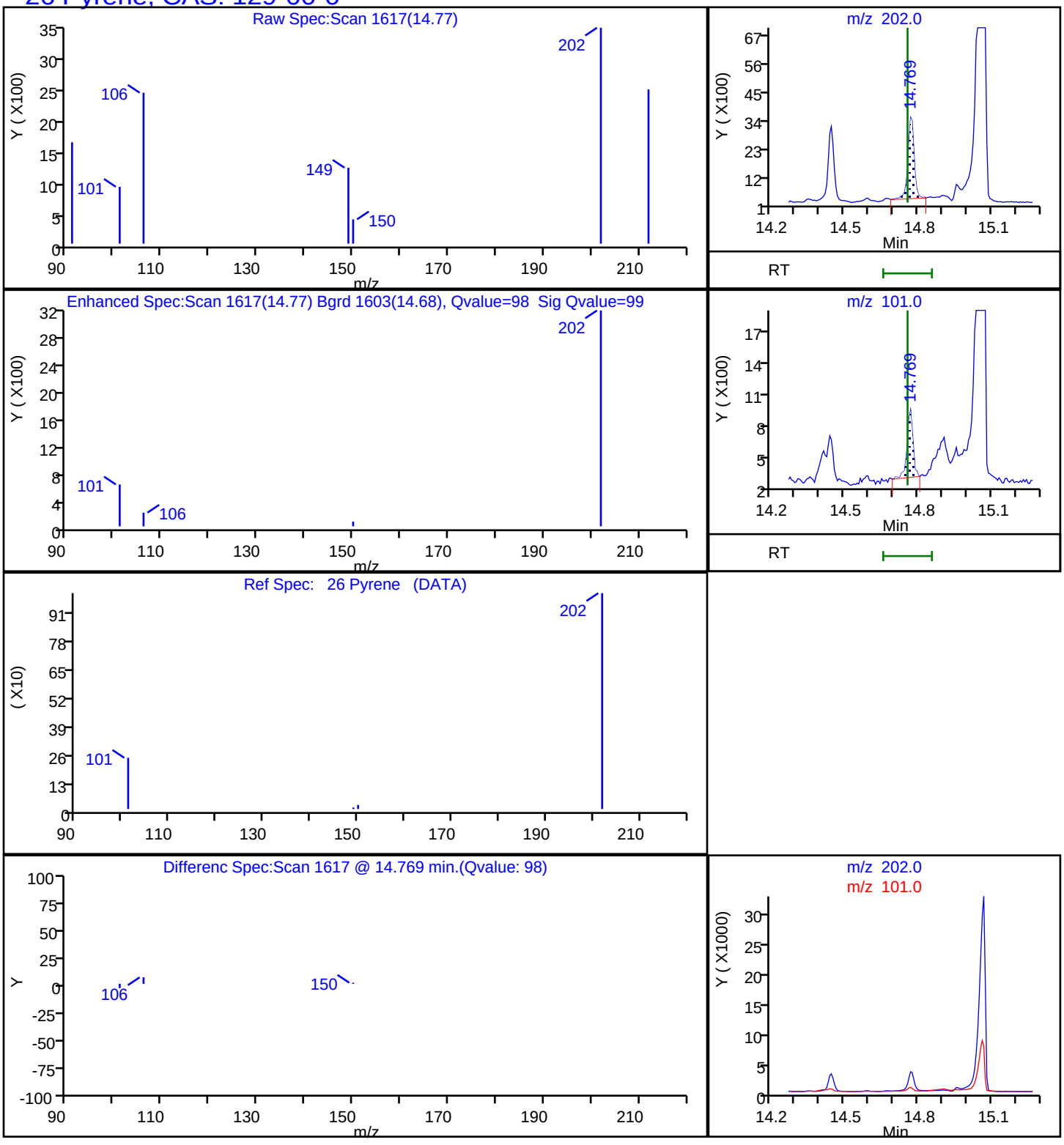
Report Date: 28-Dec-2021 06:59:19 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1223.D

Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14		
Client ID:	MW-11D-20211221				
Operator ID:	whs02991	ALS Bottle#:	24	Worklist Smp#:	24
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

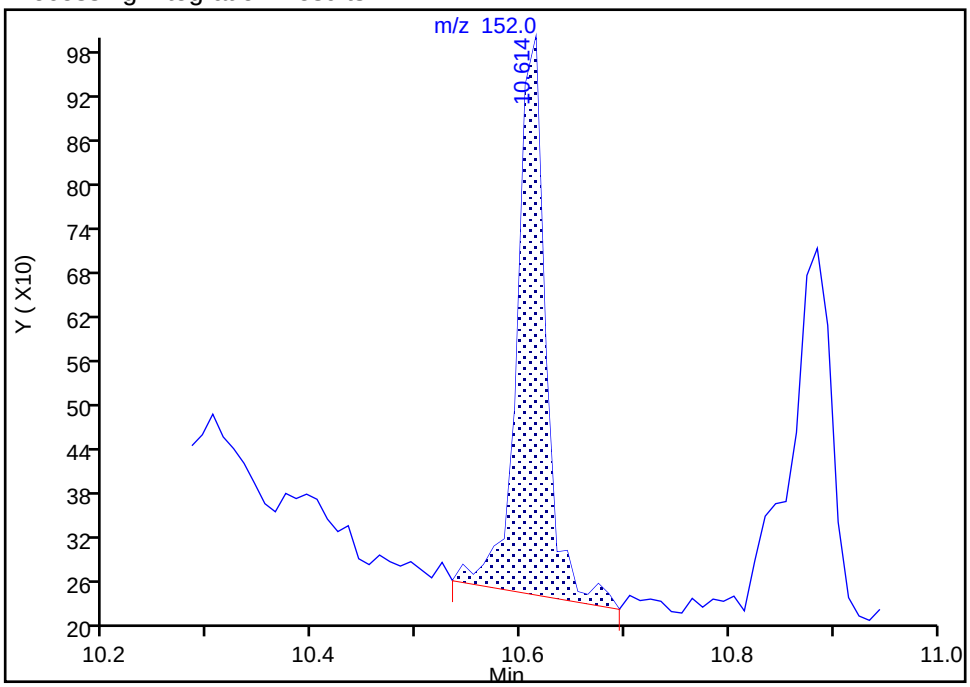
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Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14
Client ID:	MW-11D-20211221		
Operator ID:	whs02991	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

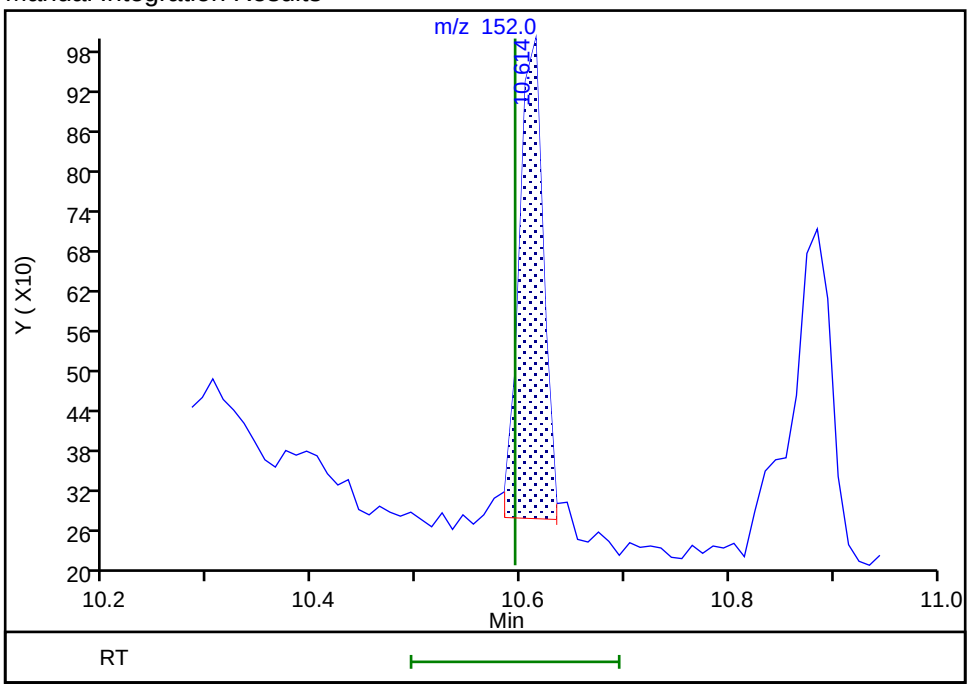
Processing Integration Results

RT: 10.61
Area: 1457
Amount: 0.001255
Amount Units: ug/ml



Manual Integration Results

RT: 10.61
Area: 1152
Amount: 0.000992
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:57:33

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

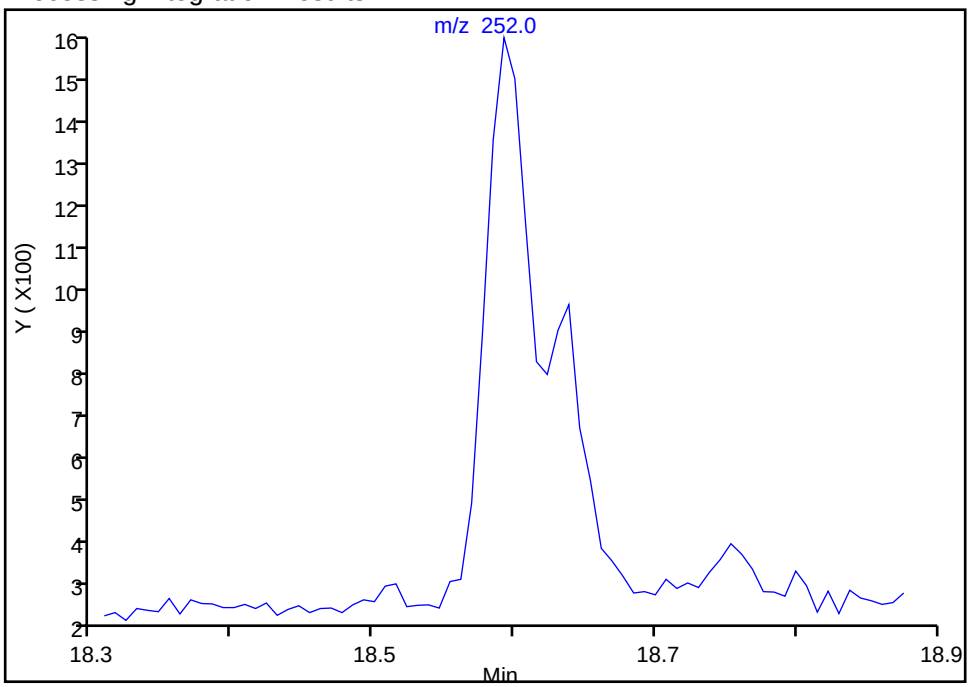
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Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14		
Client ID:	MW-11D-20211221				
Operator ID:	whs02991	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

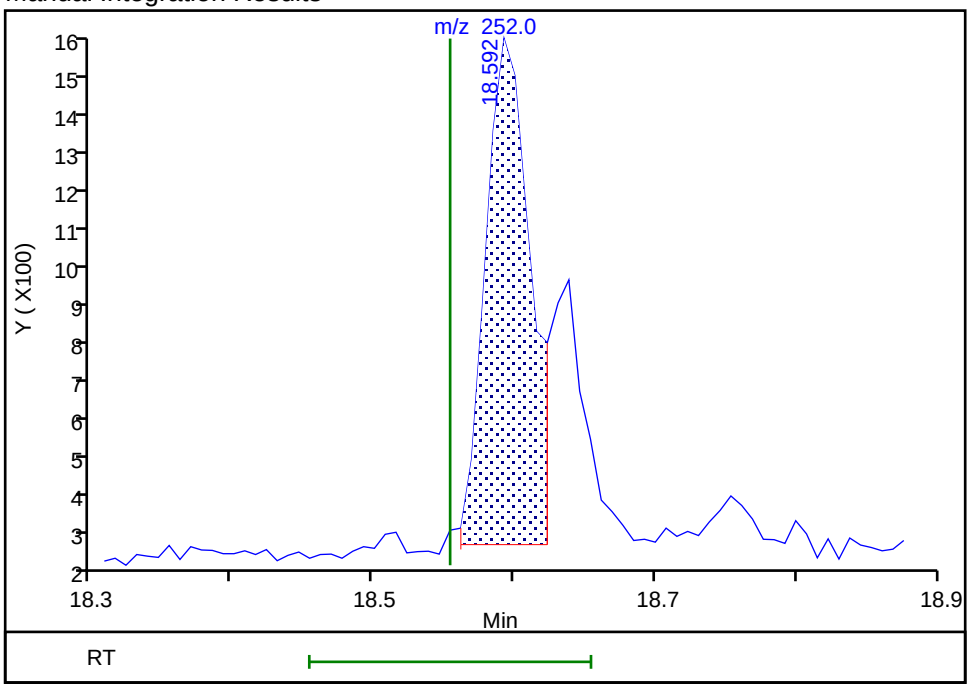
Not Detected
Expected RT: 18.55

Processing Integration Results



Manual Integration Results

RT: 18.59
Area: 2647
Amount: 0.002412
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:58:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

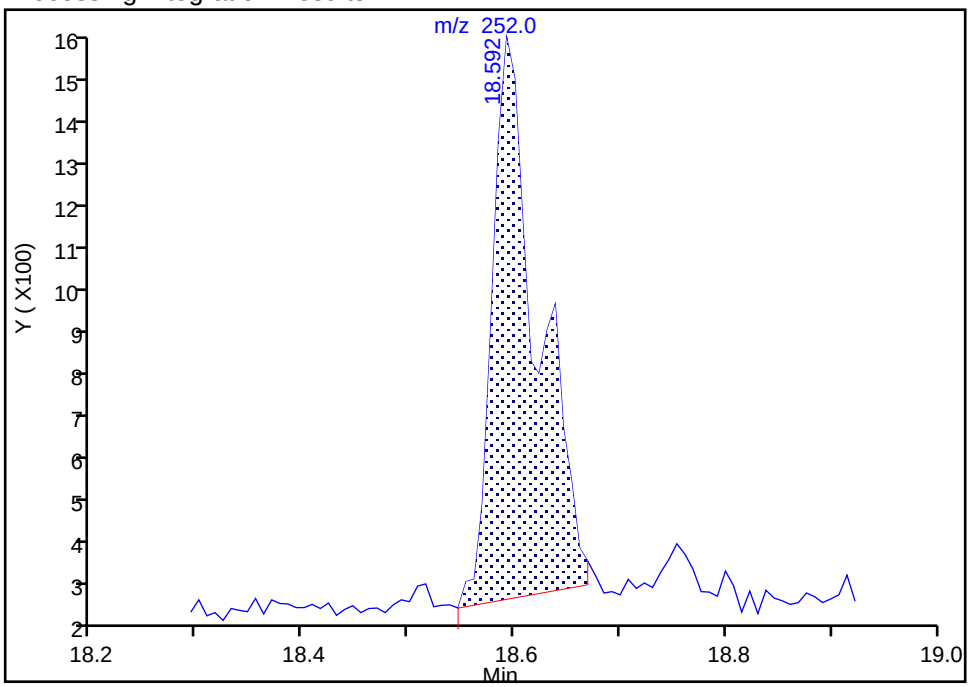
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Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14		
Client ID:	MW-11D-20211221				
Operator ID:	whs02991	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

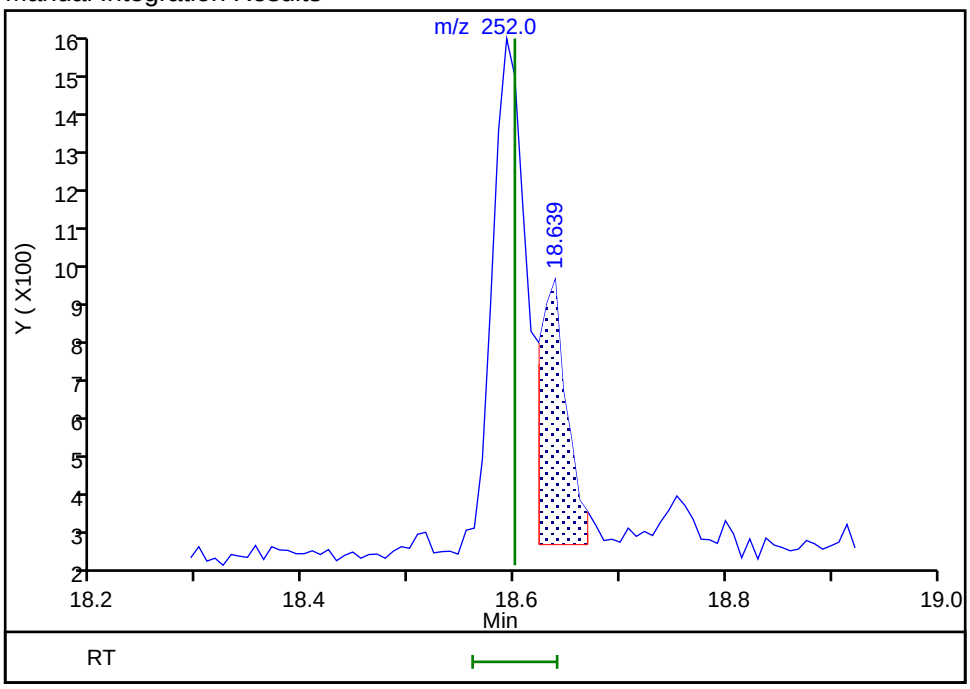
Processing Integration Results

RT: 18.59
Area: 3683
Amount: 0.002945
Amount Units: ug/ml



Manual Integration Results

RT: 18.64
Area: 1034
Amount: 0.000827
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:58:17

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

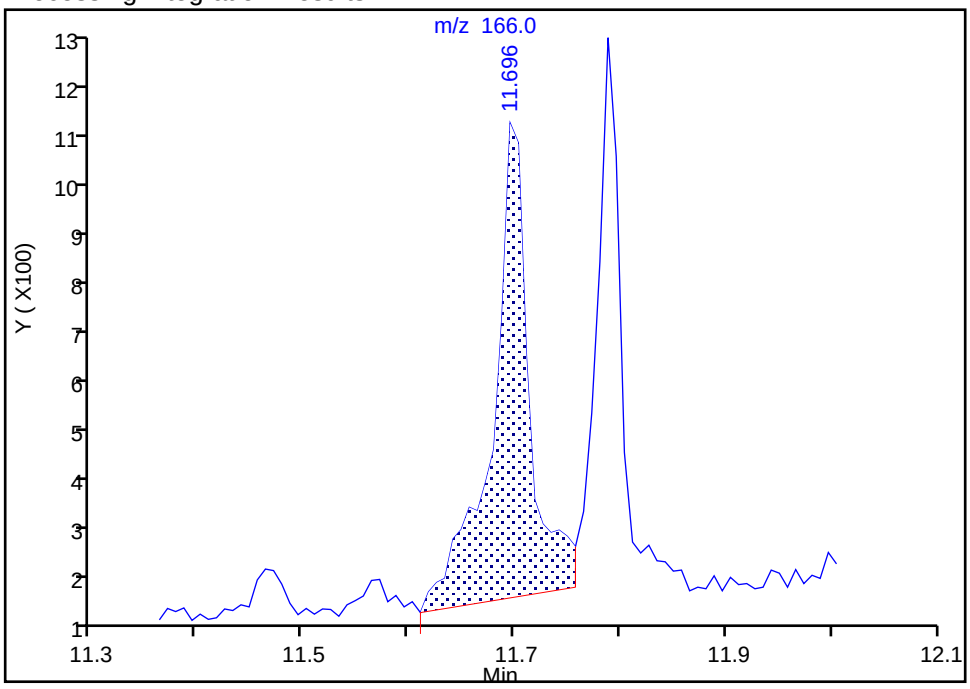
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1223.D				
Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14		
Client ID:	MW-11D-20211221				
Operator ID:	whs02991	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 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		

17 Fluorene, CAS: 86-73-7

Signal: 1

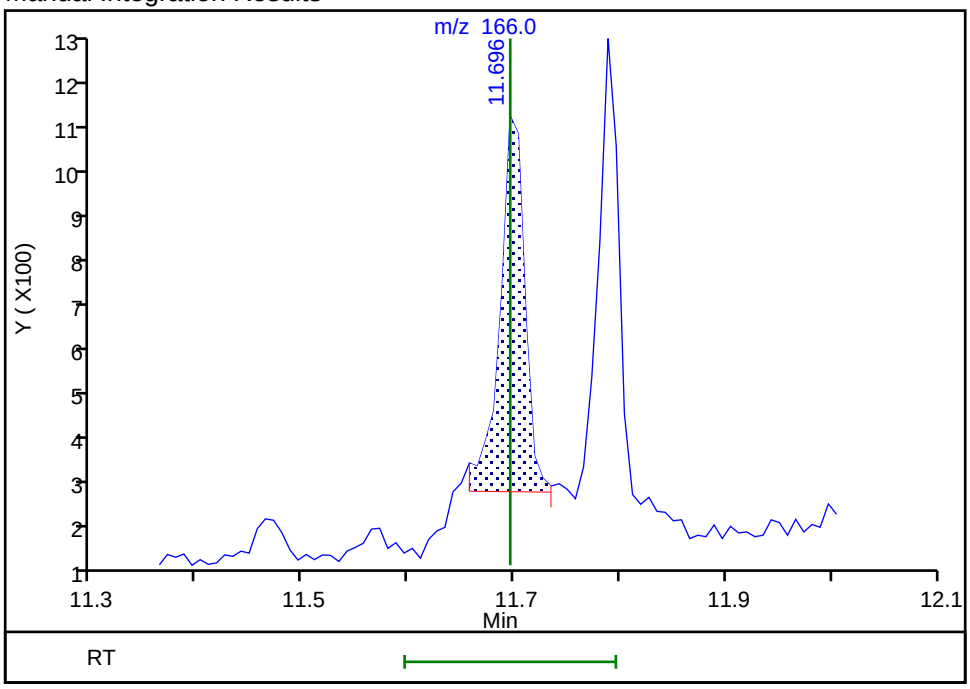
Processing Integration Results

RT: 11.70
Area: 2221
Amount: 0.002613
Amount Units: ug/ml



Manual Integration Results

RT: 11.70
Area: 1309
Amount: 0.001540
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:57:44

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

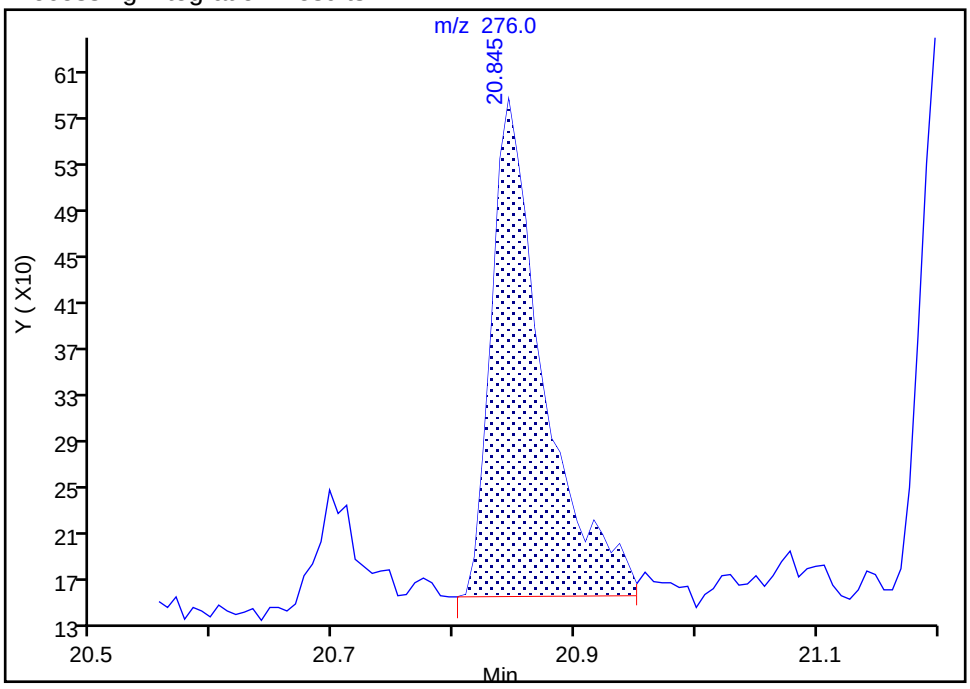
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1223.D		
Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14
Client ID:	MW-11D-20211221		
Operator ID:	whs02991	ALS Bottle#:	24 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. 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

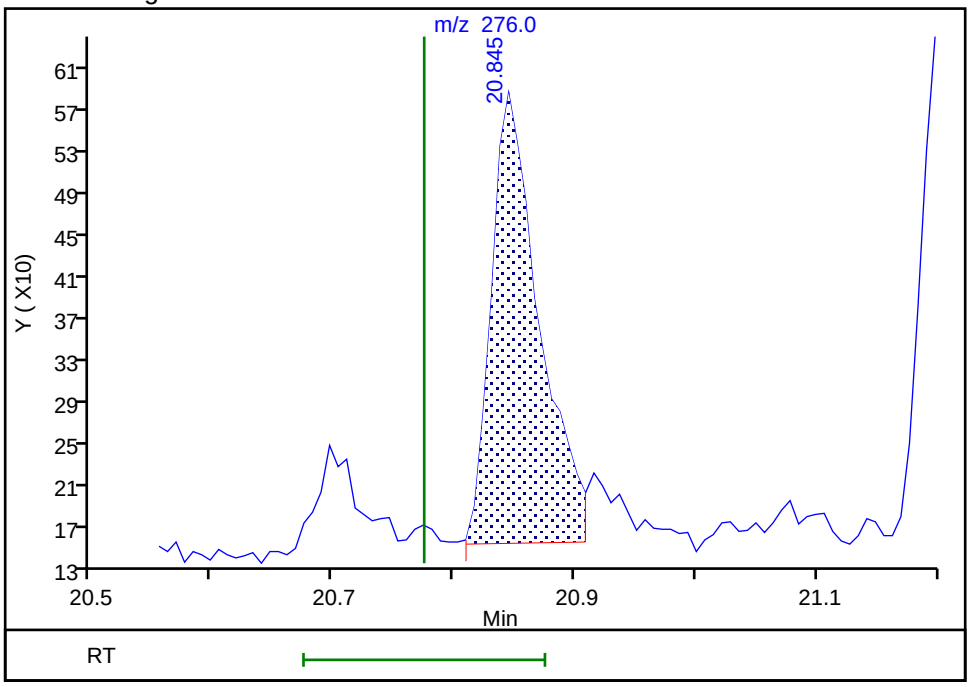
Processing Integration Results

RT: 20.85
Area: 1261
Amount: 0.001305
Amount Units: ug/ml



Manual Integration Results

RT: 20.85
Area: 1162
Amount: 0.001203
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:58:29

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

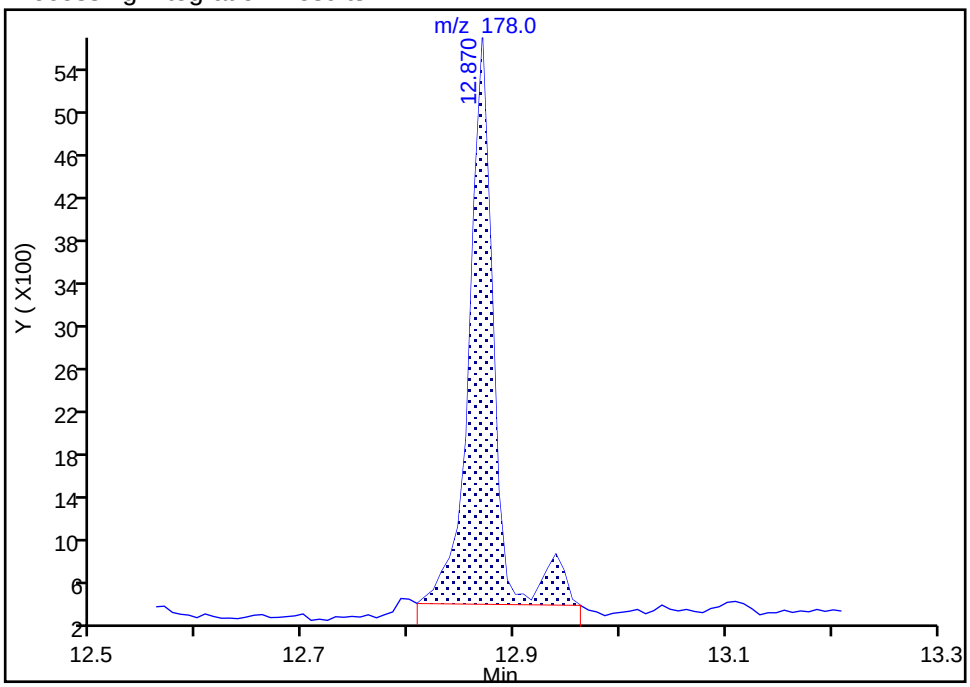
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1223.D				
Injection Date:	28-Dec-2021 00:51:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-14-A	Lab Sample ID:	410-68043-14		
Client ID:	MW-11D-20211221				
Operator ID:	whs02991	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 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		

21 Phenanthrene, CAS: 85-01-8

Signal: 1

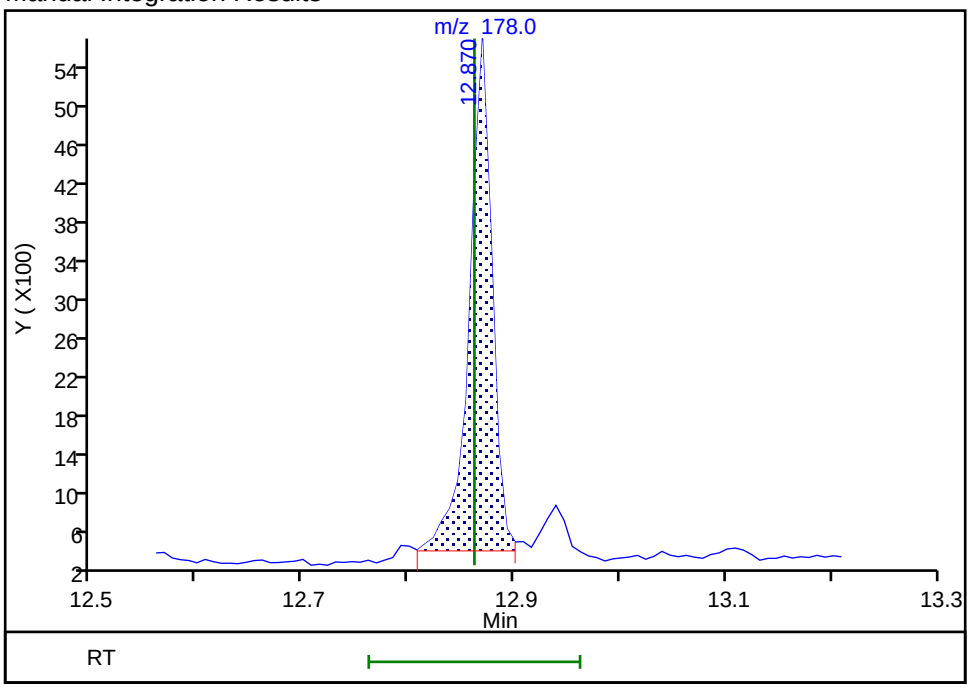
Processing Integration Results

RT: 12.87
Area: 8602
Amount: 0.007381
Amount Units: ug/ml



Manual Integration Results

RT: 12.87
Area: 7900
Amount: 0.006779
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:57:53

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-4S-20211222 Lab Sample ID: 410-68043-15

Matrix: Ground Water Lab File ID: NL1489.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 09:31

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 245.6(mL) Date Analyzed: 12/30/2021 14:33

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	0.76		0.051	0.010
120-12-7	Anthracene	0.32		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	5.1		0.051	0.010
86-73-7	Fluorene	7.5		0.051	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.051	0.020
91-20-3	Naphthalene	0.073		0.071	0.031
85-01-8	Phenanthrene	0.21		0.071	0.031
129-00-0	Pyrene	4.8		0.051	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	71		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		36-111
93951-69-0	Fluoranthene-d10 (Surr)	79		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D
Lims ID: 410-68043-A-15-A
Client ID: MW-4S-20211222
Sample Type: Client
Inject. Date: 30-Dec-2021 14:33:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-15-A
Misc. Info.: 410-0047435-020
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:01:57 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 13:48:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.918	5.919	-0.001	98	57569	0.2500	
* 5 Naphthalene-d8	136	7.955	7.956	-0.001	100	178568	0.2500	
6 Naphthalene	128	7.993	7.993	0.000	97	13346	0.0179	
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	99	77842	0.2054	
12 Acenaphthylene	152	10.585	10.585	0.000	98	126904	0.1865	
* 13 Acenaphthene-d10	164	10.826	10.816	0.010	42	95444	0.2500	
14 Acenaphthene	154	10.876	10.876	0.010	93	1889119	4.45	E
17 Fluorene	166	11.689	11.689	0.008	99	916150	1.84	
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	100	178167	0.2500	
21 Phenanthrene	178	12.863	12.855	0.008	99	40044	0.0513	
22 Anthracene	178	12.924	12.924	0.007	100	57947	0.0793	M
$ 24 Fluoranthene-d10 (Surr)	212	14.387	14.394	-0.001	97	134397	0.1968	
25 Fluoranthene	202	14.419	14.419	0.006	93	962767	1.26	
26 Pyrene	202	14.739	14.739	0.006	95	1181729	1.17	
* 29 Chrysene-d12	240	16.708	16.700	0.008	82	161631	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.009	19.009	0.000	97	125888	0.1781	
* 38 Perylene-d12	264	19.139	19.139	0.000	95	194845	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

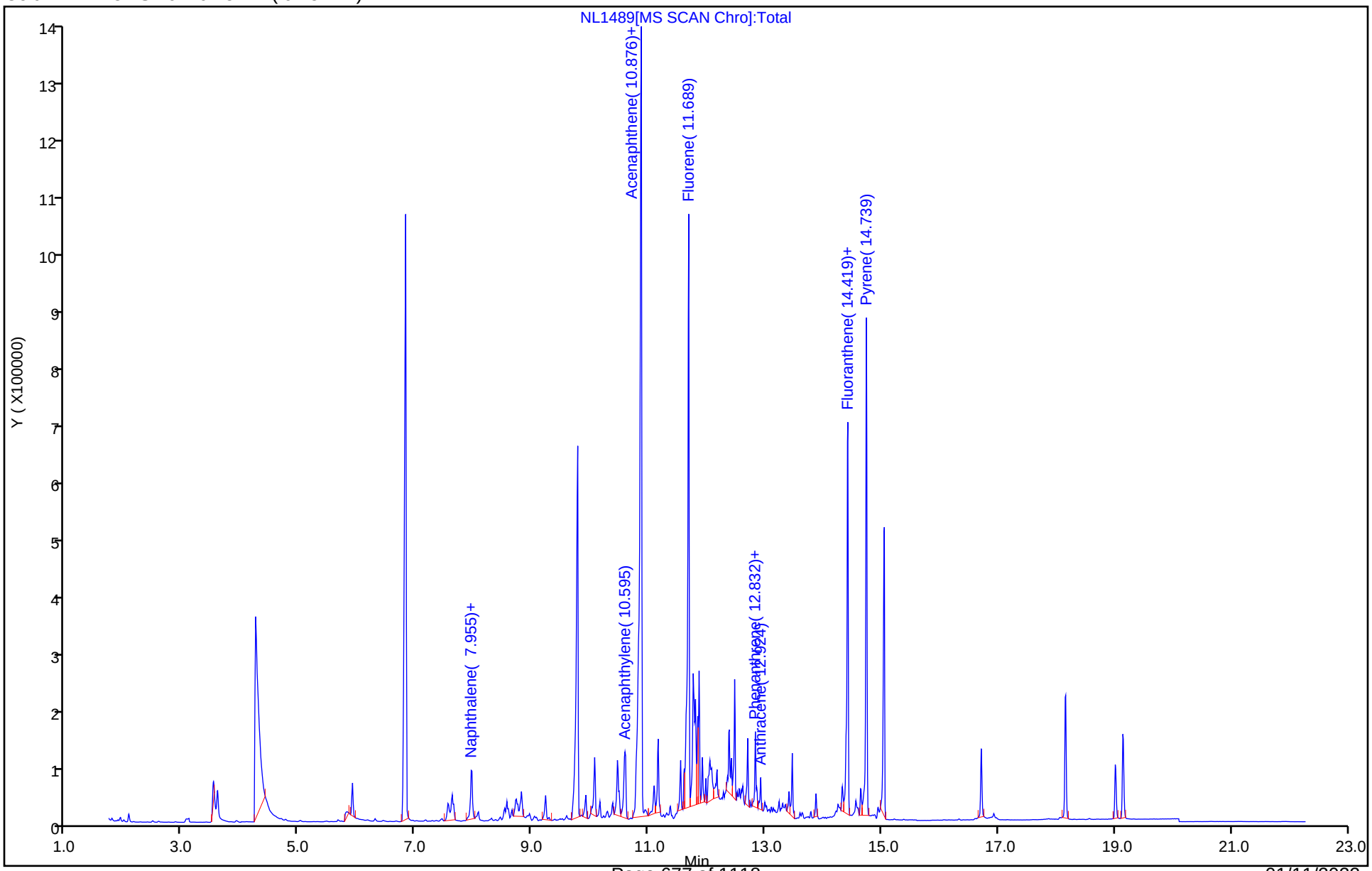
Report Date: 31-Dec-2021 14:02:29 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D

Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15	Worklist Smp#:	20
Client ID:	MW-4S-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

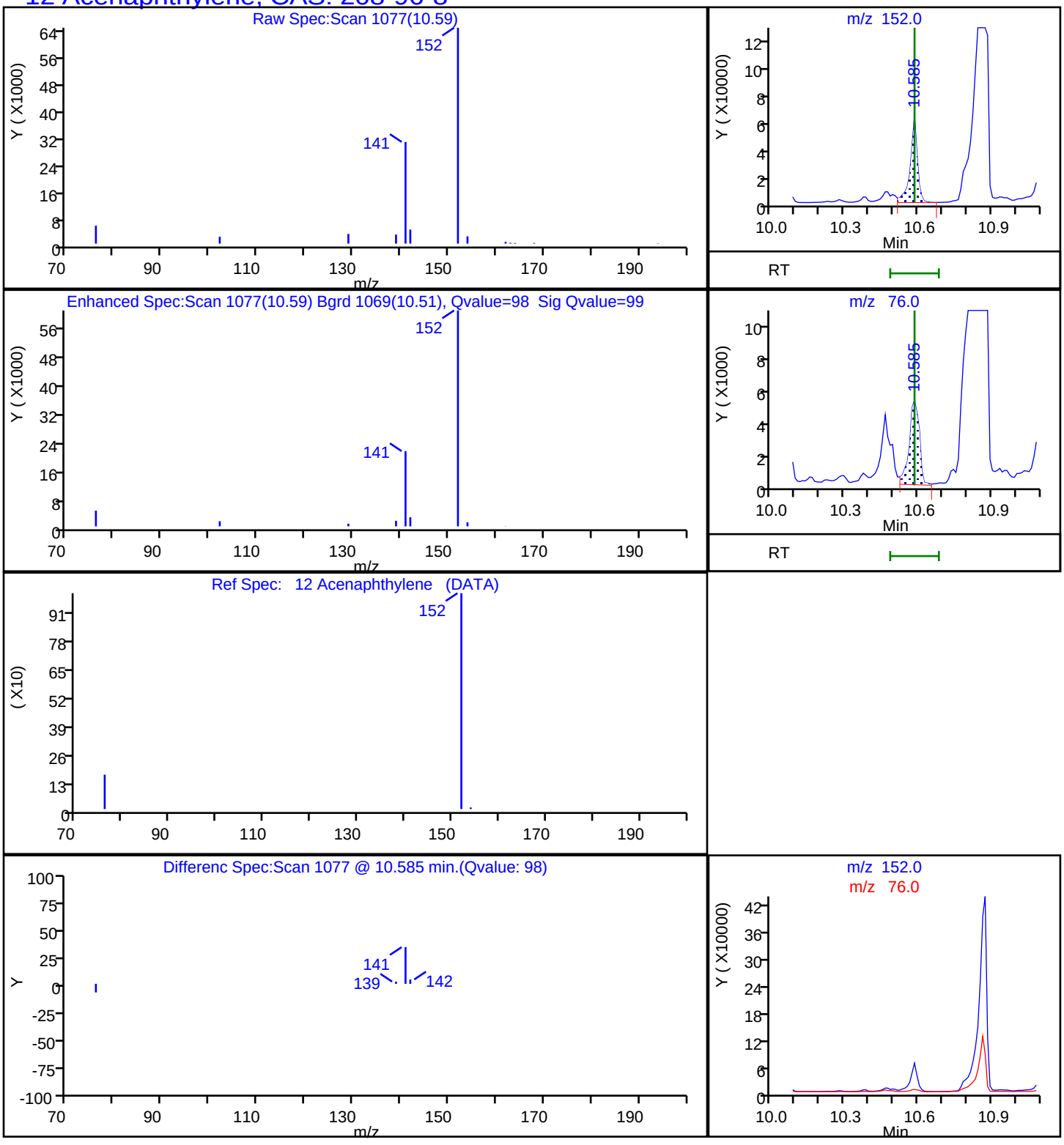
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D		
Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15
Client ID:	MW-4S-20211222		
Operator ID:	jmg00346	ALS Bottle#:	20 Worklist Smp#: 20
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

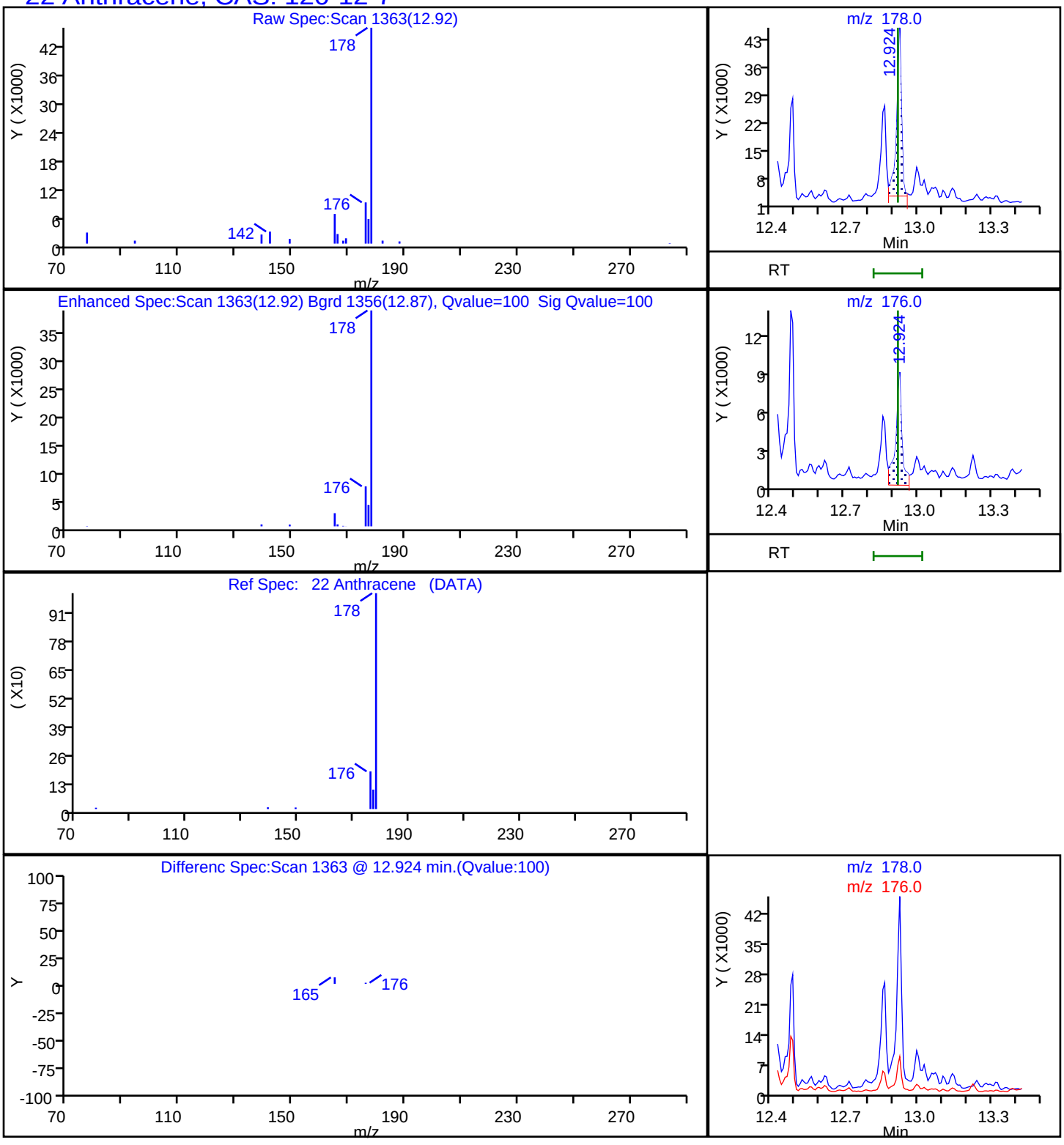
12 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D				
Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	20	Worklist Smp#:	20
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		

22 Anthracene, CAS: 120-12-7



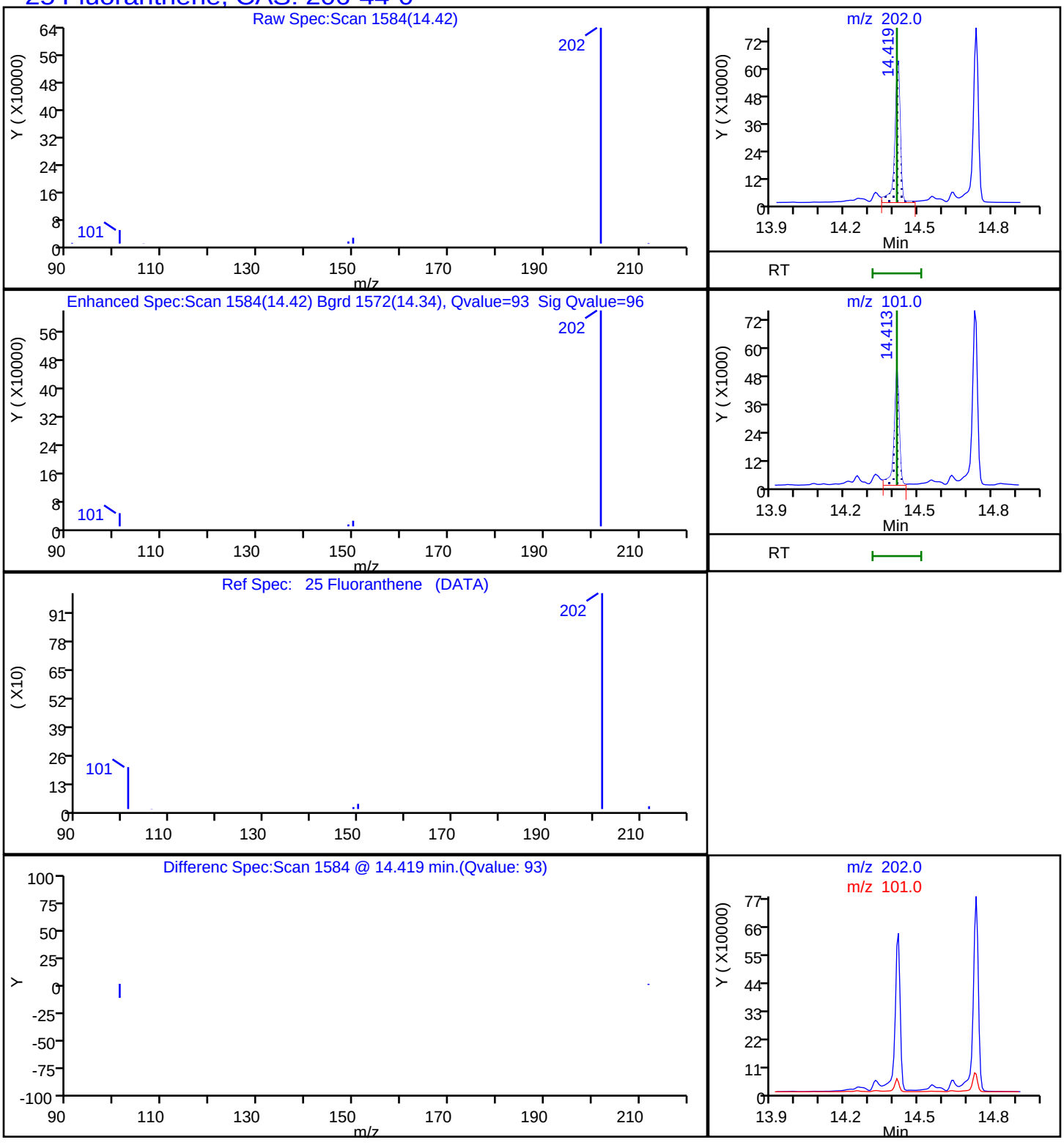
Report Date: 31-Dec-2021 14:02:30 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D

Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	20	Worklist Smp#:	20
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		

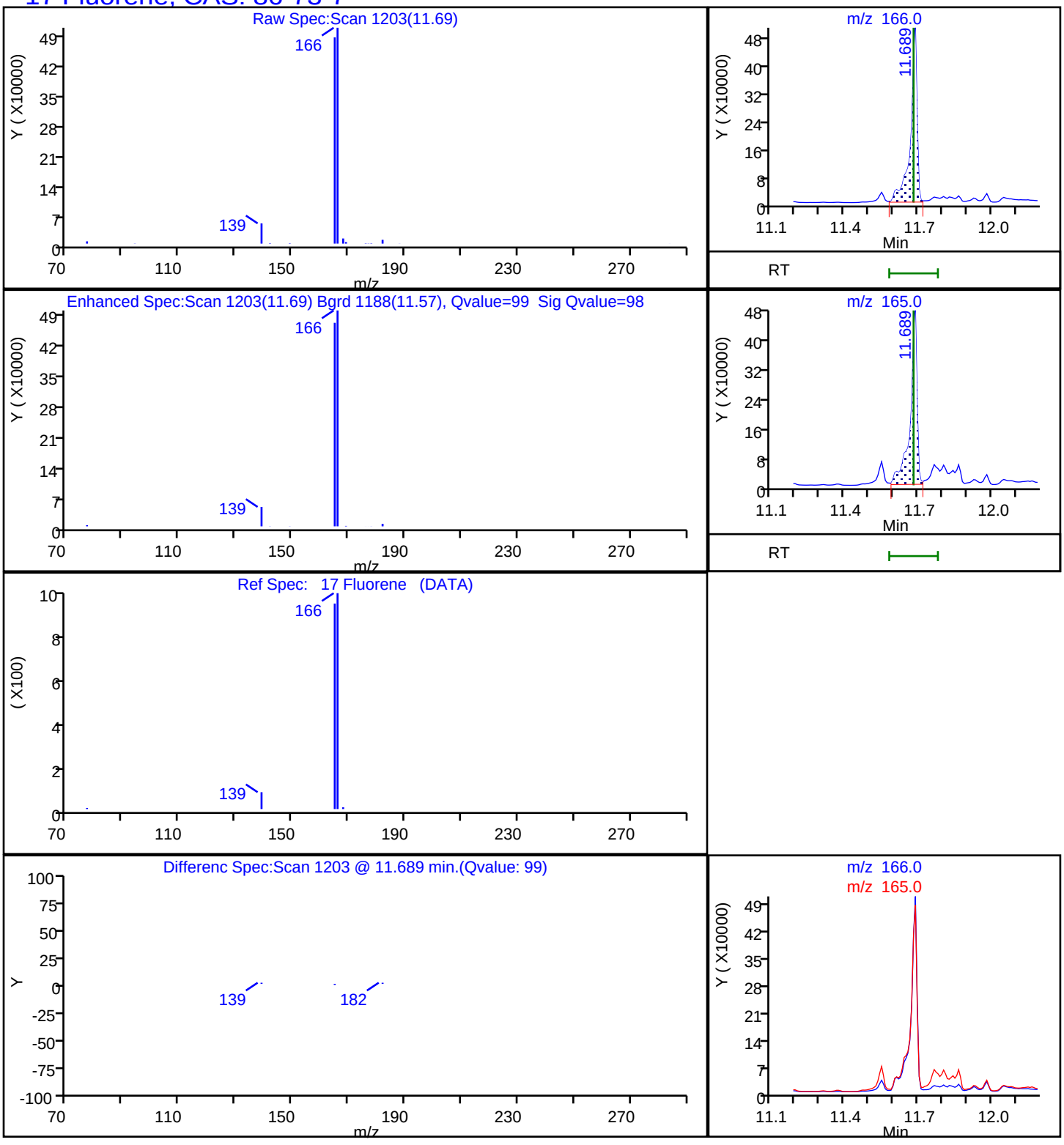
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D				
Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	20	Worklist Smp#:	20
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		

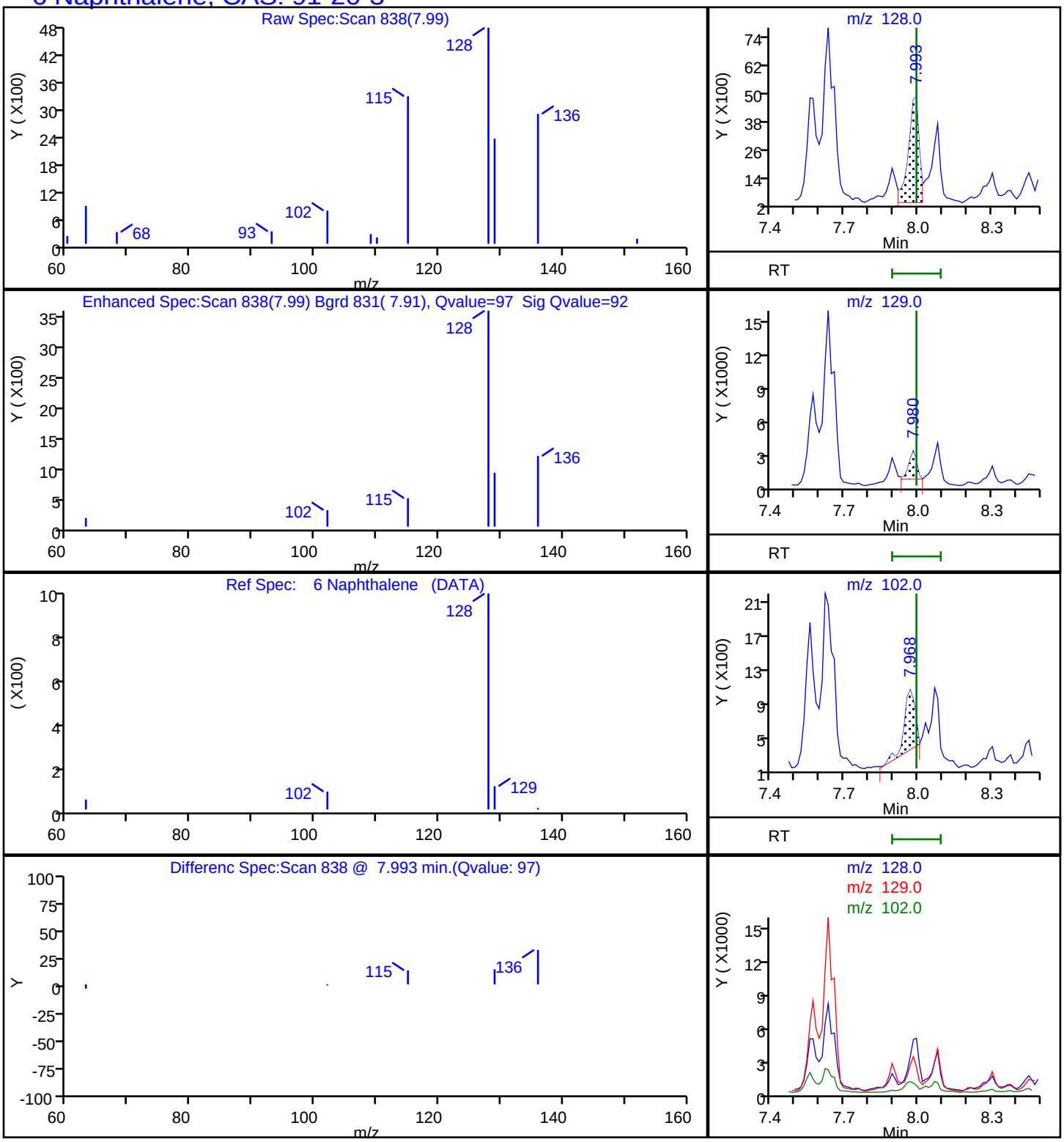
17 Fluorene, CAS: 86-73-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D		
Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15
Client ID:	MW-4S-20211222		
Operator ID:	jmg00346	ALS Bottle#:	20 Worklist Smp#: 20
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



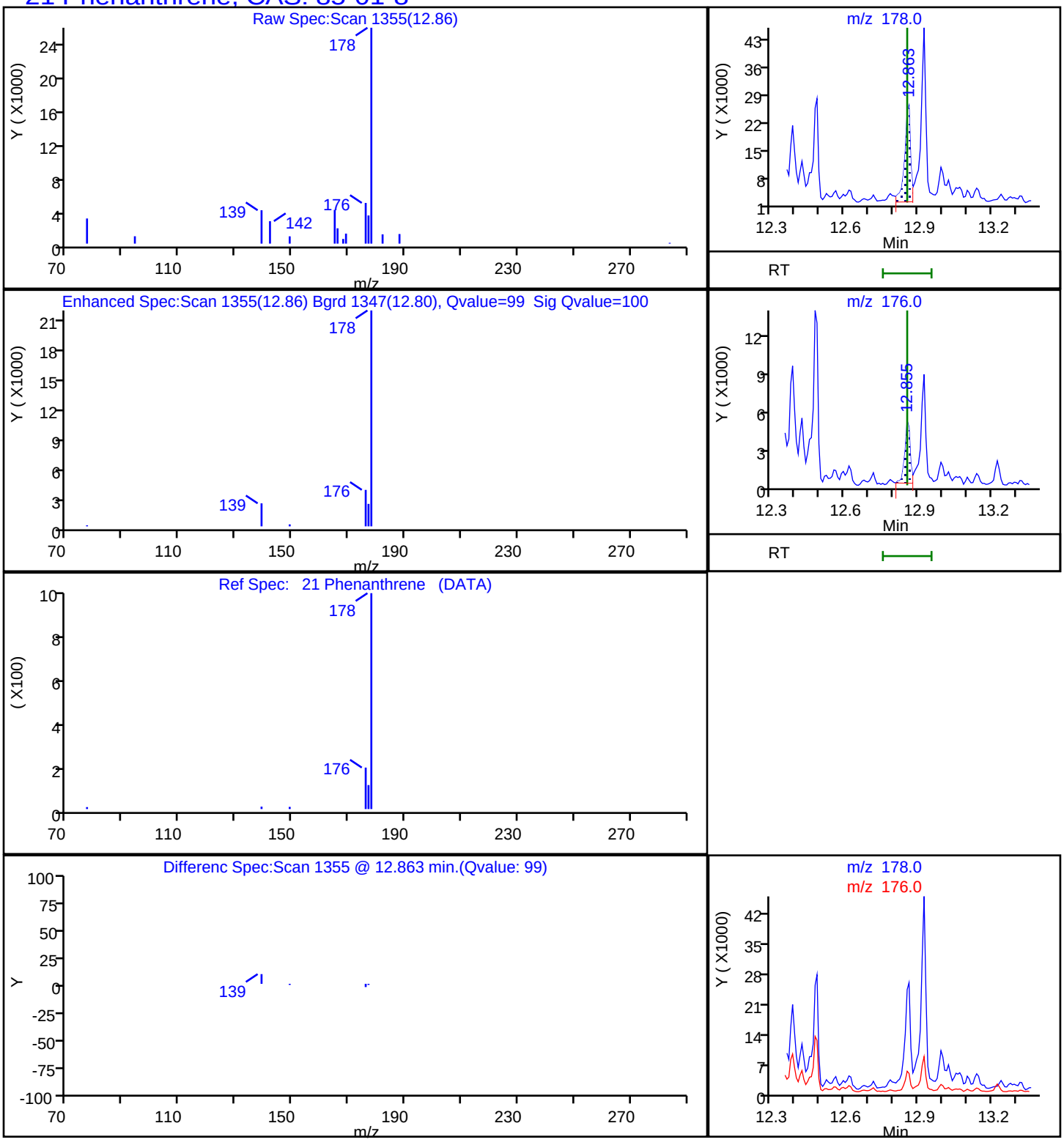
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D

Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	20	Worklist Smp#:	20
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		

21 Phenanthrene, CAS: 85-01-8



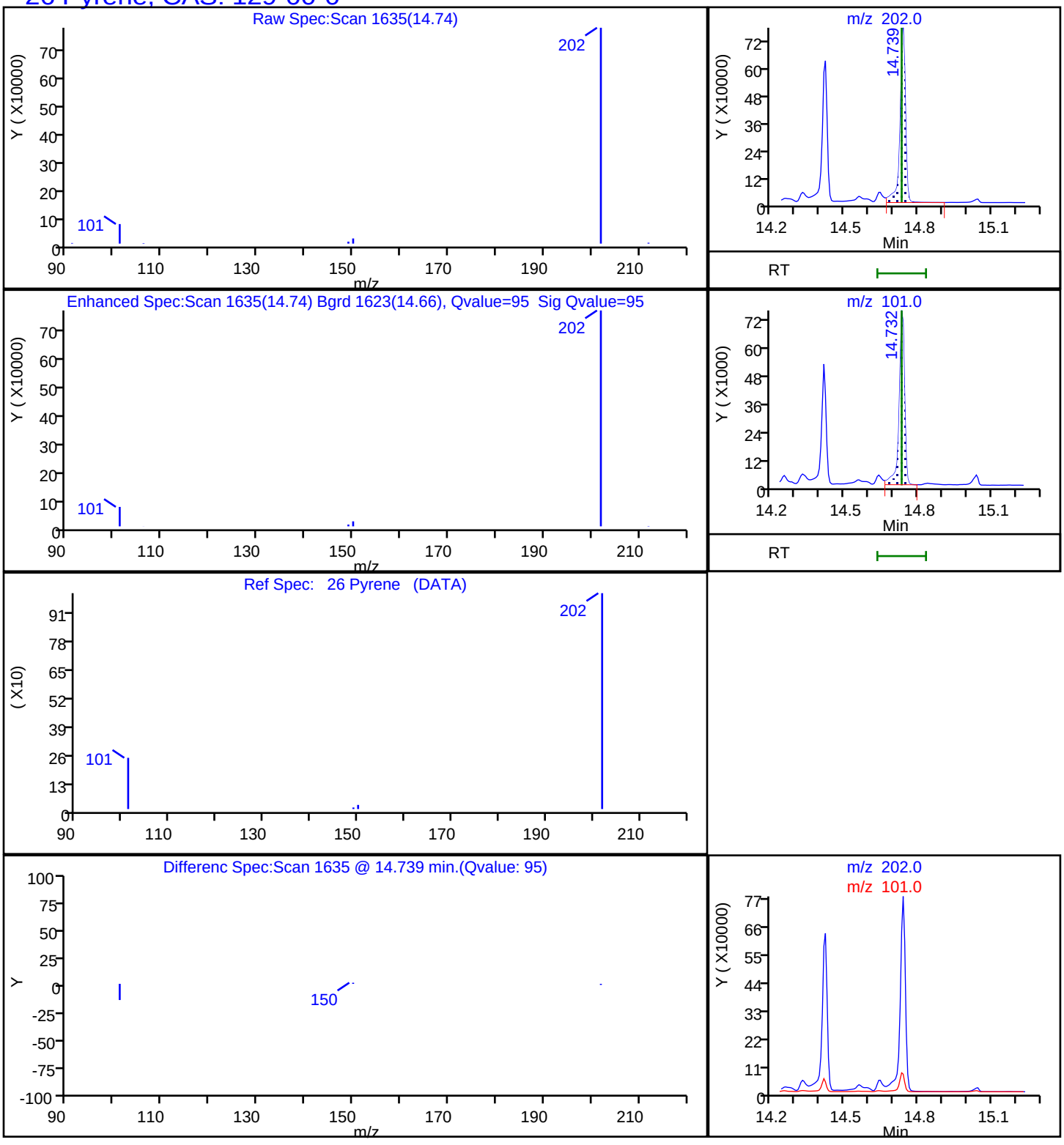
Report Date: 31-Dec-2021 14:02:30 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D

Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	20	Worklist Smp#:	20
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

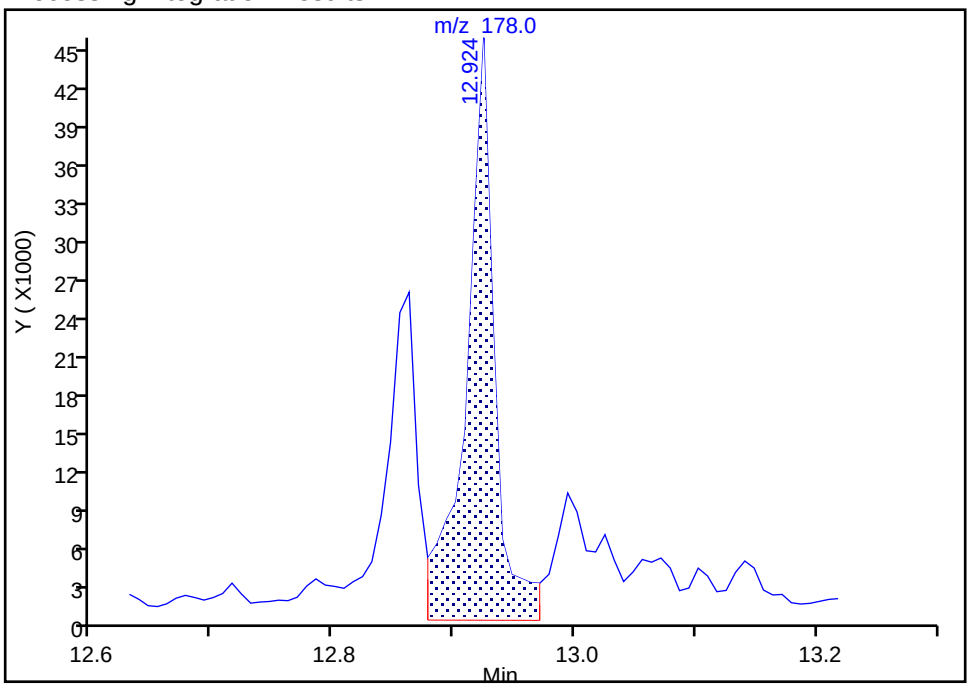
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D				
Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 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		

22 Anthracene, CAS: 120-12-7

Signal: 1

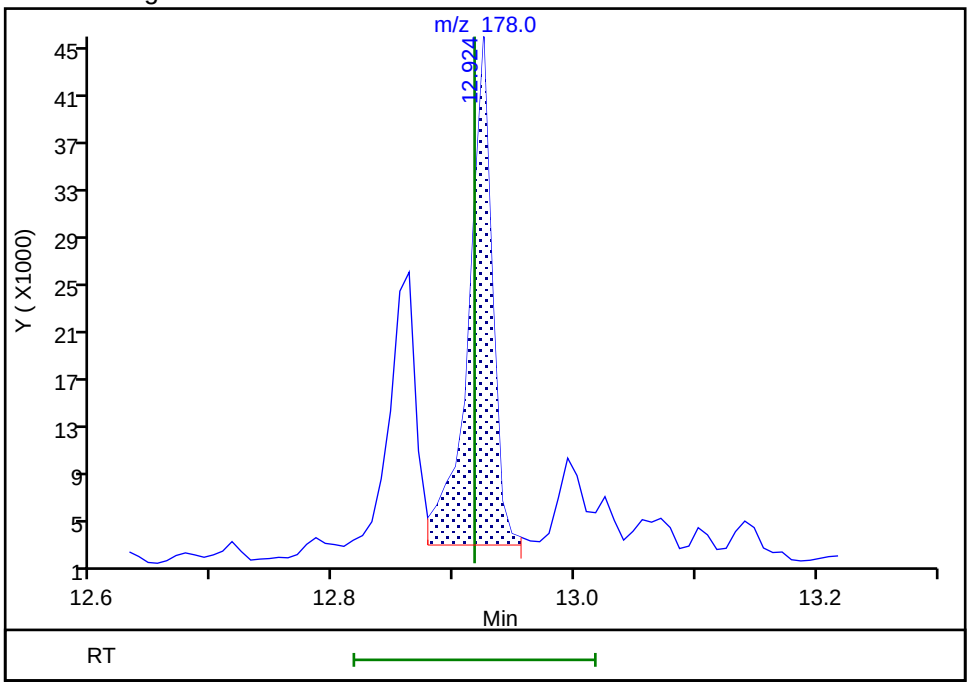
Processing Integration Results

RT: 12.92
Area: 72719
Amount: 0.099477
Amount Units: ug/ml



Manual Integration Results

RT: 12.92
Area: 57947
Amount: 0.079270
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:48:29

Audit Action: Manually Integrated Audit Reason: Baseline

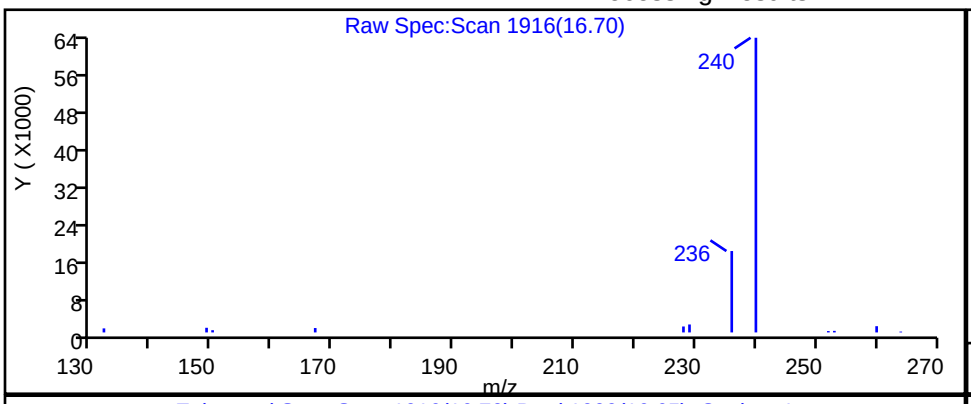
User Disabled Compound Report

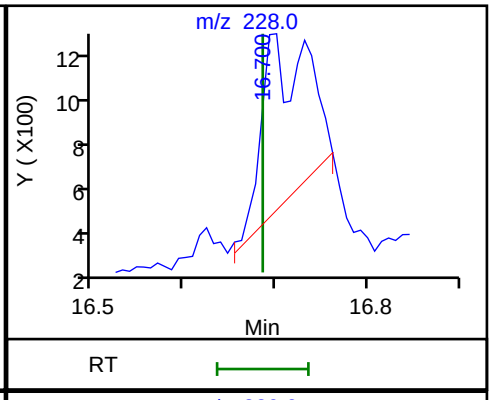
Eurofins Lancaster Laboratories Env, LLC

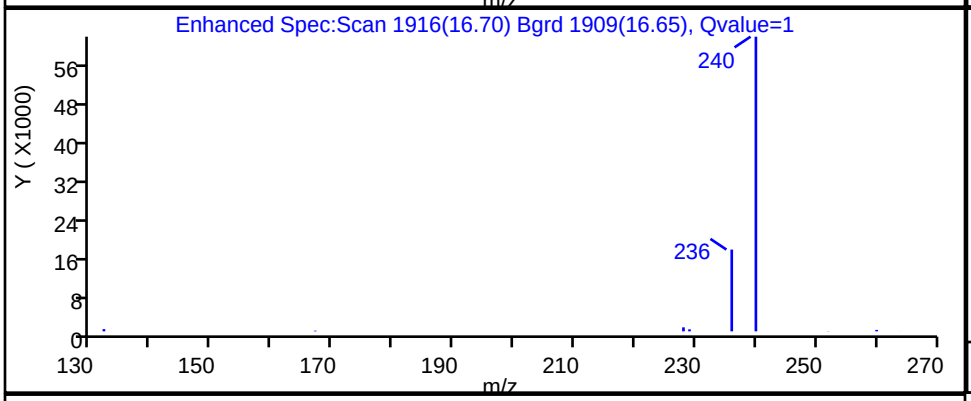
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1489.D				
Injection Date:	30-Dec-2021 14:33:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 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		

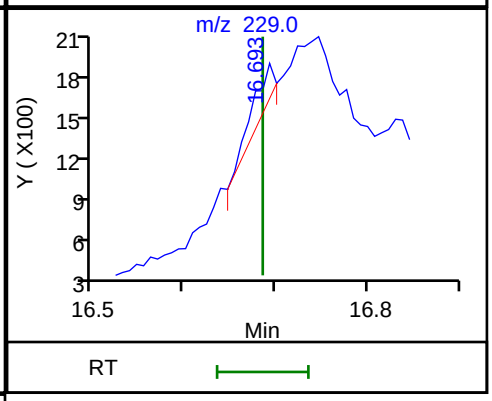
28 Benzo[a]anthracene, CAS: 56-55-3

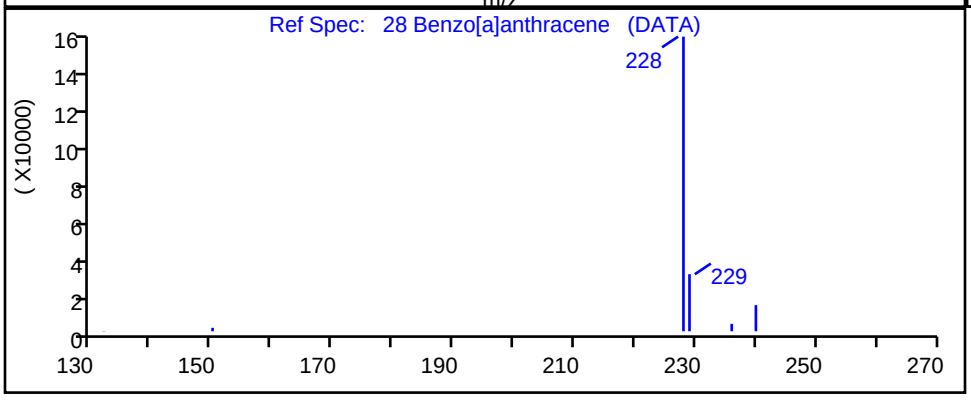
Processing Results











RT	Mass	Response	Amount
16.70	228.00	2582	0.003334
16.69	229.00	443	

Reviewer: transuea, 31-Dec-2021 13:48:36

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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-4S-20211222 DL Lab Sample ID: 410-68043-15 DL

Matrix: Ground Water Lab File ID: NA0002.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 09:31

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 245.6(mL) Date Analyzed: 01/03/2022 06:52

Con. Extract Vol.: 1(mL) Dilution Factor: 5

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210939 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	21		0.25	0.051

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	61		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	95		36-111
93951-69-0	Fluoranthene-d10 (Surr)	102		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0002.D
Lims ID: 410-68043-A-15-A DL
Client ID: MW-4S-20211222
Sample Type: Client
Inject. Date: 03-Jan-2022 06:52:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 5.0000
Sample Info: 410-68043-A-15-A
Misc. Info.: 410-0047551-003
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 04-Jan-2022 07:28:34 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: gamblerj Date: 04-Jan-2022 07:26:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.894	5.893	0.001	95	53295	0.2500	
* 5 Naphthalene-d8	136	7.943	7.943	0.000	100	150375	0.2500	
6 Naphthalene	128	7.968	7.968	0.000	32	1728	0.002749	7M
$ 9 1-Methylnaphthalene-d10	152	9.213	9.213	0.000	99	15117	0.0474	
12 Acenaphthylene	152	10.565	10.565	0.000	98	22985	0.0372	
* 13 Acenaphthene-d10	164	10.806	10.806	0.000	97	86672	0.2500	
14 Acenaphthene	154	10.846	10.855	-0.010	95	392583	1.02	
17 Fluorene	166	11.666	11.673	-0.007	98	190566	0.4212	
* 20 Phenanthrene-d10	188	12.816	12.816	0.000	100	171617	0.2500	
21 Phenanthrene	178	12.847	12.839	0.007	98	7731	0.0103	
22 Anthracene	178	12.909	12.909	0.000	99	11195	0.0159	
$ 24 Fluoranthene-d10 (Surr)	212	14.375	14.375	0.000	96	33656	0.0512	
25 Fluoranthene	202	14.400	14.400	0.000	96	243432	0.3299	
26 Pyrene	202	14.720	14.720	0.000	95	296961	0.2926	
* 29 Chrysene-d12	240	16.693	16.693	0.000	81	162230	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	18.994	18.986	0.000	97	24090	0.0307	
* 38 Perylene-d12	264	19.124	19.124	0.000	94	185610	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

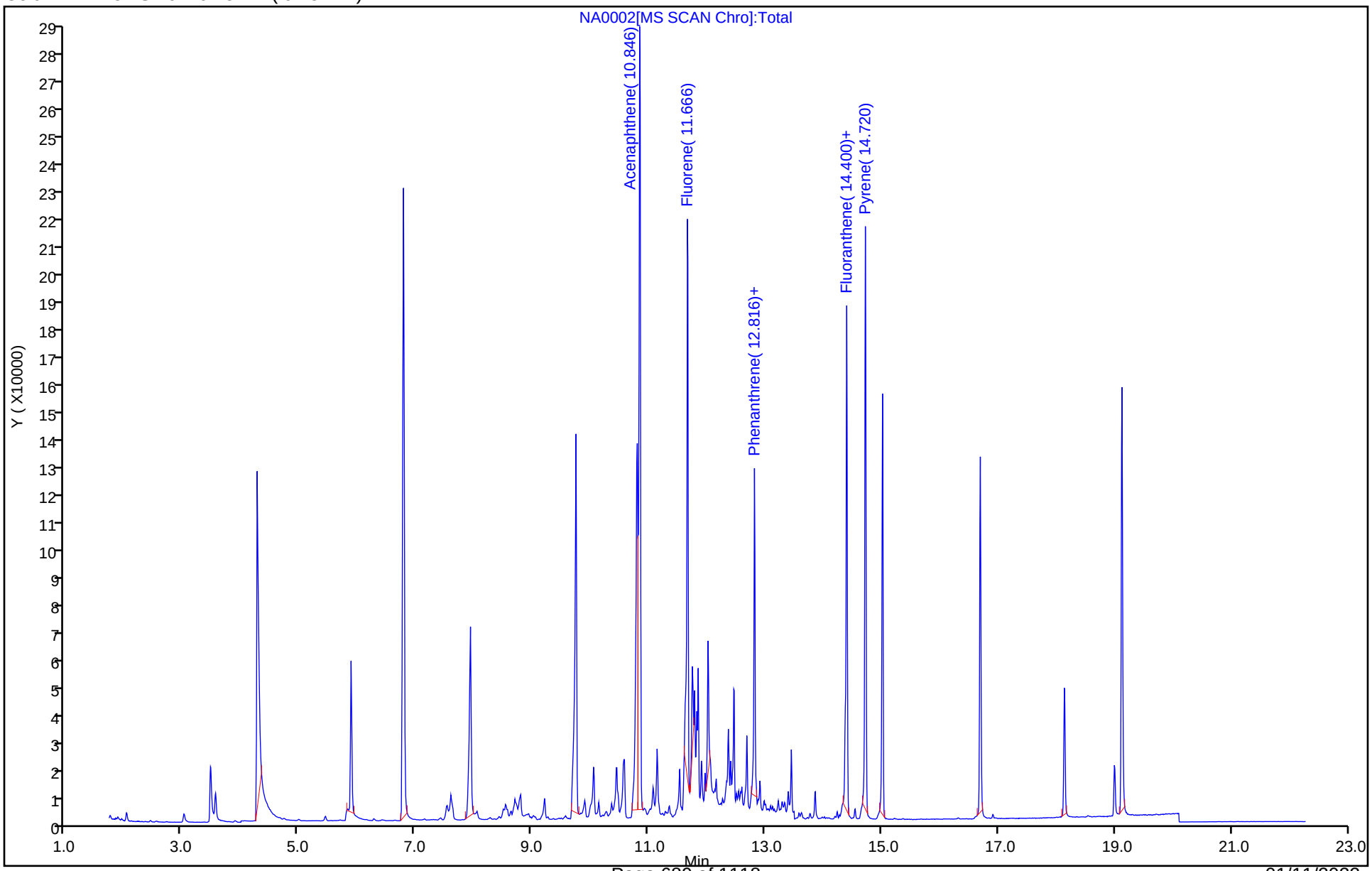
Report Date: 04-Jan-2022 07:29:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0002.D

Injection Date:	03-Jan-2022 06:52:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-15-A DL	Lab Sample ID:	410-68043-15	Worklist Smp#:	3
Client ID:	MW-4S-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	3
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



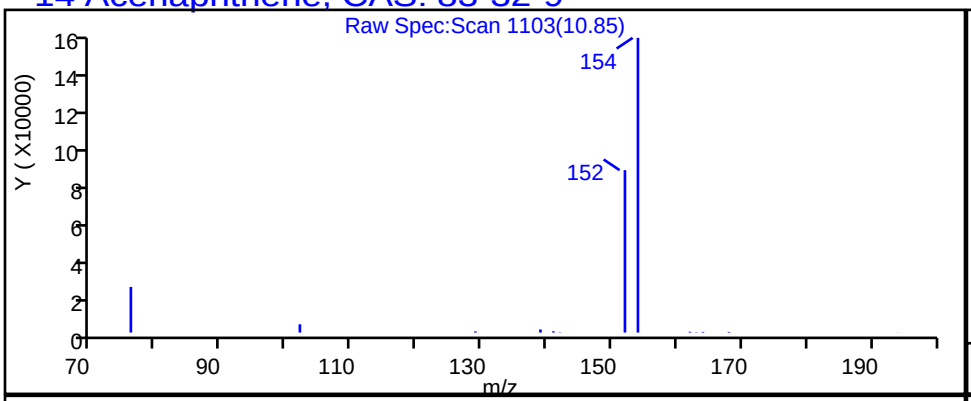
Report Date: 04-Jan-2022 07:29:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

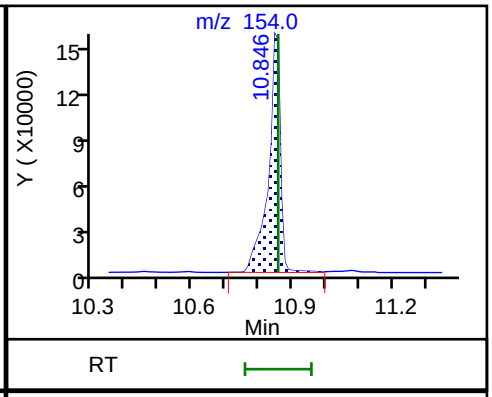
Eurofins Lancaster Laboratories Env, LLC

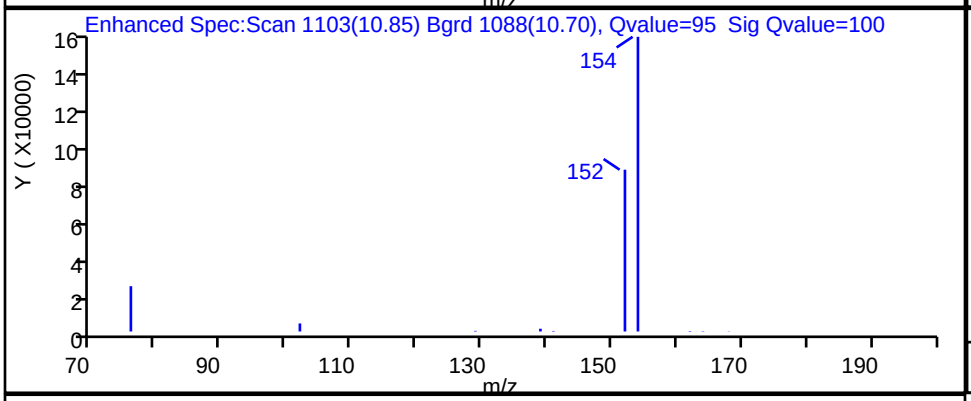
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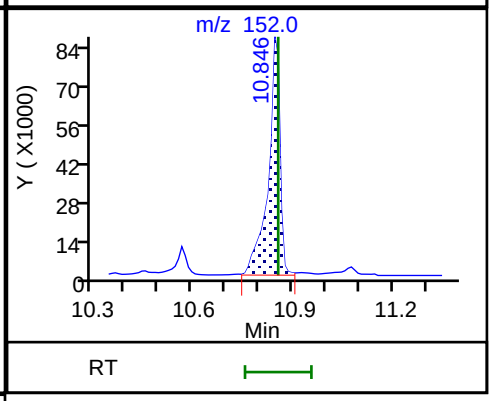
Injection Date:	03-Jan-2022 06:52:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-15-A DL	Lab Sample ID:	410-68043-15		
Client ID:	MW-4S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

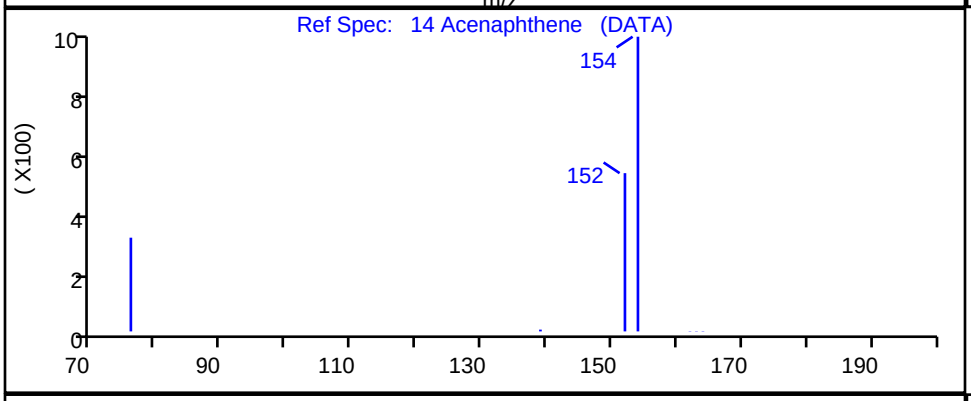
14 Acenaphthene, CAS: 83-32-9

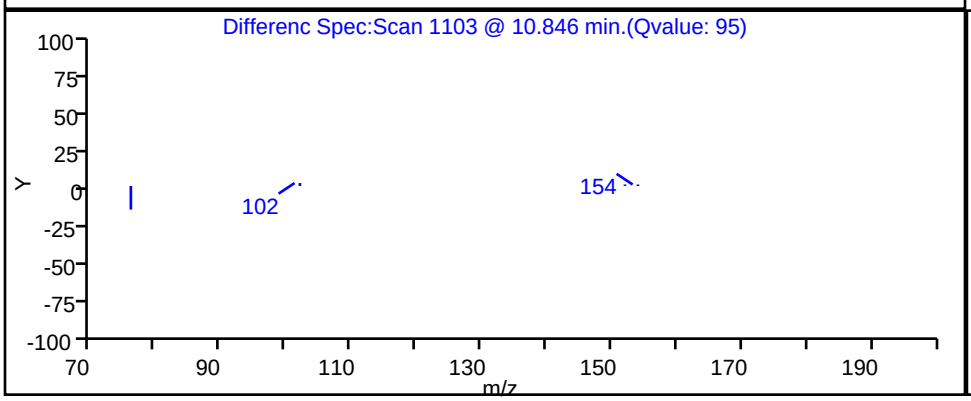


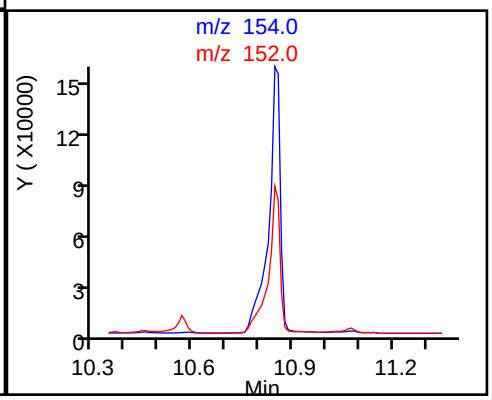












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-4D-20211222 Lab Sample ID: 410-68043-16

Matrix: Ground Water Lab File ID: NL1490.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 10:08

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 249.4(mL) Date Analyzed: 12/30/2021 15:01

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 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	0.011	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	64		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	85		36-111
93951-69-0	Fluoranthene-d10 (Surr)	89		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D				
Lims ID:	410-68043-A-16-A				
Client ID:	MW-4D-20211222				
Sample Type:	Client				
Inject. Date:	30-Dec-2021 15:01:30	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-68043-A-16-A				
Misc. Info.:	410-0047435-021				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	31-Dec-2021 14:01:57	Calib Date:	16-Dec-2021 11:36:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1635				
First Level Reviewer: transuea		Date:	31-Dec-2021 13:50:01		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.918	5.919	-0.001	100	58002	0.2500	
* 5 Naphthalene-d8	136	7.955	7.956	-0.001	100	176648	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	99	79398	0.2118	
* 13 Acenaphthene-d10	164	10.826	10.816	0.010	98	102028	0.2500	
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	100	177813	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.394	14.394	0.006	96	152179	0.2233	
26 Pyrene	202	14.745	14.739	0.013	92	3007	0.002862	
* 29 Chrysene-d12	240	16.708	16.700	0.008	81	167909	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.017	19.009	0.008	96	113883	0.1596	
* 38 Perylene-d12	264	19.147	19.139	0.008	94	195863	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

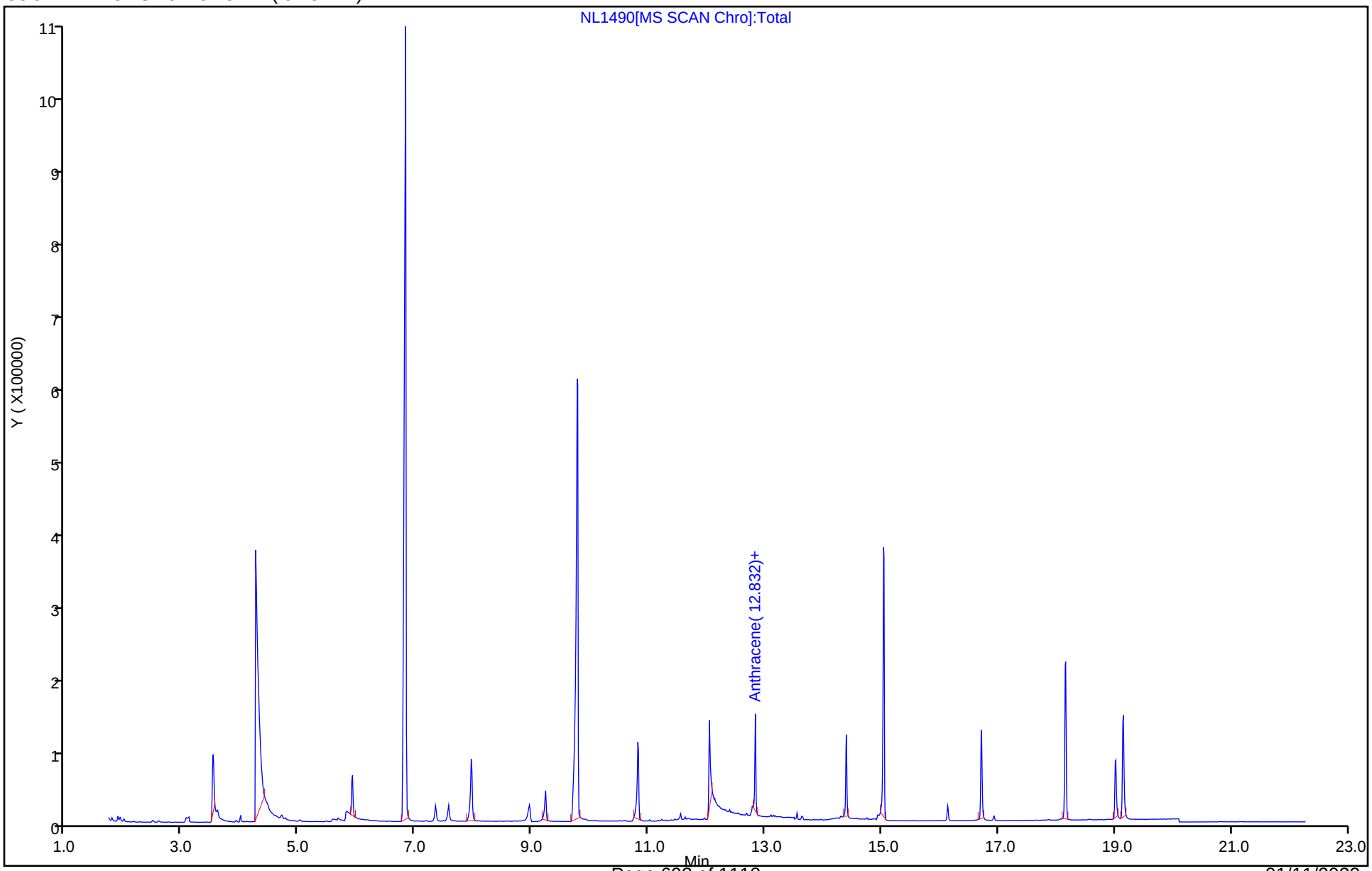
Report Date: 31-Dec-2021 14:02:30 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D

Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16	Worklist Smp#:	21
Client ID:	MW-4D-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



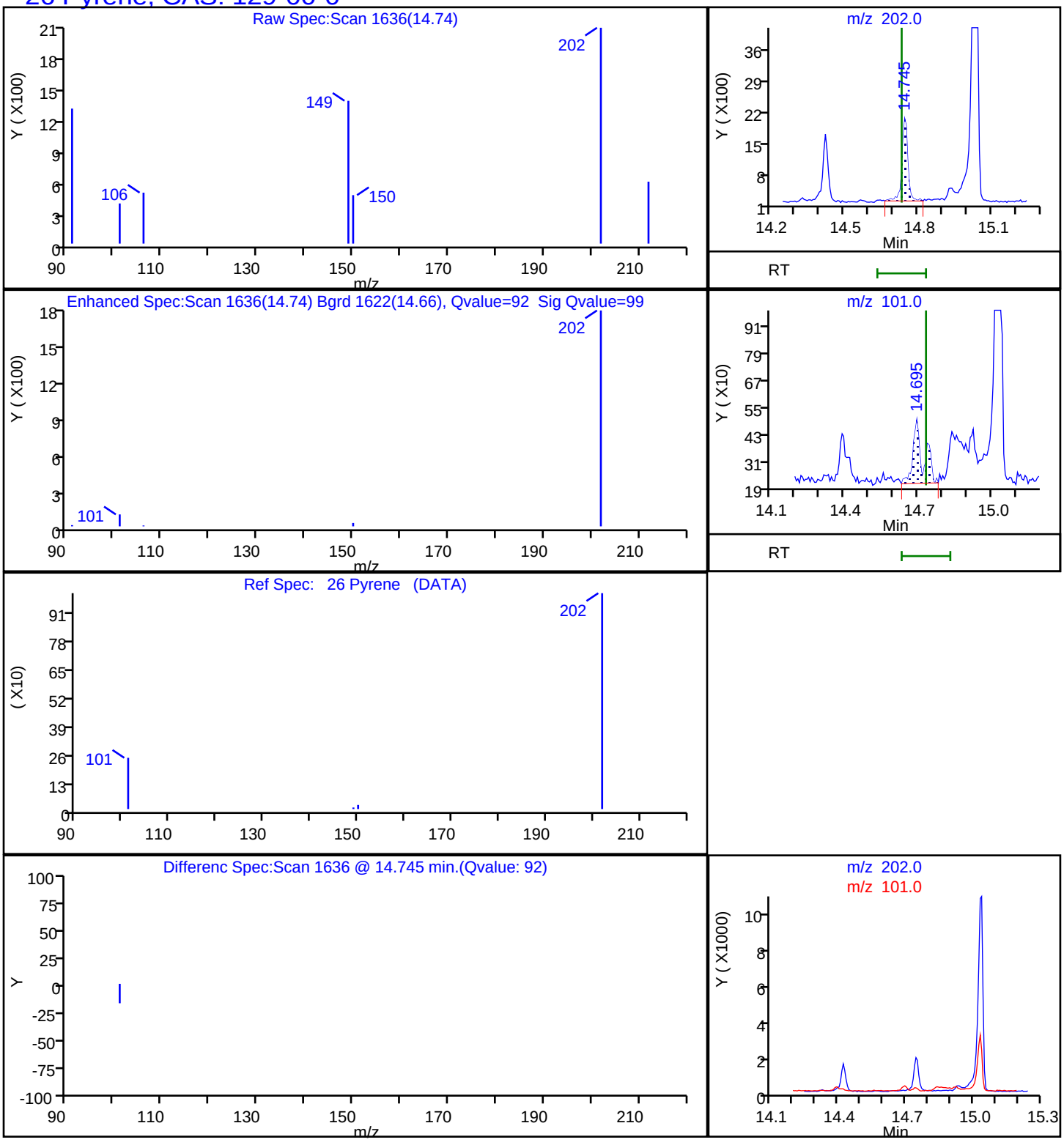
Report Date: 31-Dec-2021 14:02:30 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D

Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16		
Client ID:	MW-4D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
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		

26 Pyrene, CAS: 129-00-0



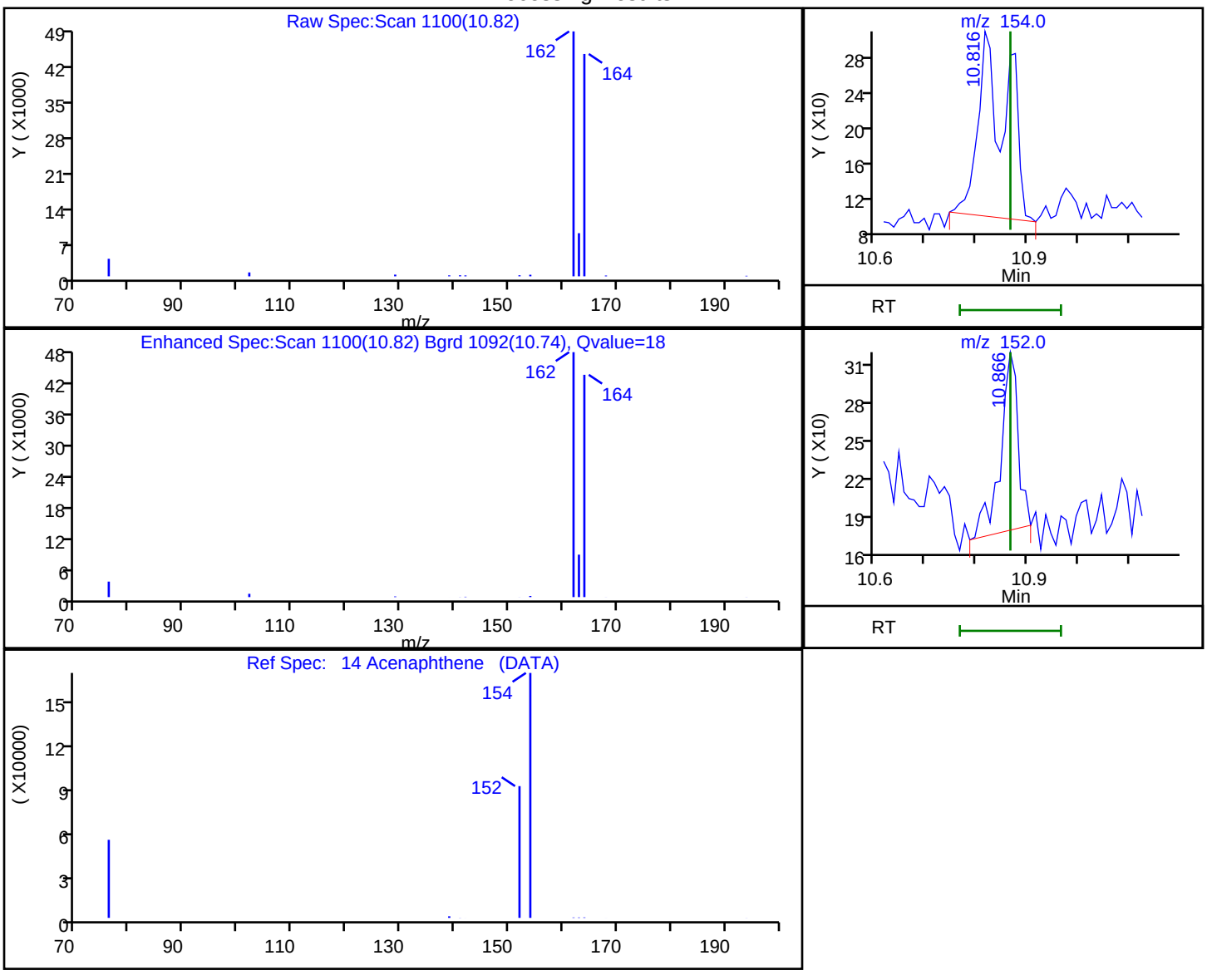
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D				
Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16		
Client ID:	MW-4D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
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		

14 Acenaphthene, CAS: 83-32-9

Processing Results



RT	Mass	Response	Amount
10.82	154.00	812	0.001791
10.87	152.00	323	

Reviewer: transuea, 31-Dec-2021 13:49:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

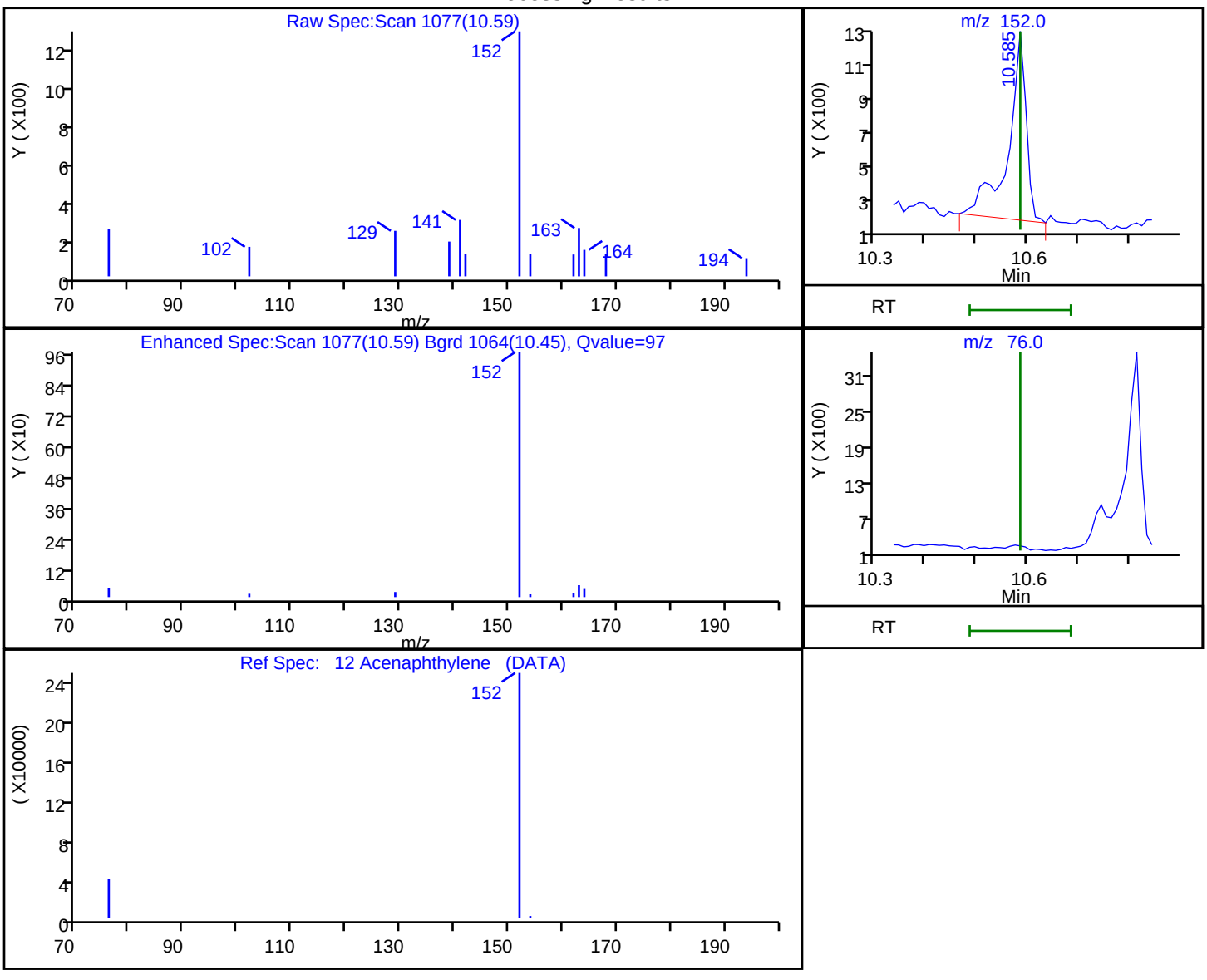
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D				
Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16		
Client ID:	MW-4D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
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		

12 Acenaphthylene, CAS: 208-96-8

Processing Results



RT	Mass	Response	Amount
10.59	152.00	2440	0.003354
10.59	76.00	0	

Reviewer: transuea, 31-Dec-2021 13:49:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

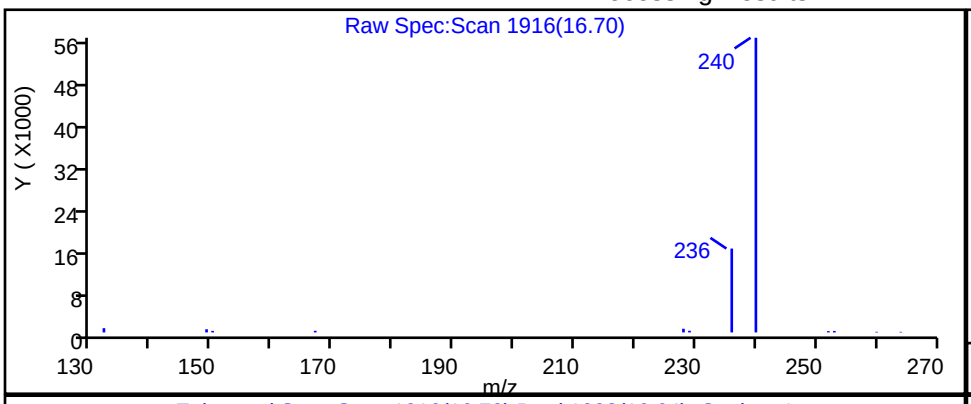
User Disabled Compound Report

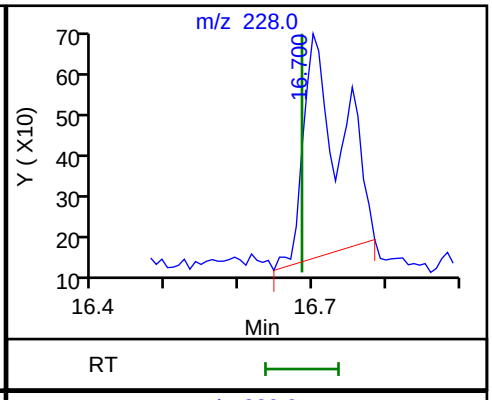
Eurofins Lancaster Laboratories Env, LLC

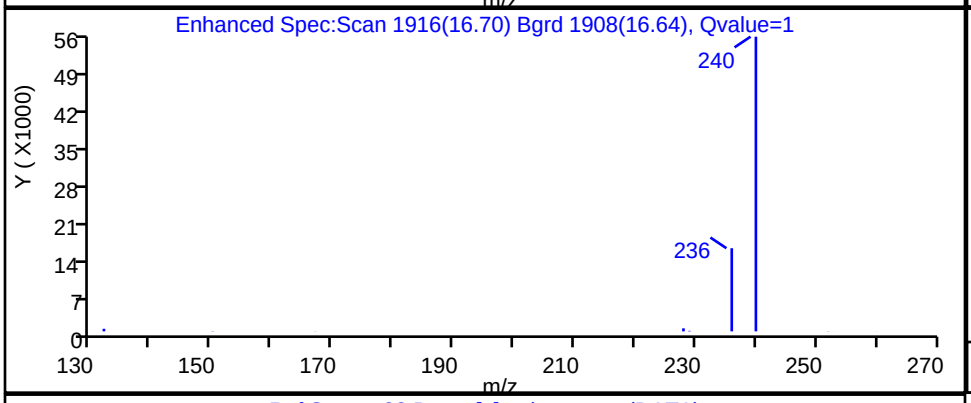
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D				
Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16		
Client ID:	MW-4D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 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		

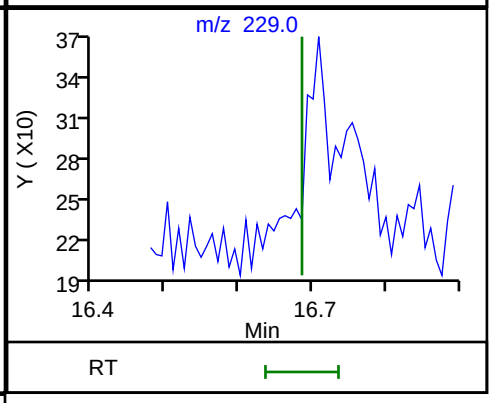
28 Benzo[a]anthracene, CAS: 56-55-3

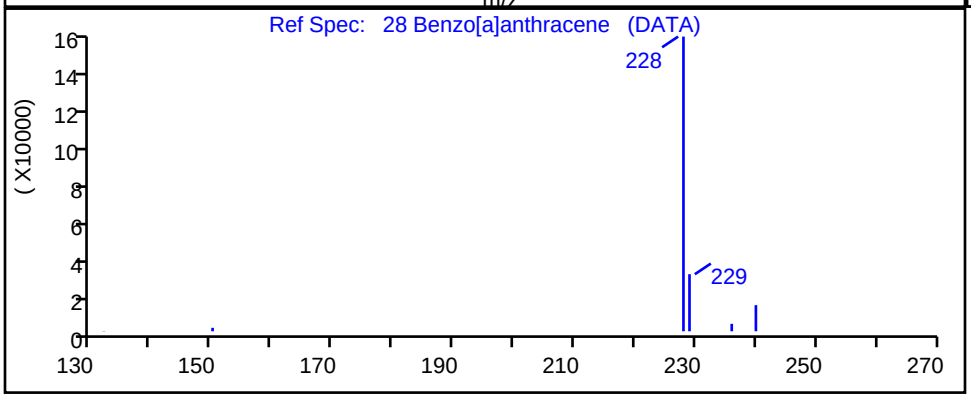
Processing Results











RT	Mass	Response	Amount
16.70	228.00	1967	0.002445
16.69	229.00	0	

Reviewer: transuea, 31-Dec-2021 13:49:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

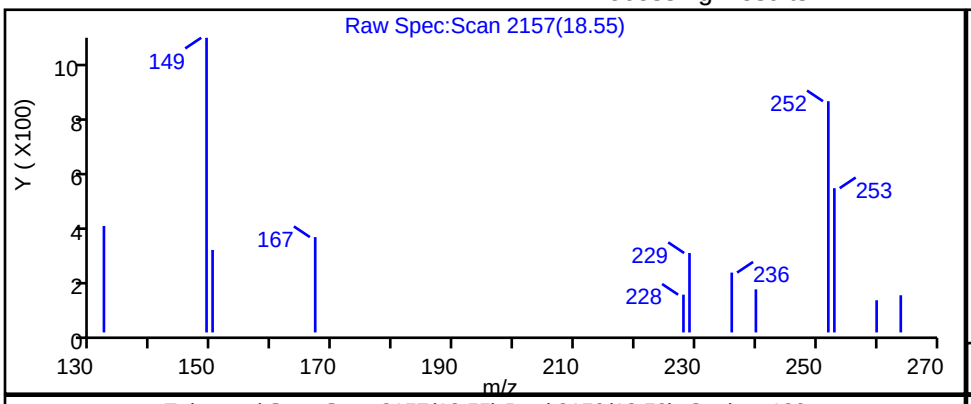
User Disabled Compound Report

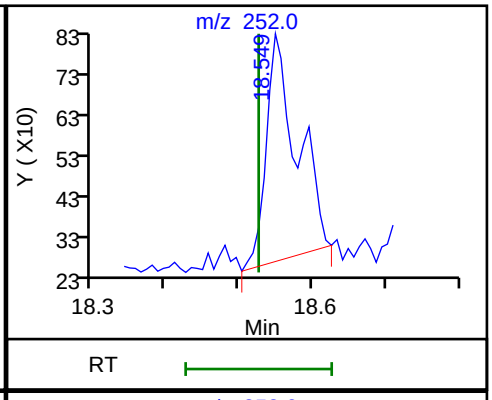
Eurofins Lancaster Laboratories Env, LLC

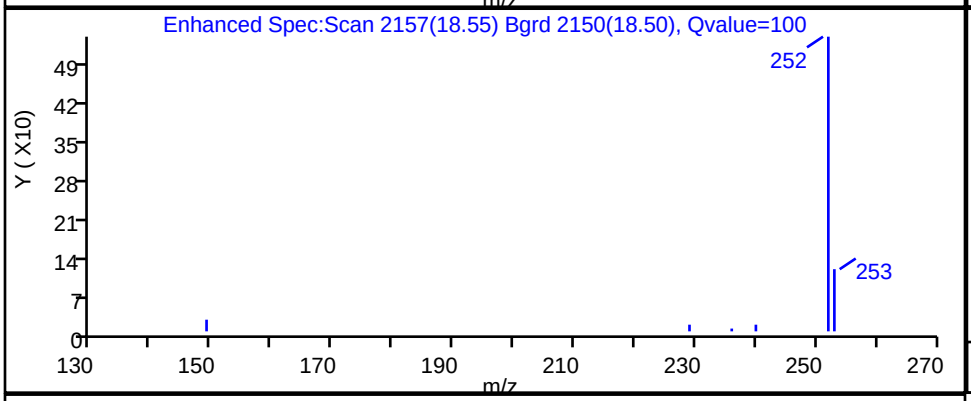
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Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16		
Client ID:	MW-4D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

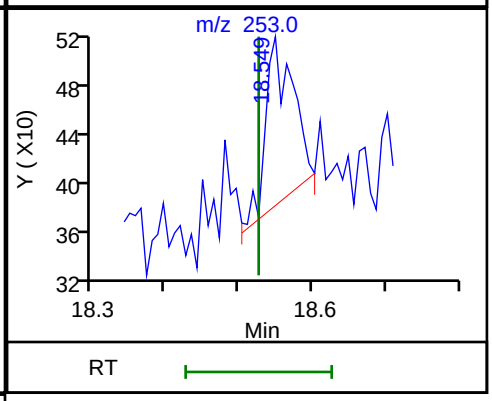
33 Benzo[b]fluoranthene, CAS: 205-99-2

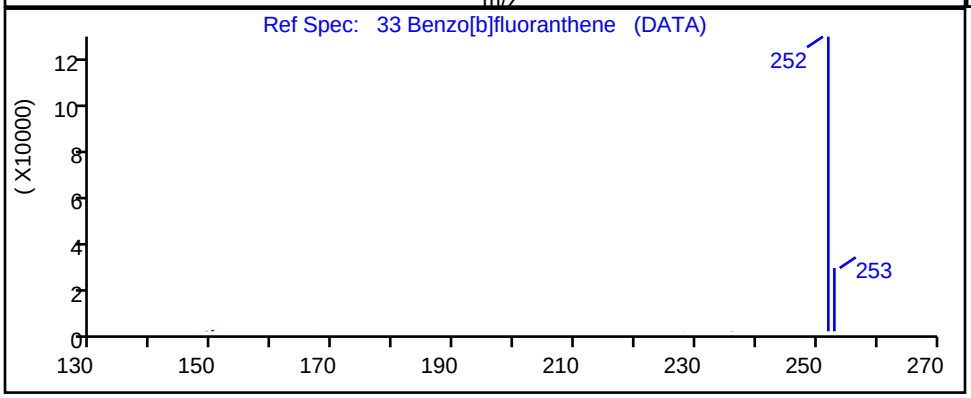
Processing Results











RT	Mass	Response	Amount
18.55	252.00	1630	0.001691
18.55	253.00	342	

Reviewer: transuea, 31-Dec-2021 13:49:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

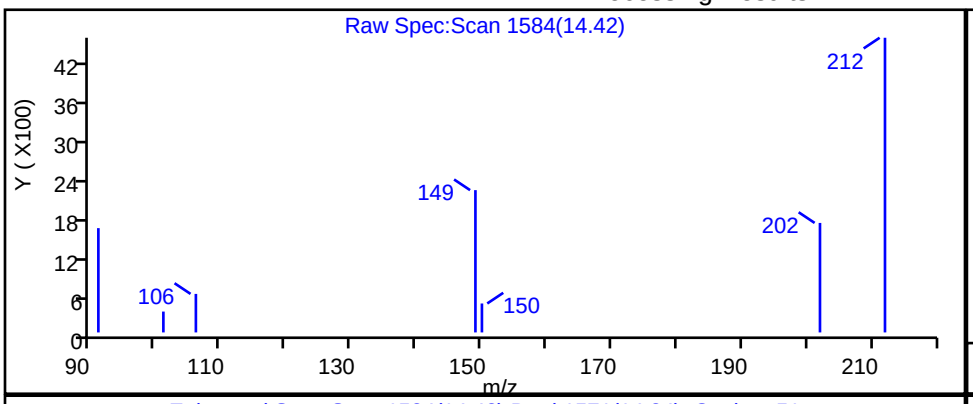
User Disabled Compound Report

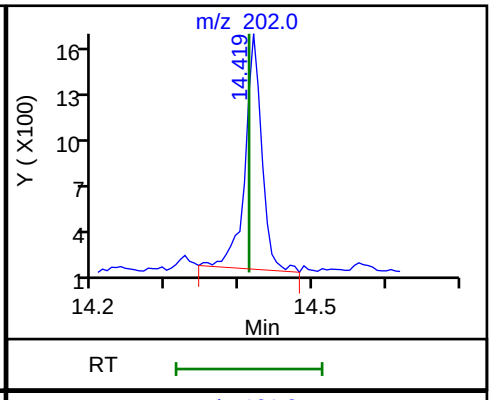
Eurofins Lancaster Laboratories Env, LLC

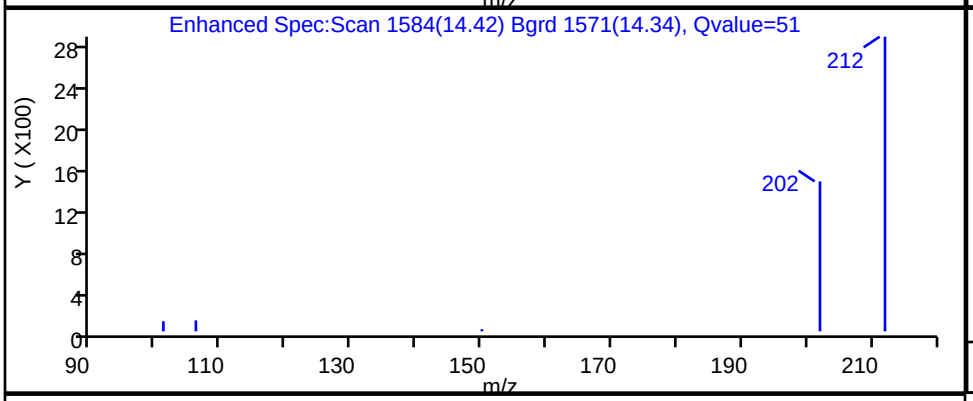
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D				
Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16		
Client ID:	MW-4D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 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		

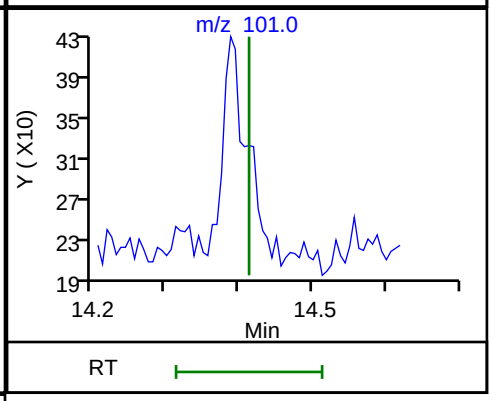
25 Fluoranthene, CAS: 206-44-0

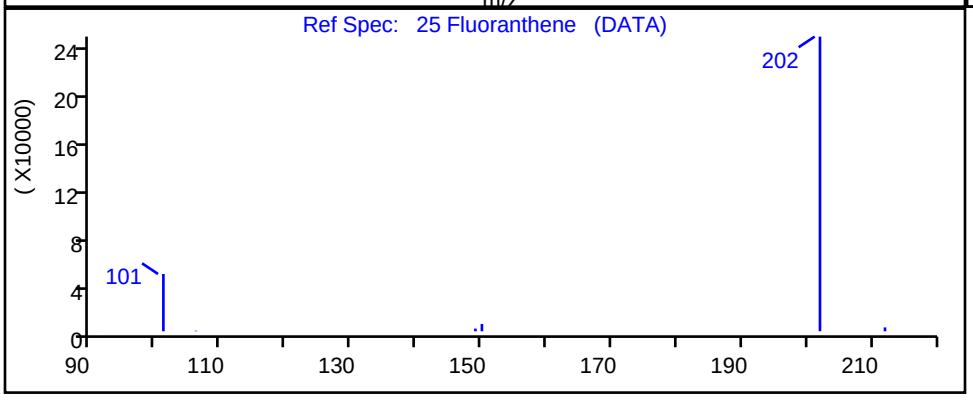
Processing Results











RT	Mass	Response	Amount
14.42	202.00	2384	0.003118
14.41	101.00	0	

Reviewer: transuea, 31-Dec-2021 13:49:30

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

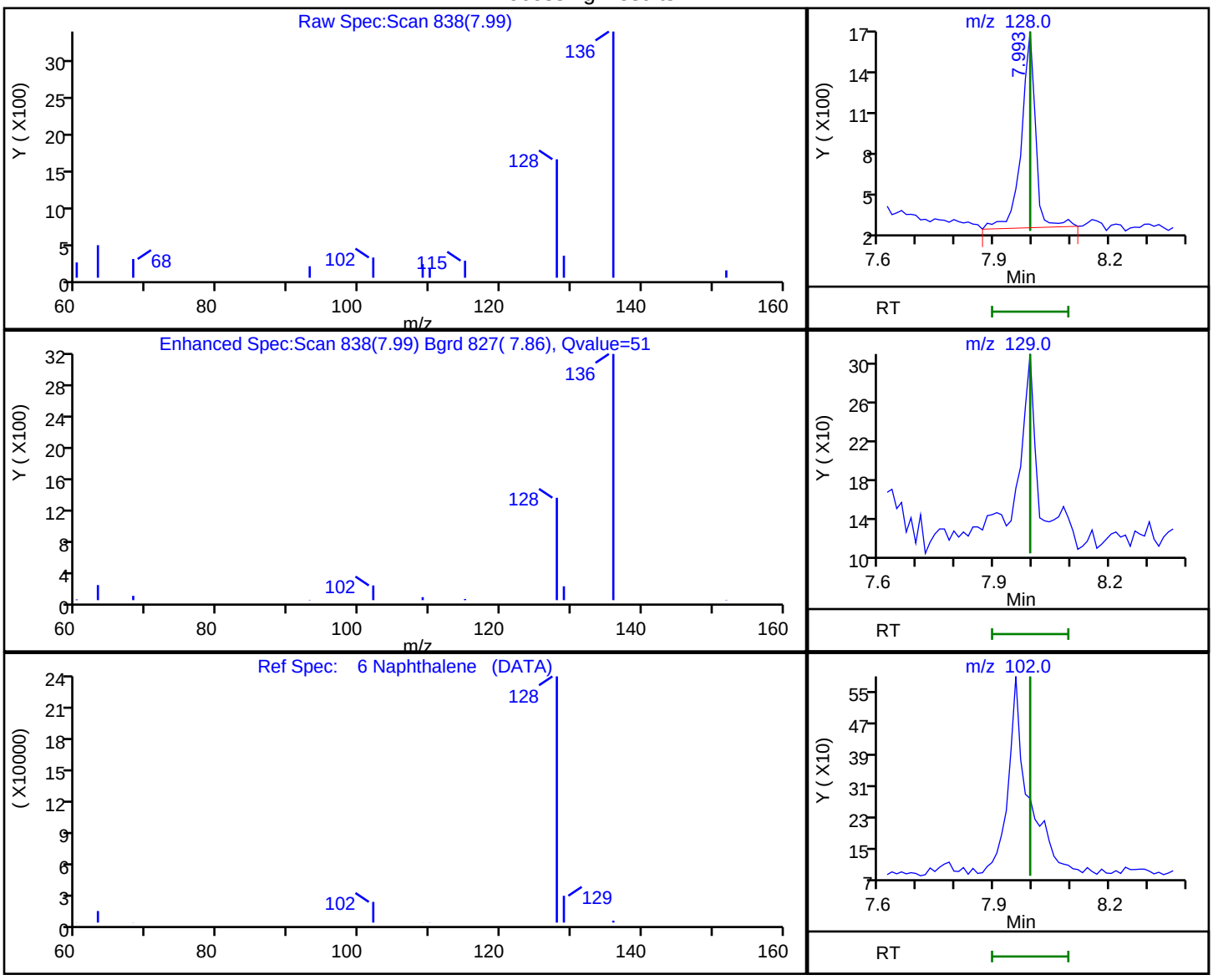
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1490.D				
Injection Date:	30-Dec-2021 15:01:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-16-A	Lab Sample ID:	410-68043-16		
Client ID:	MW-4D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	21	Worklist Smp#:	21
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

Processing Results



RT	Mass	Response	Amount
7.99	128.00	3464	0.004690
7.99	129.00	0	
7.99	102.00	0	

Reviewer: transuea, 31-Dec-2021 13:48:57

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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-3-20211222 Lab Sample ID: 410-68043-17

Matrix: Ground Water Lab File ID: NL1491.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 10:51

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 236.6(mL) Date Analyzed: 12/30/2021 15:28

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	4.9		0.053	0.011
120-12-7	Anthracene	1.7		0.053	0.011
56-55-3	Benzo[a]anthracene	0.73		0.053	0.011
50-32-8	Benzo[a]pyrene	0.013	J	0.053	0.011
205-99-2	Benzo[b]fluoranthene	0.020	J	0.053	0.011
191-24-2	Benzo[g,h,i]perylene	ND		0.053	0.011
207-08-9	Benzo[k]fluoranthene	ND		0.053	0.011
218-01-9	Chrysene	0.41		0.053	0.011
53-70-3	Dibenz(a,h)anthracene	ND		0.053	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.053	0.021
85-01-8	Phenanthrene	10		0.074	0.032
129-00-0	Pyrene	9.9		0.053	0.011

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	77		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		36-111
93951-69-0	Fluoranthene-d10 (Surr)	87		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D
Lims ID: 410-68043-A-17-A
Client ID: MW-3-20211222
Sample Type: Client
Inject. Date: 30-Dec-2021 15:28:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-17-A
Misc. Info.: 410-0047435-022
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:01:57 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 13:52:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.918	5.919	-0.001	96	51267	0.2500	
* 5 Naphthalene-d8	136	7.968	7.956	0.012	6	158912	0.2500	
6 Naphthalene	128	8.005	7.993	0.012	100	13130575	19.8	E
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	27	63501	0.1883	
12 Acenaphthylene	152	10.585	10.585	0.000	97	678535	1.15	a
* 13 Acenaphthene-d10	164	10.826	10.816	0.010	93	82657	0.2500	M
14 Acenaphthene	154	10.876	10.876	0.010	94	3163971	8.61	EM
17 Fluorene	166	11.689	11.689	0.008	100	1209348	2.80	EM
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	84	128811	0.2500	M
21 Phenanthrene	178	12.855	12.855	0.000	100	1393379	2.47	
22 Anthracene	178	12.917	12.924	0.000	99	208432	0.3944	
$ 24 Fluoranthene-d10 (Surr)	212	14.394	14.394	0.006	94	107022	0.2168	M
25 Fluoranthene	202	14.419	14.419	0.006	93	1703792	3.08	E
26 Pyrene	202	14.739	14.739	0.007	95	2075420	2.35	
28 Benzo[a]anthracene	228	16.693	16.693	0.008	100	116579	0.1722	
* 29 Chrysene-d12	240	16.708	16.700	0.008	93	141311	0.2500	
30 Chrysene	228	16.754	16.754	0.008	100	72977	0.0962	
33 Benzo[b]fluoranthene	252	18.541	18.549	0.015	100	4405	0.004731	M
34 Benzo[k]fluoranthene	252	18.579	18.579	0.007	97	1187	0.001119	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.017	19.009	0.008	95	132512	0.1936	
37 Benzo[a]pyrene	252	19.047	19.055	0.000	100	2670	0.002968	
* 38 Perylene-d12	264	19.147	19.139	0.008	94	189162	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.763	20.763	0.022	95	1370	0.001671	
42 Benzo[g,h,i]perylene	276	21.123	21.123	0.021	89	1430	0.001379	M

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00021	Amount Added:	10.00	Units: uL	Run Reagent

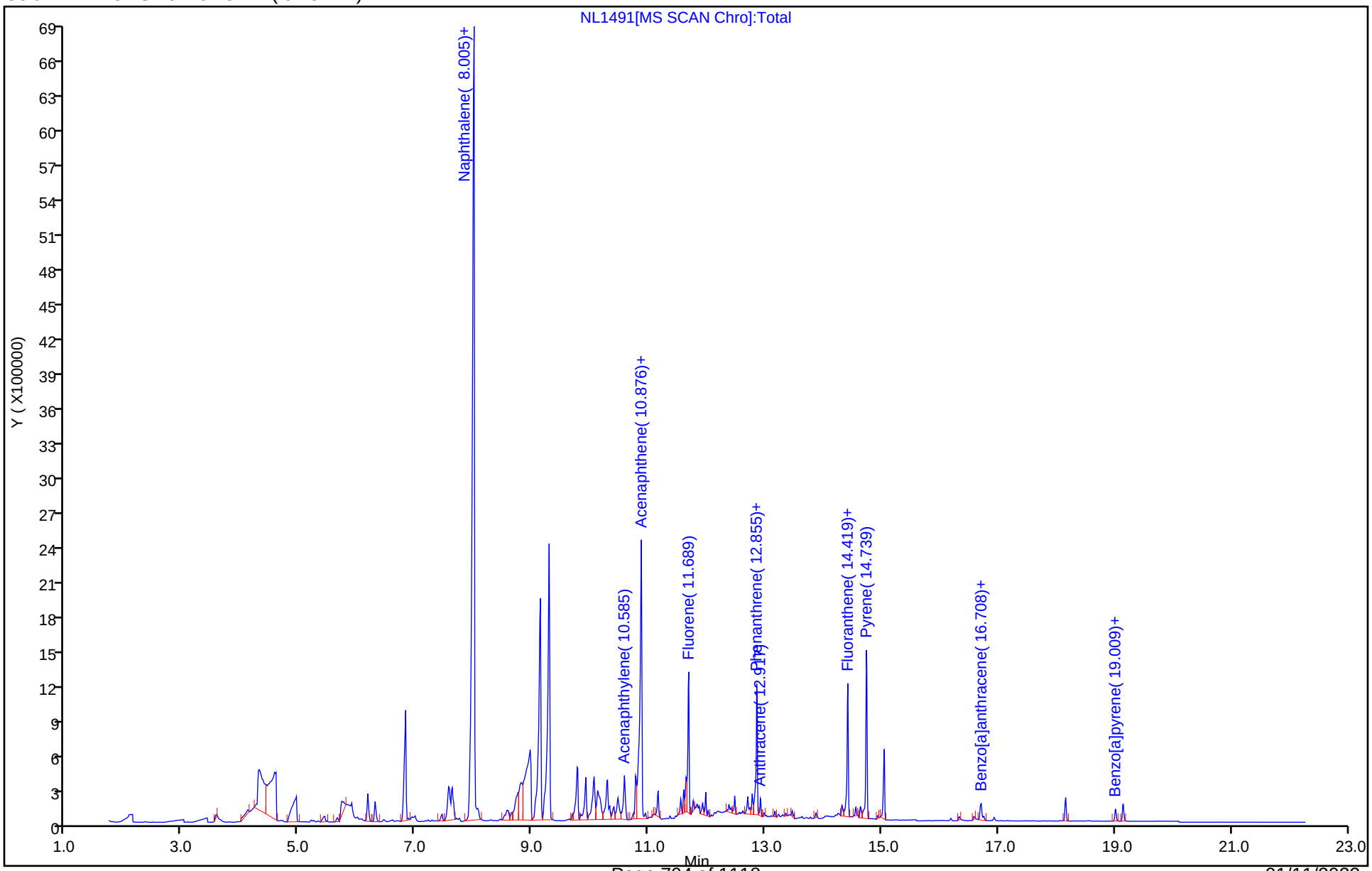
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D

Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17	Worklist Smp#:	22
Client ID:	MW-3-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



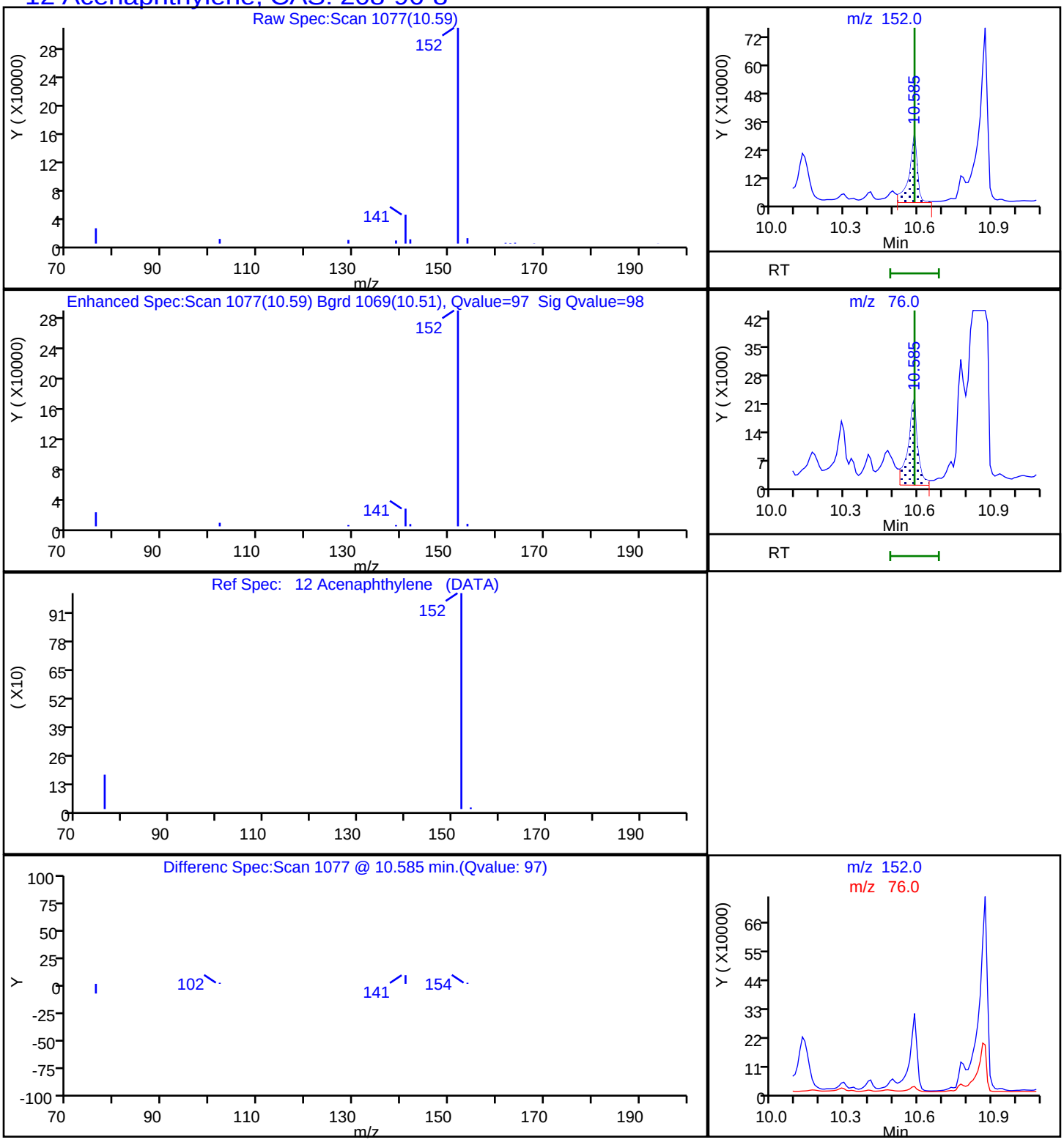
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D

Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
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		

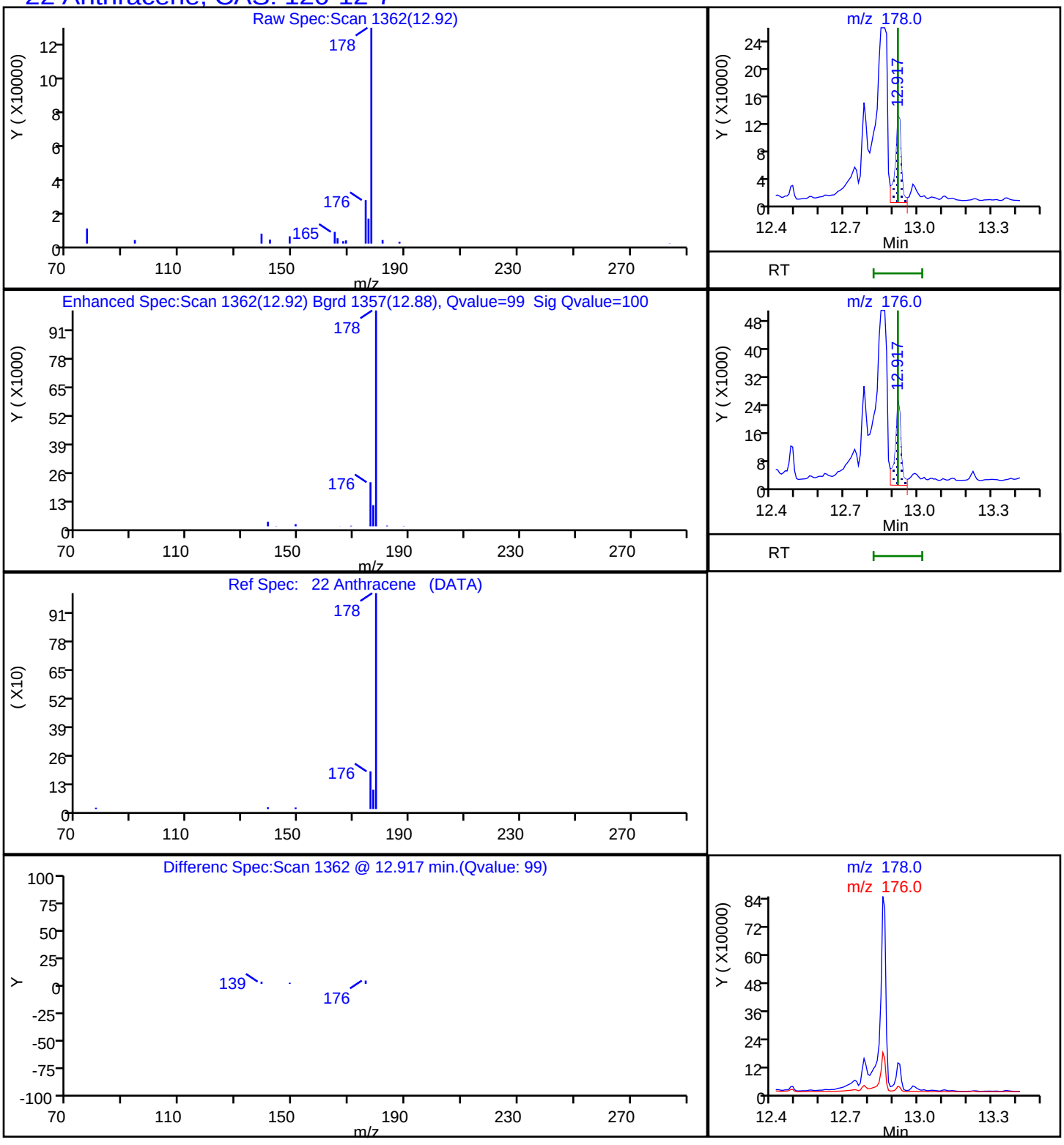
12 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D				
Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
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		

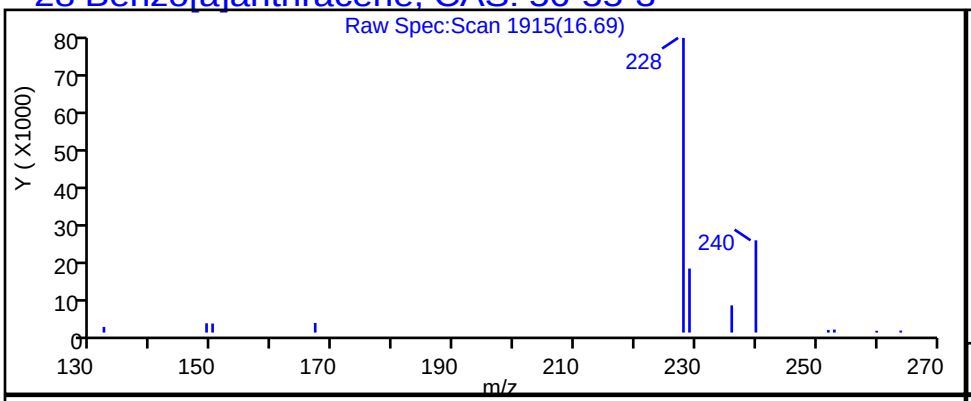
22 Anthracene, CAS: 120-12-7

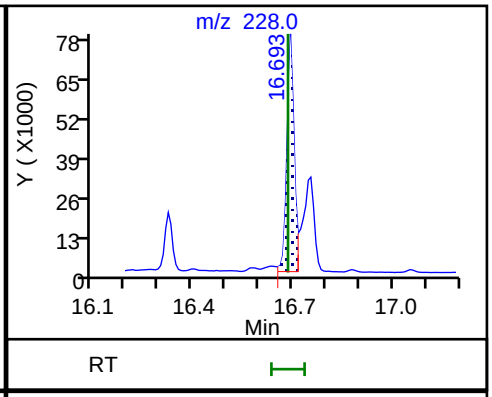


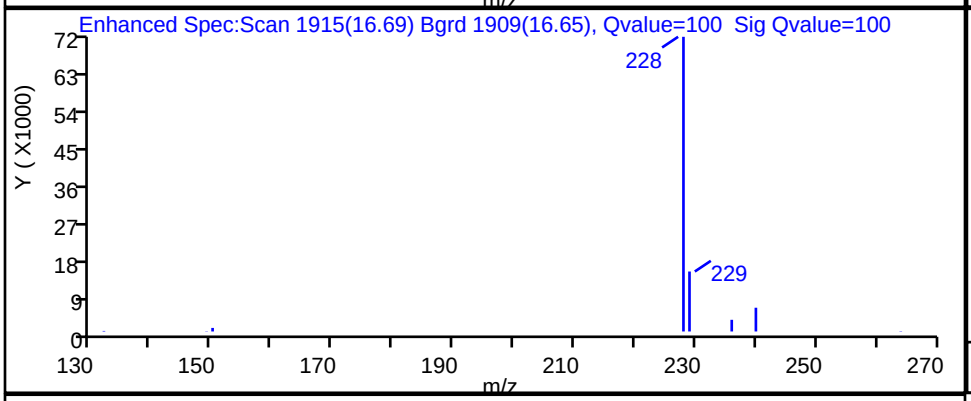
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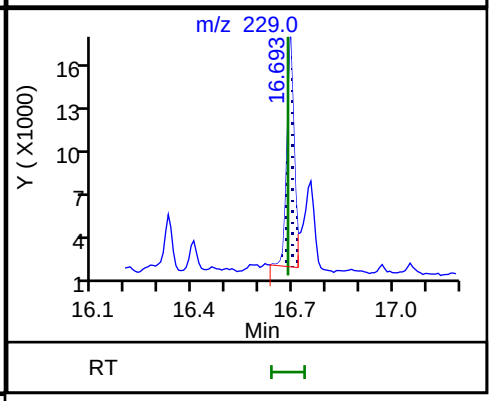
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Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

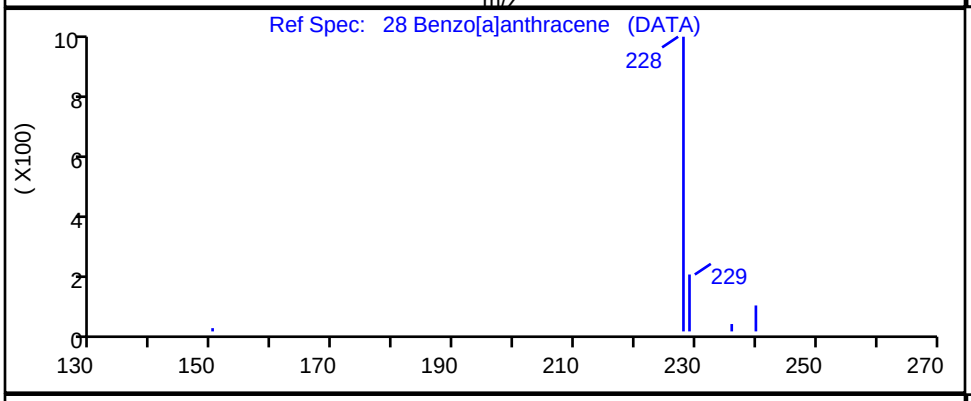
28 Benzo[a]anthracene, CAS: 56-55-3

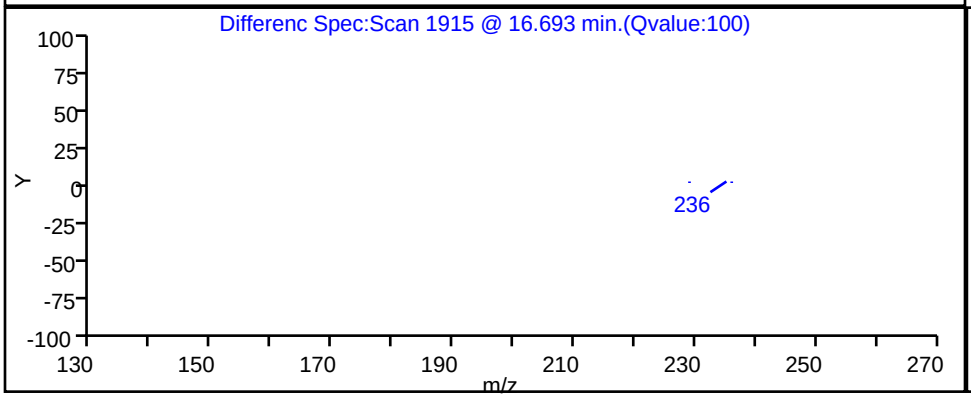


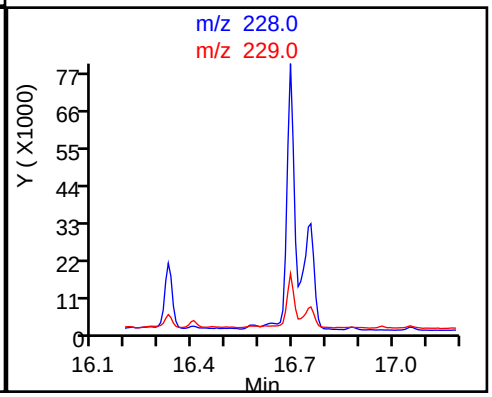








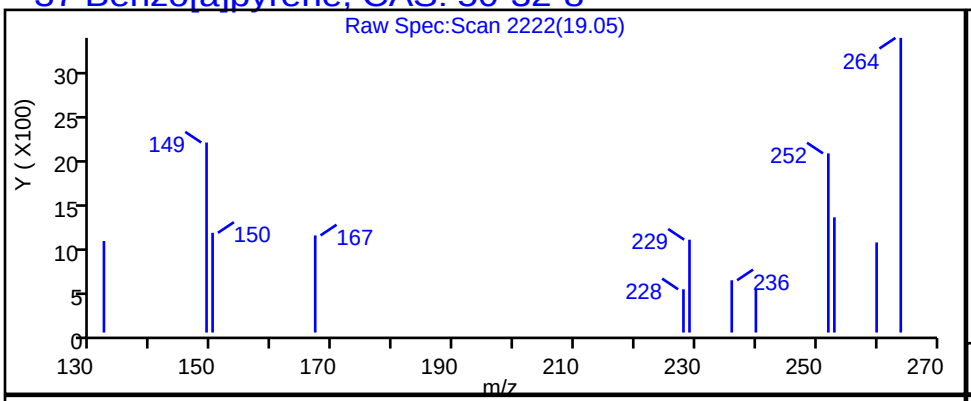


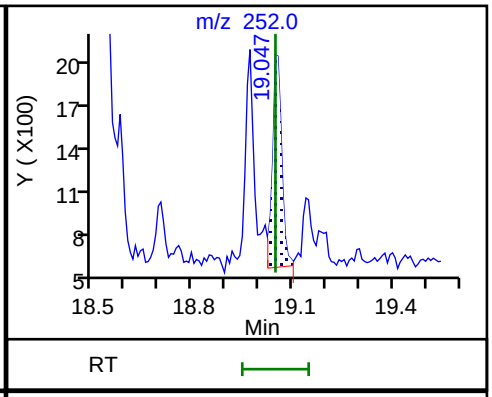


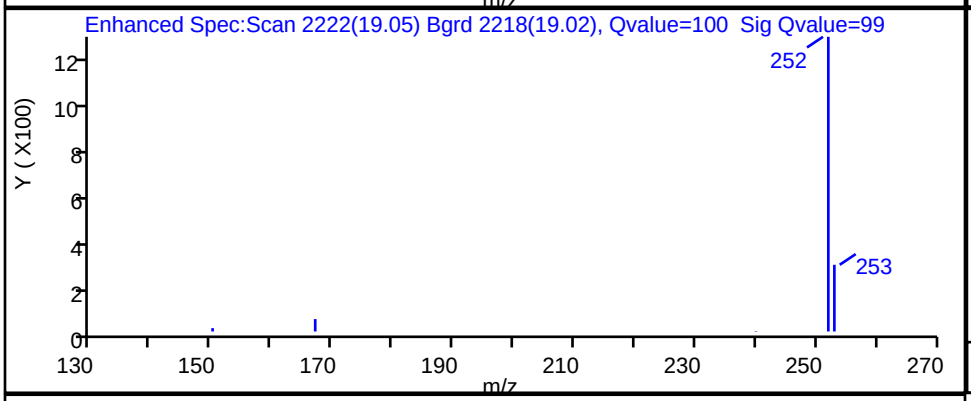
Eurofins Lancaster Laboratories Env, LLC

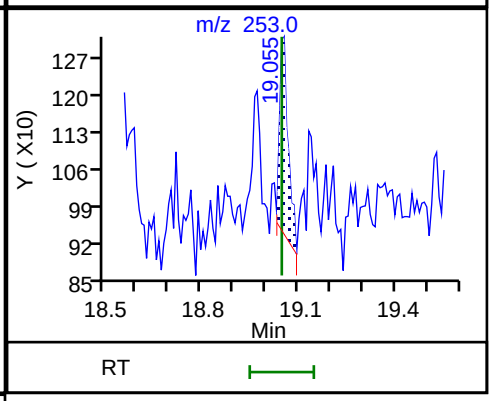
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Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

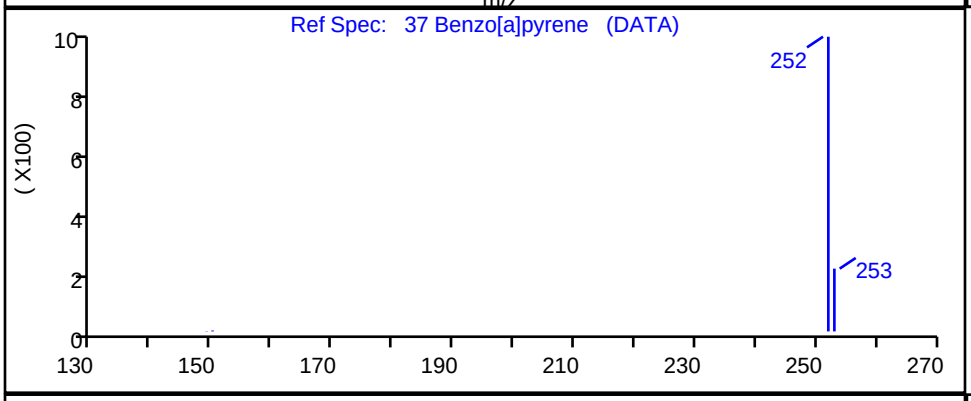
37 Benzo[a]pyrene, CAS: 50-32-8

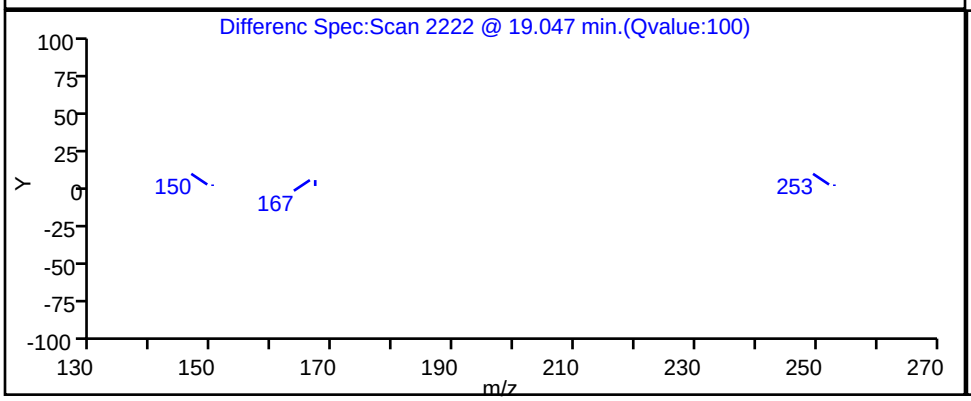


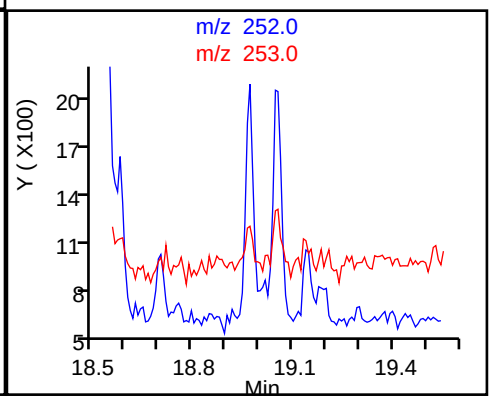








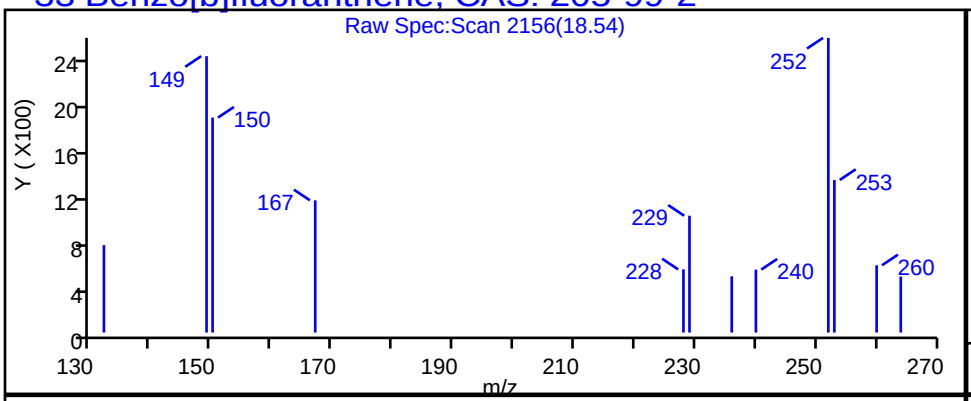


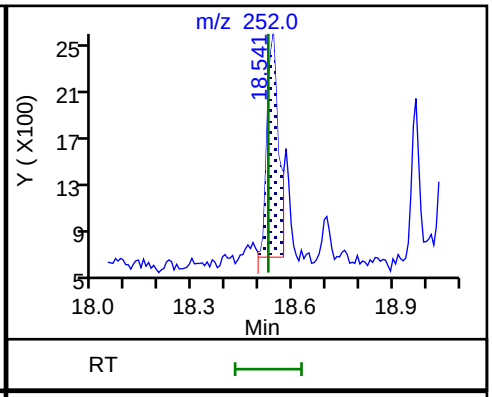


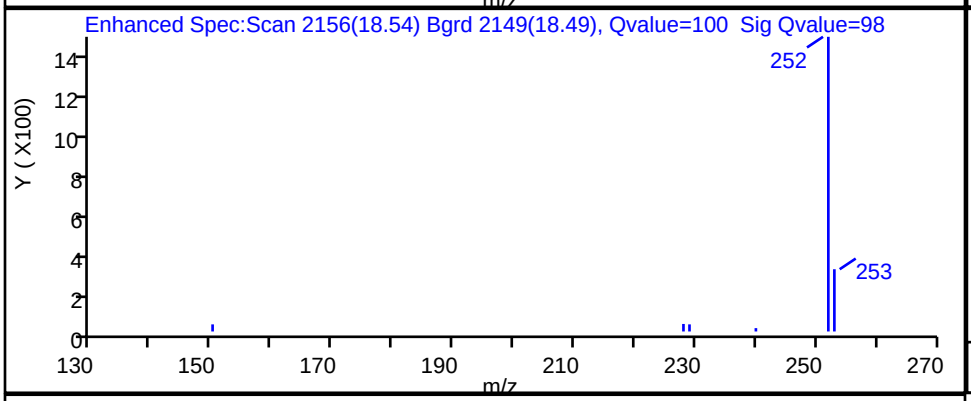
Eurofins Lancaster Laboratories Env, LLC

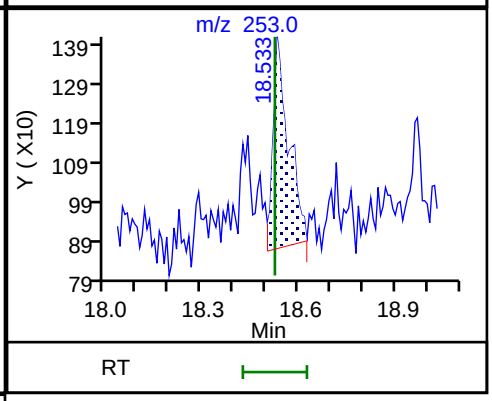
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Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

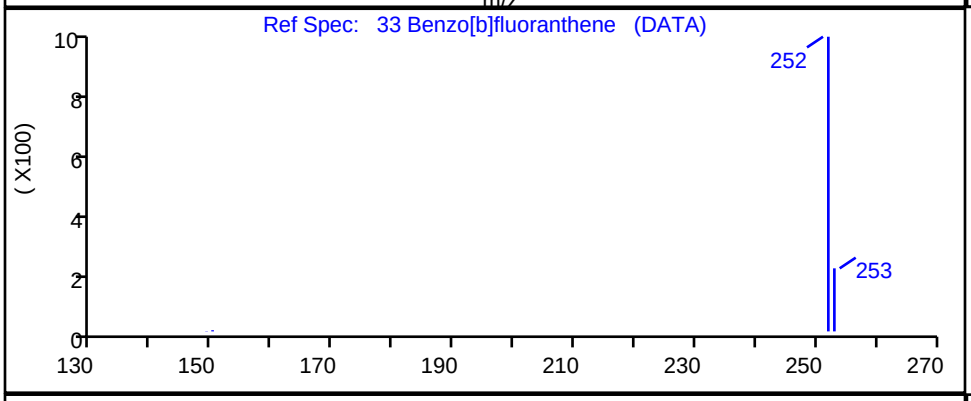
33 Benzo[b]fluoranthene, CAS: 205-99-2

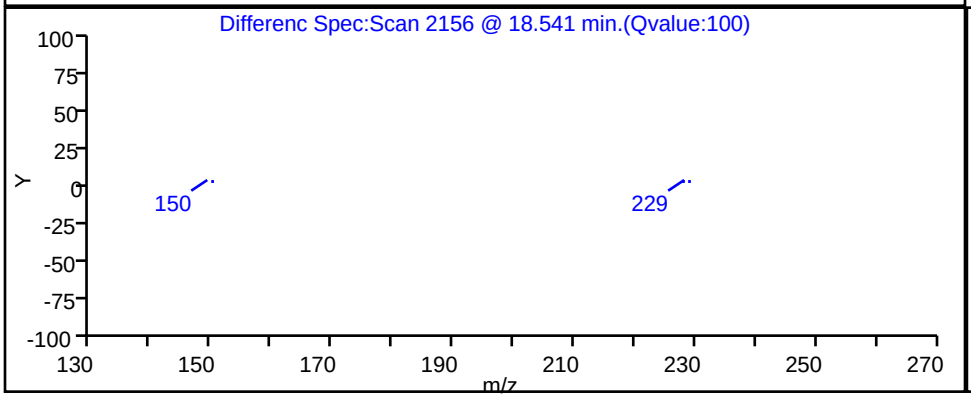


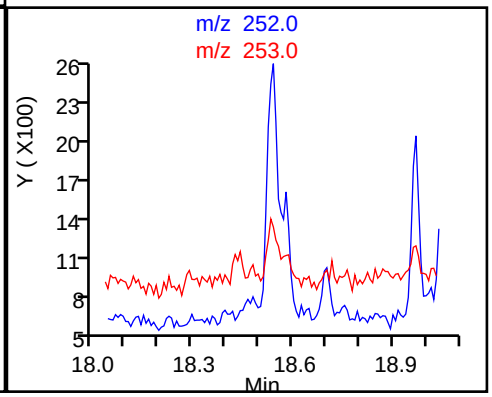








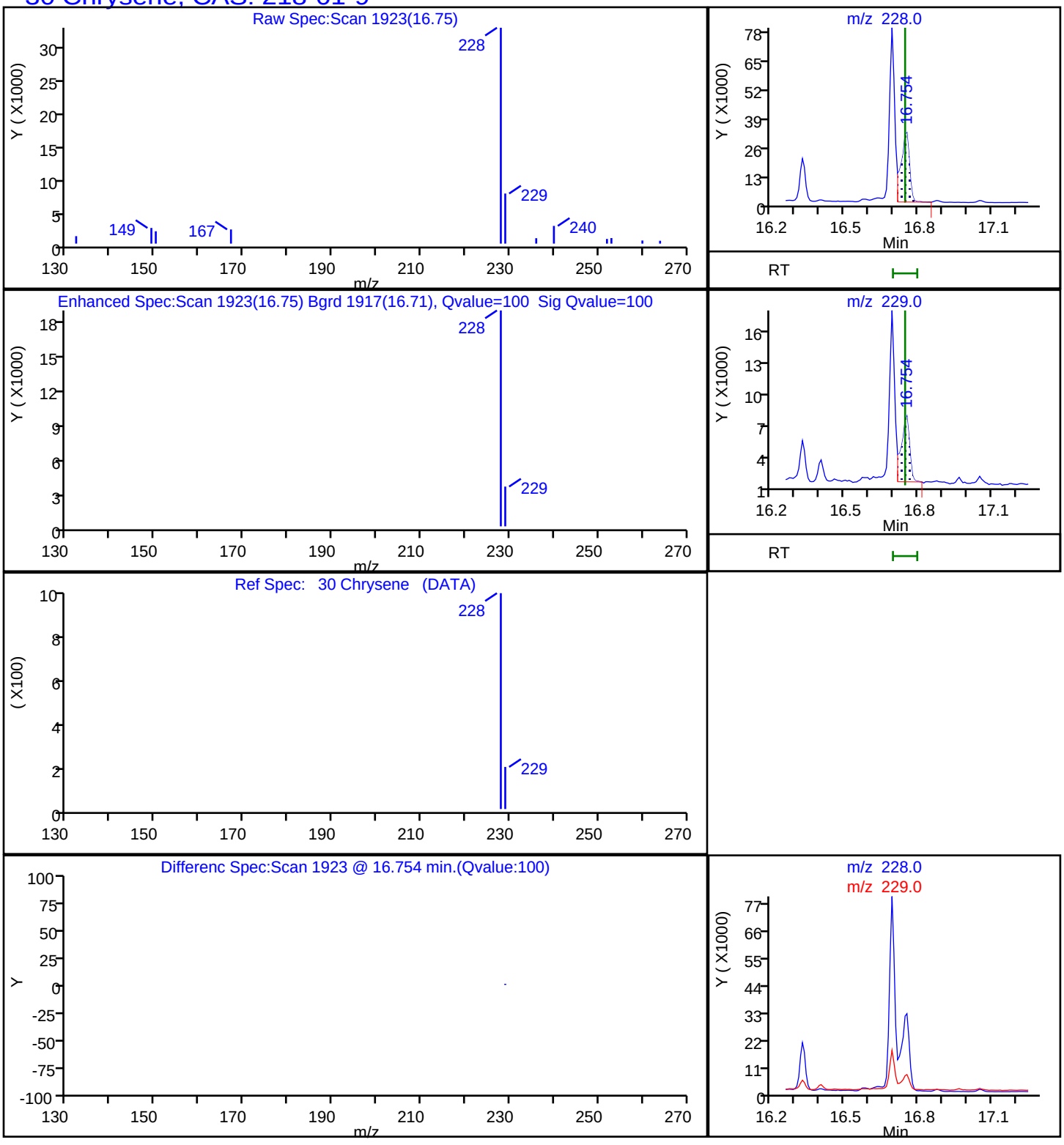




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D				
Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
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		

30 Chrysene, CAS: 218-01-9



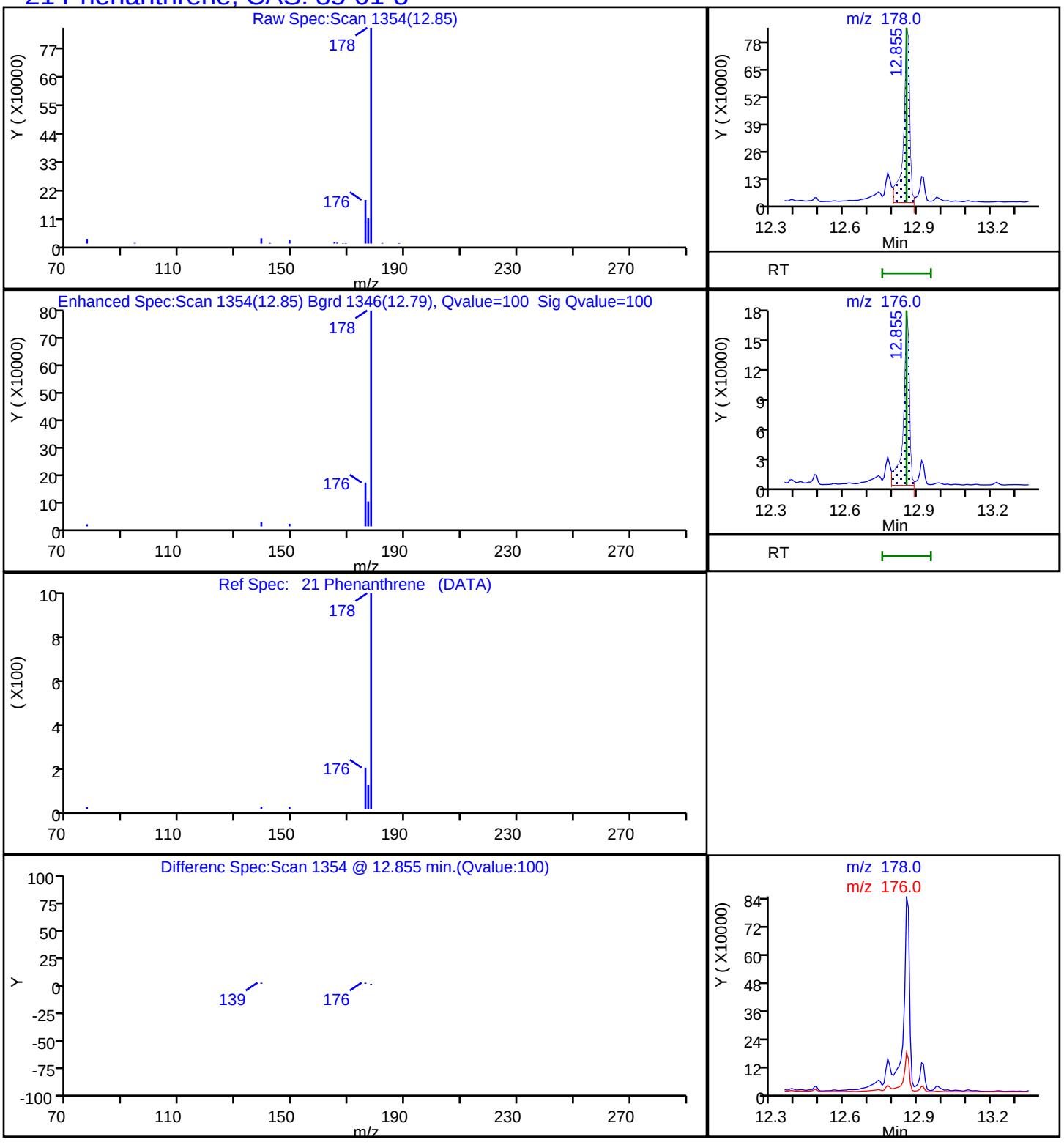
Report Date: 31-Dec-2021 14:02:31 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D

Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
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		

21 Phenanthrene, CAS: 85-01-8

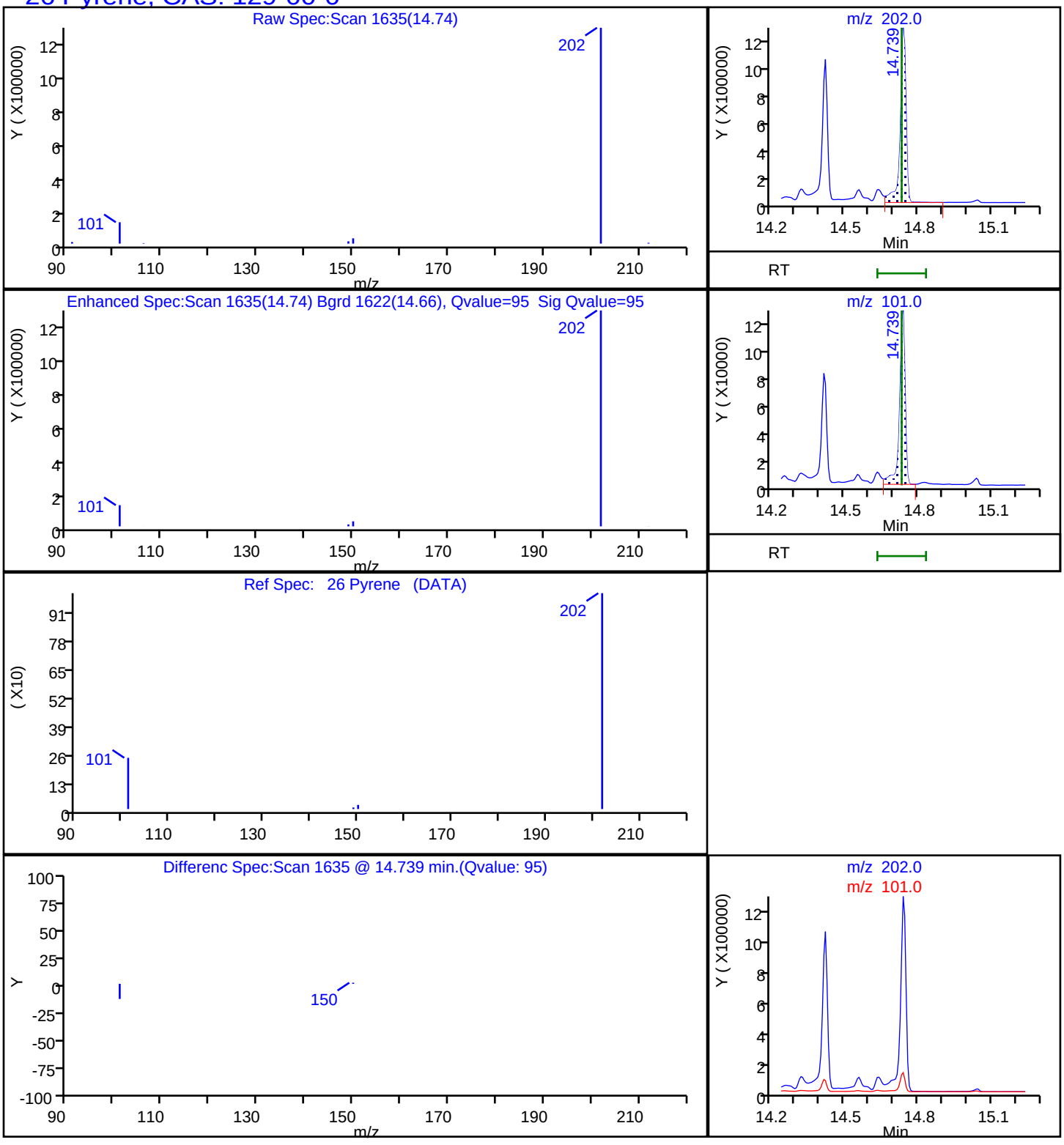


Report Date: 31-Dec-2021 14:02:31 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D				
Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
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		

26 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

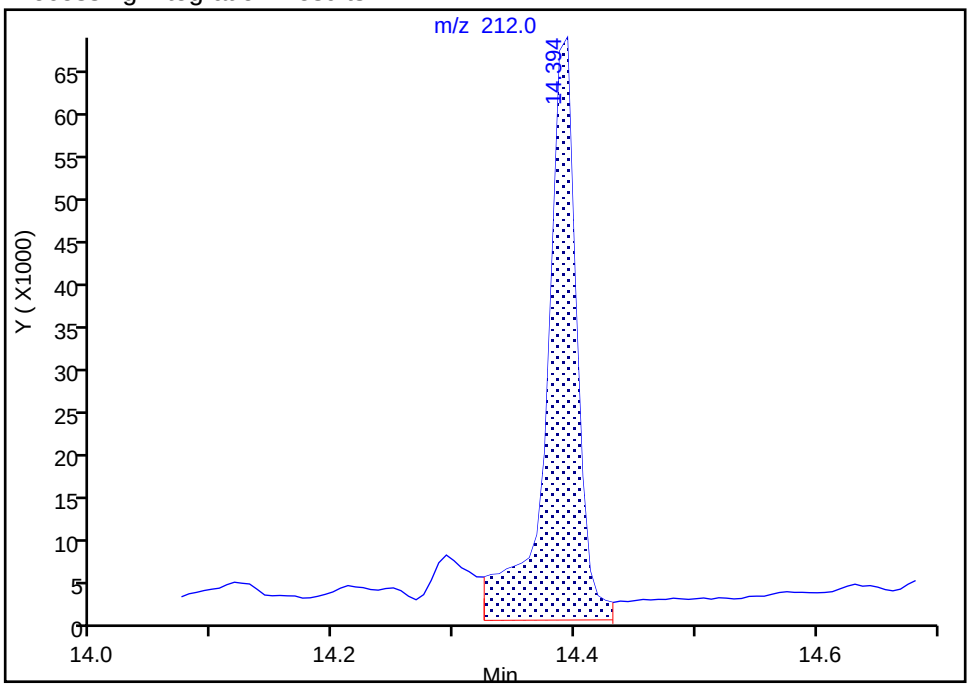
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Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

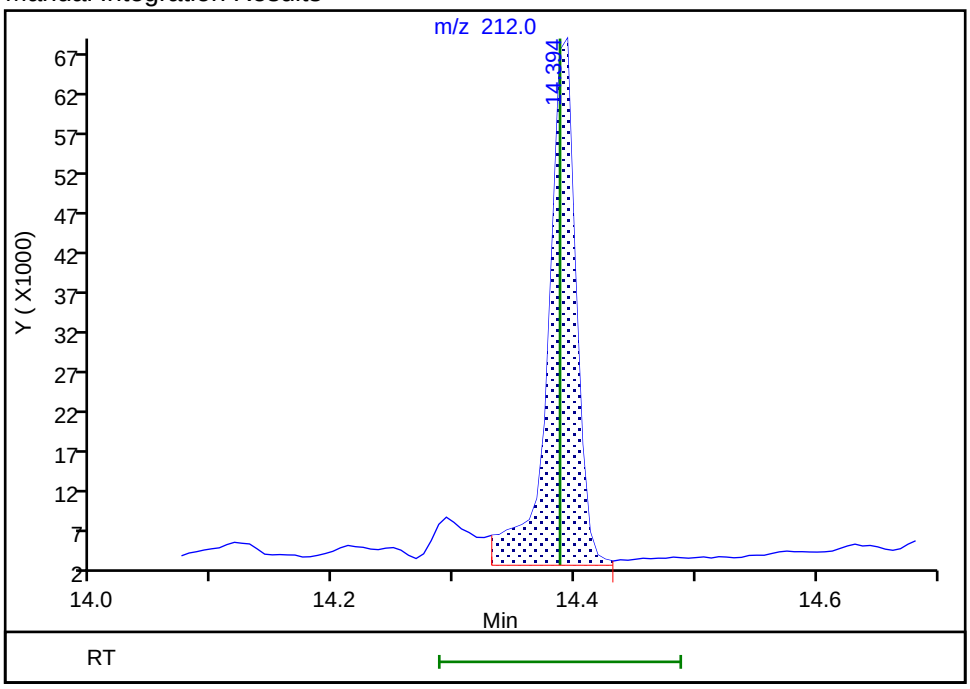
Processing Integration Results

RT: 14.39
Area: 118173
Amount: 0.239368
Amount Units: ug/ml



Manual Integration Results

RT: 14.39
Area: 107022
Amount: 0.216781
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:51:01

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

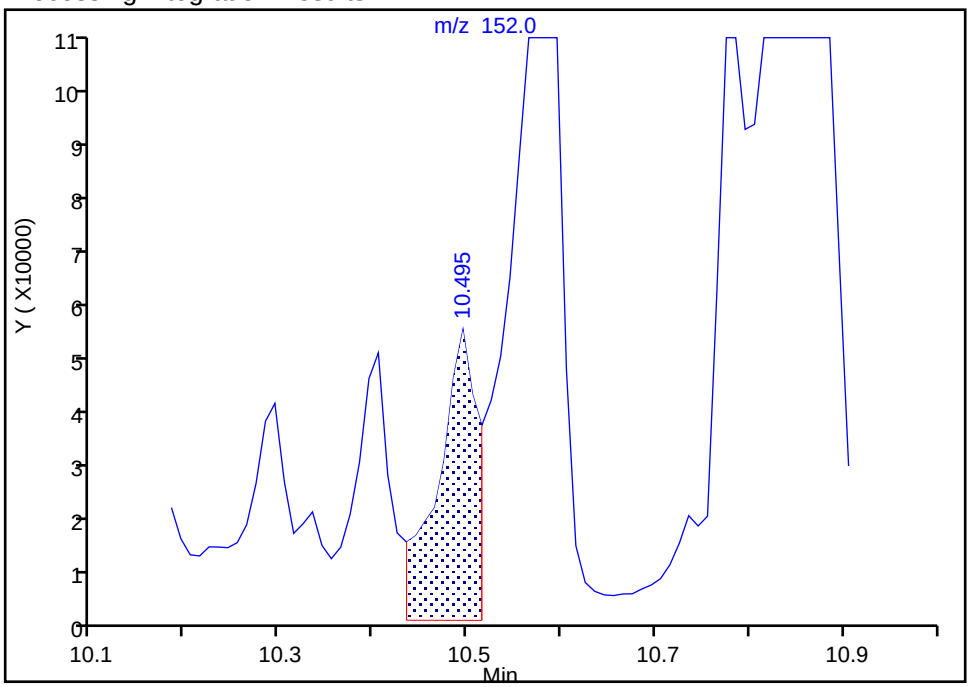
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Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

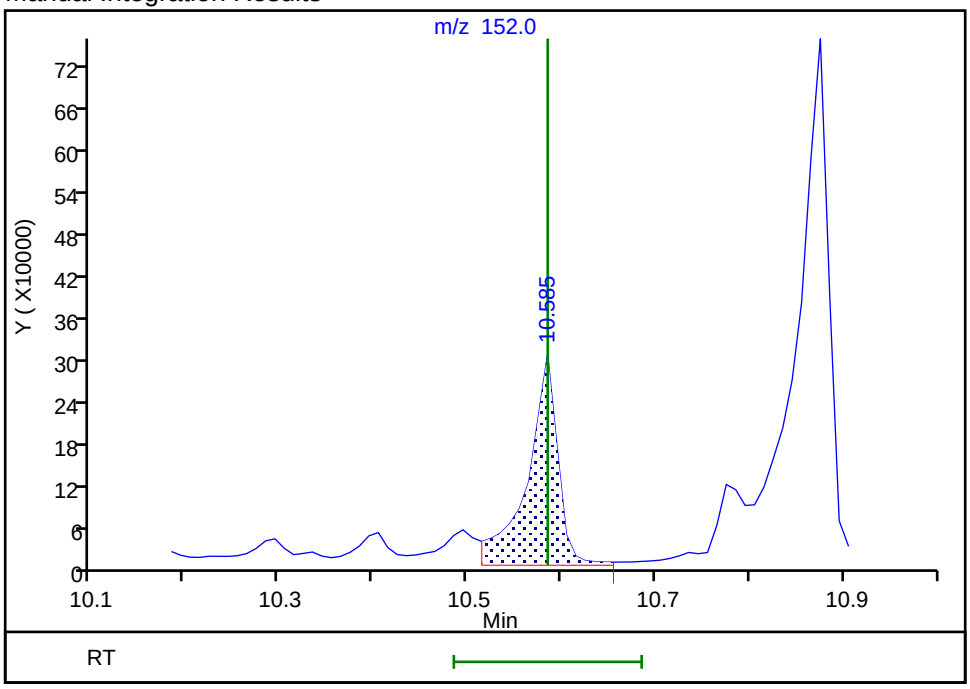
Processing Integration Results

RT: 10.50
Area: 142819
Amount: 1.089852
Amount Units: ug/ml



Manual Integration Results

RT: 10.59
Area: 678535
Amount: 1.151446
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:50:13

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Env, LLC

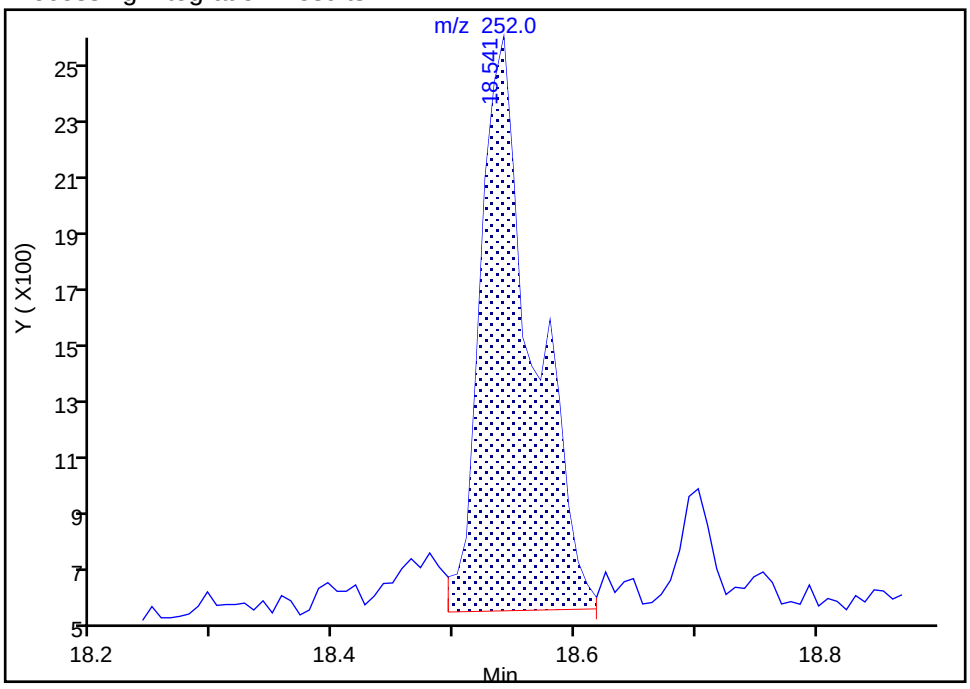
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D				
Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 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		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

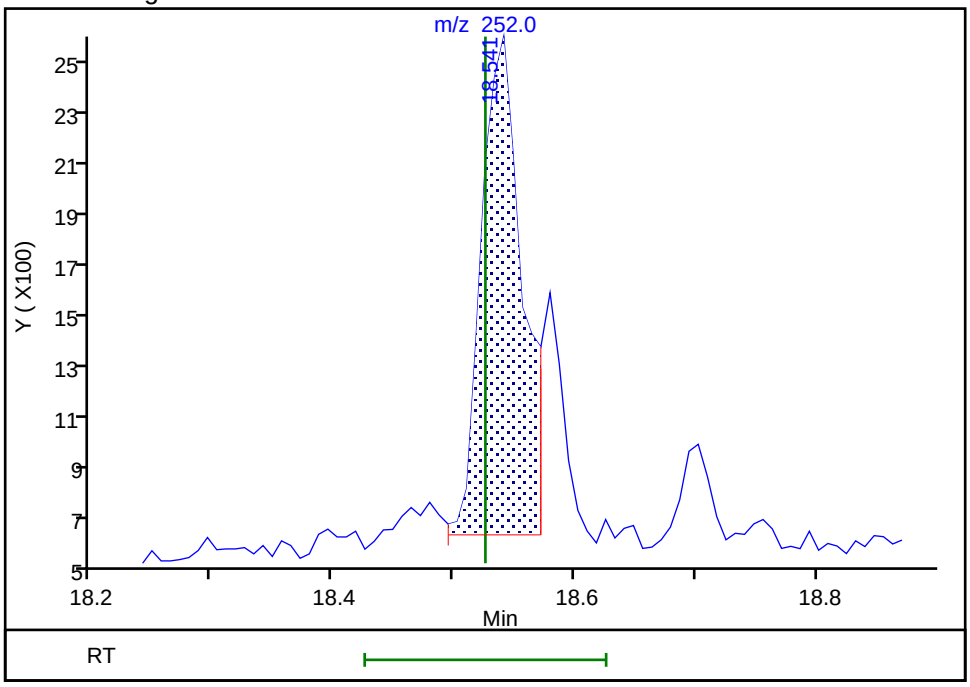
Processing Integration Results

RT: 18.54
Area: 6023
Amount: 0.006469
Amount Units: ug/ml



Manual Integration Results

RT: 18.54
Area: 4405
Amount: 0.004731
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:51:25
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

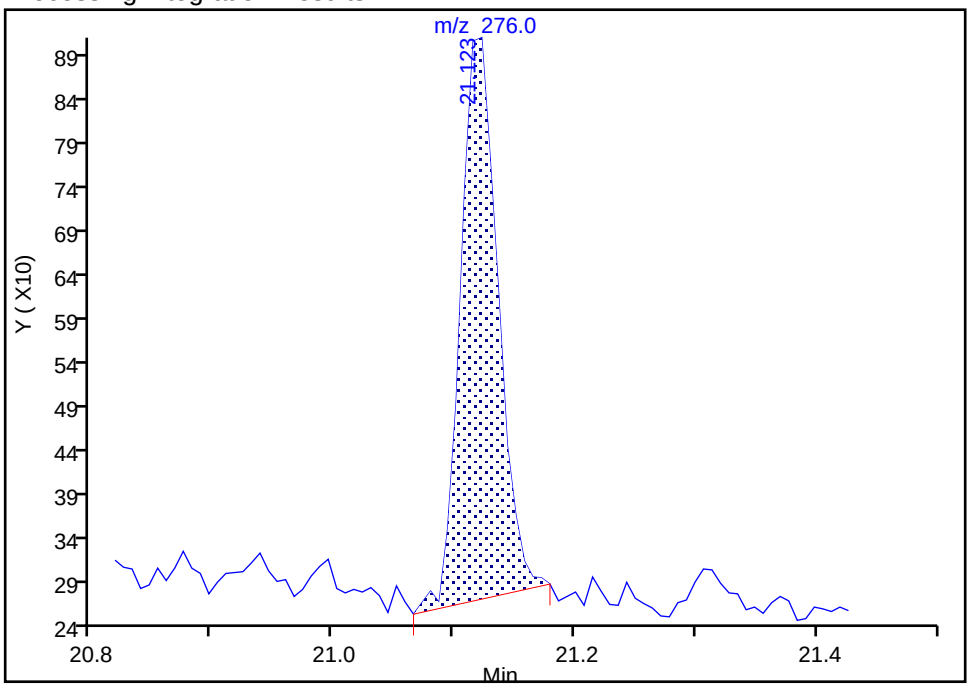
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Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	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

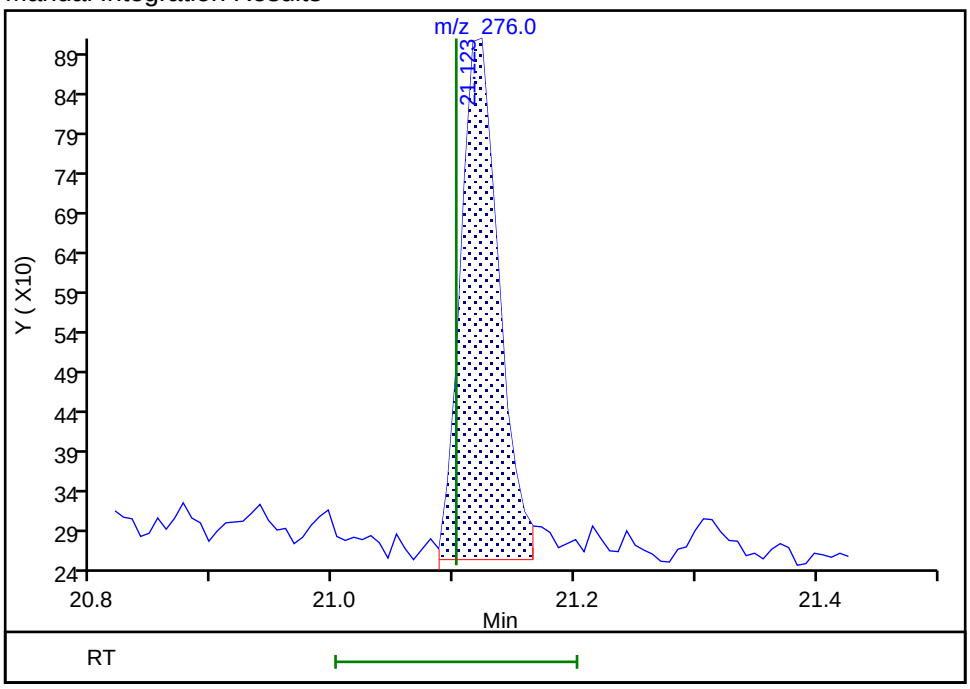
Processing Integration Results

RT: 21.12
Area: 1368
Amount: 0.001319
Amount Units: ug/ml



Manual Integration Results

RT: 21.12
Area: 1430
Amount: 0.001379
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:52:02
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

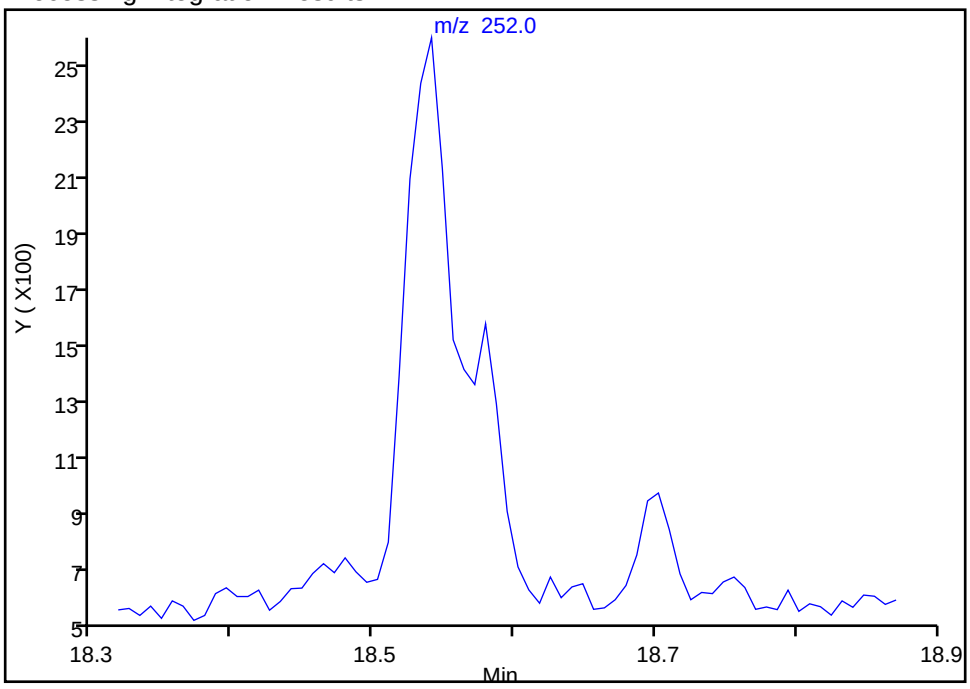
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D				
Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 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

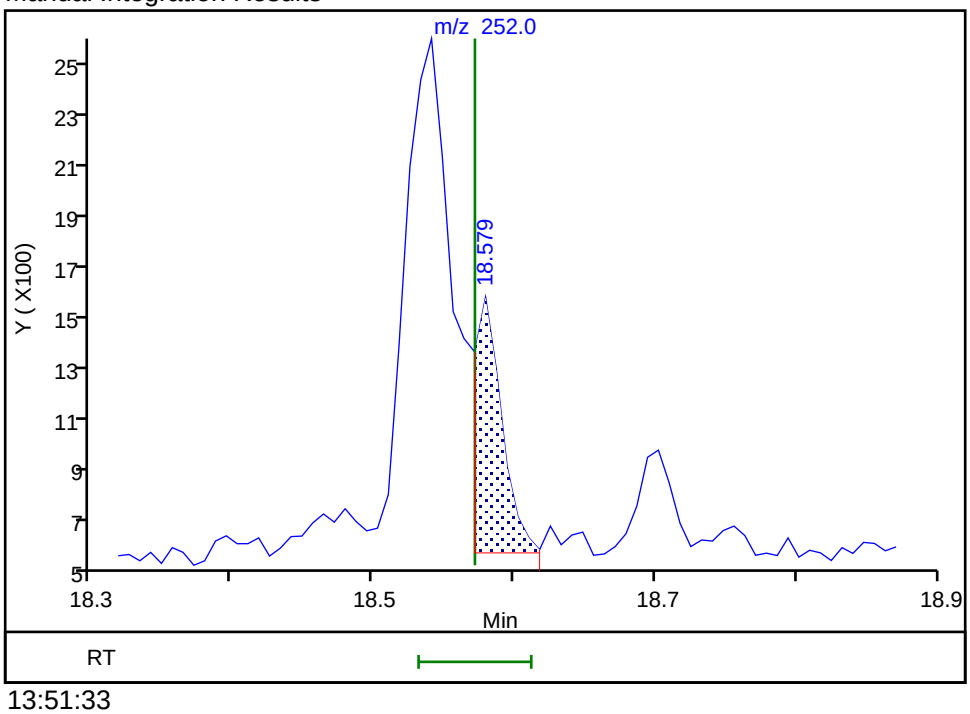
Not Detected
Expected RT: 18.57

Processing Integration Results



Manual Integration Results

RT: 18.58
Area: 1187
Amount: 0.001119
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:51:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

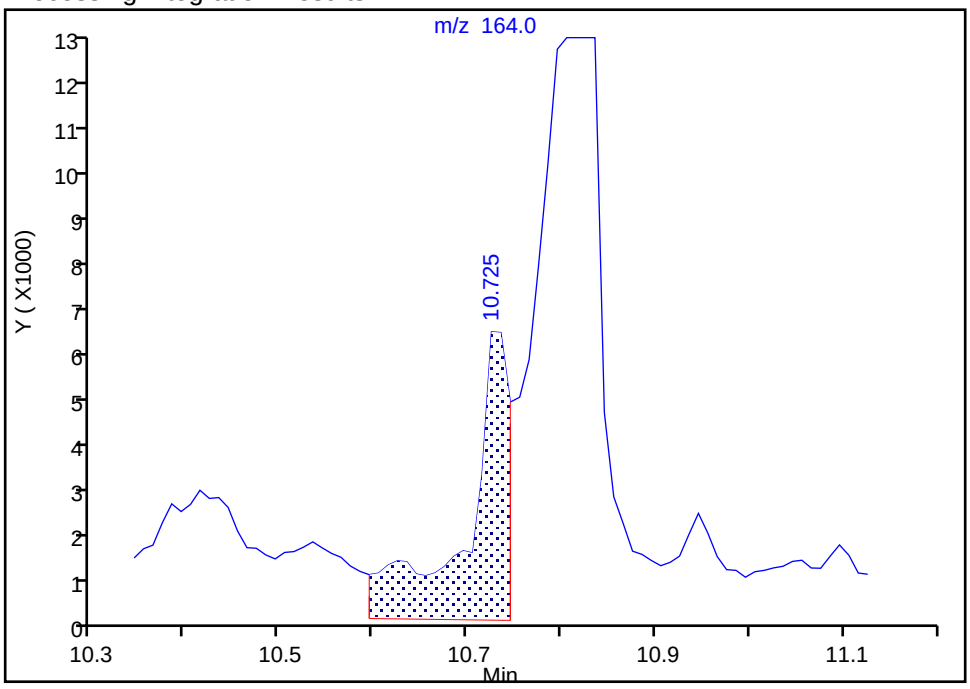
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Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

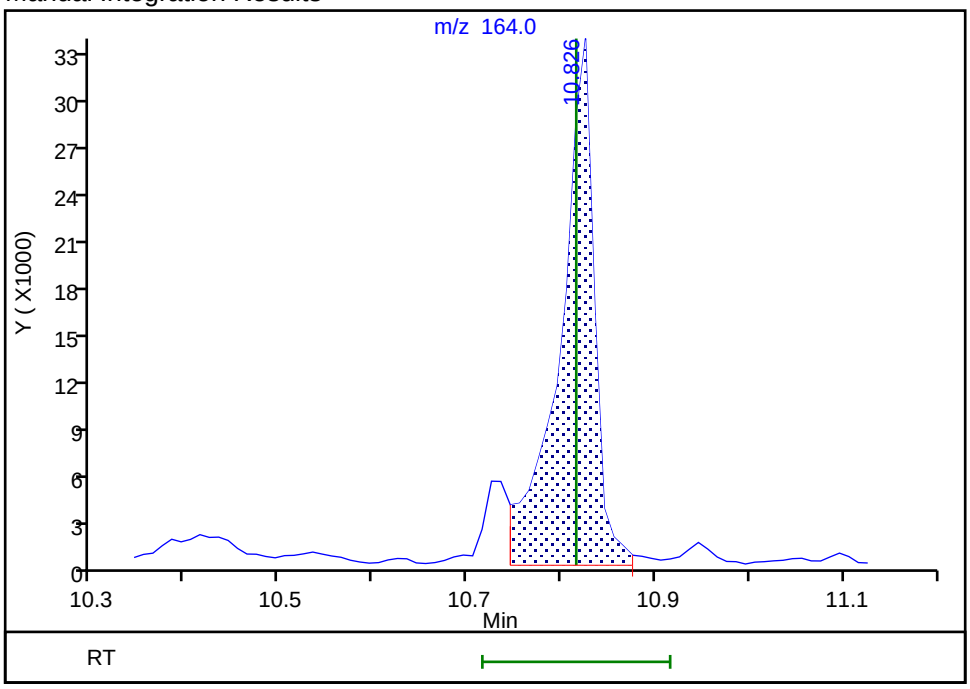
Processing Integration Results

RT: 10.73
Area: 18381
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 10.83
Area: 82657
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:50:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

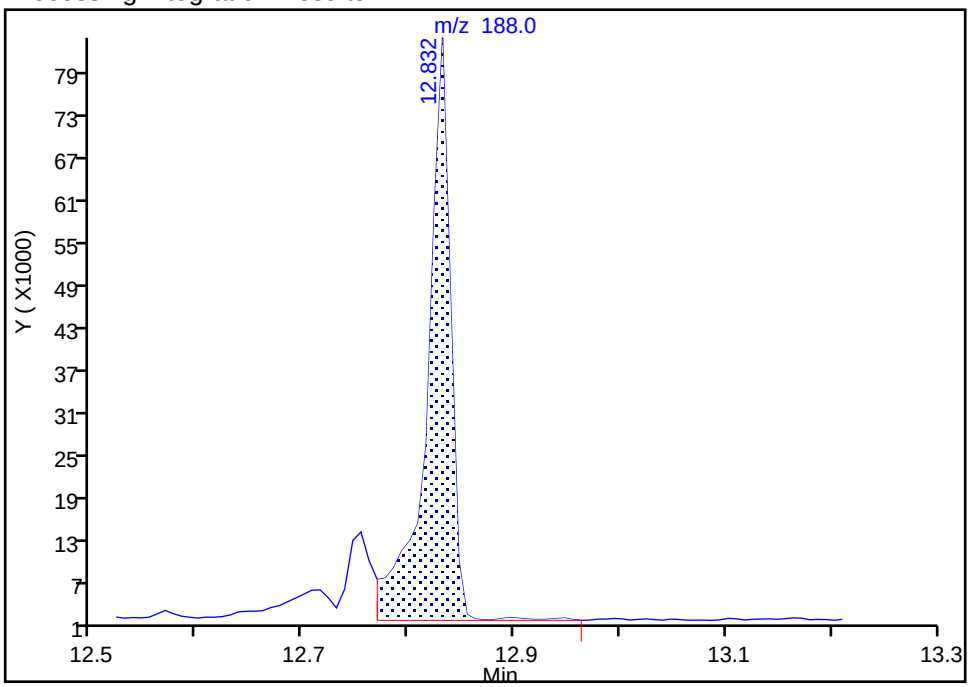
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1491.D				
Injection Date:	30-Dec-2021 15:28:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 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		

* 20 Phenanthrene-d10, CAS: 1517-22-2

Signal: 1

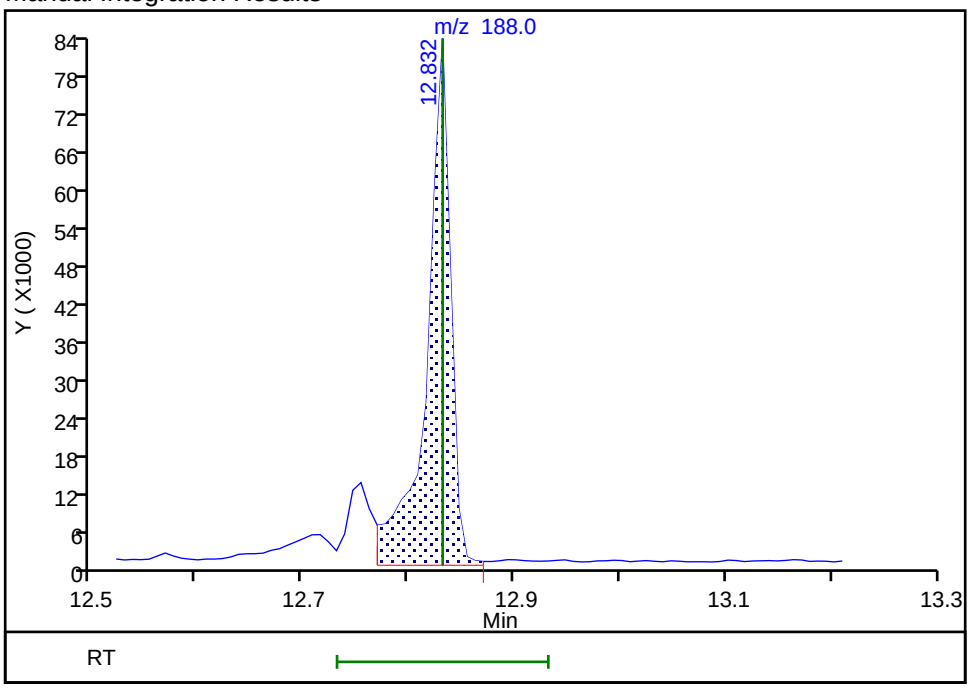
Processing Integration Results

RT: 12.83
Area: 126717
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 12.83
Area: 128811
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:50:50

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-3-20211222 DL Lab Sample ID: 410-68043-17 DL

Matrix: Ground Water Lab File ID: NA0003.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 10:51

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 236.6(mL) Date Analyzed: 01/03/2022 07:20

Con. Extract Vol.: 1(mL) Dilution Factor: 10

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210939 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	44		0.53	0.11
206-44-0	Fluoranthene	15		0.53	0.11
86-73-7	Fluorene	11		0.53	0.11
91-20-3	Naphthalene	99		0.74	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	65		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		36-111
93951-69-0	Fluoranthene-d10 (Surr)	102		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0003.D
Lims ID: 410-68043-A-17-A DL
Client ID: MW-3-20211222
Sample Type: Client
Inject. Date: 03-Jan-2022 07:20:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-68043-A-17-A
Misc. Info.: 410-0047551-004
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 04-Jan-2022 07:28:34 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: gamblerj Date: 04-Jan-2022 07:27:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.893	5.893	0.000	90	52469	0.2500	
* 5 Naphthalene-d8	136	7.943	7.943	0.000	36	153180	0.2500	
6 Naphthalene	128	7.968	7.968	0.000	99	1500002	2.34	
$ 9 1-Methylnaphthalene-d10	152	9.213	9.213	0.000	45	6587	0.0203	
12 Acenaphthylene	152	10.565	10.565	0.000	97	74366	0.1129	
* 13 Acenaphthene-d10	164	10.805	10.806	-0.001	98	92396	0.2500	
14 Acenaphthene	154	10.845	10.855	-0.011	94	429142	1.05	
17 Fluorene	166	11.666	11.673	-0.007	98	130647	0.2709	
* 20 Phenanthrene-d10	188	12.816	12.816	0.000	100	175482	0.2500	
21 Phenanthrene	178	12.839	12.839	-0.001	100	207655	0.2700	
22 Anthracene	178	12.909	12.909	0.000	99	24330	0.0338	M
$ 24 Fluoranthene-d10 (Surr)	212	14.375	14.375	0.000	77	17089	0.0254	
25 Fluoranthene	202	14.400	14.400	0.000	93	272708	0.3614	
26 Pyrene	202	14.720	14.720	0.000	95	347012	0.3191	
28 Benzo[a]anthracene	228	16.670	16.677	-0.007	67	16414	0.0197	
* 29 Chrysene-d12	240	16.685	16.693	-0.008	83	173815	0.2500	
30 Chrysene	228	16.731	16.731	0.000	100	9232	0.004147	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	18.993	18.986	-0.001	96	15793	0.0163	
* 38 Perylene-d12	264	19.116	19.124	-0.008	95	199054	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

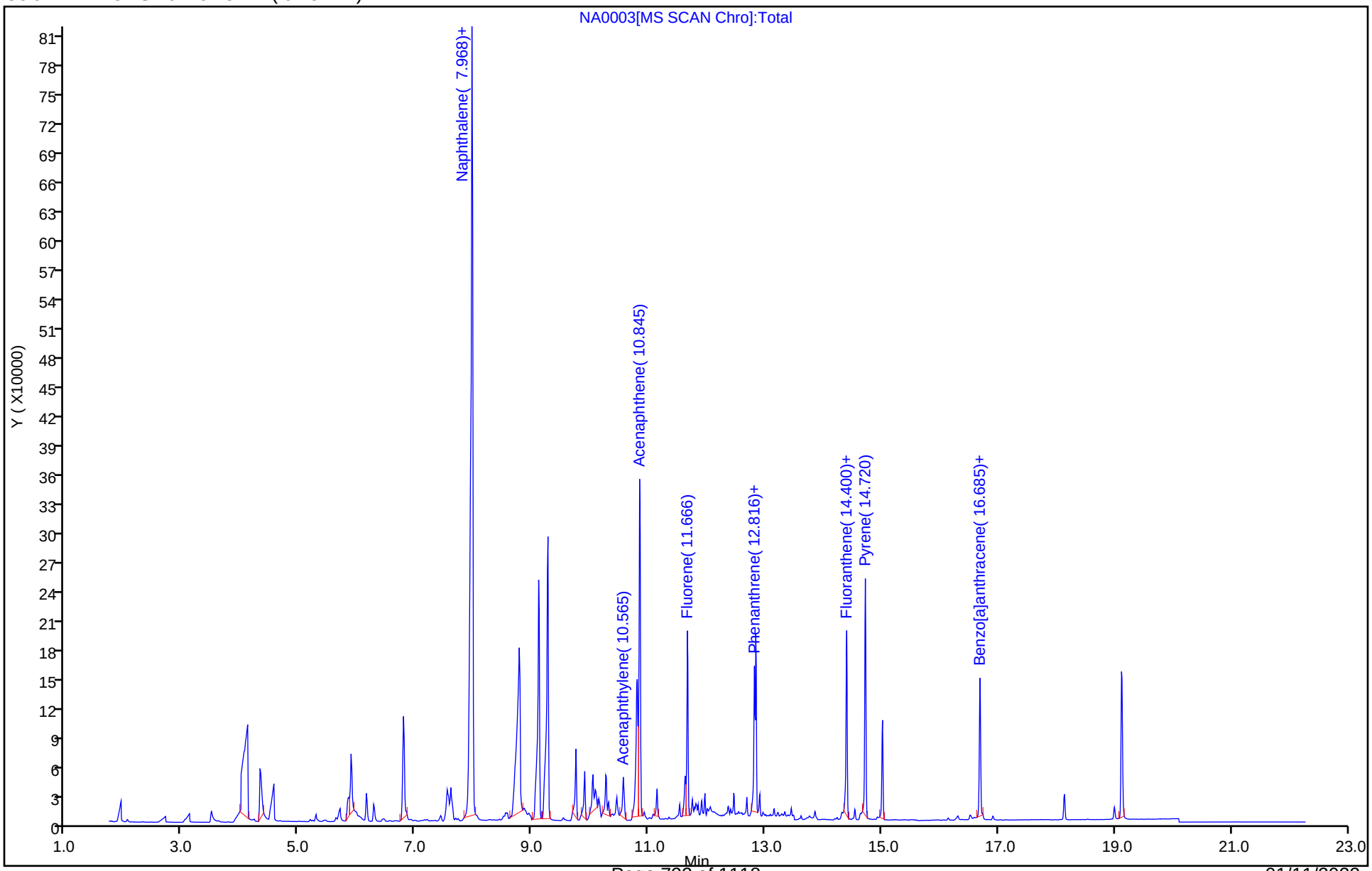
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0003.D

Injection Date:	03-Jan-2022 07:20:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-17-A DL	Lab Sample ID:	410-68043-17	Worklist Smp#:	4
Client ID:	MW-3-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	4
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



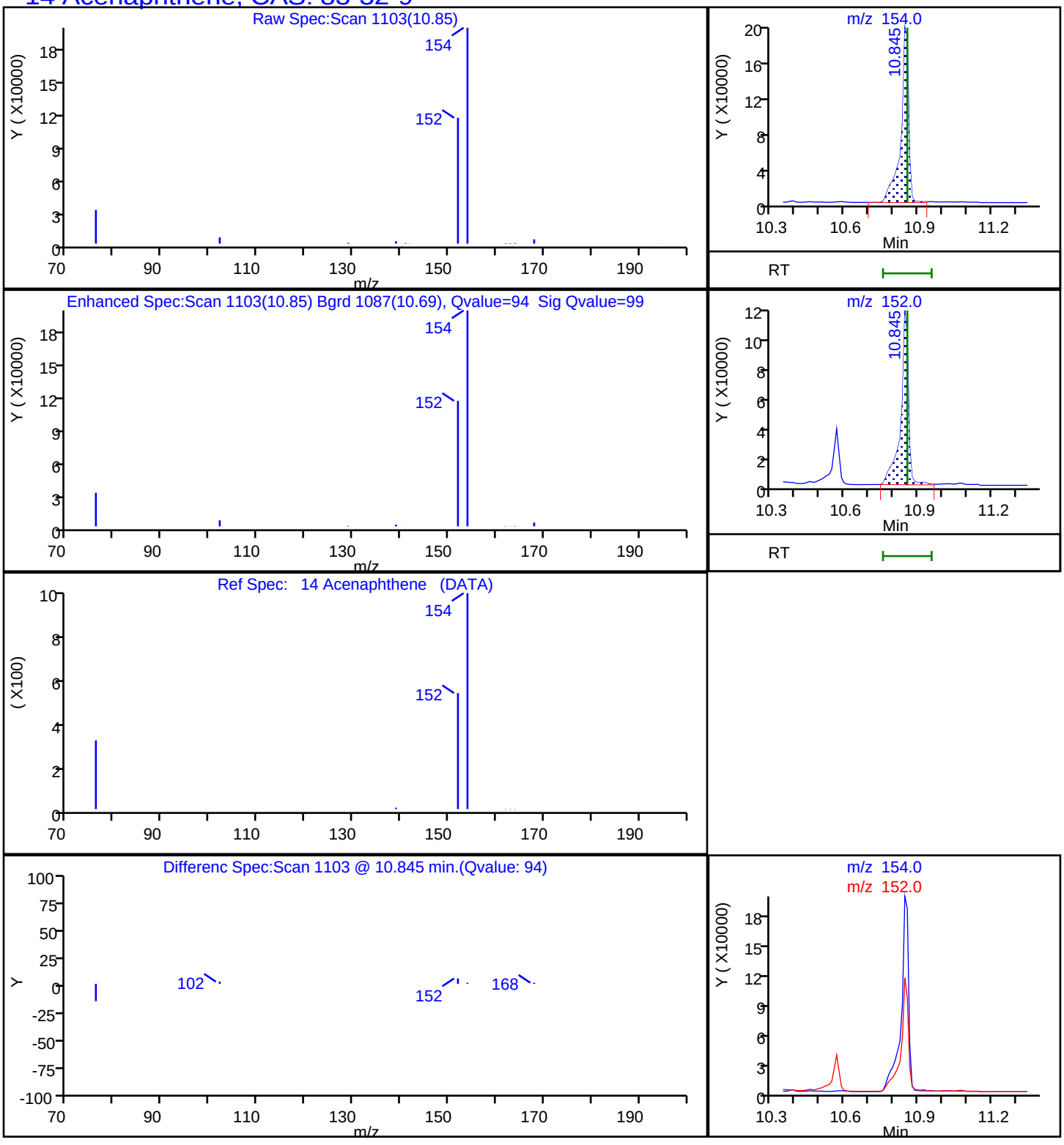
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0003.D

Injection Date:	03-Jan-2022 07:20:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-17-A DL	Lab Sample ID:	410-68043-17		
Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9



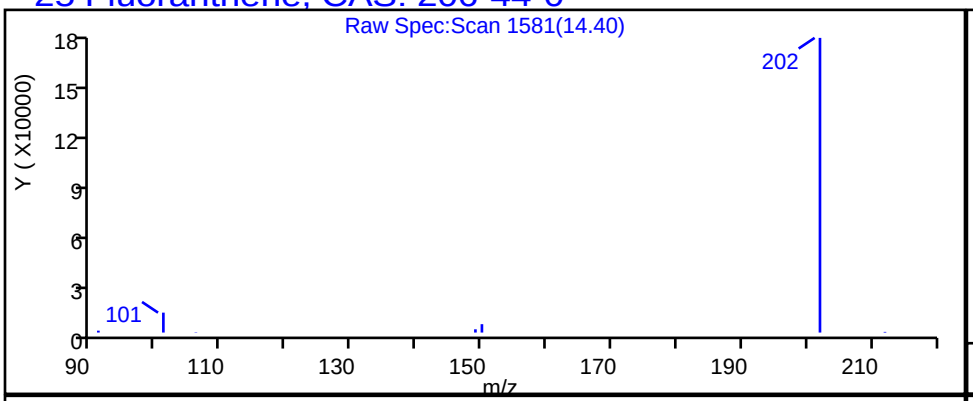
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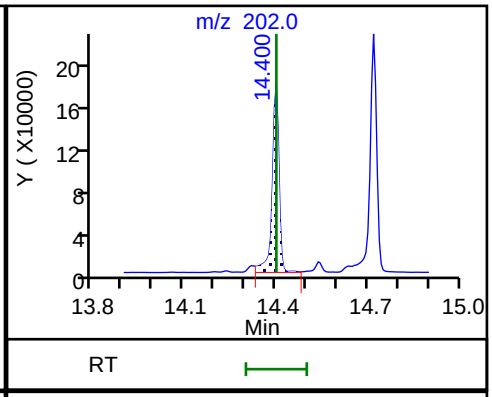
Eurofins Lancaster Laboratories Env, LLC

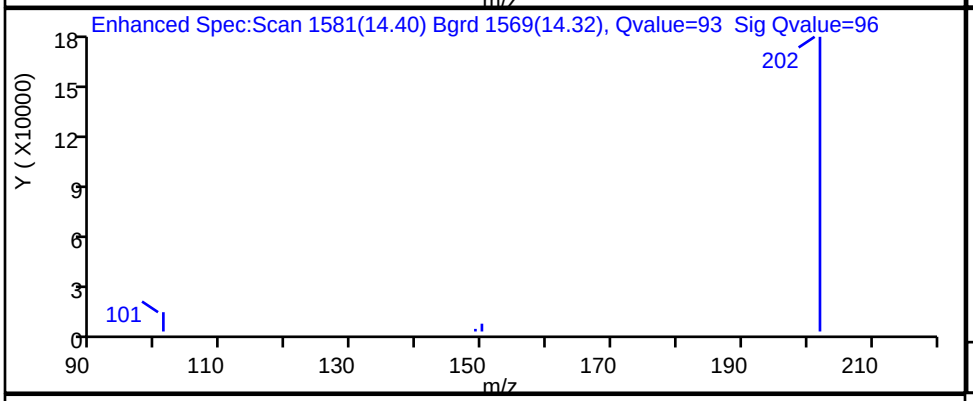
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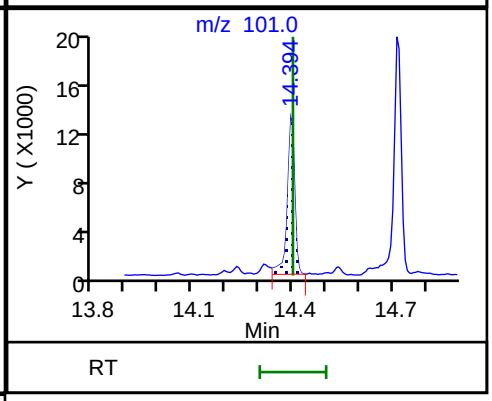
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Client ID:	MW-3-20211222				
Operator ID:	jmg00346	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

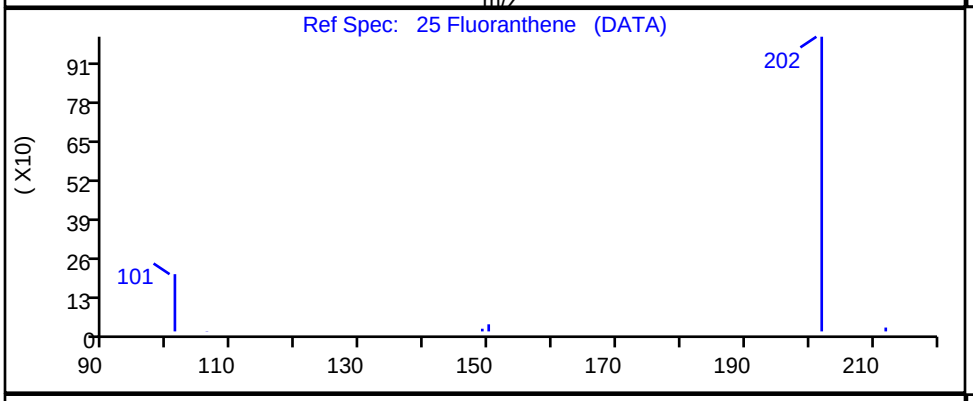
25 Fluoranthene, CAS: 206-44-0

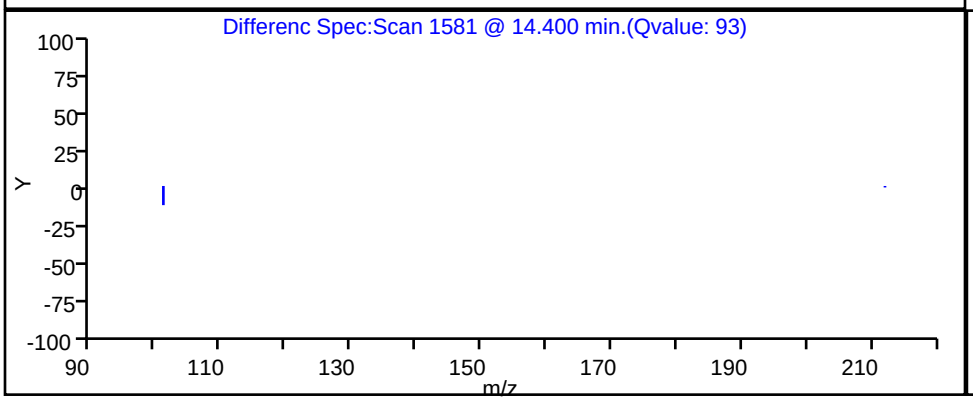


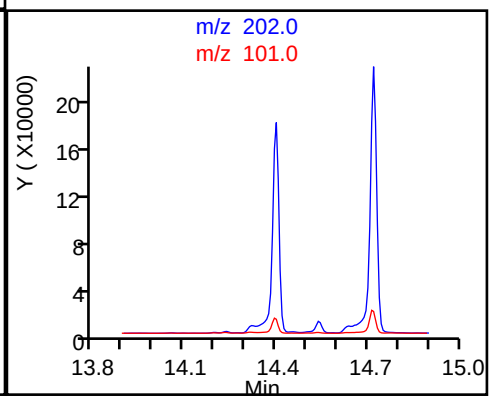








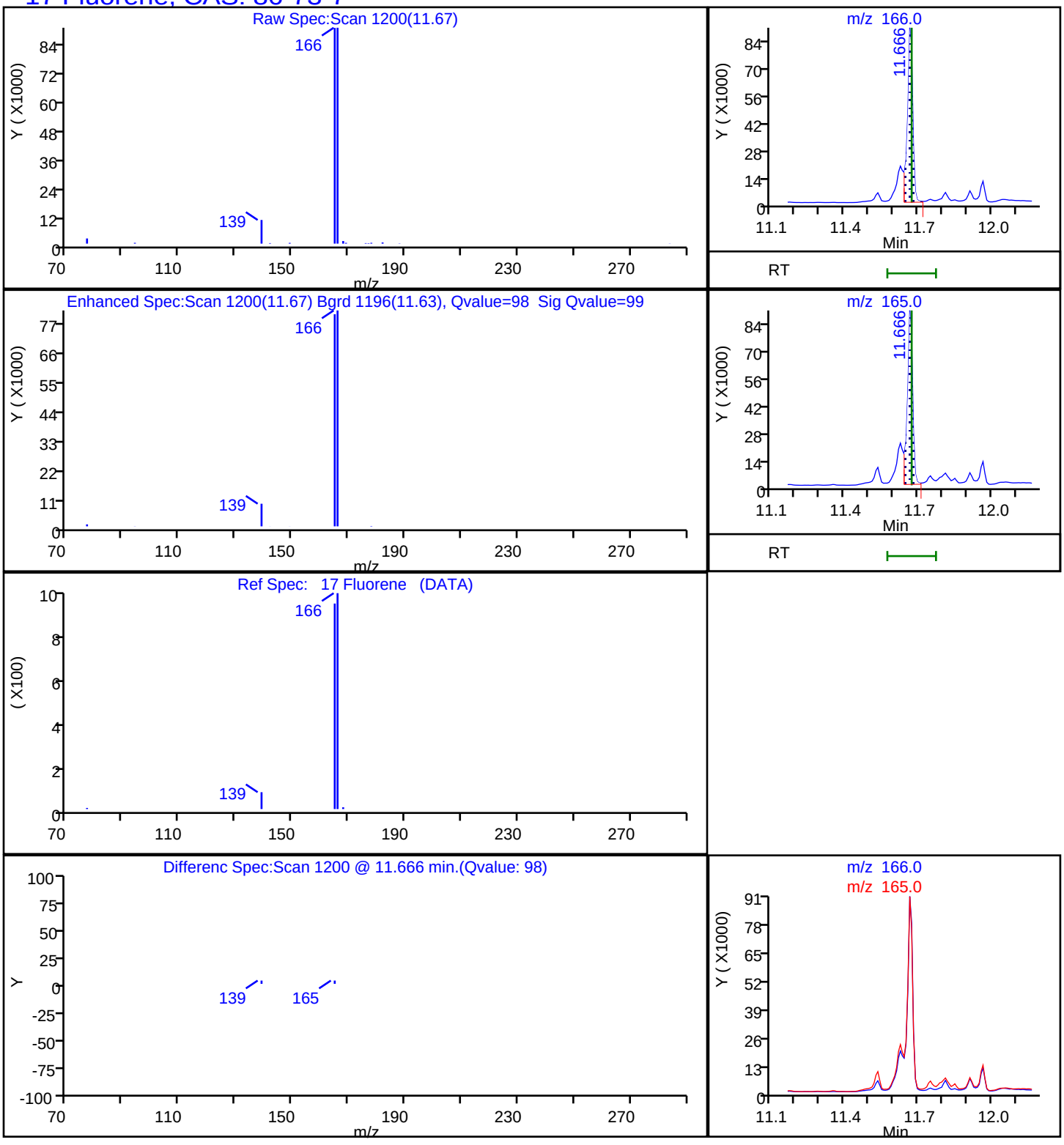




Eurofins Lancaster Laboratories Env, LLC

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Lims ID:	410-68043-A-17-A DL	Lab Sample ID:	410-68043-17
Client ID:	MW-3-20211222		
Operator ID:	jmg00346	ALS Bottle#:	4 Worklist Smp#: 4
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

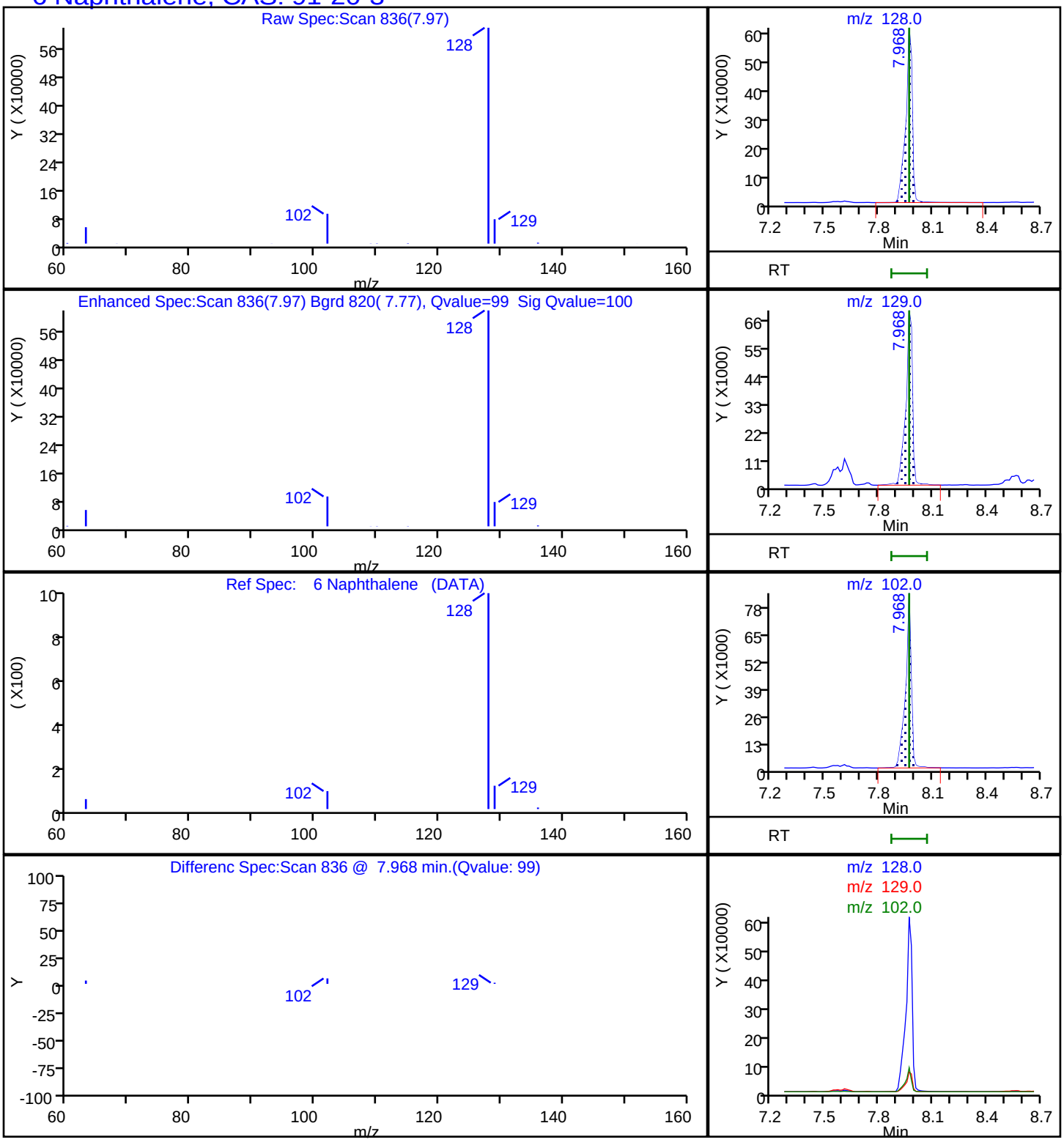
17 Fluorene, CAS: 86-73-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0003.D		
Injection Date:	03-Jan-2022 07:20:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-17-A DL	Lab Sample ID:	410-68043-17
Client ID:	MW-3-20211222		
Operator ID:	jmg00346	ALS Bottle#:	4 Worklist Smp#: 4
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
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



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-13S-20211222 Lab Sample ID: 410-68043-18

Matrix: Ground Water Lab File ID: NL1492.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 11:32

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 249.2(mL) Date Analyzed: 12/30/2021 15:56

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	9.0		0.050	0.010
208-96-8	Acenaphthylene	0.57		0.050	0.010
120-12-7	Anthracene	4.1		0.050	0.010
56-55-3	Benzo[a]anthracene	0.49		0.050	0.010
50-32-8	Benzo[a]pyrene	0.013	J	0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.020	J	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	0.30		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	3.7		0.050	0.010
86-73-7	Fluorene	3.9		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	2.4		0.070	0.030
85-01-8	Phenanthrene	8.8		0.070	0.030
129-00-0	Pyrene	3.5		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	84		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	85		36-111
93951-69-0	Fluoranthene-d10 (Surr)	90		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D
Lims ID: 410-68043-A-18-A
Client ID: MW-13S-20211222
Sample Type: Client
Inject. Date: 30-Dec-2021 15:56:30 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-18-A
Misc. Info.: 410-0047435-023
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:01:57 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 13:55:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.918	5.919	-0.001	99	58494	0.2500	
* 5 Naphthalene-d8	136	7.955	7.956	-0.001	100	169297	0.2500	
6 Naphthalene	128	7.993	7.993	0.000	100	423384	0.5982	
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	98	76626	0.2133	
12 Acenaphthylene	152	10.585	10.585	0.000	98	99361	0.1422	
* 13 Acenaphthene-d10	164	10.816	10.816	0.000	90	98042	0.2500	M
14 Acenaphthene	154	10.866	10.876	0.000	95	979836	2.25	
17 Fluorene	166	11.689	11.689	0.008	99	494434	0.9662	
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	96	168319	0.2500	
21 Phenanthrene	178	12.863	12.855	0.008	100	1618803	2.19	
22 Anthracene	178	12.925	12.924	0.007	100	706894	1.02	
$ 24 Fluoranthene-d10 (Surr)	212	14.388	14.394	0.000	97	144640	0.2242	
25 Fluoranthene	202	14.419	14.419	0.006	93	669712	0.9253	
26 Pyrene	202	14.739	14.739	0.007	95	869294	0.8725	
28 Benzo[a]anthracene	228	16.693	16.693	0.008	100	93428	0.1224	
* 29 Chrysene-d12	240	16.708	16.700	0.008	91	159250	0.2500	
30 Chrysene	228	16.754	16.754	0.008	99	64917	0.0746	
33 Benzo[b]fluoranthene	252	18.549	18.549	0.023	100	5009	0.005067	M
34 Benzo[k]fluoranthene	252	18.579	18.579	0.007	94	1785	0.001585	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.017	19.009	0.008	95	152054	0.2098	
37 Benzo[a]pyrene	252	19.055	19.055	0.008	97	3000	0.003141	M
* 38 Perylene-d12	264	19.147	19.139	0.008	94	200858	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

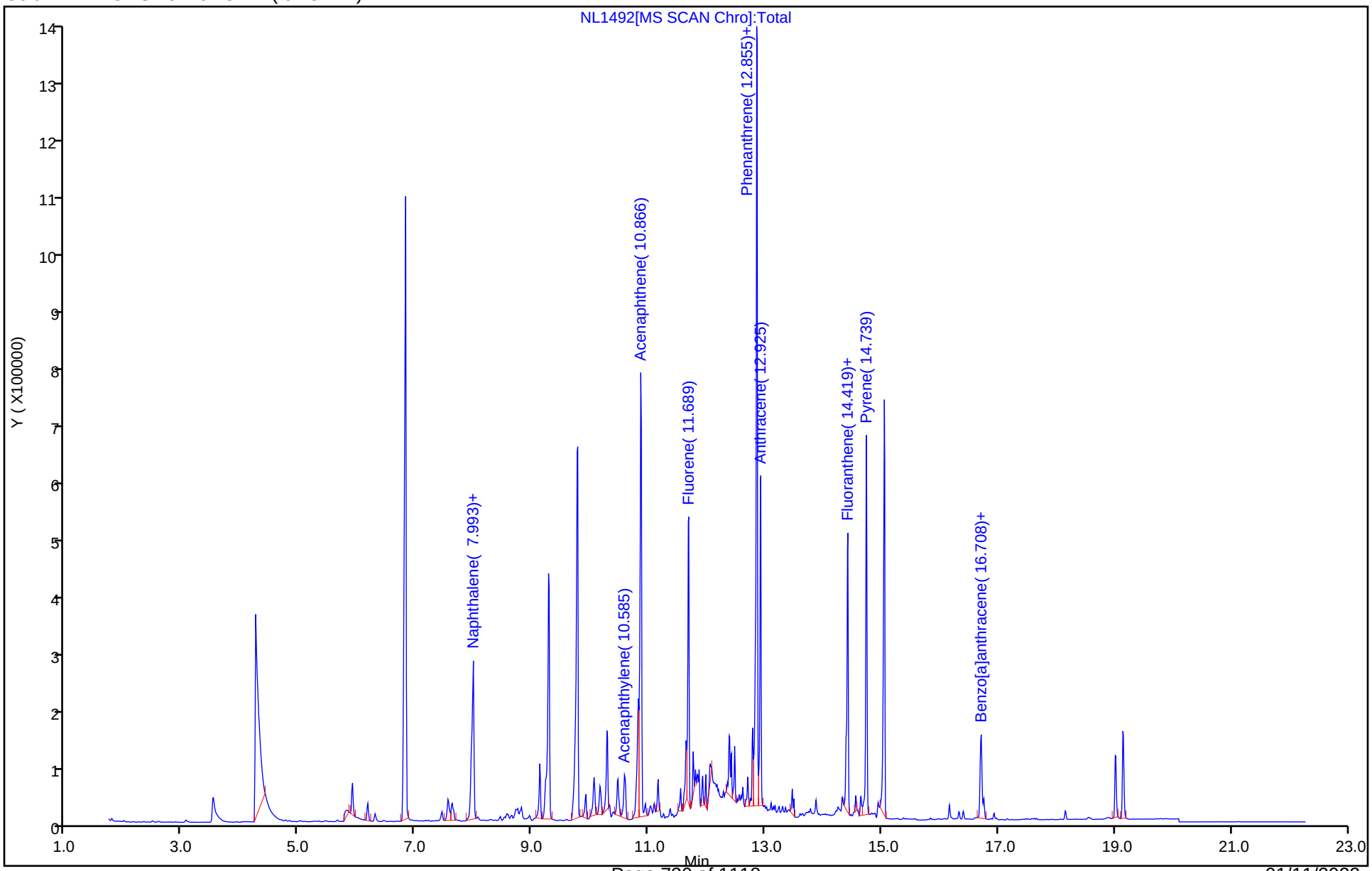
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D

Injection Date:	30-Dec-2021 15:56:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-18-A	Lab Sample ID:	410-68043-18	Worklist Smp#:	23
Client ID:	MW-13S-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



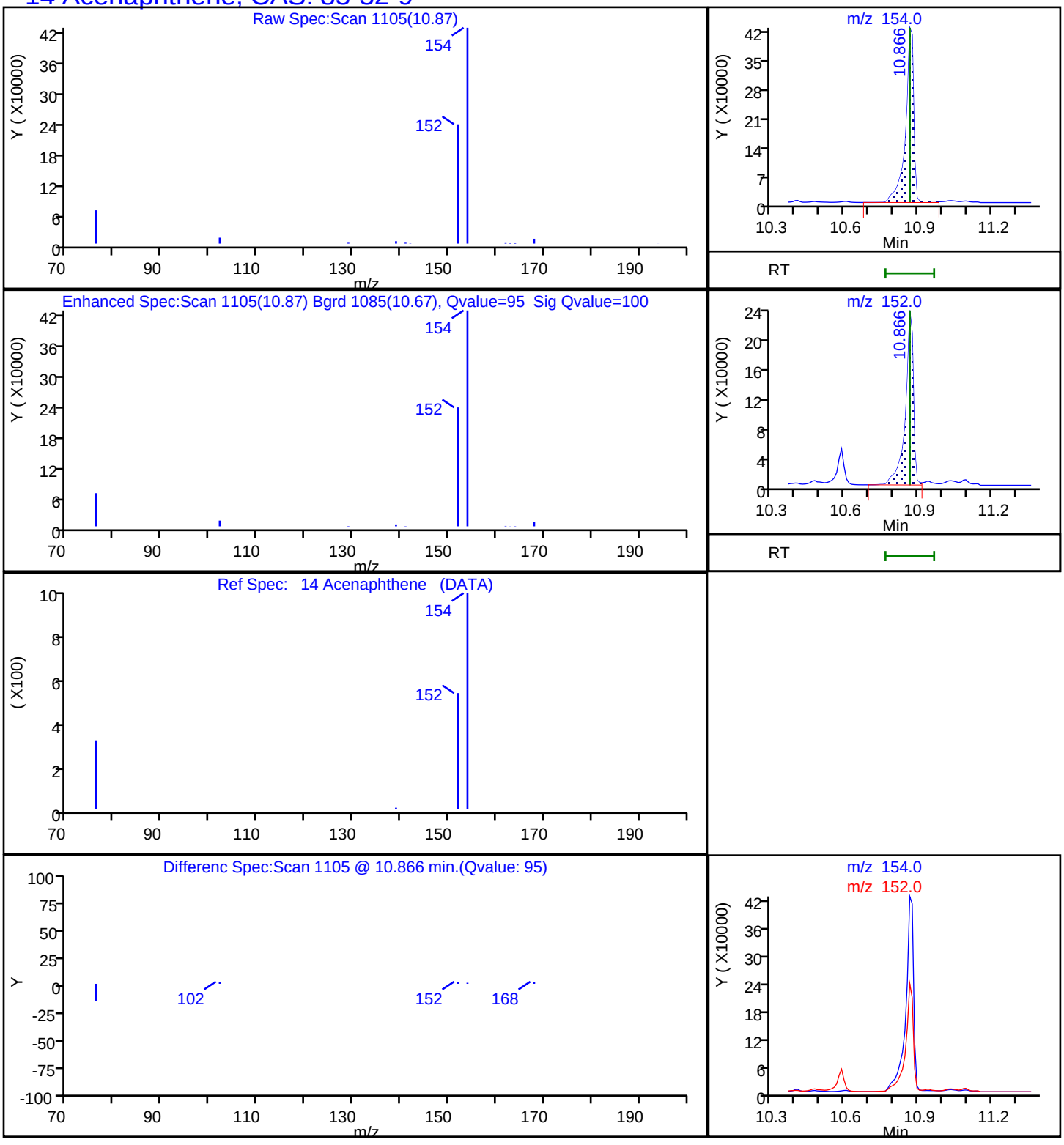
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D

Injection Date:	30-Dec-2021 15:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-18-A	Lab Sample ID:	410-68043-18		
Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
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		

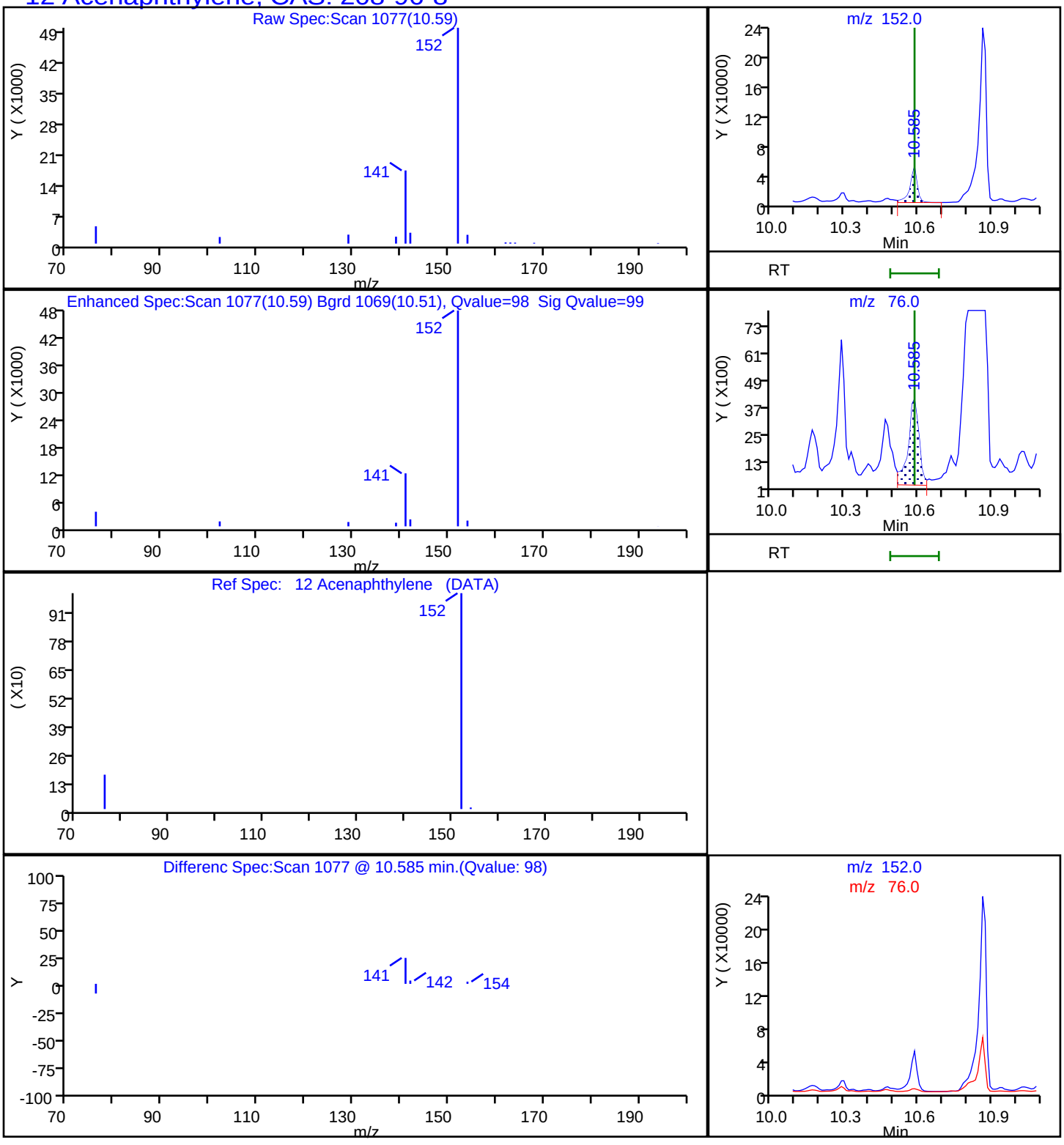
14 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D				
Injection Date:	30-Dec-2021 15:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-18-A	Lab Sample ID:	410-68043-18		
Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
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		

12 Acenaphthylene, CAS: 208-96-8



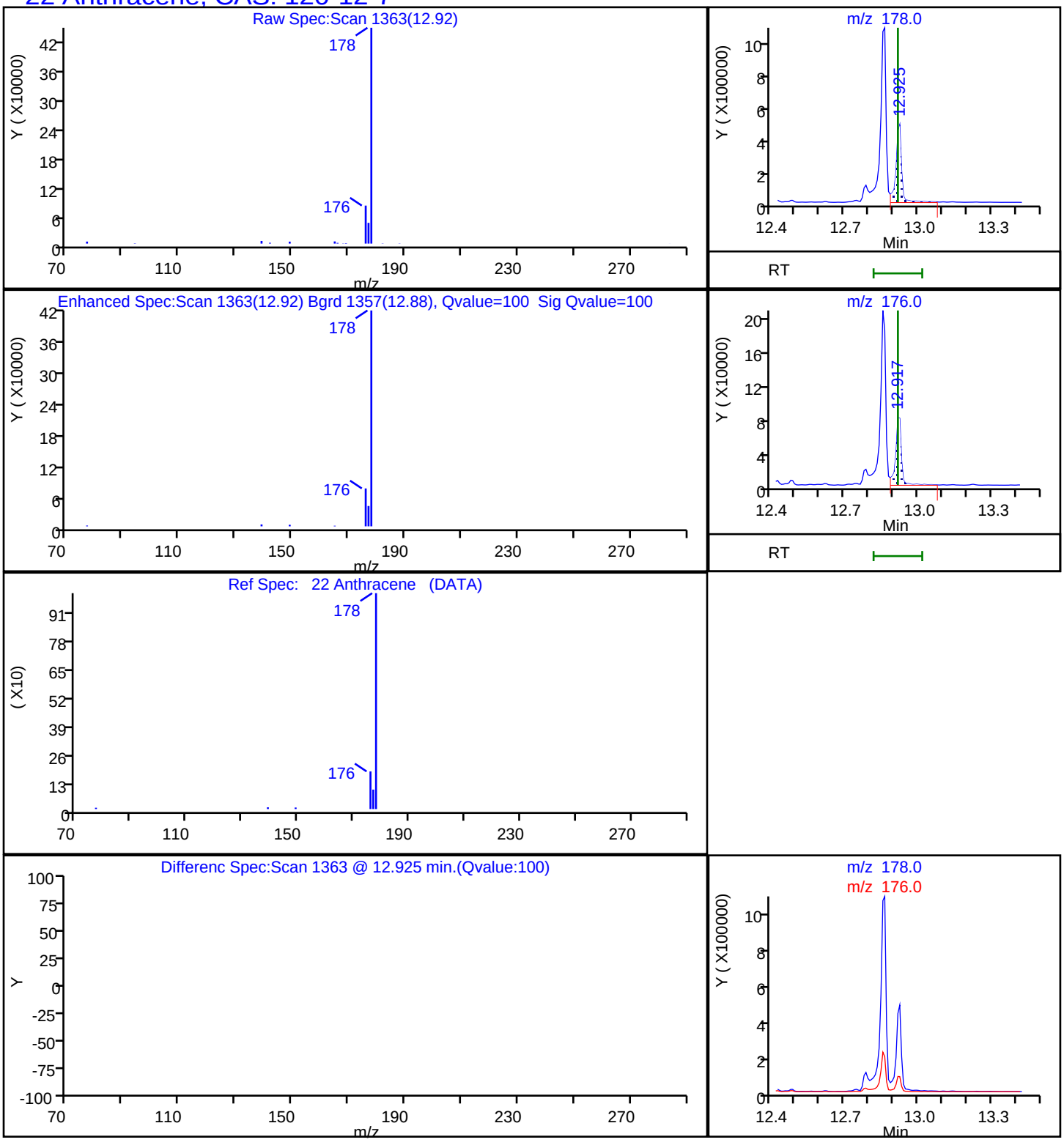
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D

Injection Date:	30-Dec-2021 15:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-18-A	Lab Sample ID:	410-68043-18		
Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
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		

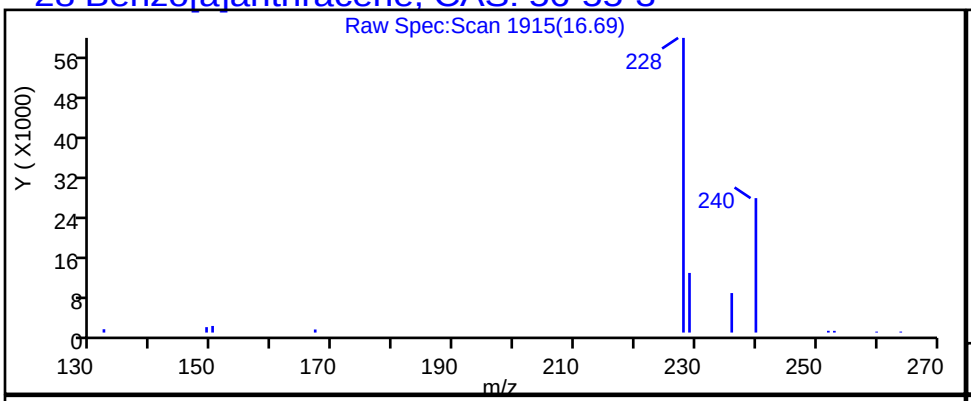
22 Anthracene, CAS: 120-12-7

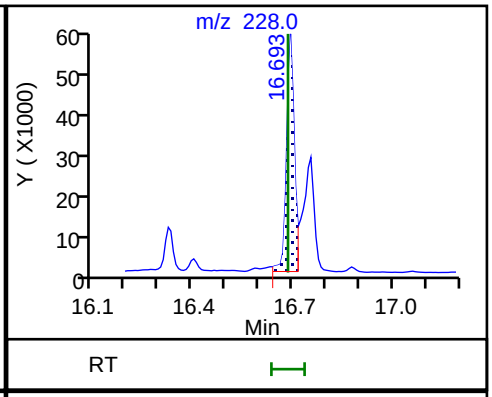


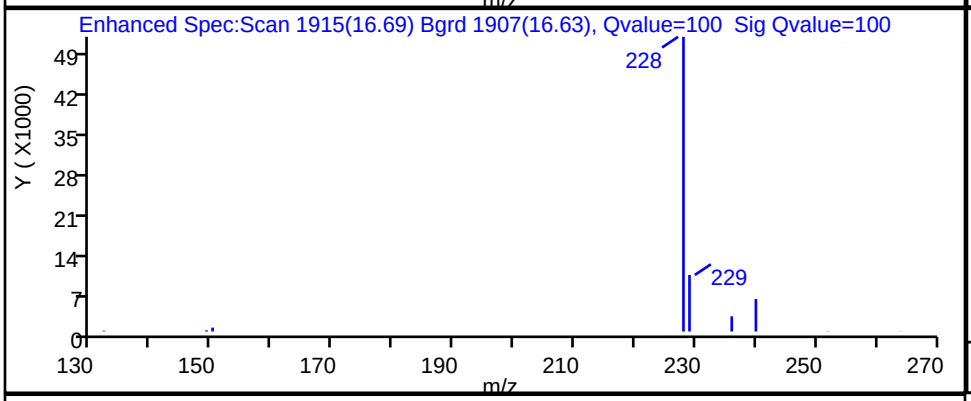
Eurofins Lancaster Laboratories Env, LLC

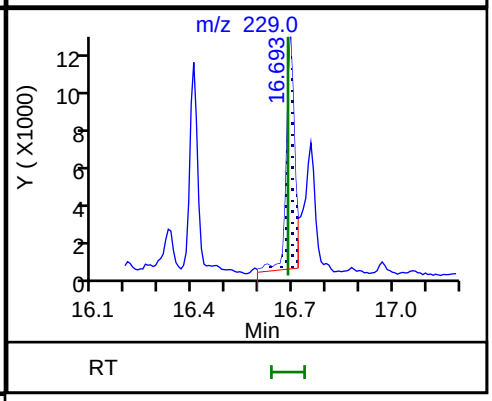
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Lims ID:	410-68043-A-18-A	Lab Sample ID:	410-68043-18		
Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

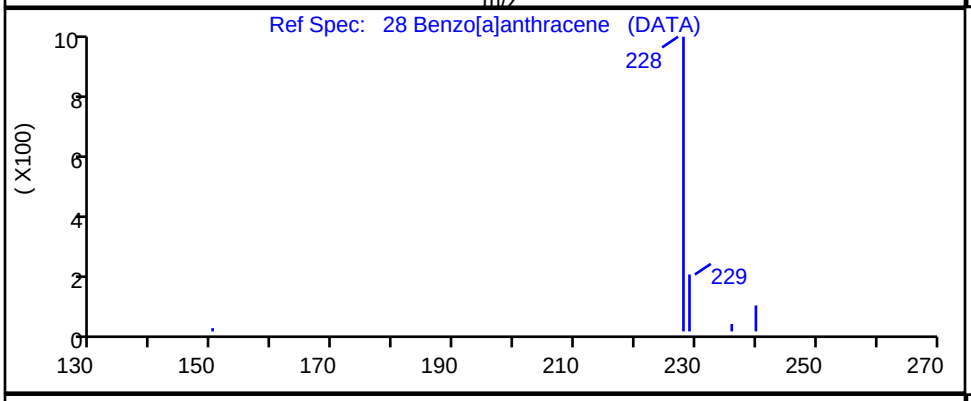
28 Benzo[a]anthracene, CAS: 56-55-3

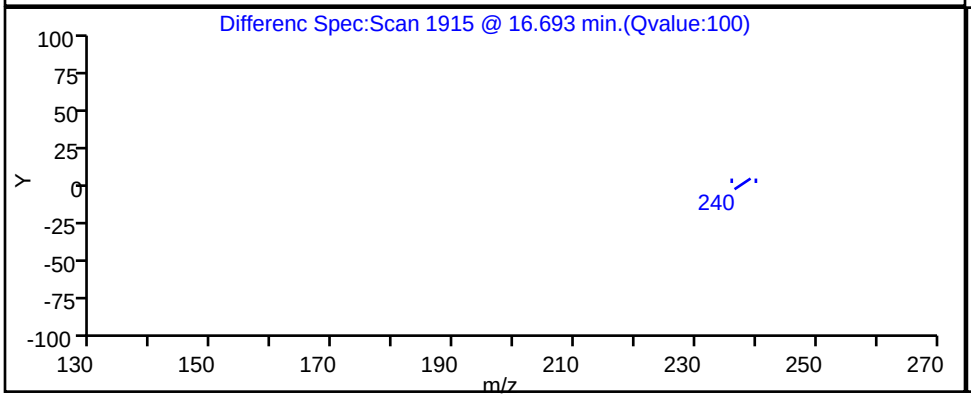


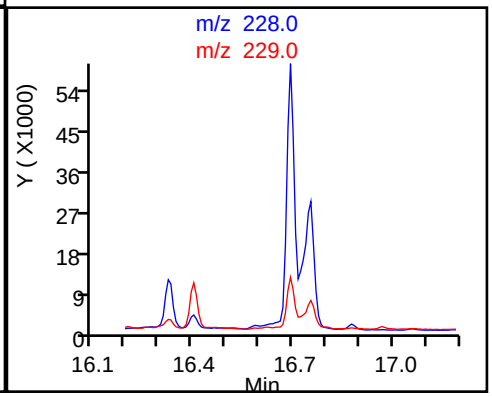








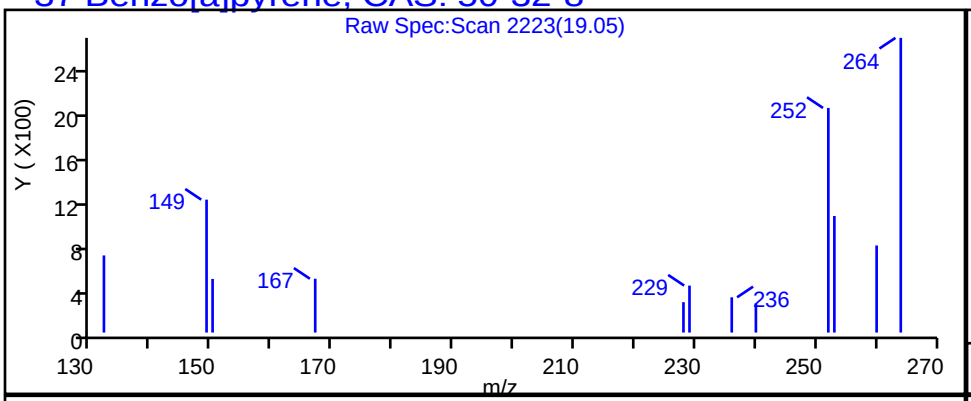


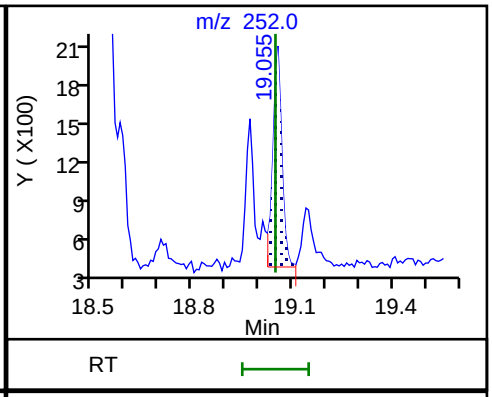


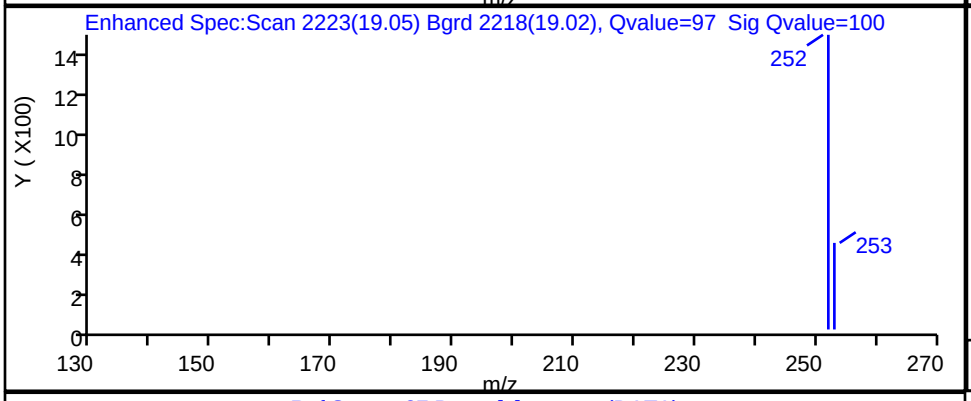
Eurofins Lancaster Laboratories Env, LLC

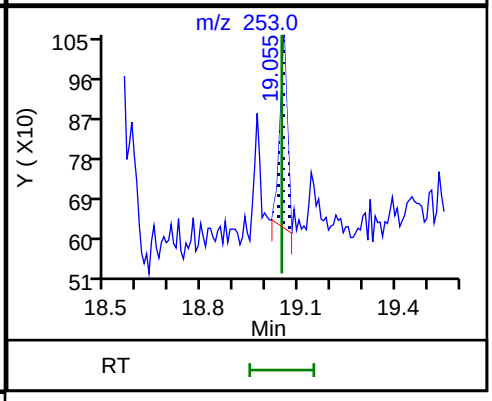
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Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

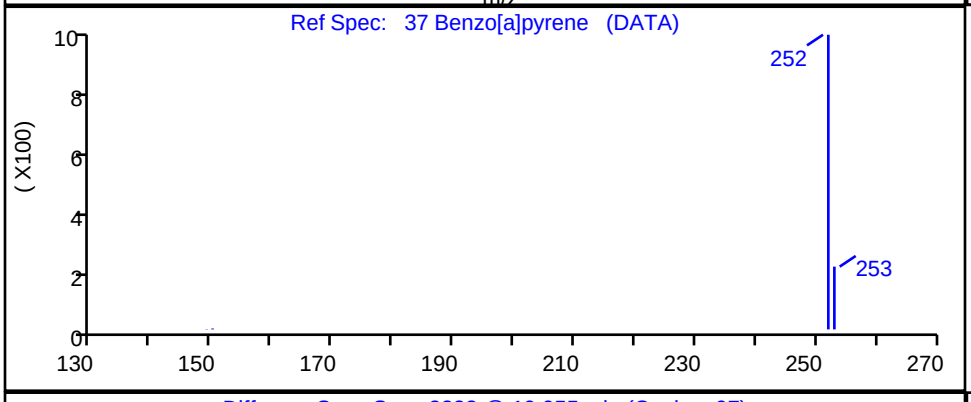
37 Benzo[a]pyrene, CAS: 50-32-8

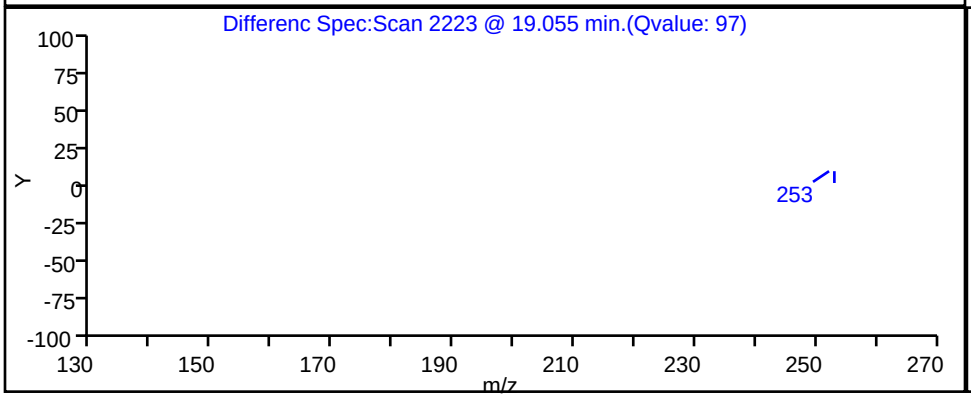


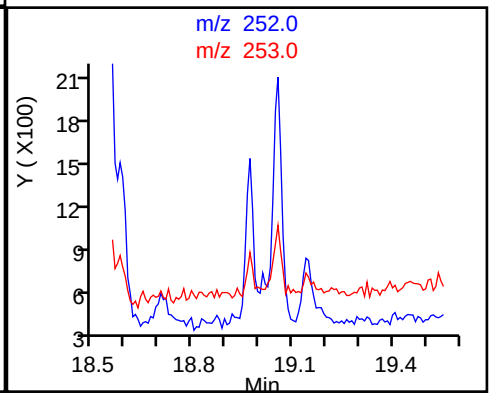








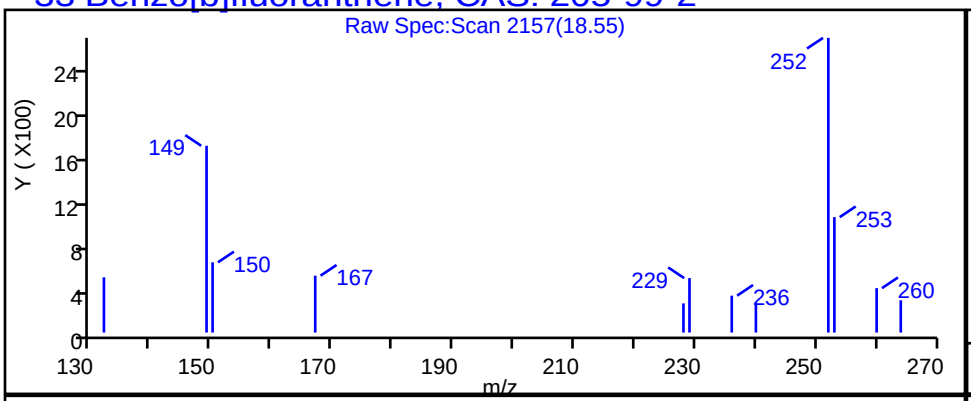


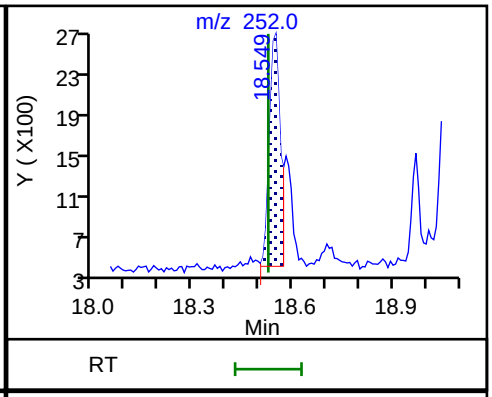


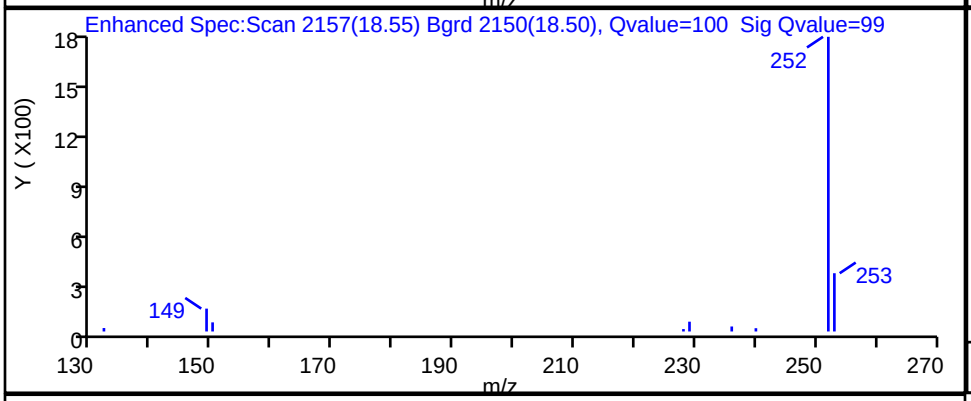
Eurofins Lancaster Laboratories Env, LLC

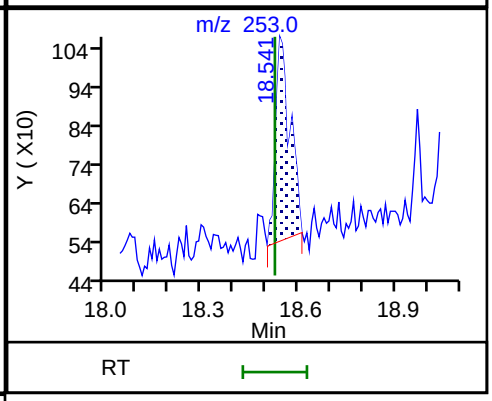
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

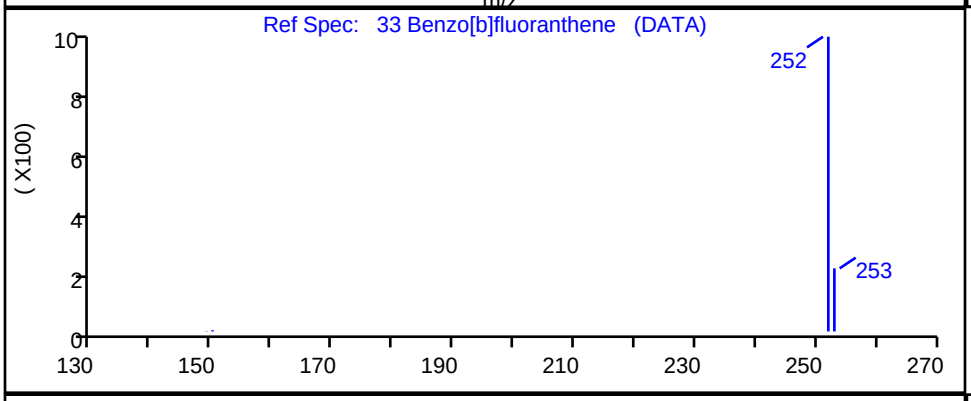
33 Benzo[b]fluoranthene, CAS: 205-99-2

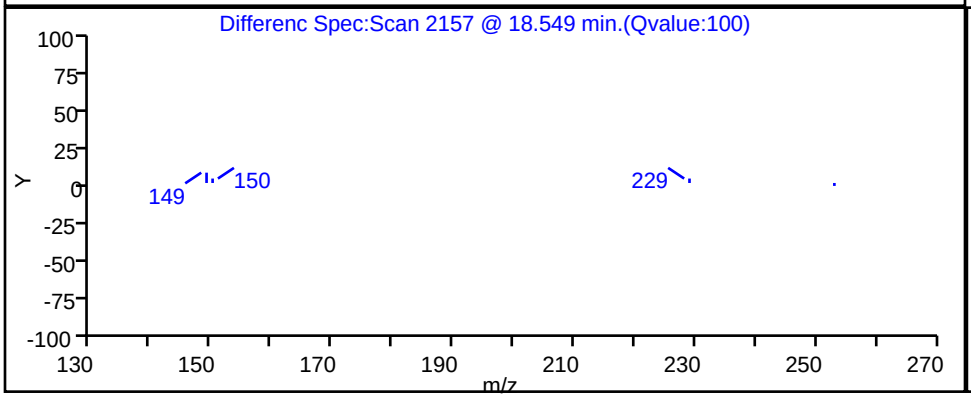


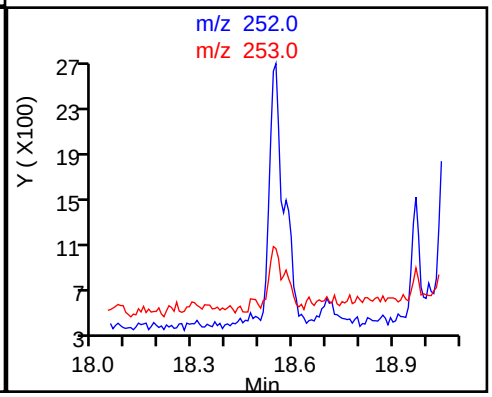








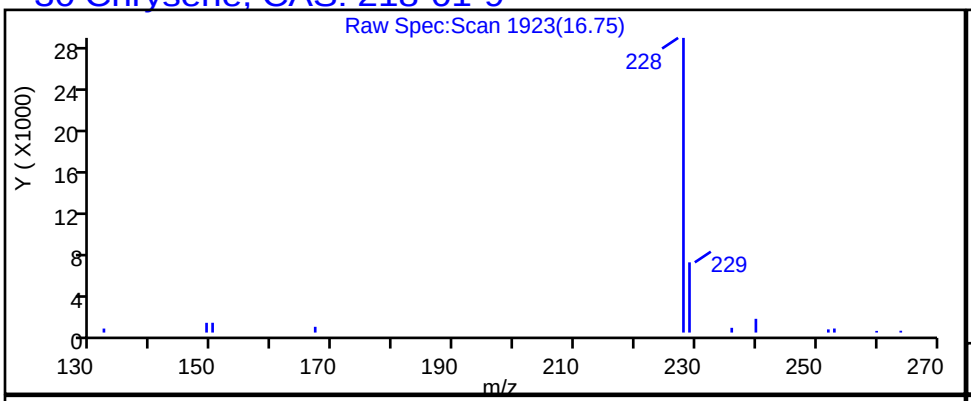


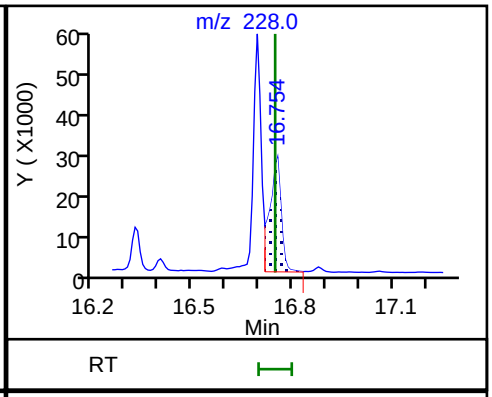


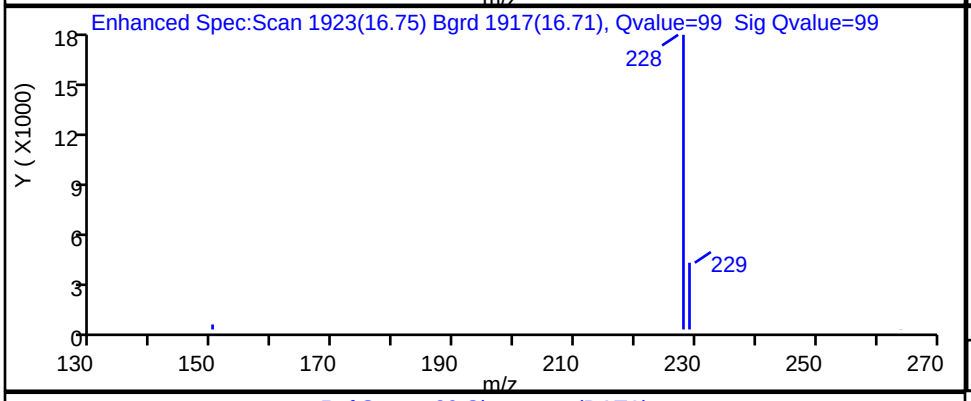
Eurofins Lancaster Laboratories Env, LLC

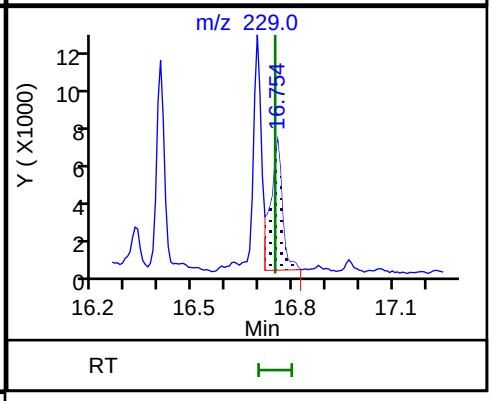
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Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

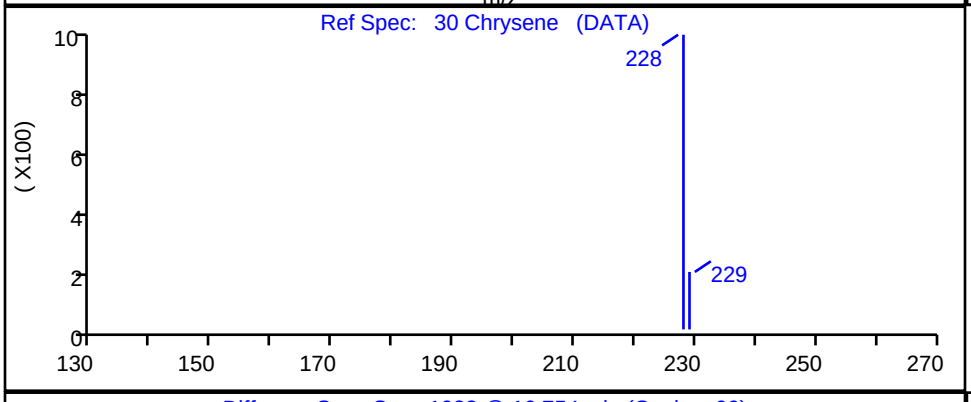
30 Chrysene, CAS: 218-01-9

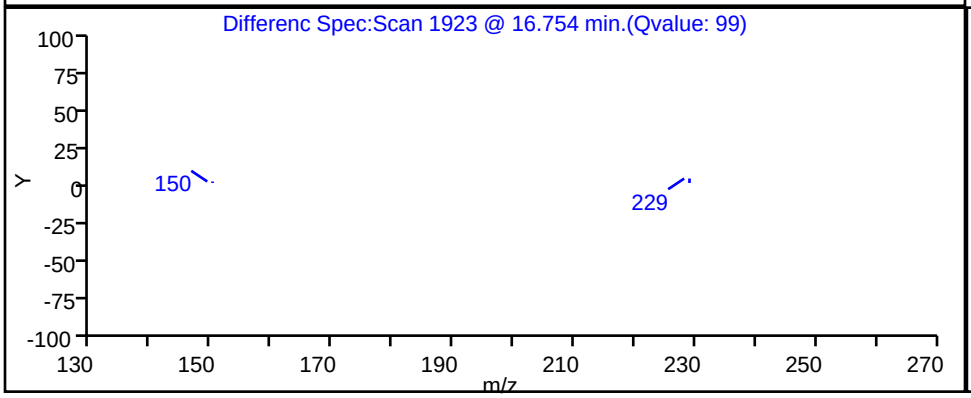


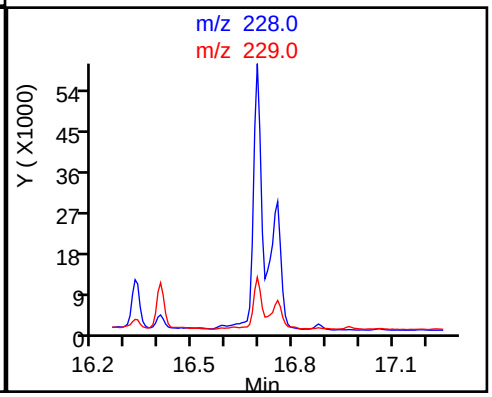












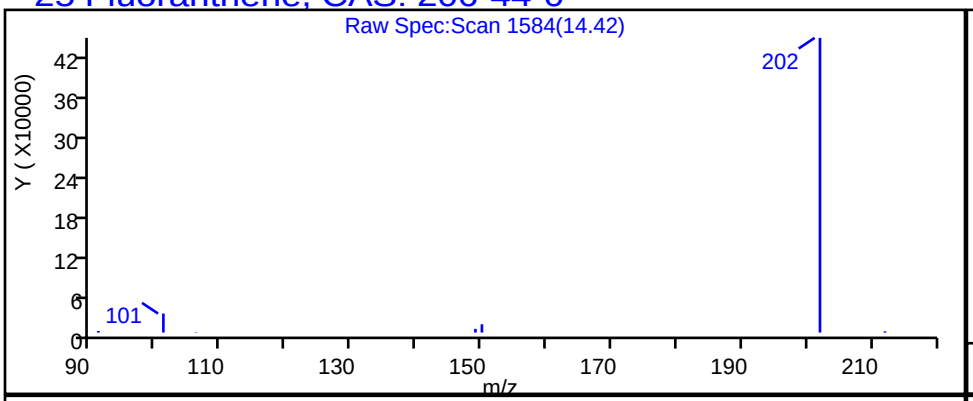
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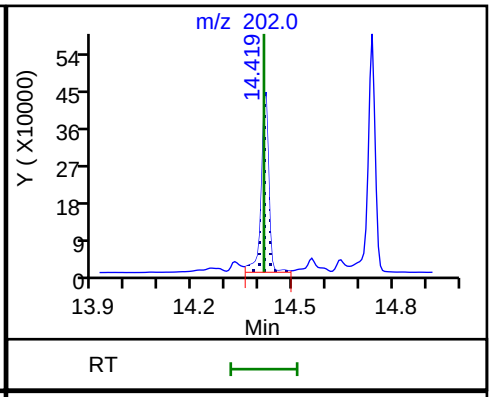
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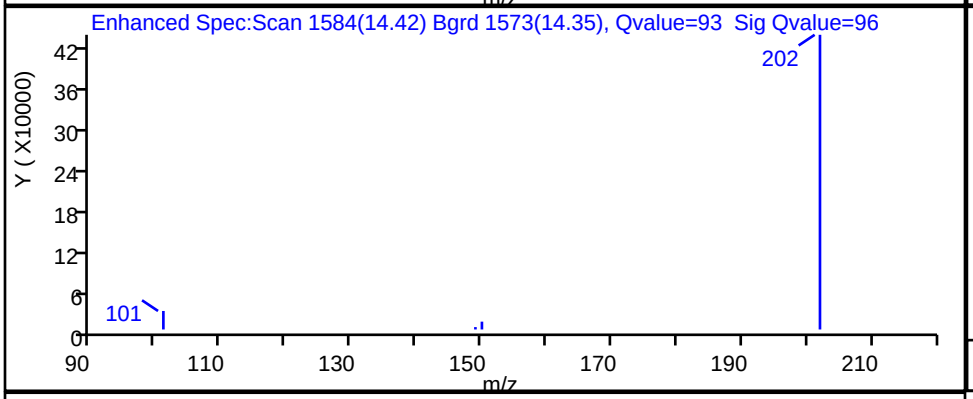
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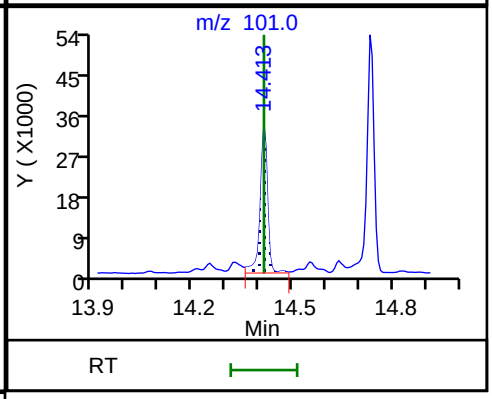
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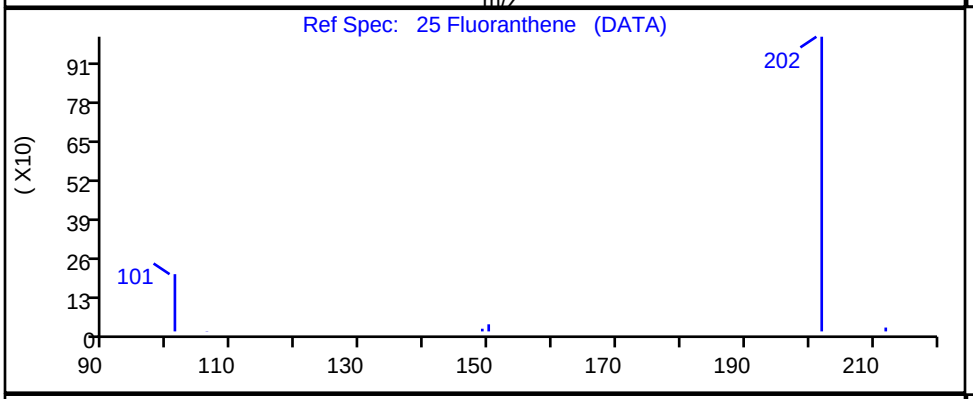
25 Fluoranthene, CAS: 206-44-0

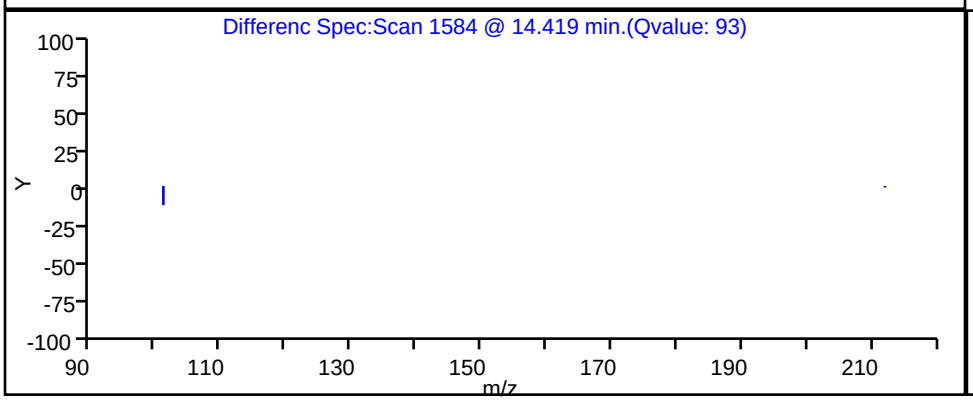


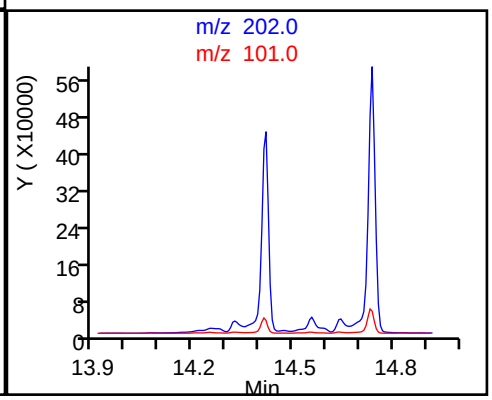












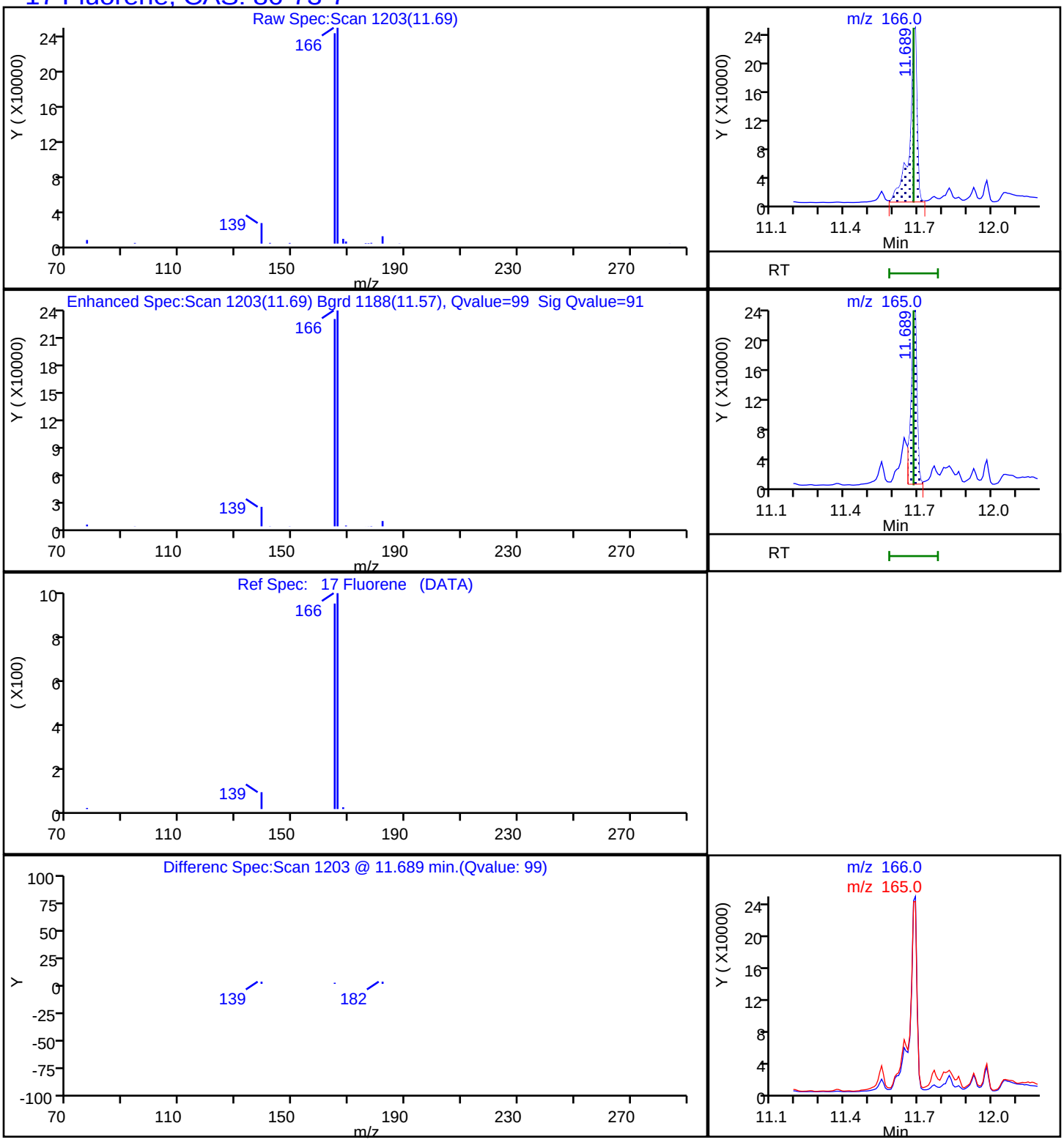
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Eurofins Lancaster Laboratories Env, LLC

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Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

17 Fluorene, CAS: 86-73-7



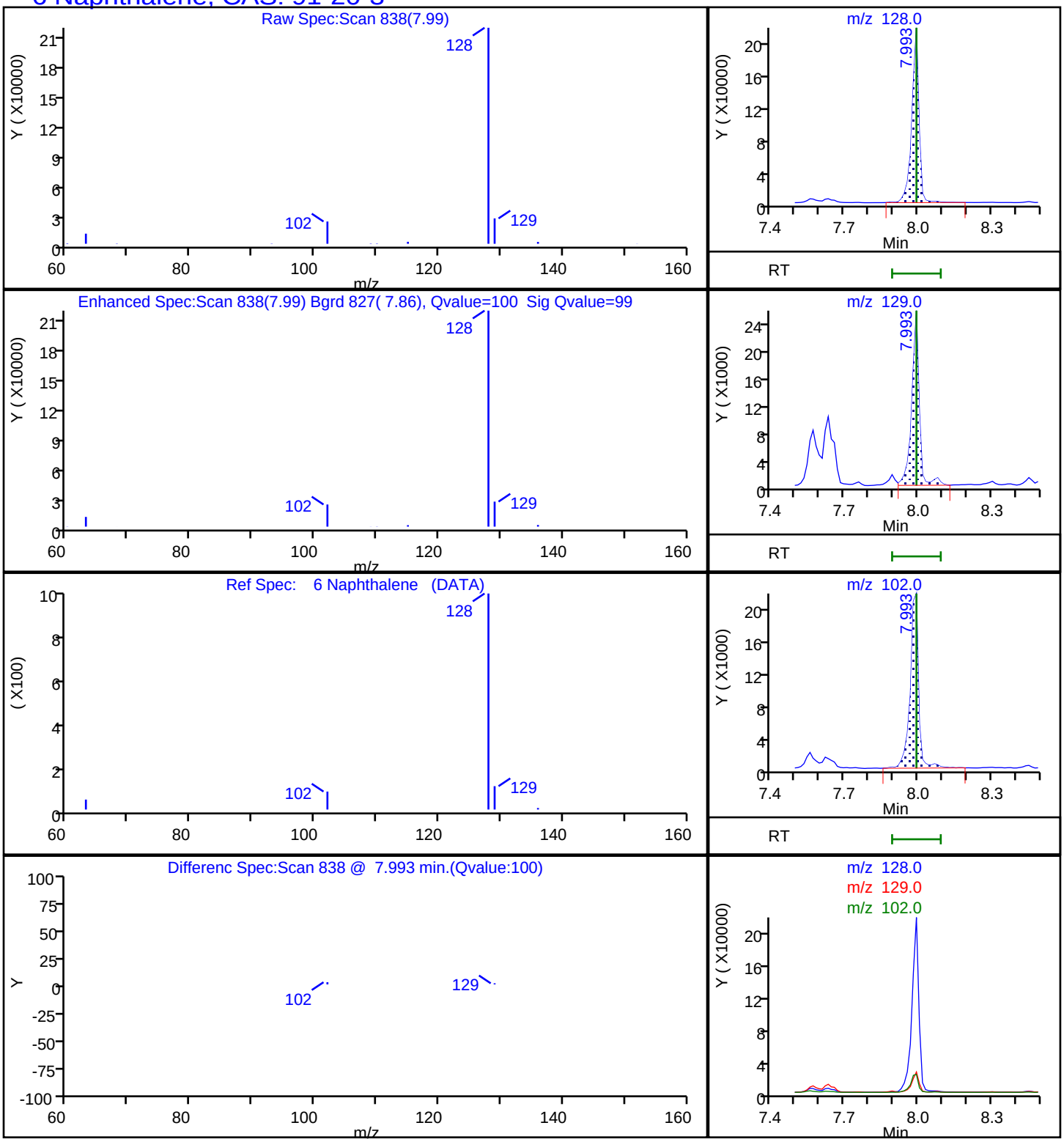
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	30-Dec-2021 15:56:30	Instrument ID:	HP23263		
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Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
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



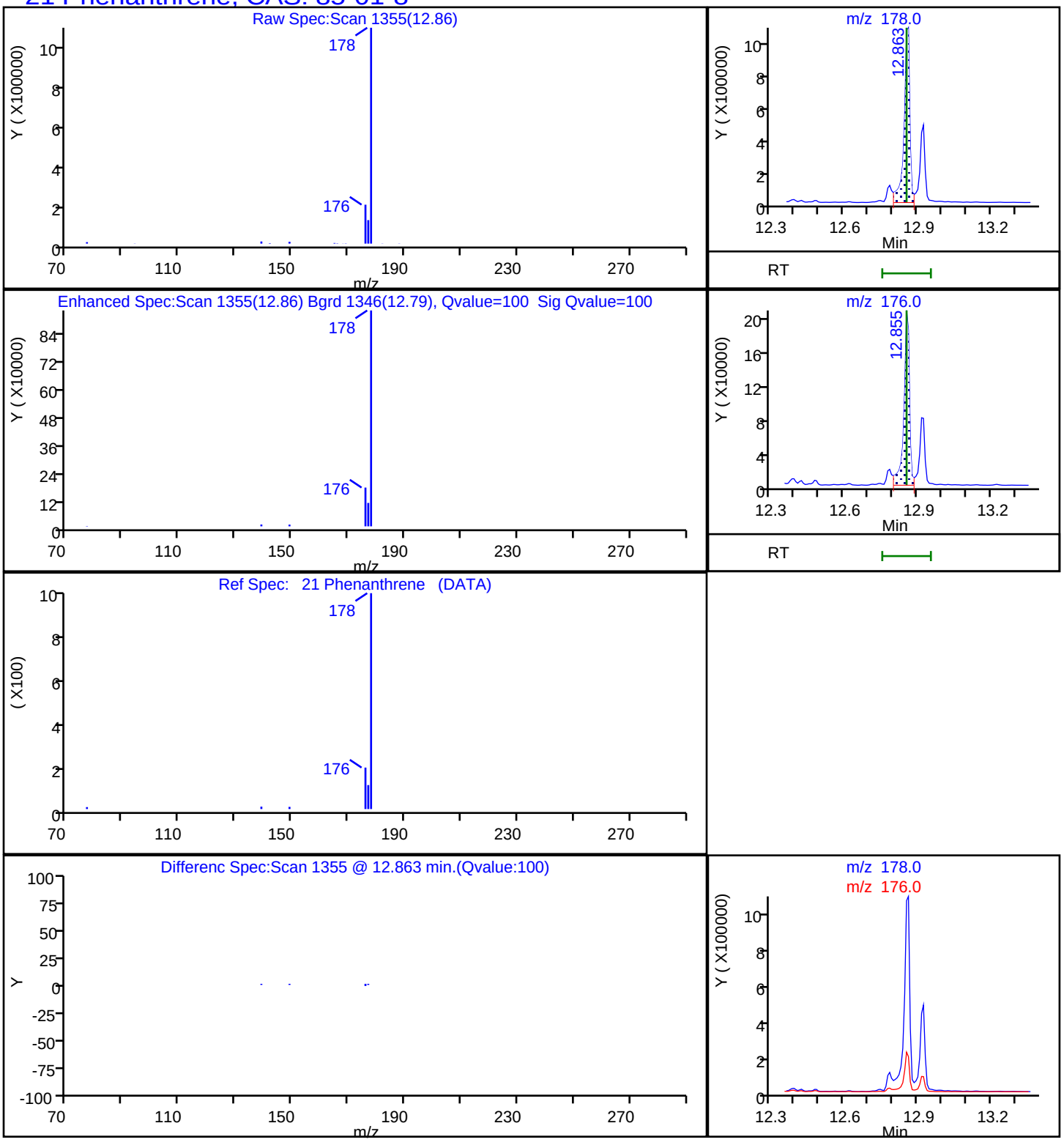
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Eurofins Lancaster Laboratories Env, LLC

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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

21 Phenanthrene, CAS: 85-01-8



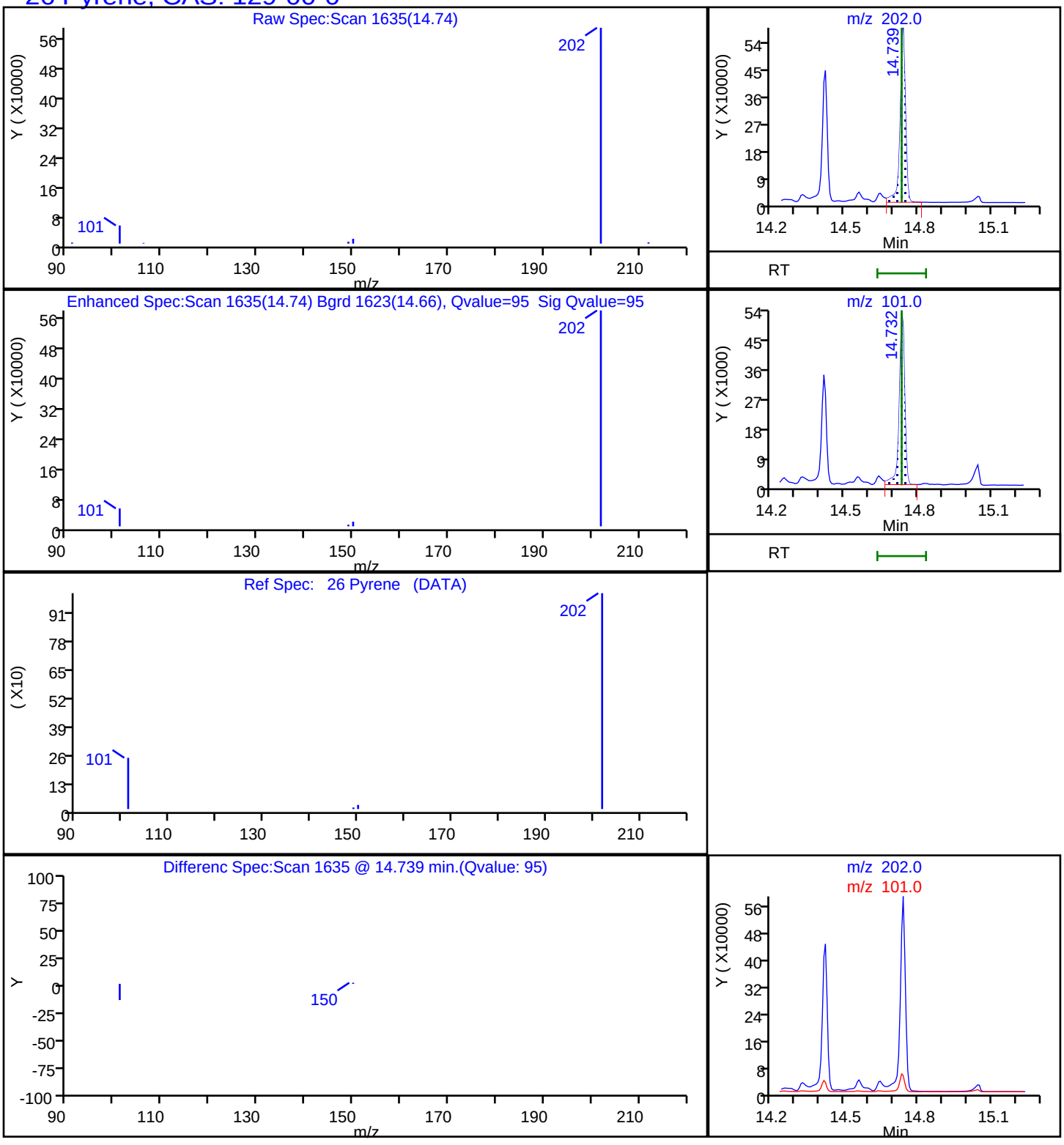
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Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D

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Method:	8270_SIM_HP23263	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

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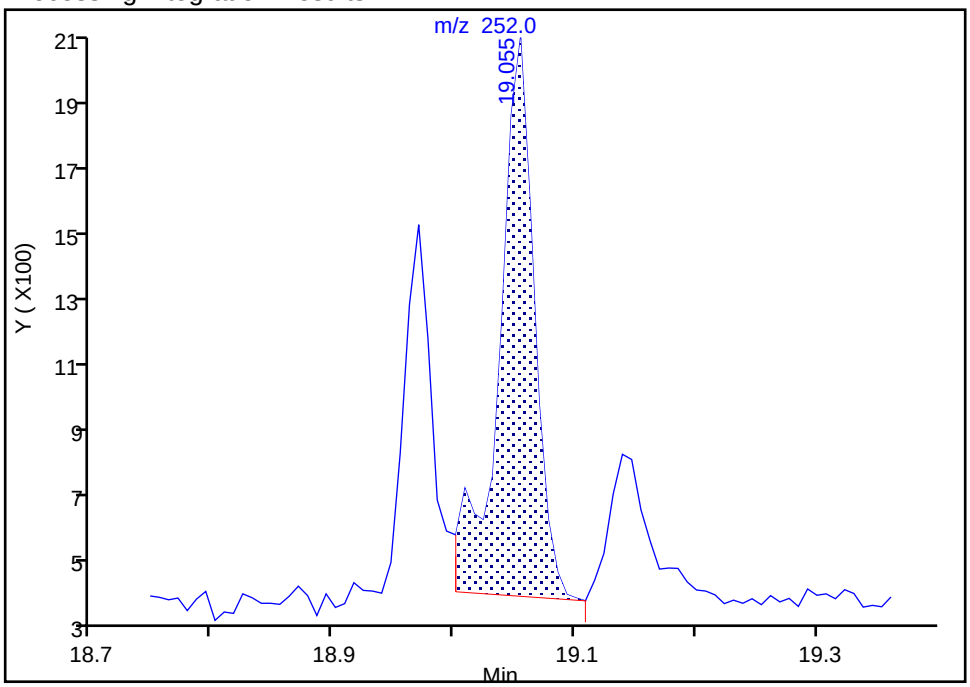
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

37 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

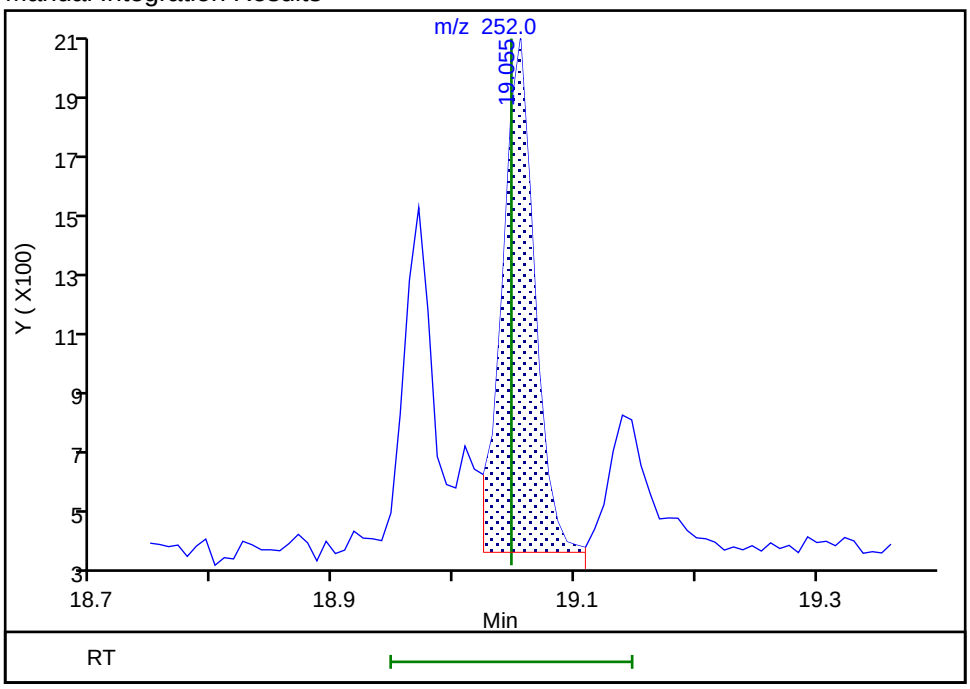
Processing Integration Results

RT: 19.05
Area: 3200
Amount: 0.003351
Amount Units: ug/ml



Manual Integration Results

RT: 19.05
Area: 3000
Amount: 0.003141
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:55:29

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

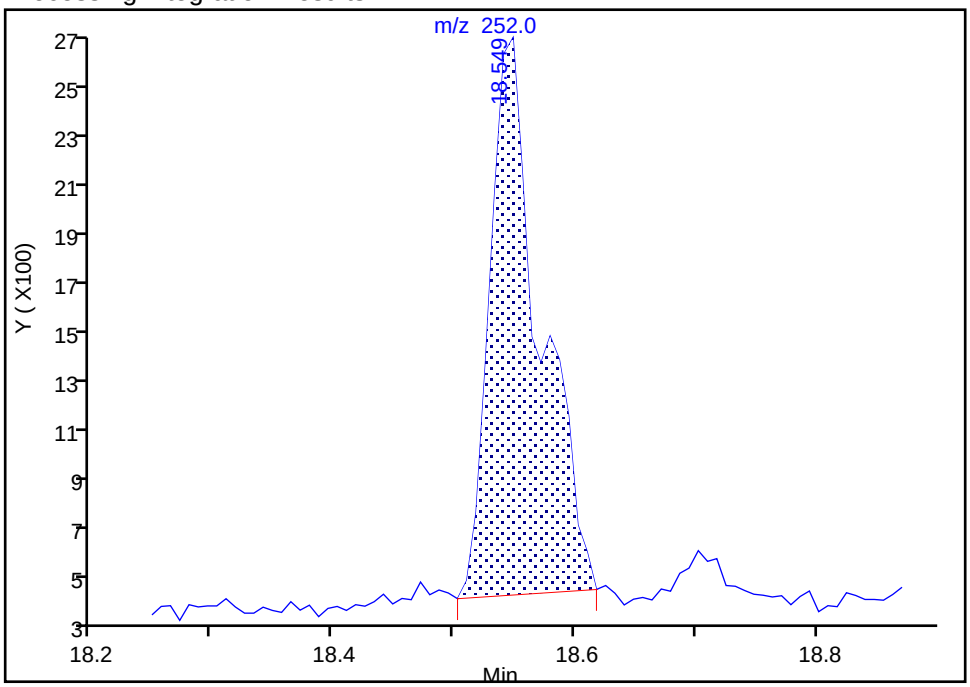
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Client ID:	MW-13S-20211222				
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Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

33 Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

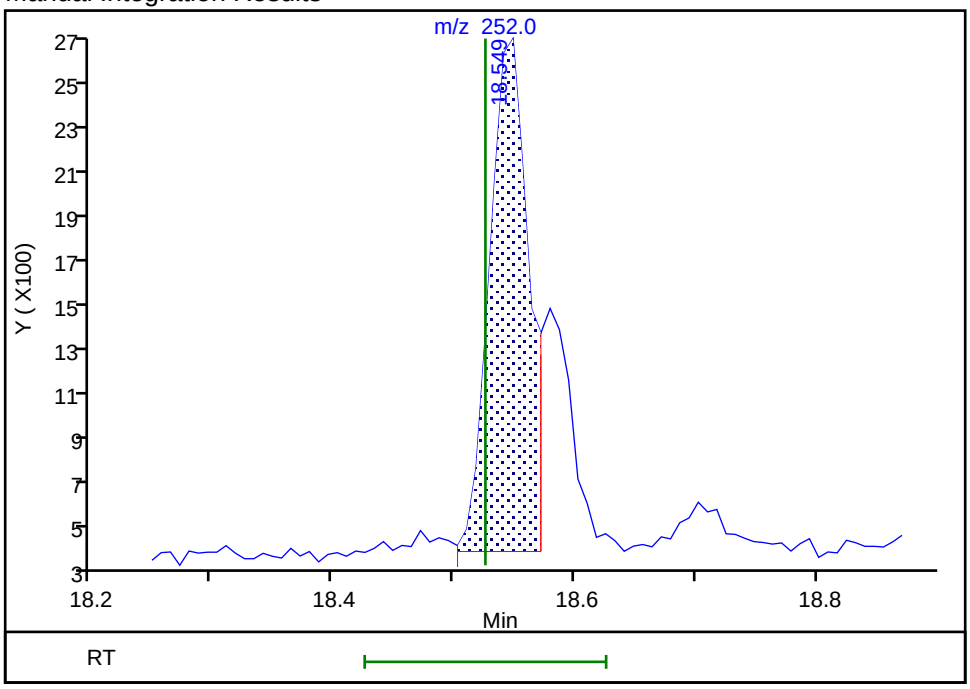
Processing Integration Results

RT: 18.55
Area: 6487
Amount: 0.006562
Amount Units: ug/ml



Manual Integration Results

RT: 18.55
Area: 5009
Amount: 0.005067
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:54:11

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

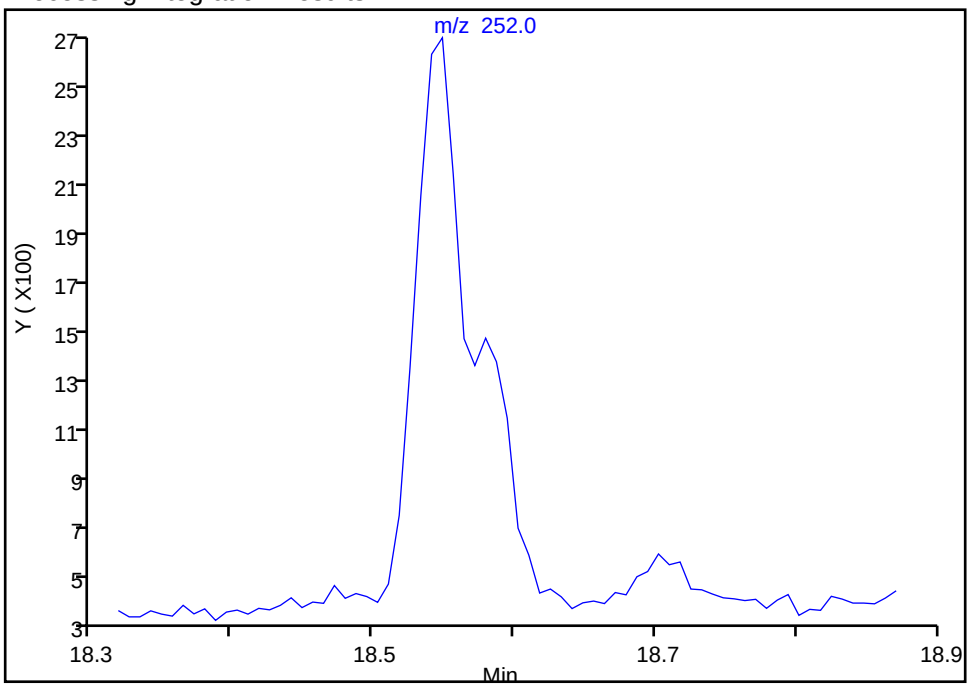
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D				
Injection Date:	30-Dec-2021 15:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-18-A	Lab Sample ID:	410-68043-18		
Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 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

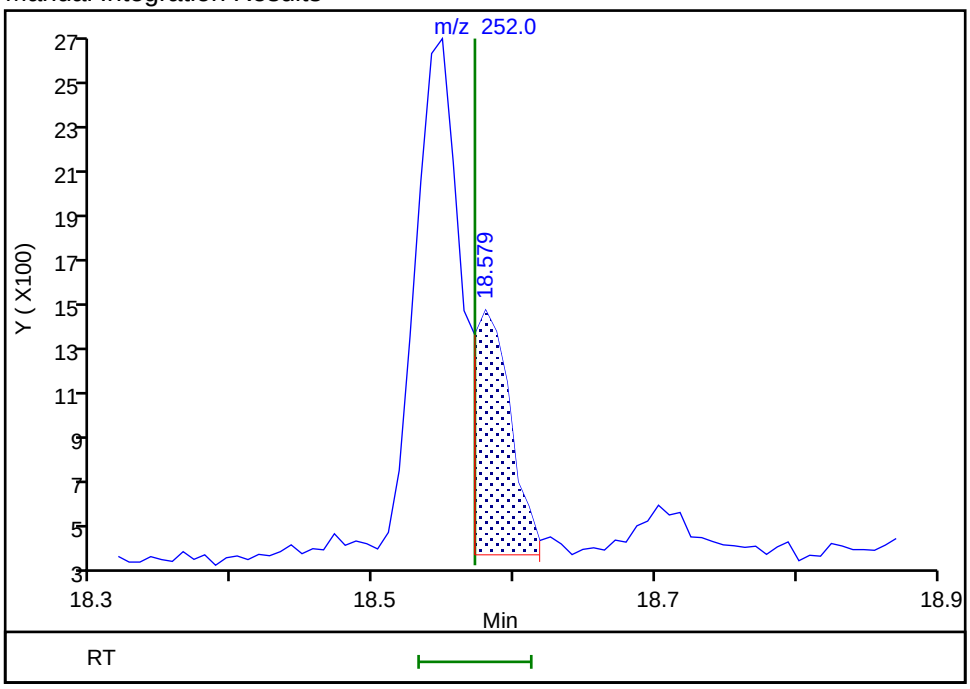
Not Detected
Expected RT: 18.57

Processing Integration Results



Manual Integration Results

RT: 18.58
Area: 1785
Amount: 0.001585
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:54:23
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

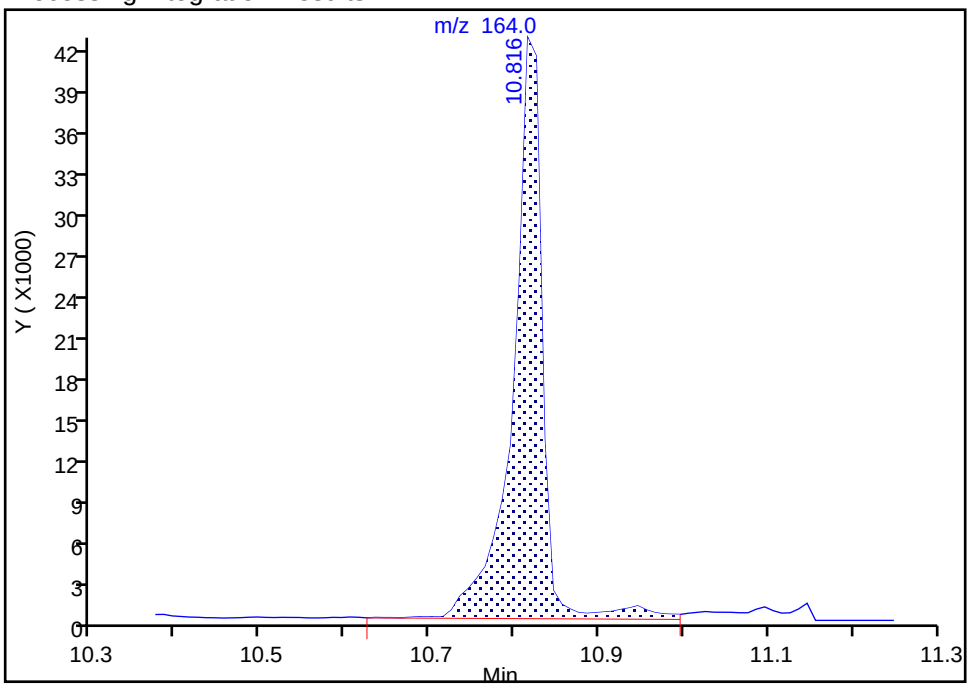
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1492.D				
Injection Date:	30-Dec-2021 15:56:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-18-A	Lab Sample ID:	410-68043-18		
Client ID:	MW-13S-20211222				
Operator ID:	jmg00346	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 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		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

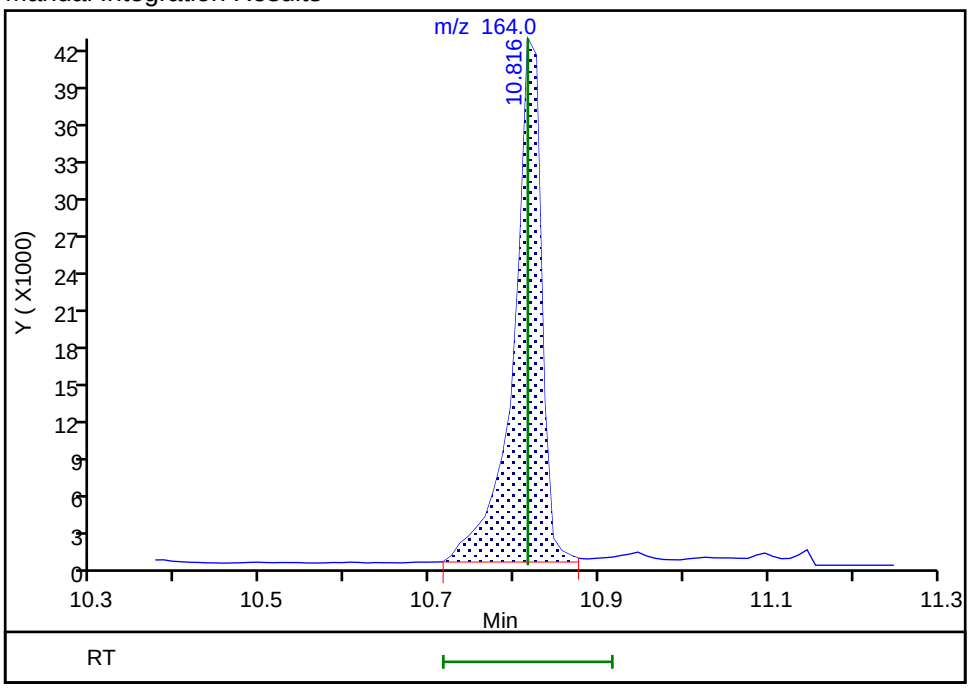
Processing Integration Results

RT: 10.82
Area: 103703
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 10.82
Area: 98042
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:53:27
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-13D-20211222 Lab Sample ID: 410-68043-19

Matrix: Ground Water Lab File ID: NL1493.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 12:10

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 240.6(mL) Date Analyzed: 12/30/2021 16:24

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.052	0.010
208-96-8	Acenaphthylene	ND		0.052	0.010
120-12-7	Anthracene	ND		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	0.023	J	0.052	0.010
86-73-7	Fluorene	ND		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021
91-20-3	Naphthalene	ND		0.073	0.031
85-01-8	Phenanthrene	ND		0.073	0.031
129-00-0	Pyrene	0.023	J	0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	72		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	84		36-111
93951-69-0	Fluoranthene-d10 (Surr)	92		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1493.D				
Lims ID:	410-68043-A-19-A				
Client ID:	MW-13D-20211222				
Sample Type:	Client				
Inject. Date:	30-Dec-2021 16:24:30	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-68043-A-19-A				
Misc. Info.:	410-0047435-024				
Operator ID:	jmg00346	Instrument ID:	HP23263		
Method:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	31-Dec-2021 14:01:57	Calib Date:	16-Dec-2021 11:36:30		
Integrator:	Falcon	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1635				
First Level Reviewer: transuea		Date:	31-Dec-2021 13:56:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.918	5.919	-0.001	98	57415	0.2500	
* 5 Naphthalene-d8	136	7.968	7.956	0.012	100	174973	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	99	77524	0.2088	
* 13 Acenaphthene-d10	164	10.816	10.816	0.000	89	97189	0.2500	
14 Acenaphthene	154	10.866	10.876	0.000	64	825	0.001910	
17 Fluorene	166	11.689	11.689	0.008	94	814	0.001605	M
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	100	180873	0.2500	
21 Phenanthrene	178	12.863	12.855	0.008	97	3989	0.005032	
$ 24 Fluoranthene-d10 (Surr)	212	14.394	14.394	0.006	96	160224	0.2311	
25 Fluoranthene	202	14.419	14.419	0.006	52	4395	0.005651	
26 Pyrene	202	14.745	14.739	0.013	95	5792	0.005503	
* 29 Chrysene-d12	240	16.716	16.700	0.016	81	168226	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.017	19.009	0.008	96	129787	0.1790	
* 38 Perylene-d12	264	19.147	19.139	0.008	95	199864	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

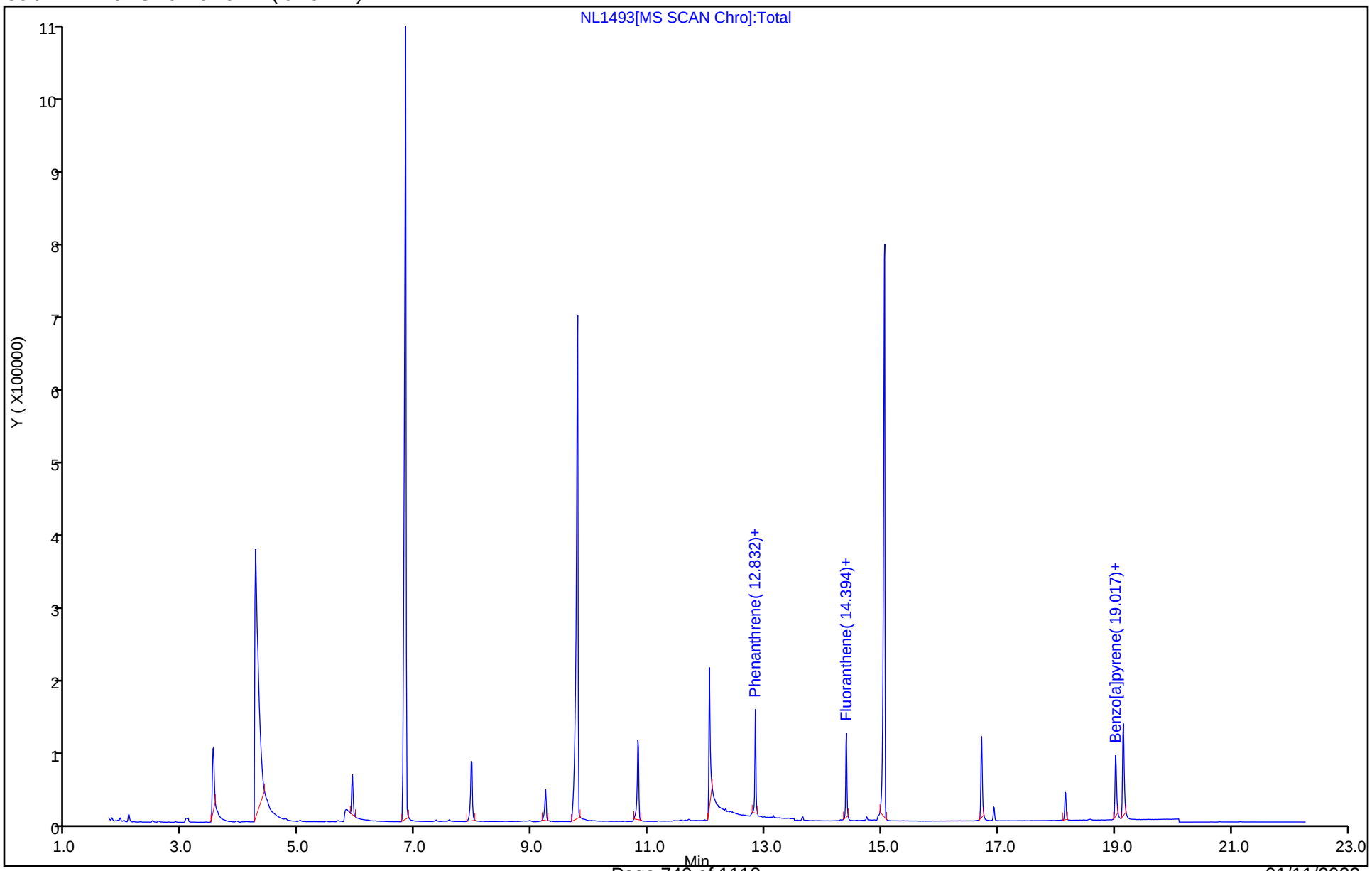
Report Date: 31-Dec-2021 14:02:33 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1493.D

Injection Date:	30-Dec-2021 16:24:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-19-A	Lab Sample ID:	410-68043-19	Worklist Smp#:	24
Client ID:	MW-13D-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



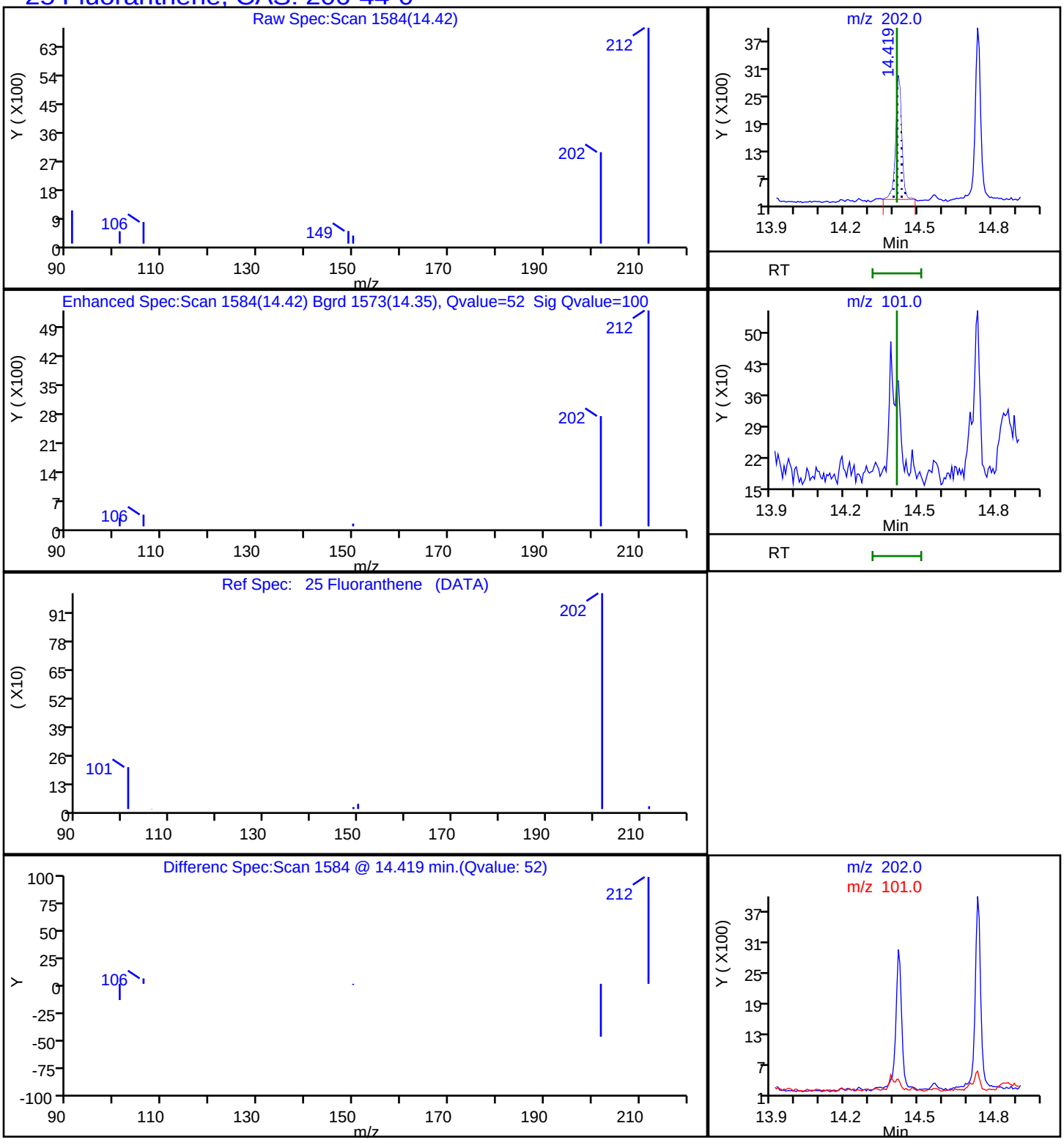
Report Date: 31-Dec-2021 14:02:33 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1493.D

Injection Date:	30-Dec-2021 16:24:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-19-A	Lab Sample ID:	410-68043-19		
Client ID:	MW-13D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	24
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		

25 Fluoranthene, CAS: 206-44-0



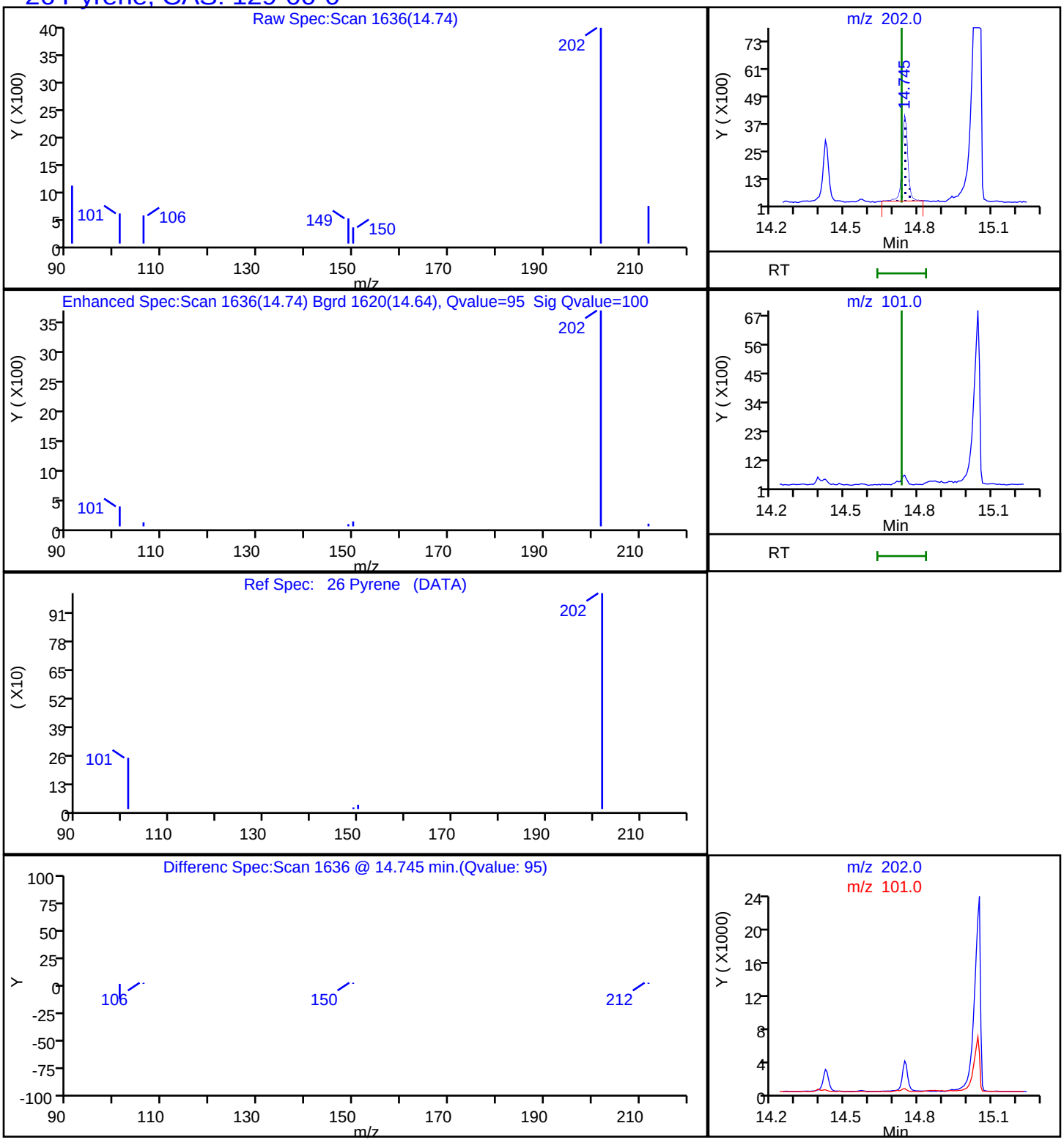
Report Date: 31-Dec-2021 14:02:33 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1493.D

Injection Date:	30-Dec-2021 16:24:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-19-A	Lab Sample ID:	410-68043-19		
Client ID:	MW-13D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	24
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		

26 Pyrene, CAS: 129-00-0



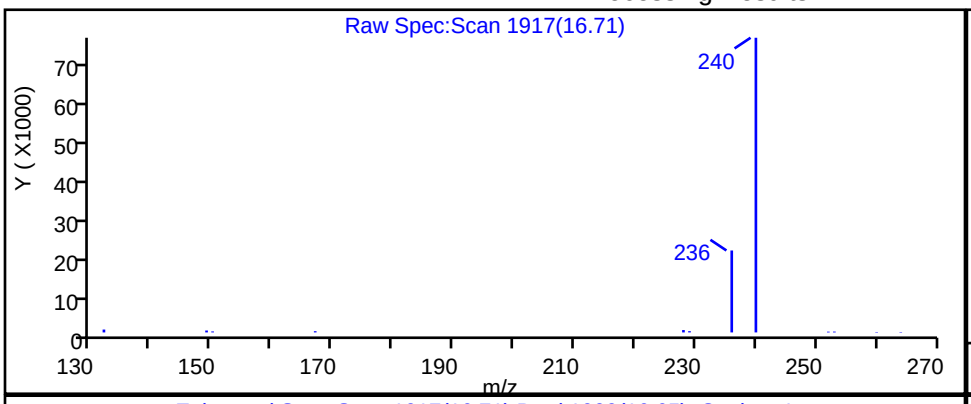
User Disabled Compound Report

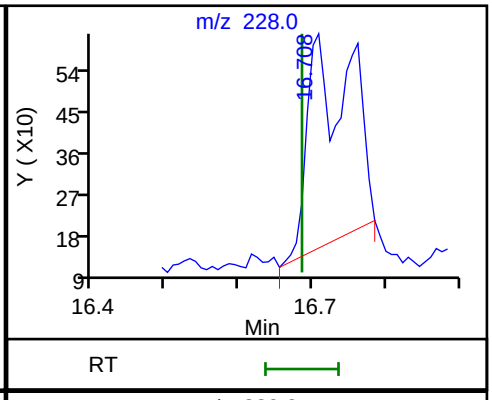
Eurofins Lancaster Laboratories Env, LLC

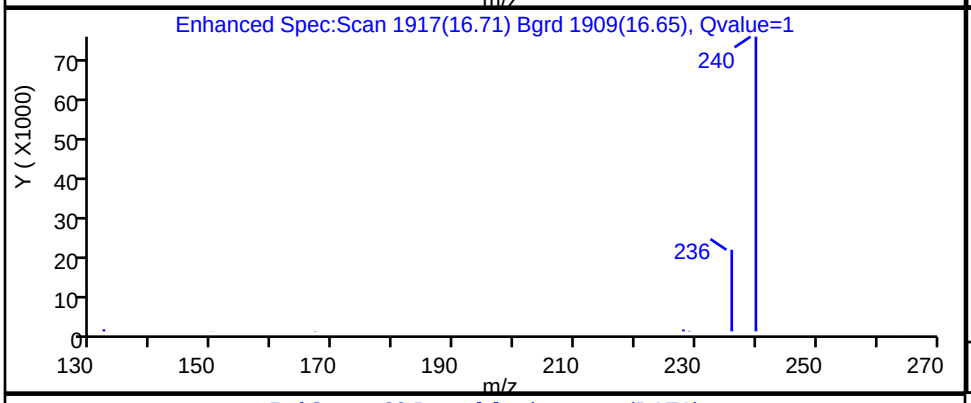
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1493.D				
Injection Date:	30-Dec-2021 16:24:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-19-A	Lab Sample ID:	410-68043-19		
Client ID:	MW-13D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 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		

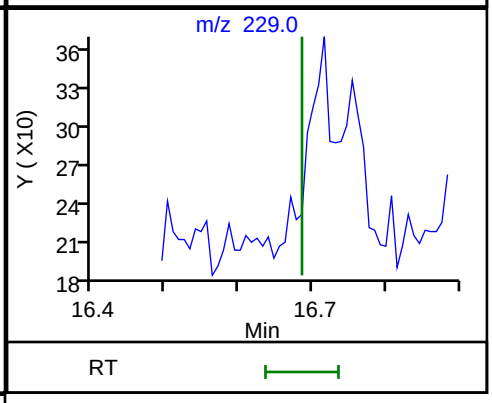
28 Benzo[a]anthracene, CAS: 56-55-3

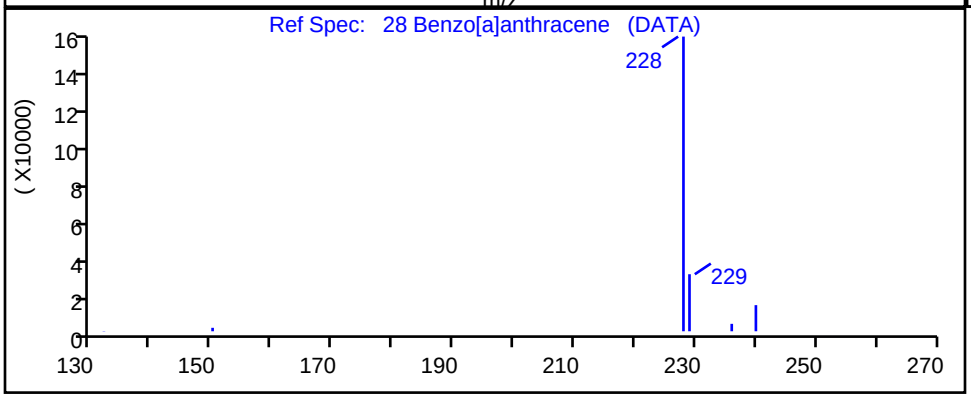
Processing Results











RT	Mass	Response	Amount
16.71	228.00	1820	0.002258
16.69	229.00	0	

Reviewer: transuea, 31-Dec-2021 13:56:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

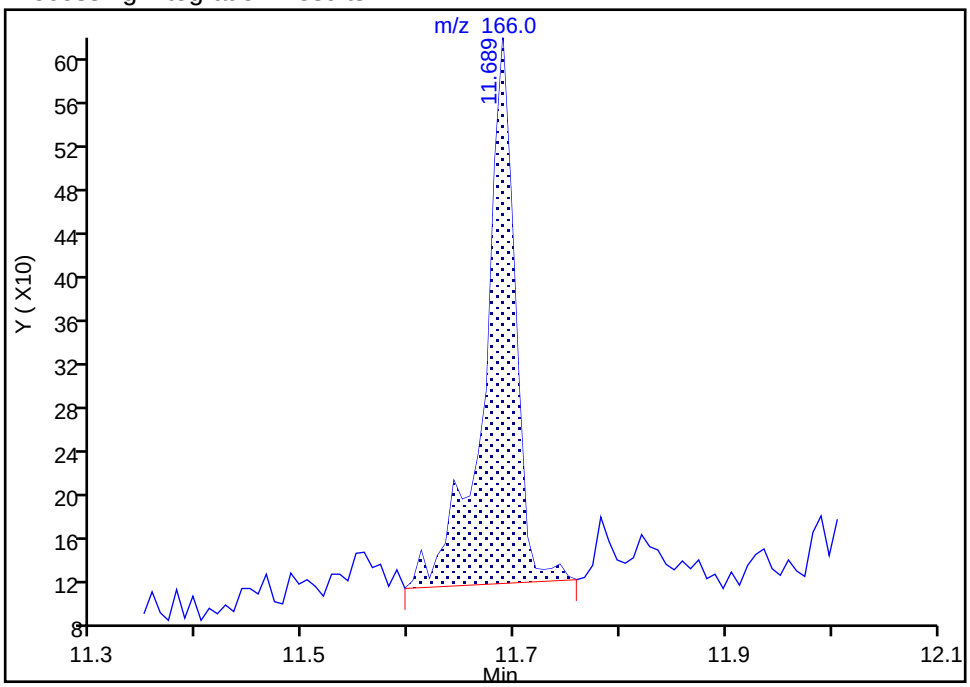
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1493.D				
Injection Date:	30-Dec-2021 16:24:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-19-A	Lab Sample ID:	410-68043-19		
Client ID:	MW-13D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 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		

17 Fluorene, CAS: 86-73-7

Signal: 1

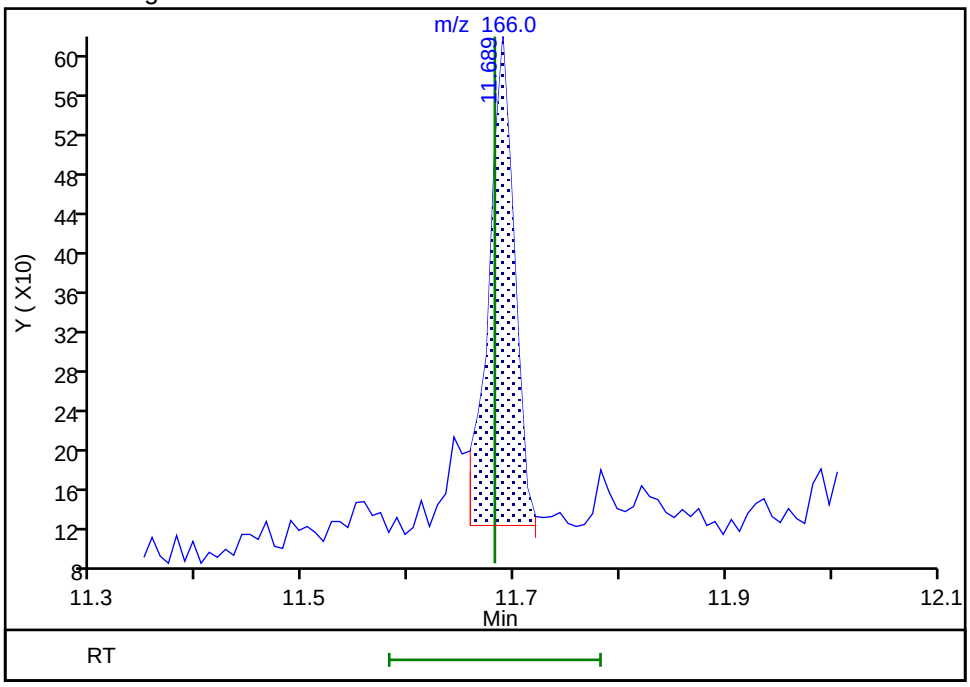
Processing Integration Results

RT: 11.69
Area: 1004
Amount: 0.001979
Amount Units: ug/ml



Manual Integration Results

RT: 11.69
Area: 814
Amount: 0.001605
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:56:25

Audit Action: Manually Integrated Audit Reason: Baseline

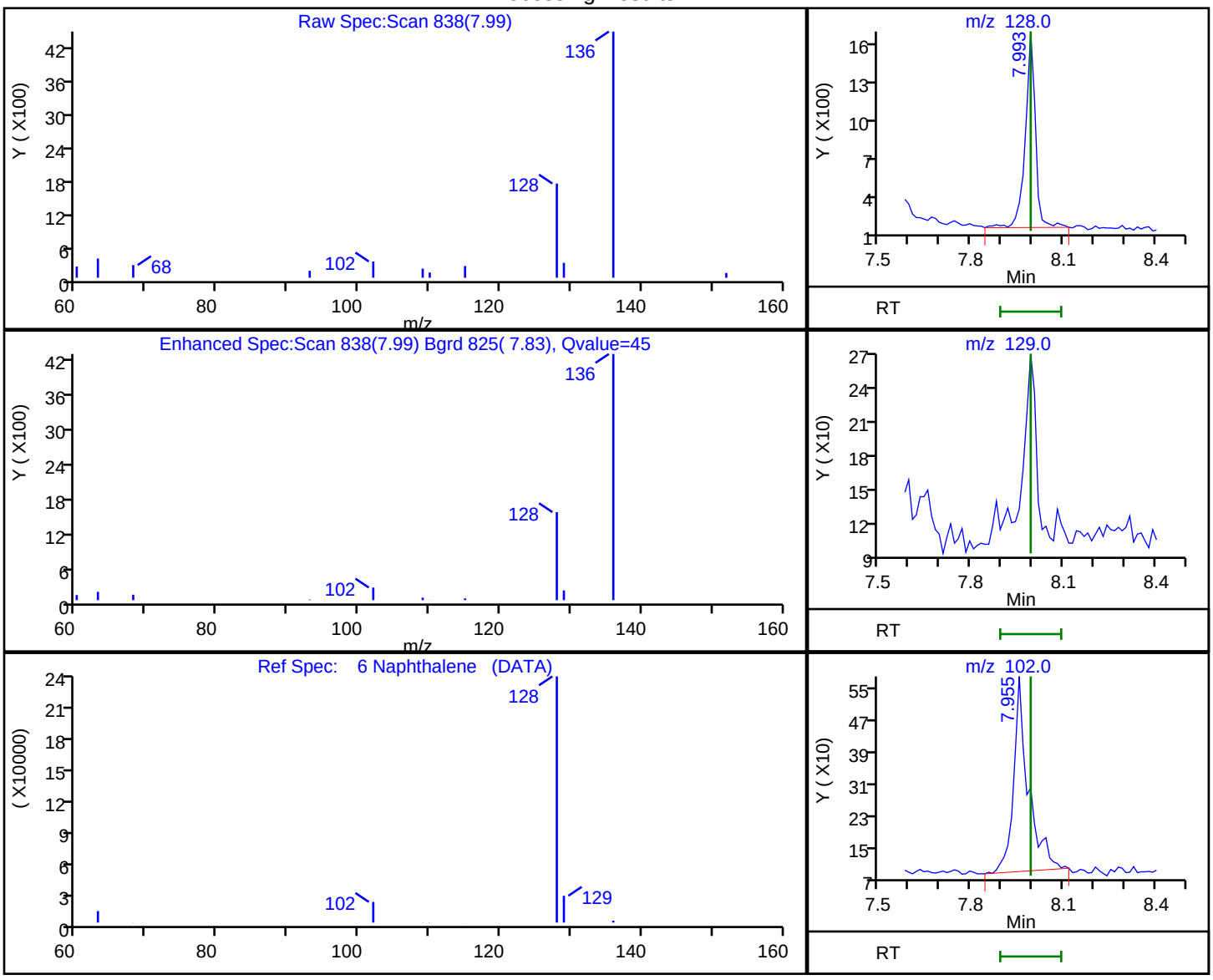
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1493.D				
Injection Date:	30-Dec-2021 16:24:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-19-A	Lab Sample ID:	410-68043-19		
Client ID:	MW-13D-20211222				
Operator ID:	jmg00346	ALS Bottle#:	24	Worklist Smp#:	24
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

Processing Results



RT	Mass	Response	Amount
7.99	128.00	3470	0.004744
7.99	129.00	0	
7.96	102.00	1643	

Reviewer: transuea, 31-Dec-2021 13:56:02

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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Dup-20211222 Lab Sample ID: 410-68043-20

Matrix: Ground Water Lab File ID: NL1494.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 00:00

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 242.5(mL) Date Analyzed: 12/30/2021 16:52

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	5.4		0.052	0.010
120-12-7	Anthracene	1.9		0.052	0.010
56-55-3	Benzo[a]anthracene	0.82		0.052	0.010
50-32-8	Benzo[a]pyrene	0.017	J	0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.020	J	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	0.40		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.052	0.021
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.052	0.021

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	86		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	81		36-111
93951-69-0	Fluoranthene-d10 (Surr)	101		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1494.D
Lims ID: 410-68043-A-20-A
Client ID: Dup-20211222
Sample Type: Client
Inject. Date: 30-Dec-2021 16:52:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-20-A
Misc. Info.: 410-0047435-025
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:01:57 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 14:01:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.918	5.919	-0.001	96	51507	0.2500	
* 5 Naphthalene-d8	136	7.968	7.956	0.012	6	158266	0.2500	
6 Naphthalene	128	8.005	7.993	0.012	99	14937888	22.6	E
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	70	68001	0.2025	
12 Acenaphthylene	152	10.585	10.585	0.000	98	784114	1.31	a
* 13 Acenaphthene-d10	164	10.825	10.816	0.009	93	83907	0.2500	Ma
14 Acenaphthene	154	10.876	10.876	0.010	94	3689973	9.90	EM
17 Fluorene	166	11.689	11.689	0.008	100	1452752	3.32	EM
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	100	126901	0.2500	M
21 Phenanthrene	178	12.863	12.855	0.008	100	1663134	2.99	E
22 Anthracene	178	12.924	12.924	0.007	99	241616	0.4640	
$ 24 Fluoranthene-d10 (Surr)	212	14.394	14.394	0.006	96	123040	0.2530	M
25 Fluoranthene	202	14.419	14.419	0.006	94	1858399	3.41	EM
26 Pyrene	202	14.745	14.739	0.013	94	2443444	2.66	E
28 Benzo[a]anthracene	228	16.693	16.693	0.008	100	139768	0.1987	
* 29 Chrysene-d12	240	16.708	16.700	0.008	98	146815	0.2500	M
30 Chrysene	228	16.754	16.754	0.008	100	76344	0.0970	
33 Benzo[b]fluoranthene	252	18.541	18.549	0.015	100	4616	0.004943	
34 Benzo[k]fluoranthene	252	18.579	18.579	0.007	91	1866	0.001754	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.016	19.009	0.007	96	147205	0.2151	
37 Benzo[a]pyrene	252	19.055	19.055	0.008	99	3665	0.004063	
* 38 Perylene-d12	264	19.147	19.139	0.008	94	189728	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.762	20.763	0.021	96	1544	0.001878	
42 Benzo[g,h,i]perylene	276	21.123	21.123	0.021	91	1559	0.001499	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

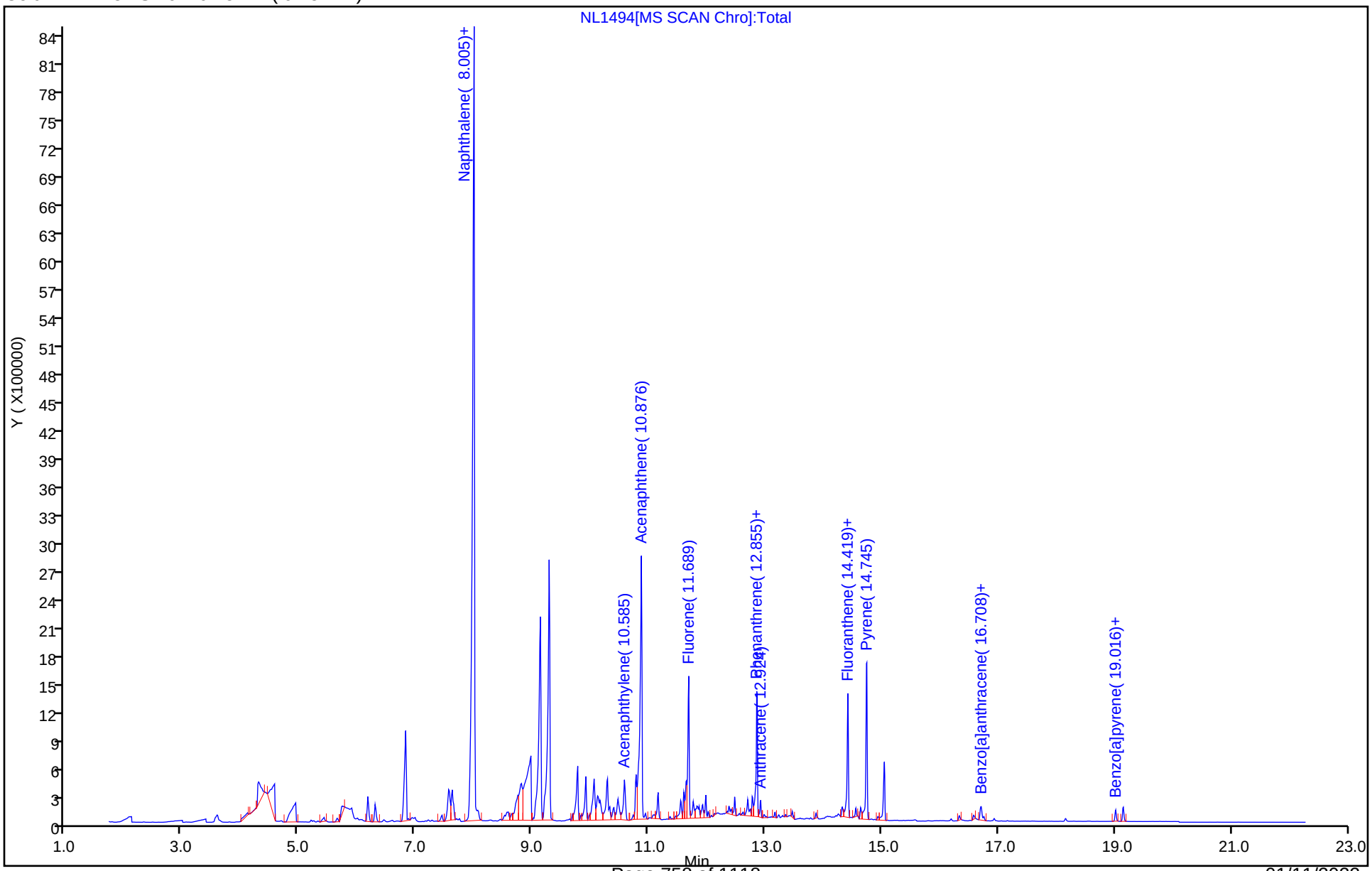
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1494.D

Injection Date:	30-Dec-2021 16:52:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-20-A	Lab Sample ID:	410-68043-20	Worklist Smp#:	25
Client ID:	Dup-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



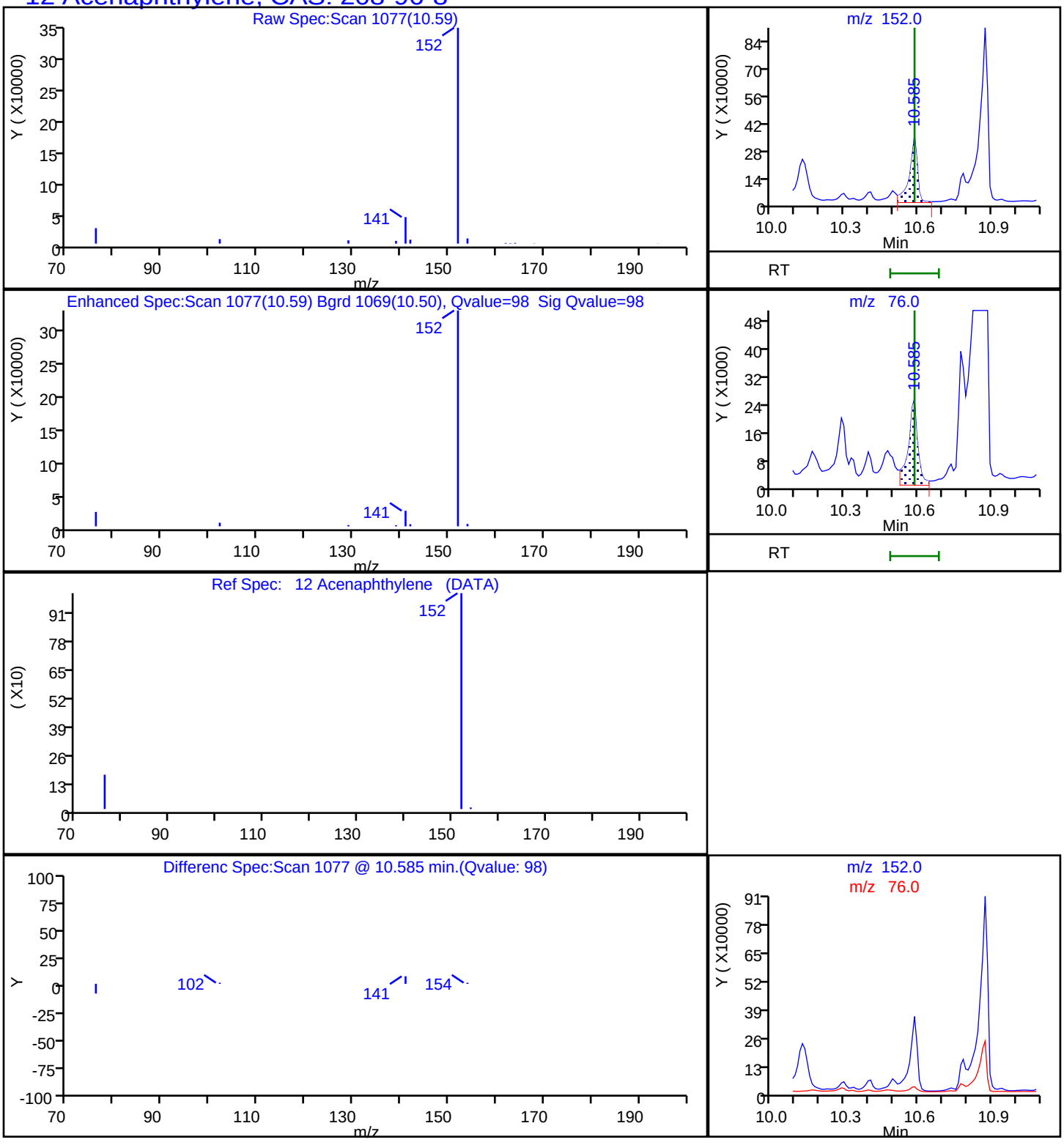
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Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1494.D

Injection Date:	30-Dec-2021 16:52:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-20-A	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
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		

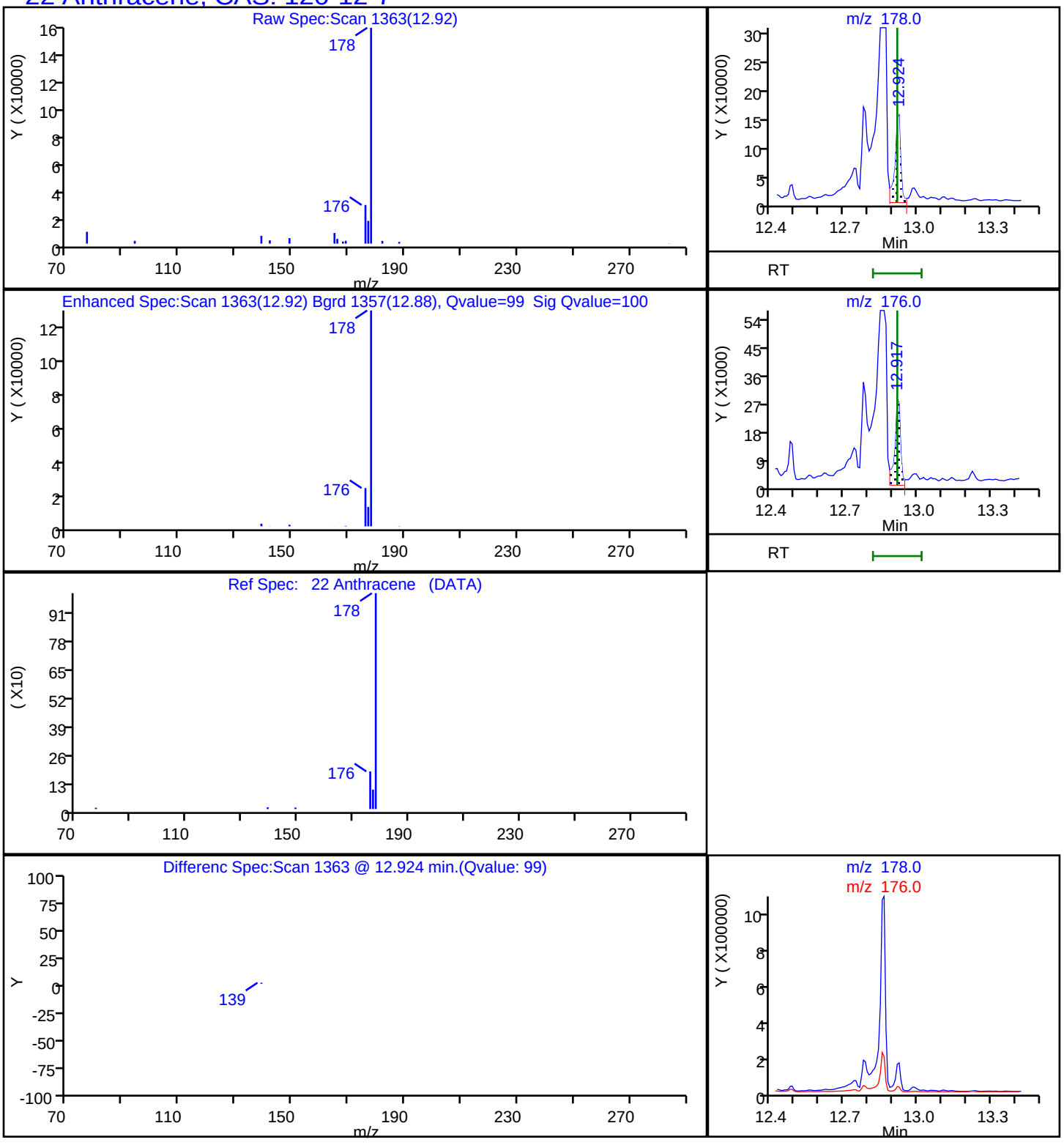
12 Acenaphthylene, CAS: 208-96-8



Eurofins Lancaster Laboratories Env, LLC

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Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
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		

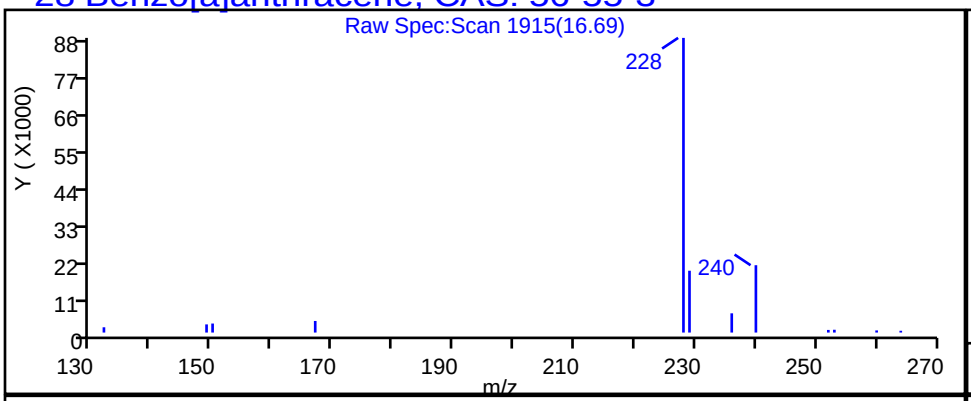
22 Anthracene, CAS: 120-12-7

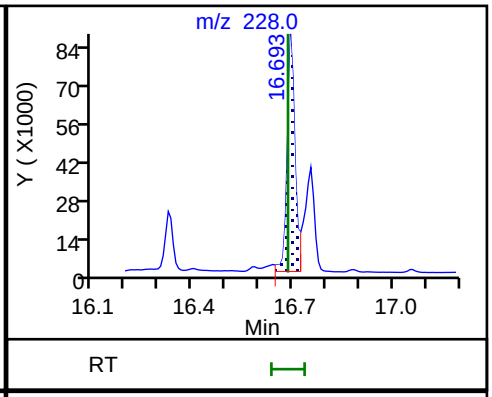


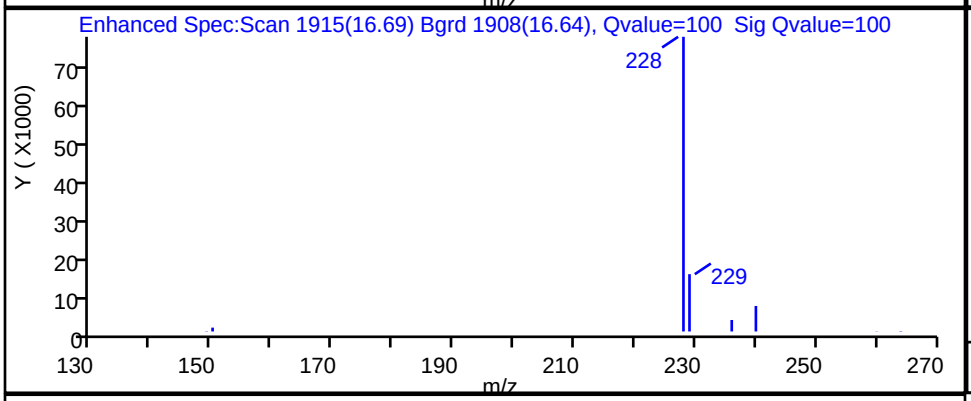
Eurofins Lancaster Laboratories Env, LLC

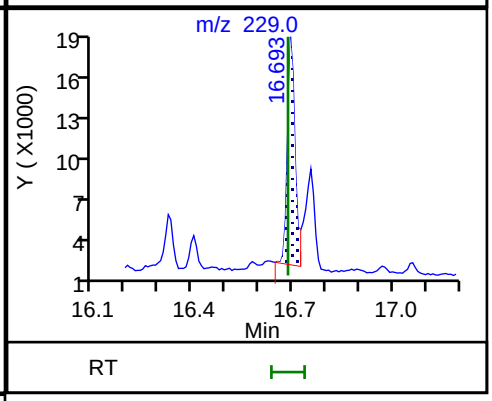
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Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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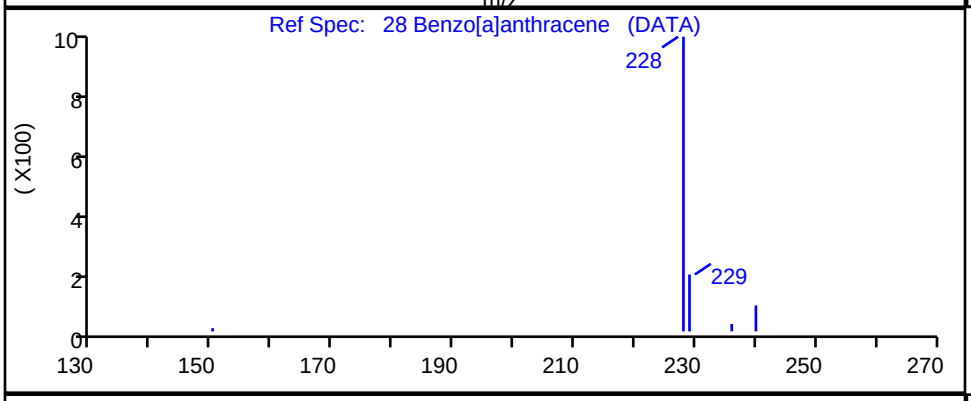
28 Benzo[a]anthracene, CAS: 56-55-3

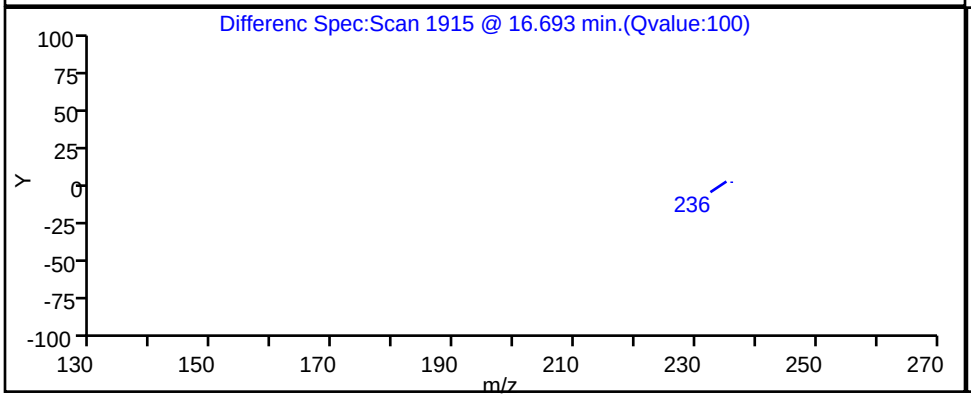


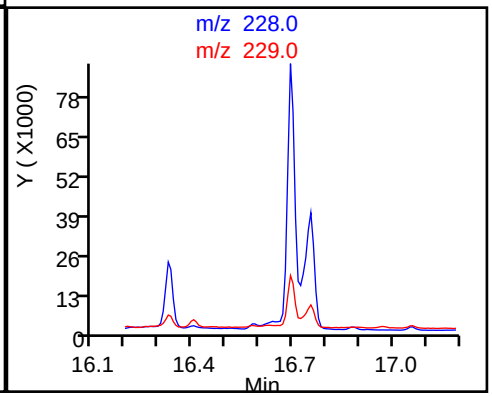








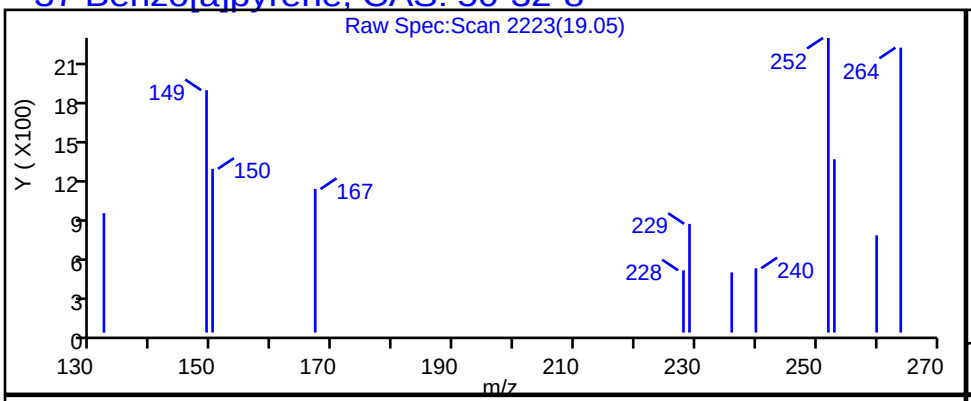


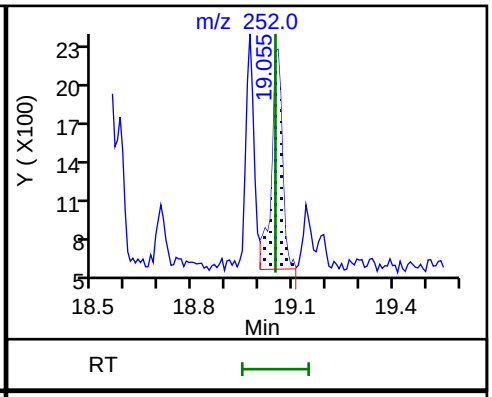


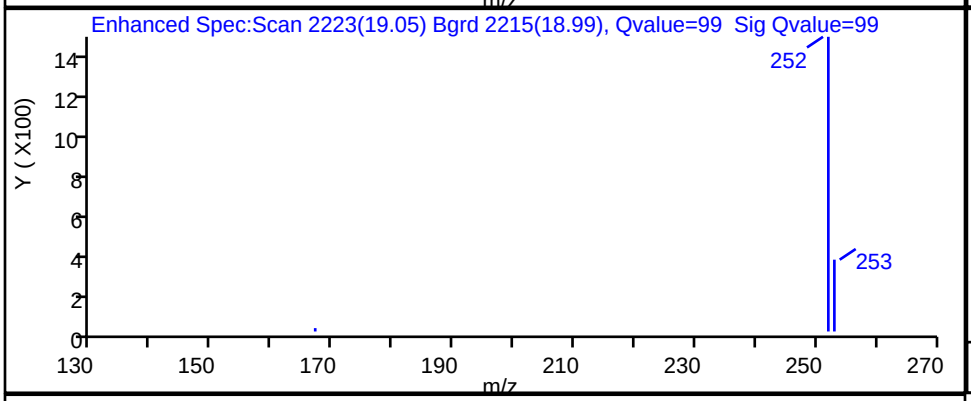
Eurofins Lancaster Laboratories Env, LLC

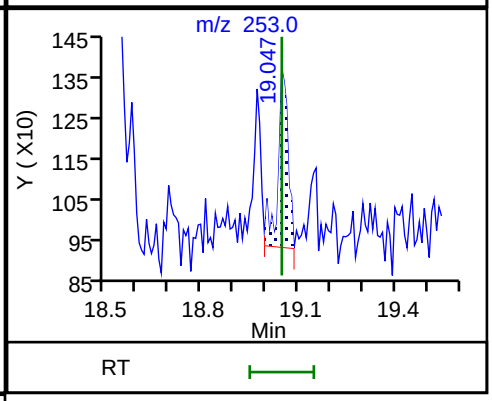
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Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

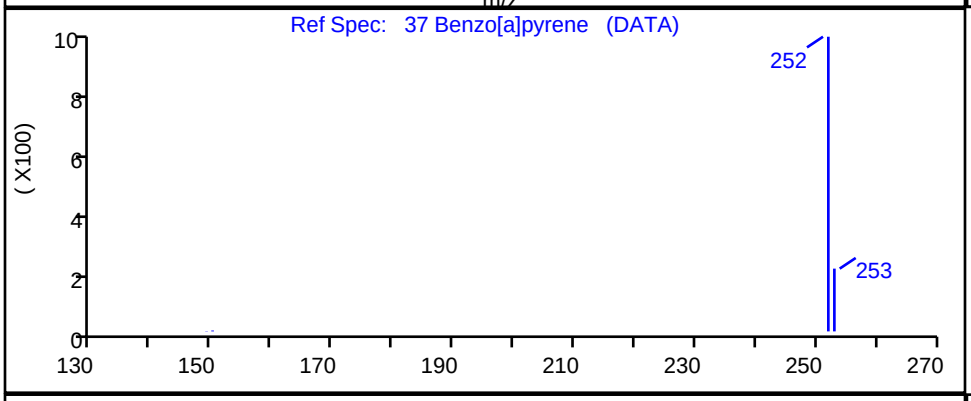
37 Benzo[a]pyrene, CAS: 50-32-8

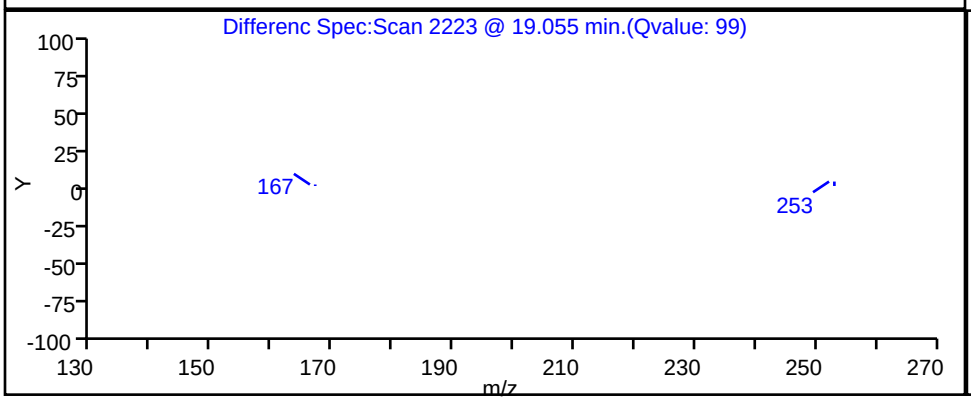


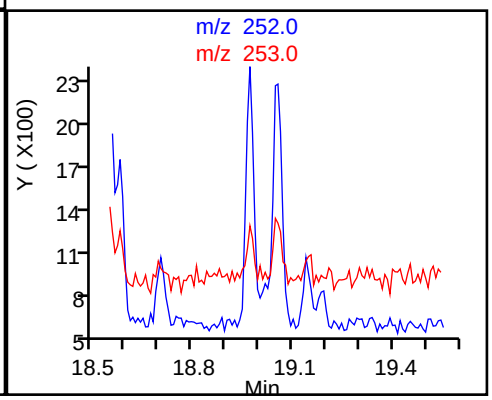








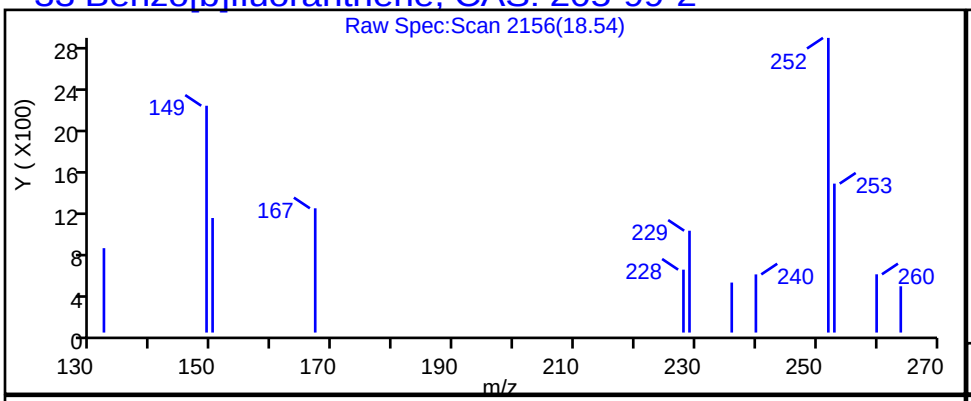


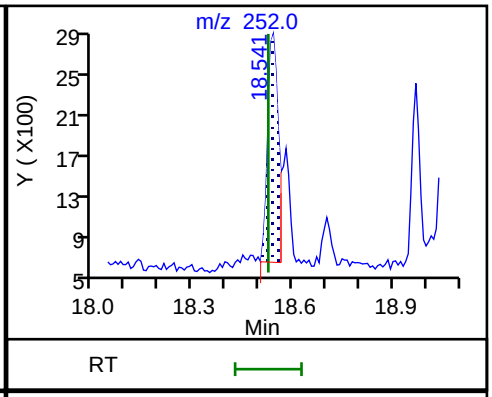


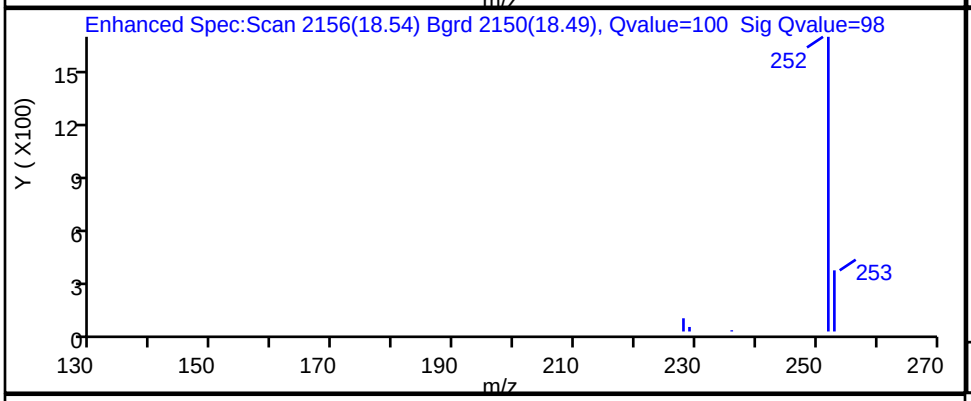
Eurofins Lancaster Laboratories Env, LLC

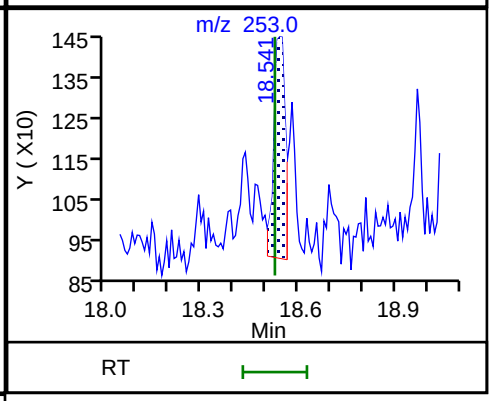
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Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

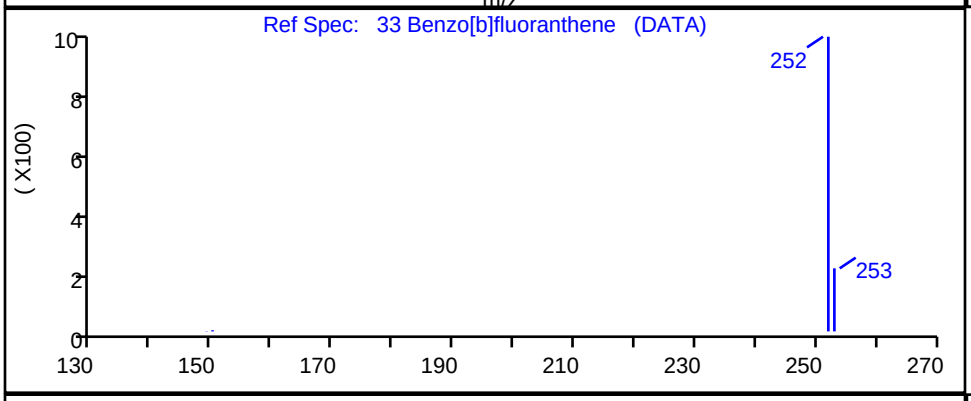
33 Benzo[b]fluoranthene, CAS: 205-99-2

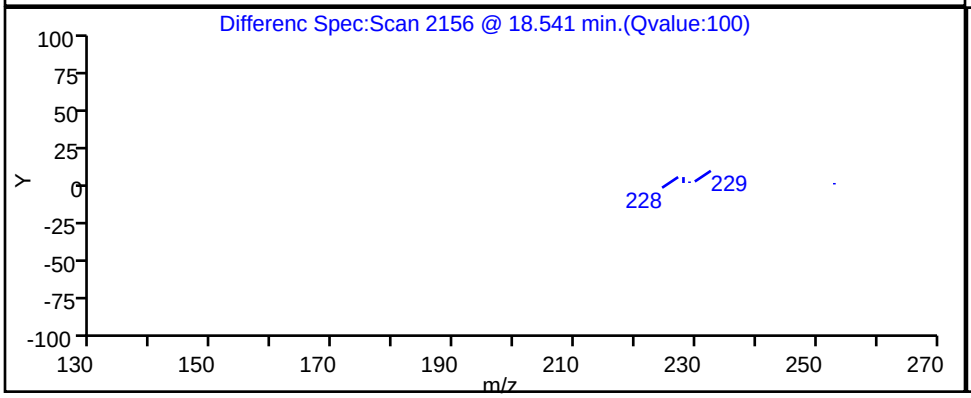


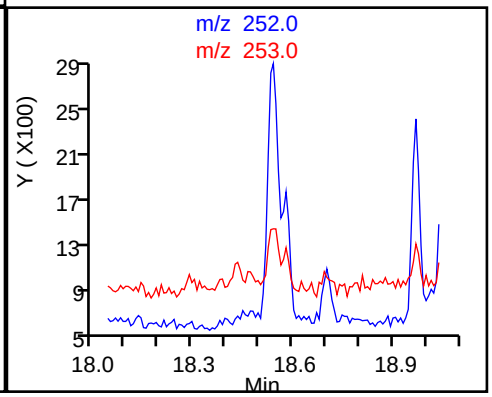








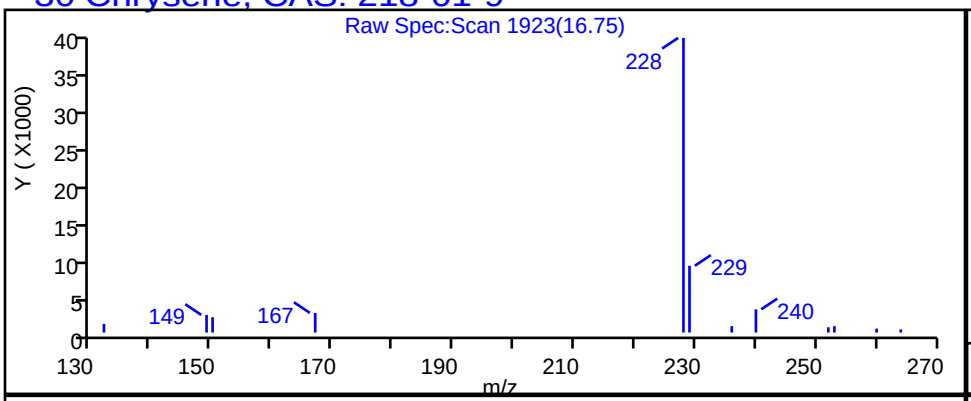


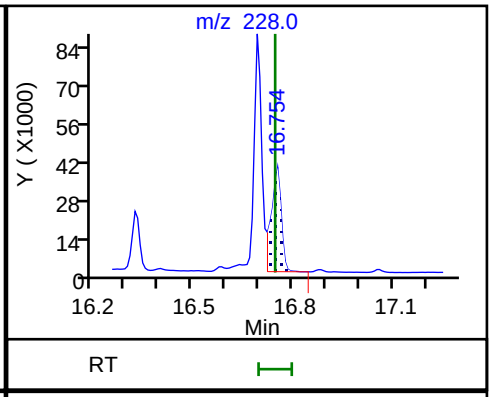


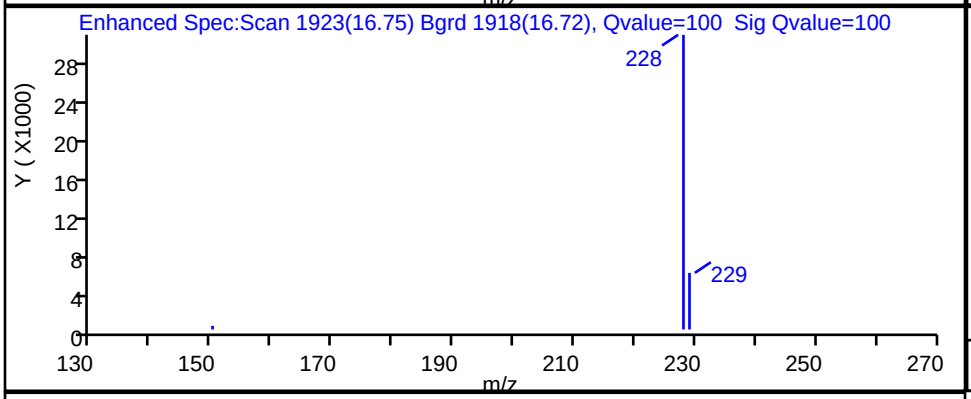
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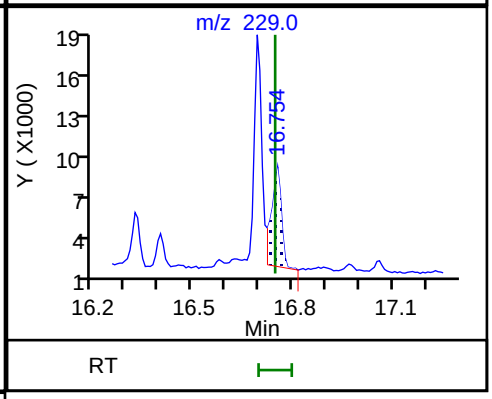
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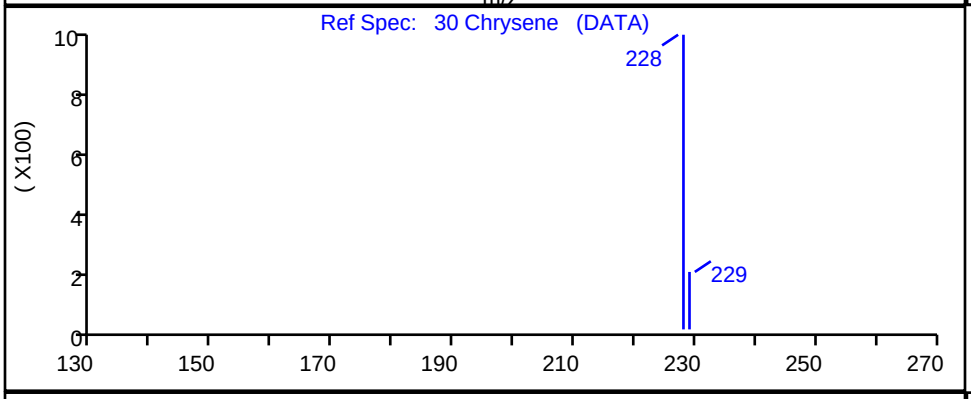
30 Chrysene, CAS: 218-01-9

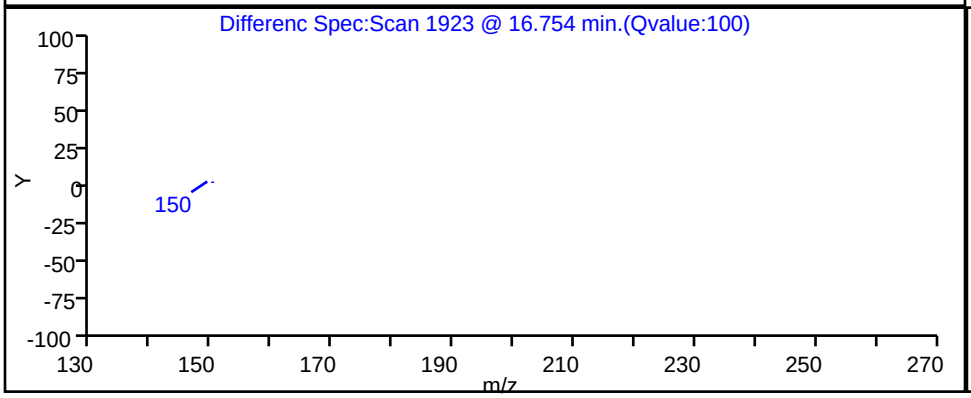


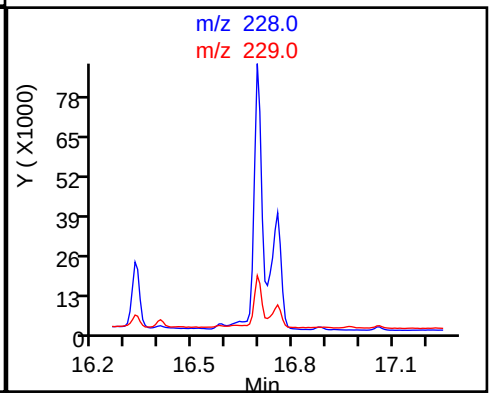












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

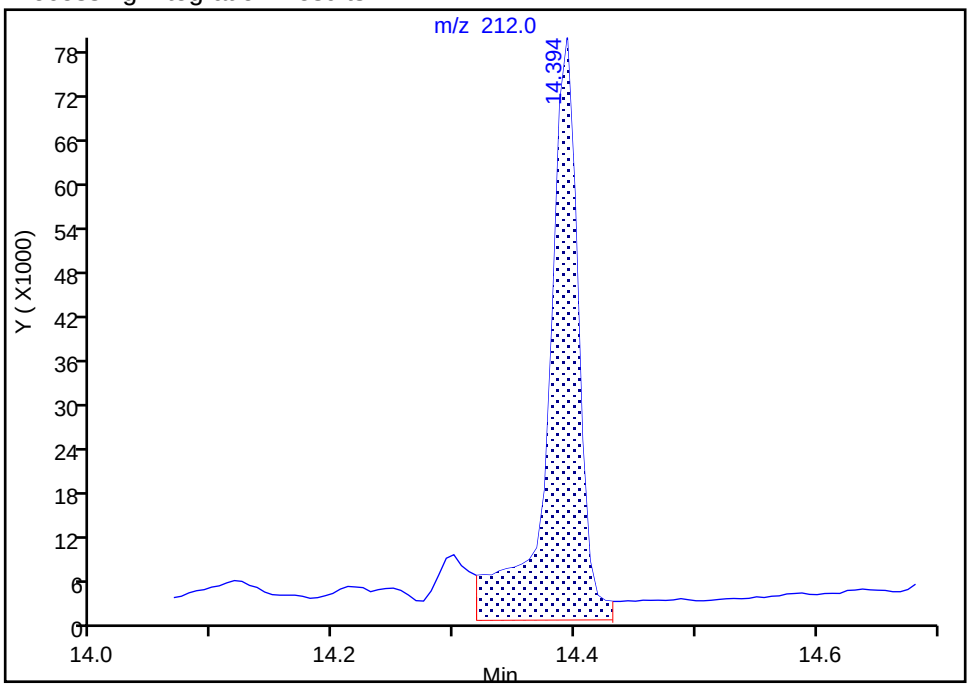
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Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

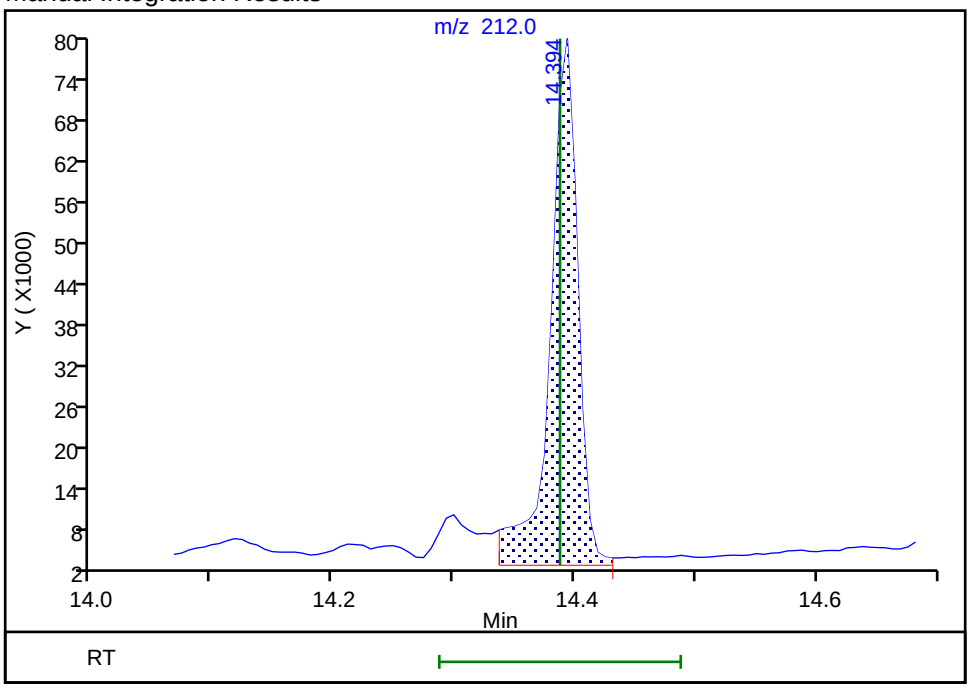
Processing Integration Results

RT: 14.39
Area: 138253
Amount: 0.284256
Amount Units: ug/ml



Manual Integration Results

RT: 14.39
Area: 123040
Amount: 0.252977
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:59:28

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

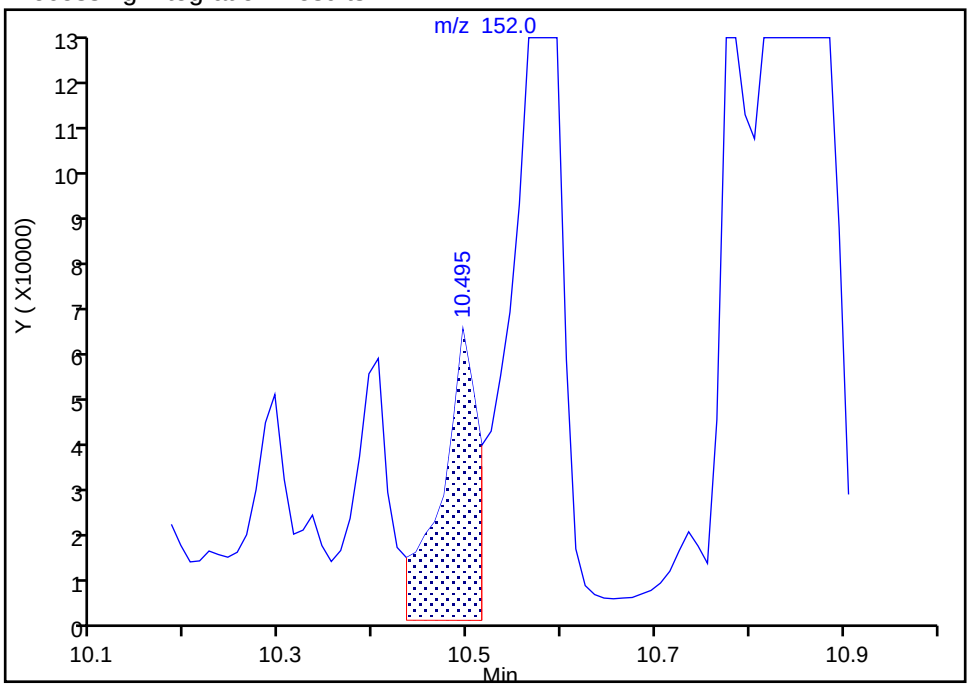
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Lims ID:	410-68043-A-20-A	Lab Sample ID:	410-68043-20
Client ID:	Dup-20211222		
Operator ID:	jmg00346	ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

12 Acenaphthylene, CAS: 208-96-8

Signal: 1

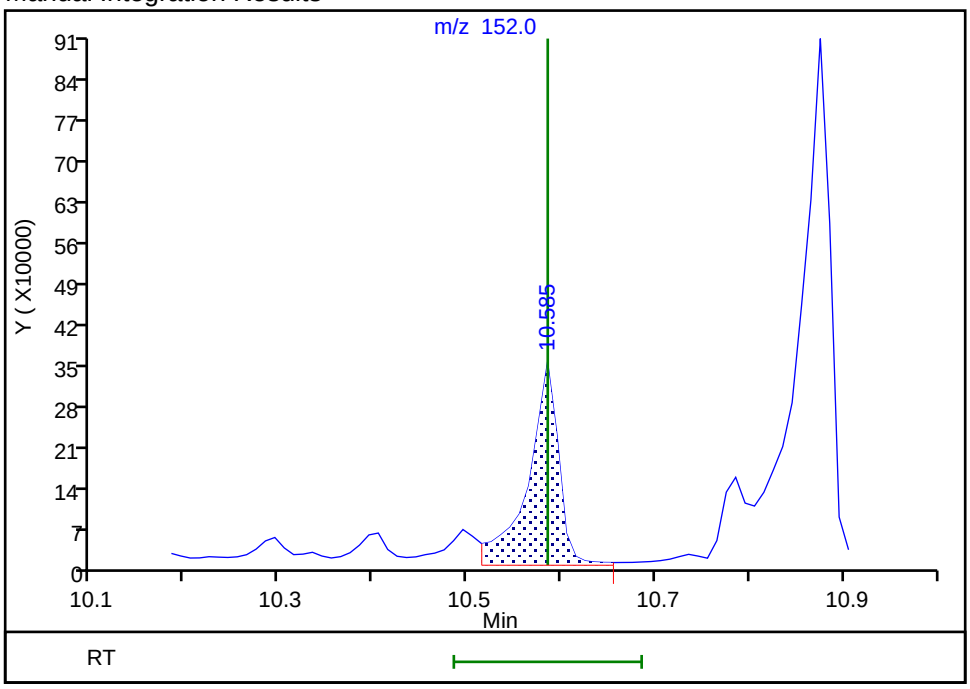
Processing Integration Results

RT: 10.49
Area: 155167
Amount: 1.286855
Amount Units: ug/ml



Manual Integration Results

RT: 10.59
Area: 784114
Amount: 1.310786
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:57:07

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

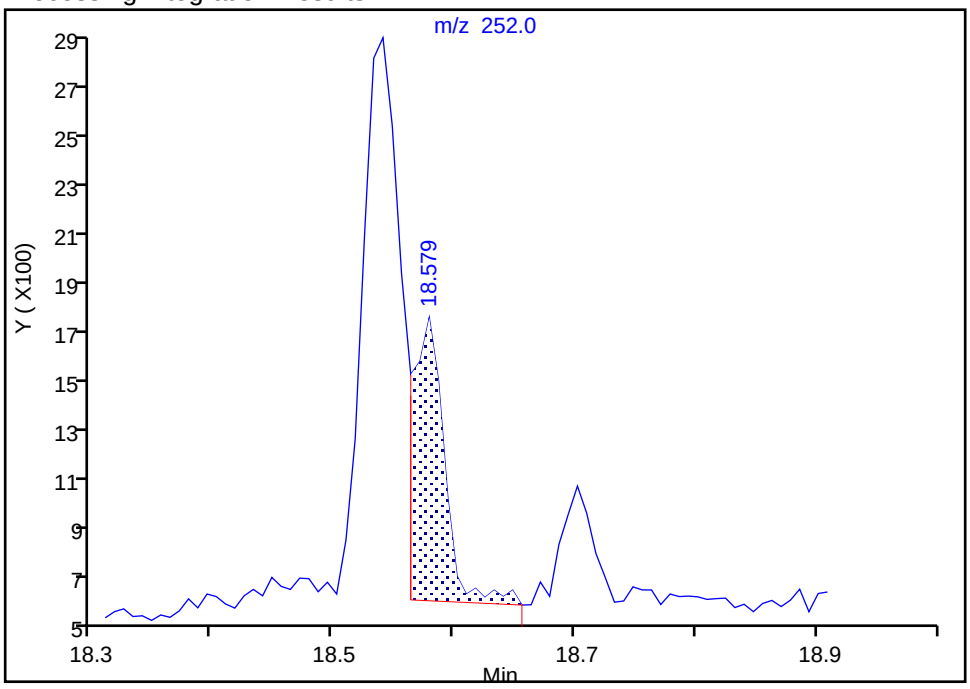
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Lims ID:	410-68043-A-20-A	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

34 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

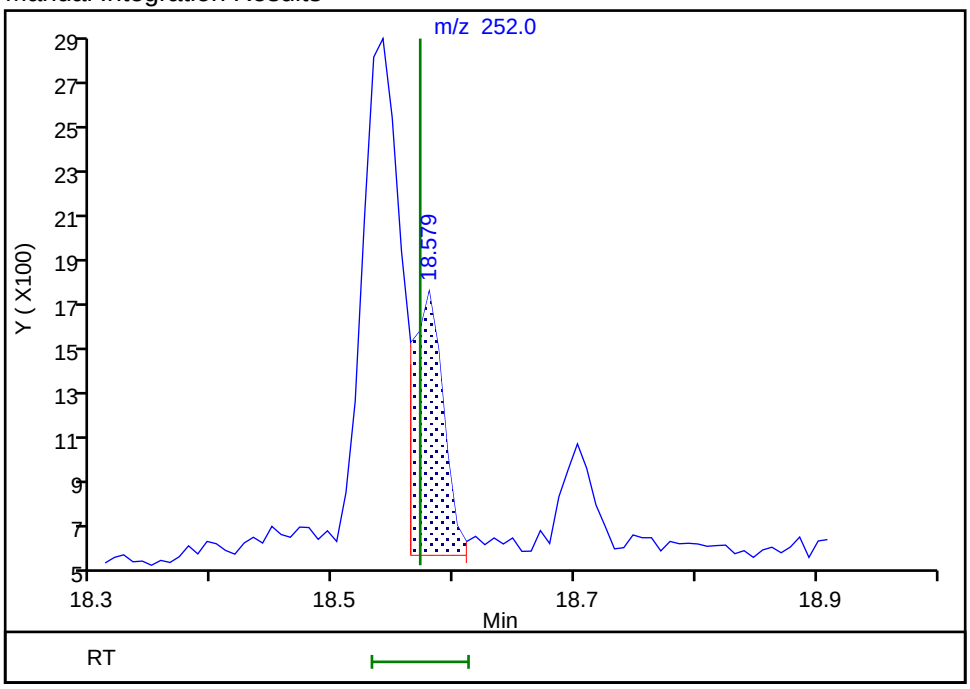
Processing Integration Results

RT: 18.58
Area: 1885
Amount: 0.001772
Amount Units: ug/ml



Manual Integration Results

RT: 18.58
Area: 1866
Amount: 0.001754
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 14:00:46

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

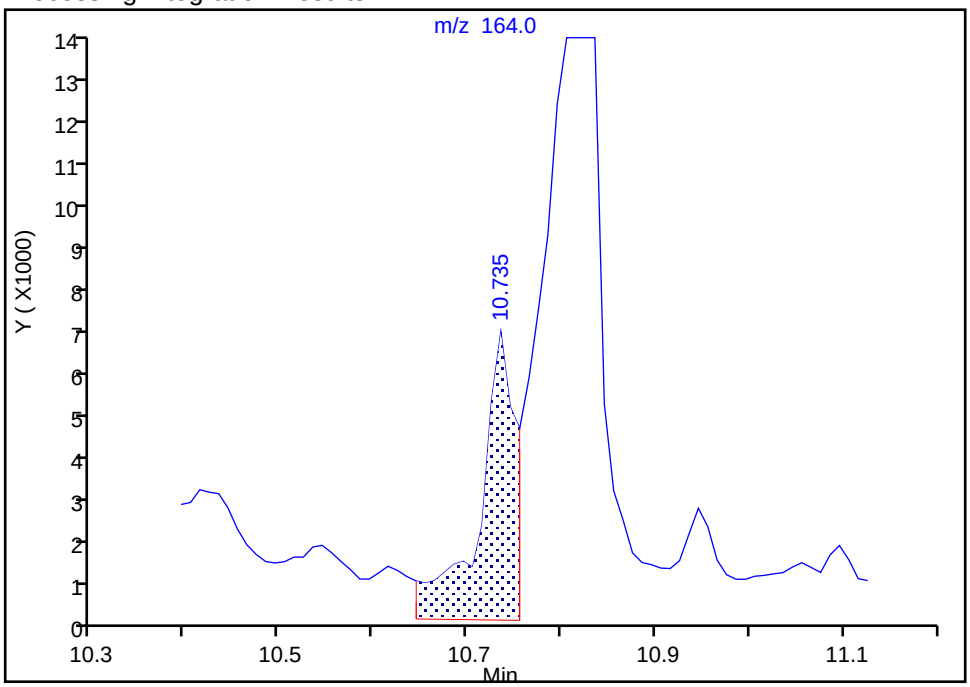
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Injection Date:	30-Dec-2021 16:52:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-20-A	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

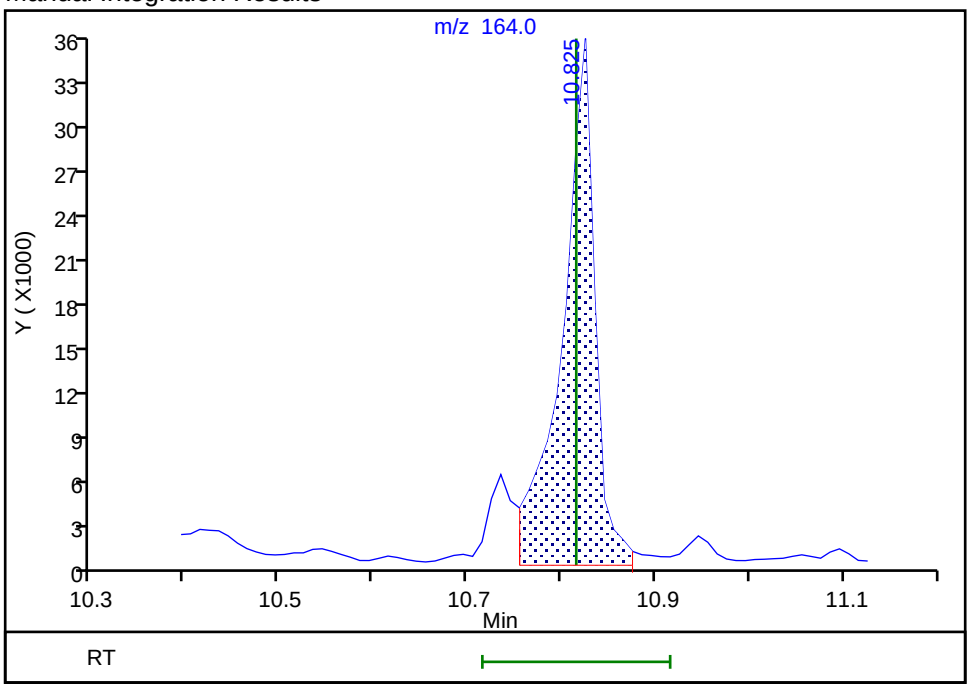
Processing Integration Results

RT: 10.74
Area: 16913
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 10.83
Area: 83907
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:57:25

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

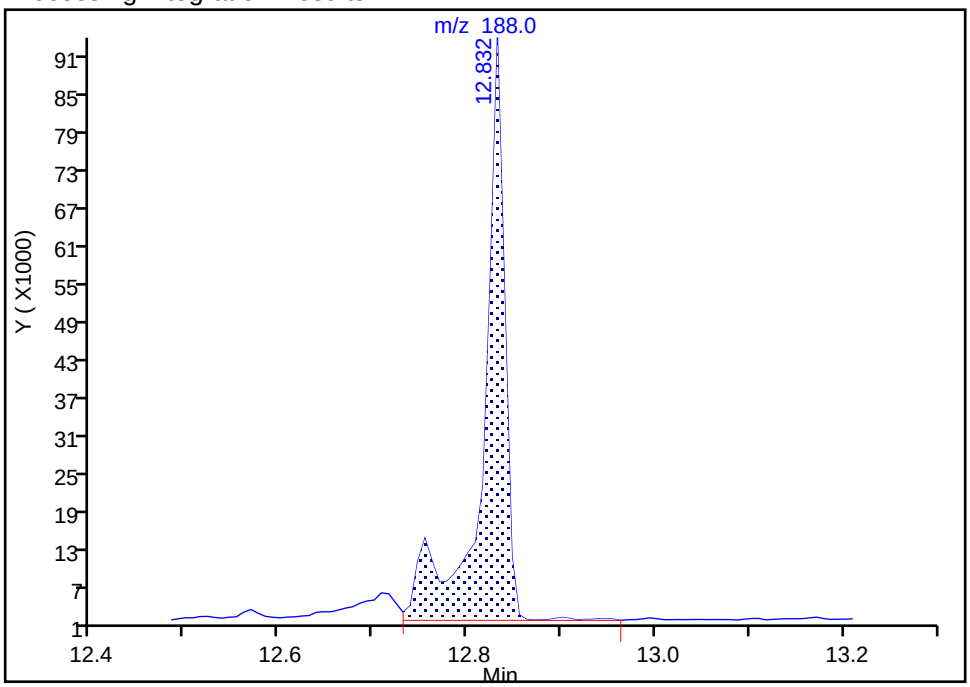
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Injection Date:	30-Dec-2021 16:52:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-20-A	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 20 Phenanthrene-d10, CAS: 1517-22-2

Signal: 1

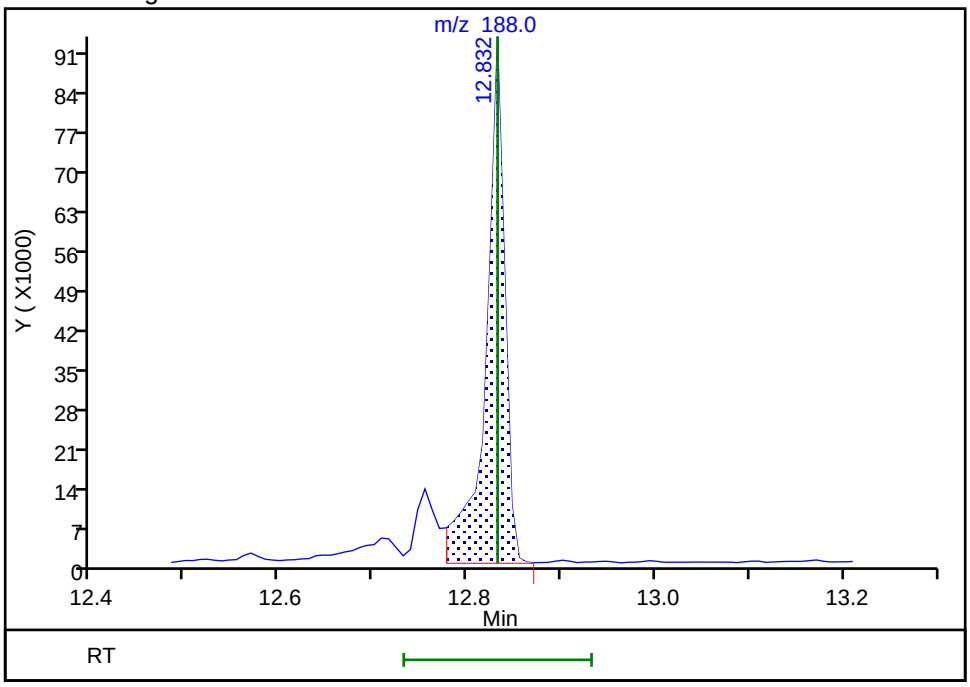
Processing Integration Results

RT: 12.83
Area: 147921
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 12.83
Area: 126901
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:57:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

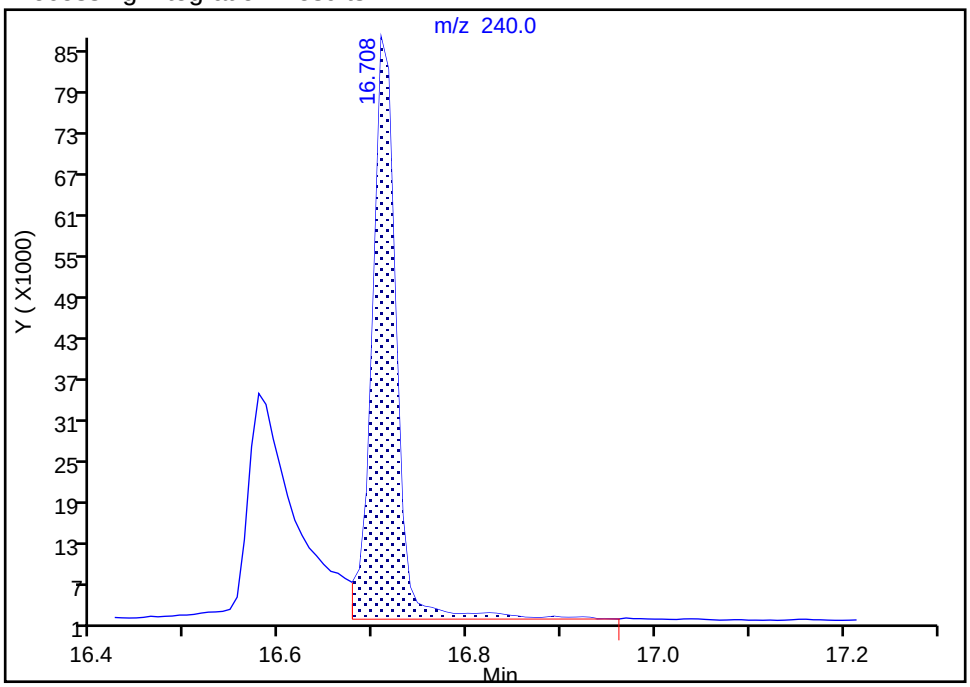
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Injection Date:	30-Dec-2021 16:52:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-20-A	Lab Sample ID:	410-68043-20
Client ID:	Dup-20211222		
Operator ID:	jmg00346	ALS Bottle#:	25 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	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

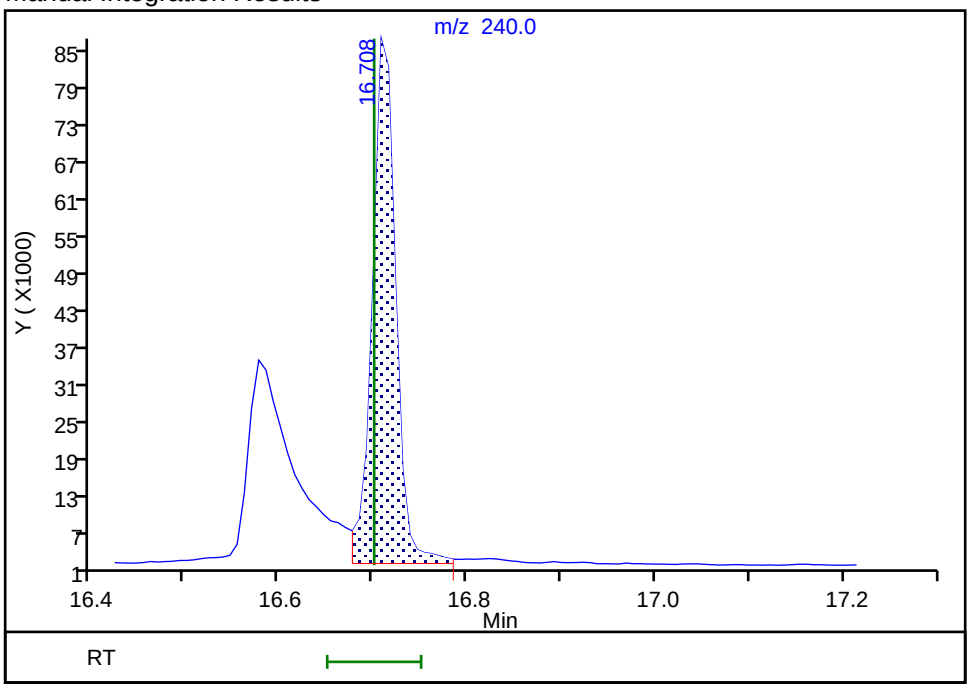
Processing Integration Results

RT: 16.71
Area: 151931
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 16.71
Area: 146815
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 14:00:36

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Dup-20211222 DL Lab Sample ID: 410-68043-20 DL

Matrix: Ground Water Lab File ID: NA0004.D

Analysis Method: 8270D SIM Date Collected: 12/22/2021 00:00

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 242.5(mL) Date Analyzed: 01/03/2022 07:48

Con. Extract Vol.: 1(mL) Dilution Factor: 20

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210939 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	51		1.0	0.21
206-44-0	Fluoranthene	18		1.0	0.21
86-73-7	Fluorene	18		1.0	0.21
91-20-3	Naphthalene	110		1.4	0.62
85-01-8	Phenanthrene	13		1.4	0.62
129-00-0	Pyrene	15		1.0	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	41		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	95		36-111
93951-69-0	Fluoranthene-d10 (Surr)	112		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0004.D
Lims ID: 410-68043-A-20-A DL
Client ID: Dup-20211222
Sample Type: Client
Inject. Date: 03-Jan-2022 07:48:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 410-68043-A-20-A
Misc. Info.: 410-0047551-005
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 04-Jan-2022 07:28:34 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1630

First Level Reviewer: gamblerj Date: 04-Jan-2022 07:28:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	5.894	5.893	0.001	93	53517	0.2500	
* 5 Naphthalene-d8	136	7.943	7.943	0.000	50	156694	0.2500	
6 Naphthalene	128	7.968	7.968	0.000	99	888113	1.36	
$ 9 1-Methylnaphthalene-d10	152	9.213	9.213	0.000	70	3968	0.0119	
12 Acenaphthylene	152	10.565	10.565	0.000	97	42997	0.0678	
* 13 Acenaphthene-d10	164	10.796	10.806	-0.010	89	88981	0.2500	
14 Acenaphthene	154	10.846	10.855	-0.010	94	242789	0.6141	
17 Fluorene	166	11.666	11.673	-0.007	97	100015	0.2153	
* 20 Phenanthrene-d10	188	12.817	12.816	0.000	100	177916	0.2500	
21 Phenanthrene	178	12.840	12.839	0.000	100	127505	0.1635	
22 Anthracene	178	12.909	12.909	0.000	100	15522	0.0213	
$ 24 Fluoranthene-d10 (Surr)	212	14.375	14.375	0.000	67	9555	0.0140	
25 Fluoranthene	202	14.400	14.400	0.000	96	162465	0.2124	
26 Pyrene	202	14.720	14.720	0.000	94	196945	0.1797	
28 Benzo[a]anthracene	228	16.670	16.677	-0.007	32	9955	0.0119	
* 29 Chrysene-d12	240	16.685	16.693	-0.008	82	175201	0.2500	
33 Benzo[b]fluoranthene	252	18.518	18.518	0.008	100	1498	0.001555	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	18.994	18.986	0.000	96	7875	0.005160	
* 38 Perylene-d12	264	19.116	19.124	-0.008	95	195695	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

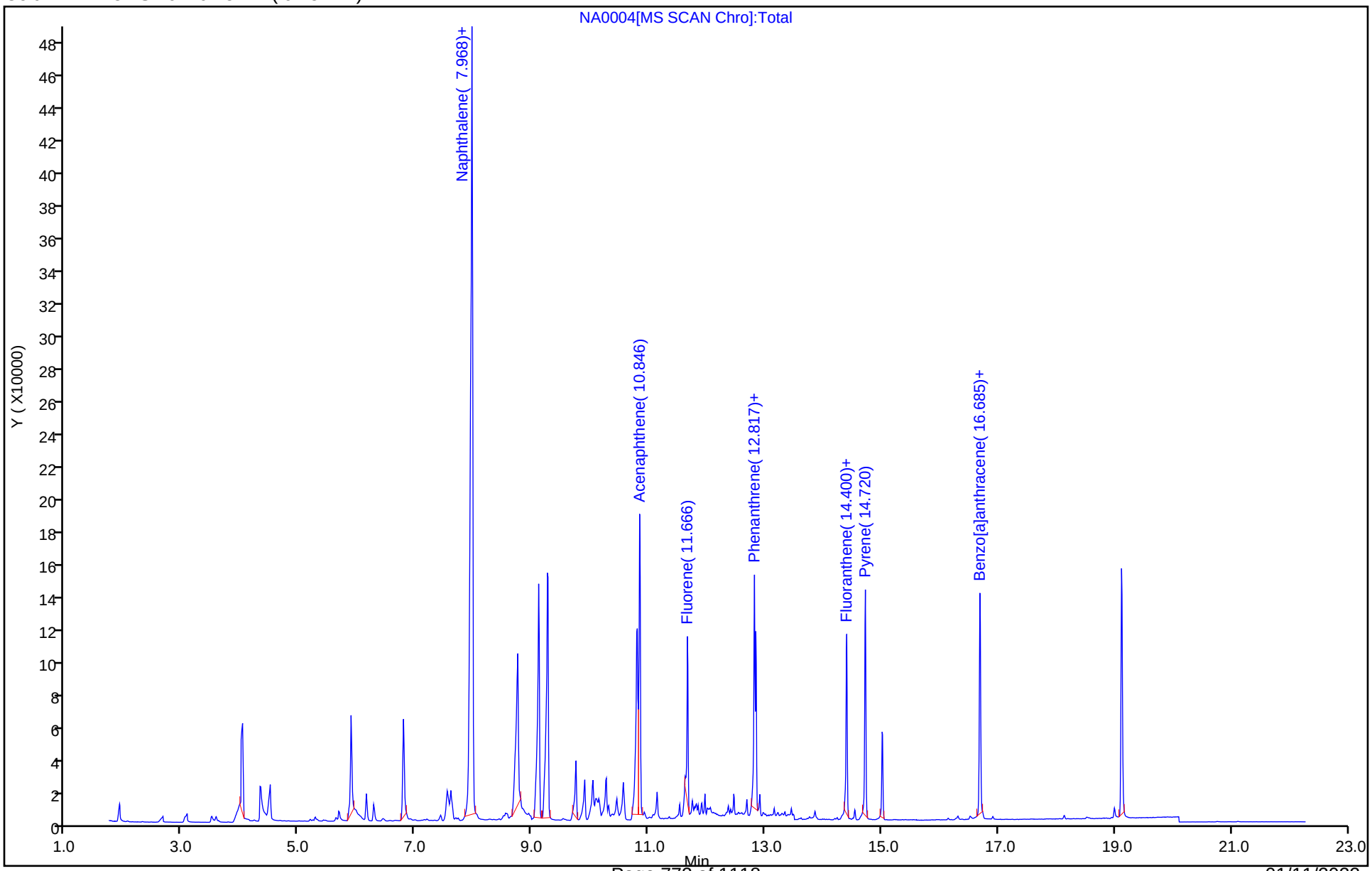
Report Date: 04-Jan-2022 07:29:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0004.D

Injection Date:	03-Jan-2022 07:48:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	410-68043-A-20-A DL	Lab Sample ID:	410-68043-20	Worklist Smp#:	5
Client ID:	Dup-20211222				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	5
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



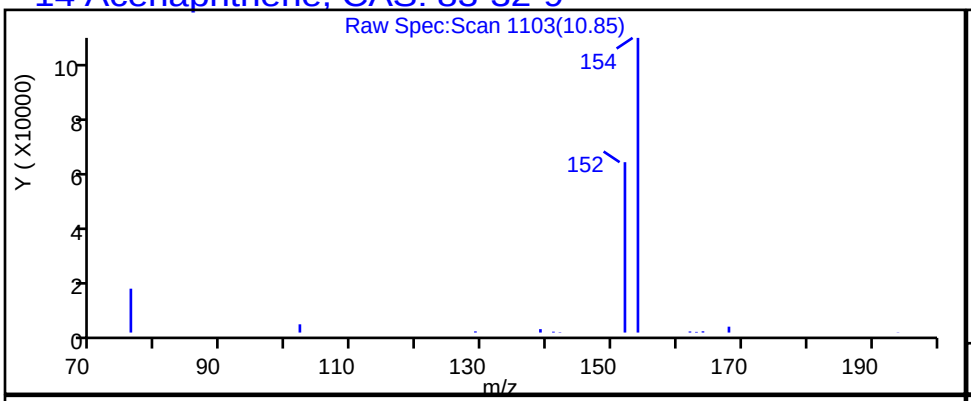
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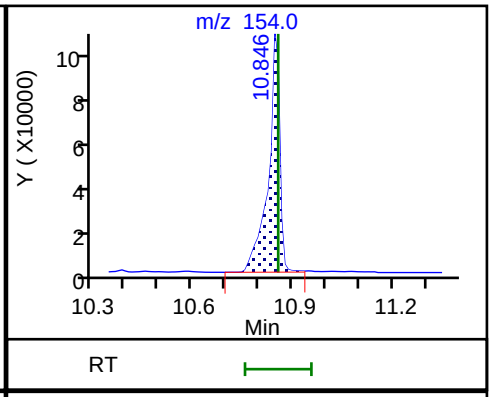
Eurofins Lancaster Laboratories Env, LLC

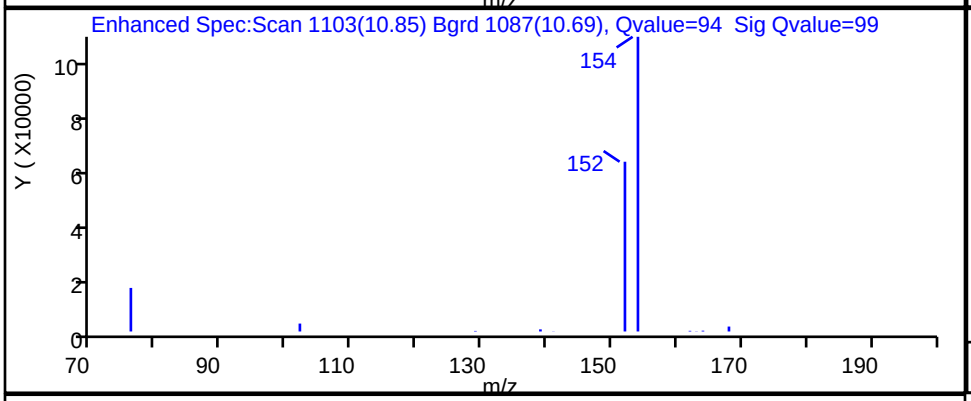
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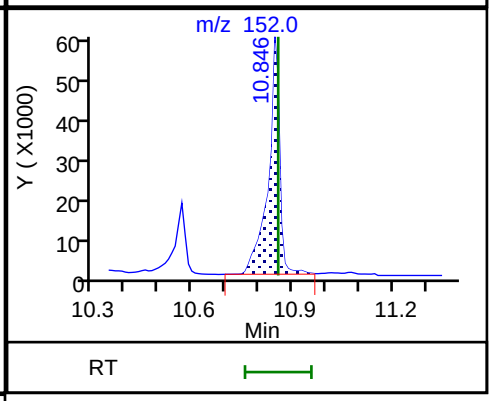
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Lims ID:	410-68043-A-20-A DL	Lab Sample ID:	410-68043-20
Client ID:	Dup-20211222		
Operator ID:	jmg00346	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

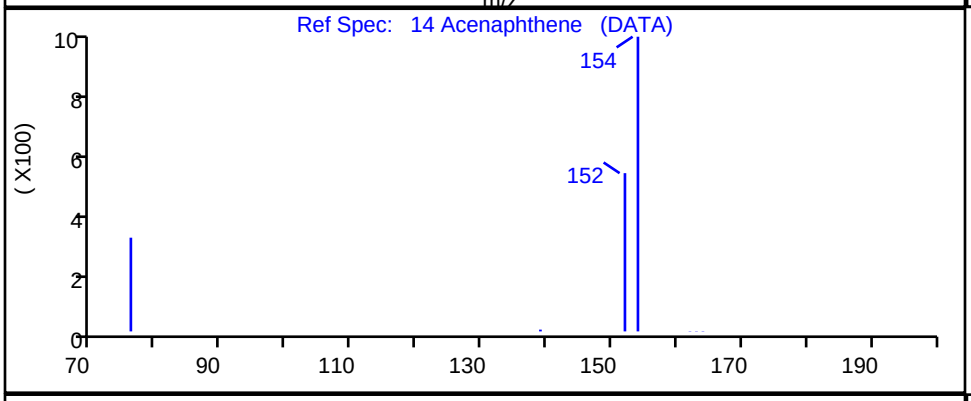
14 Acenaphthene, CAS: 83-32-9

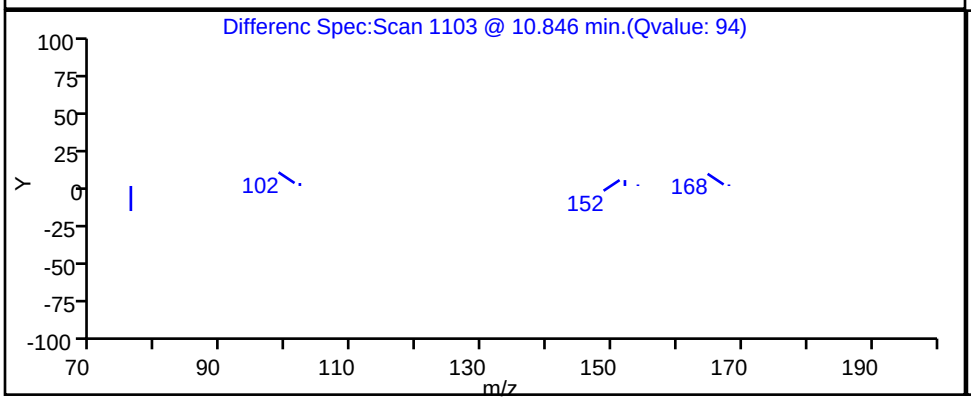


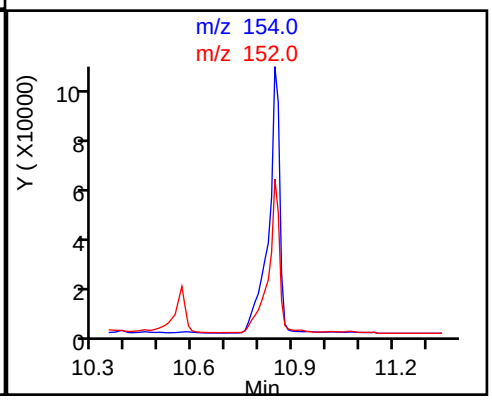












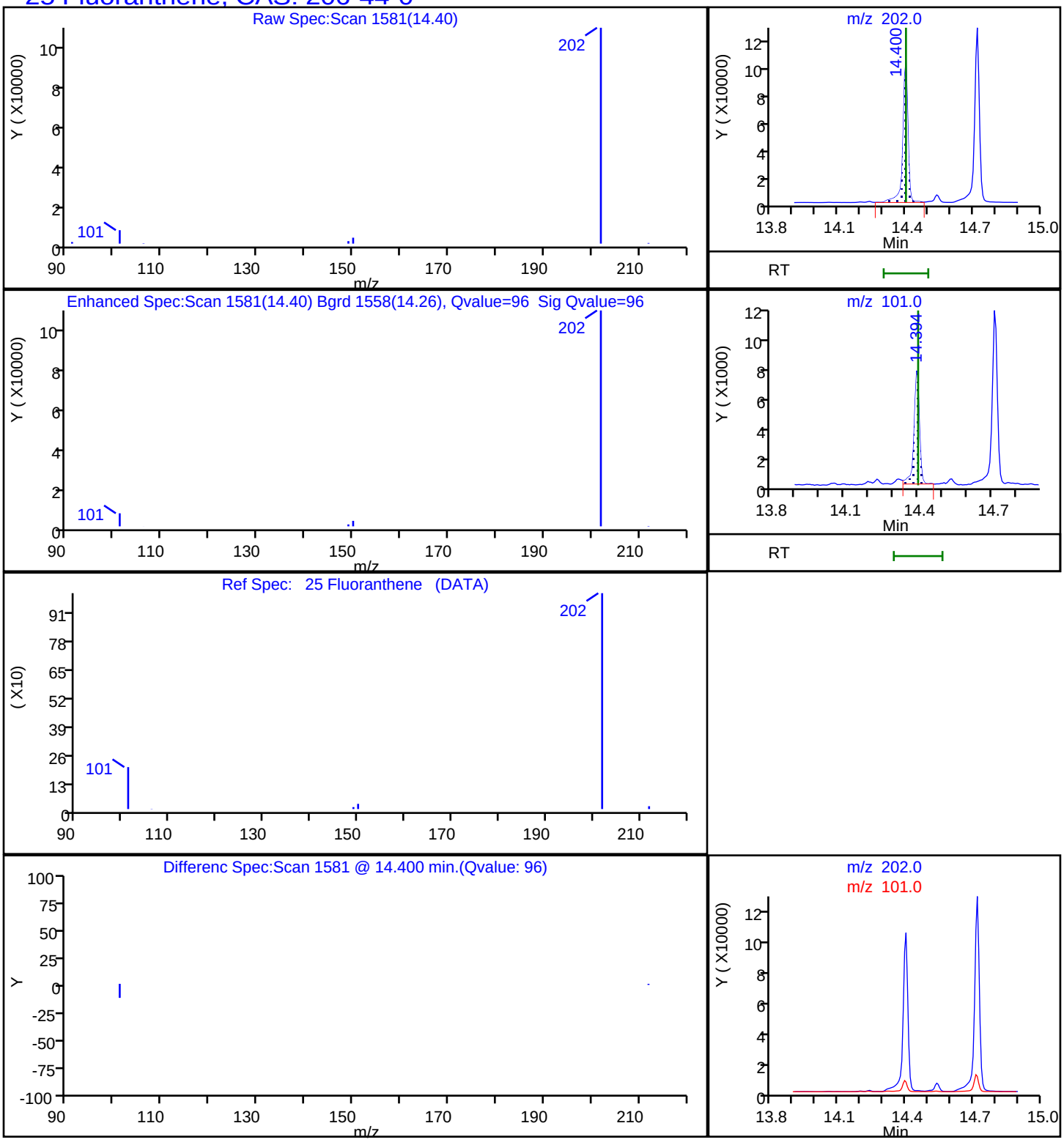
Report Date: 04-Jan-2022 07:29:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0004.D

Injection Date:	03-Jan-2022 07:48:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-20-A DL	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

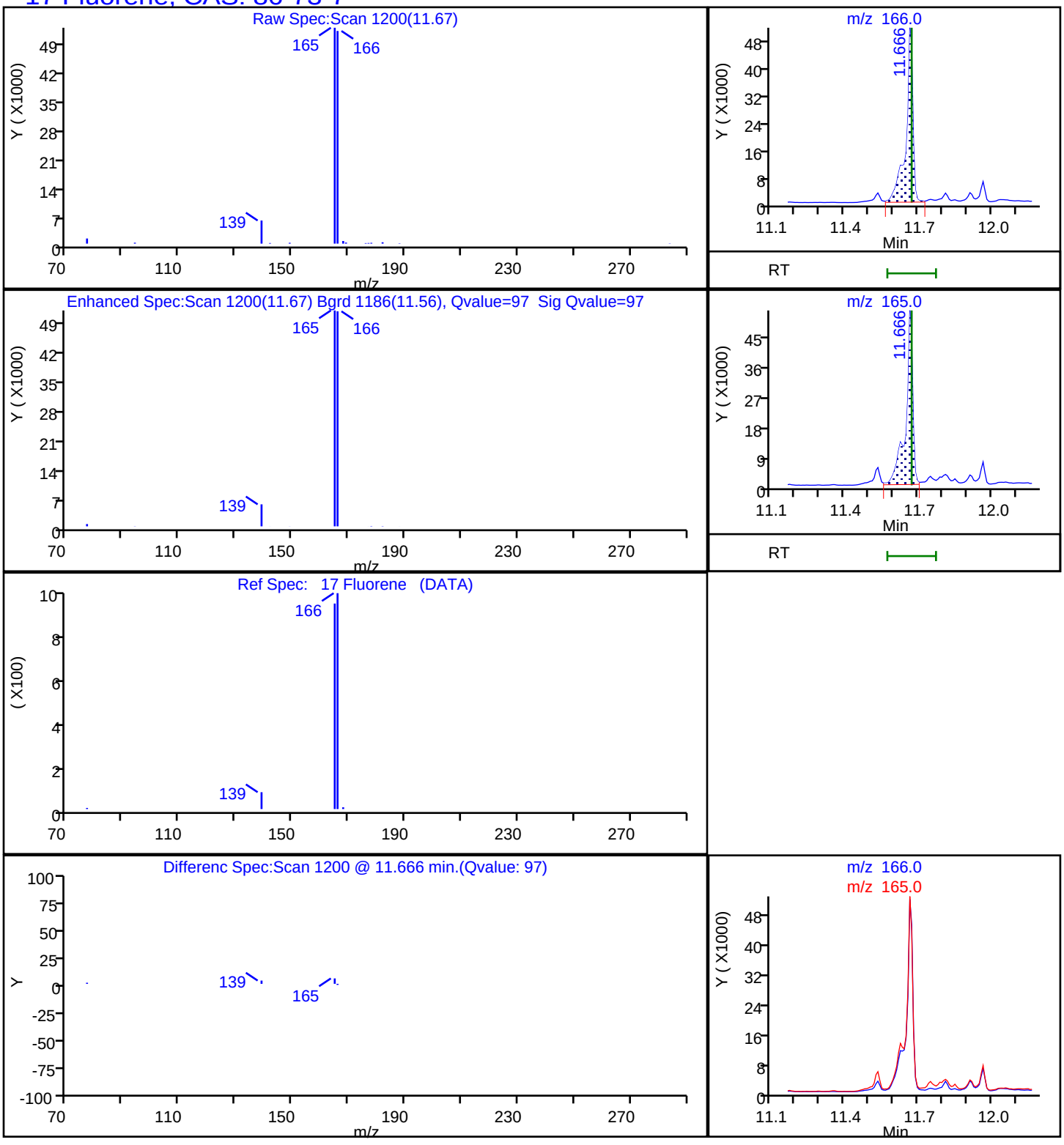
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0004.D		
Injection Date:	03-Jan-2022 07:48:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-20-A DL	Lab Sample ID:	410-68043-20
Client ID:	Dup-20211222		
Operator ID:	jmg00346	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

17 Fluorene, CAS: 86-73-7

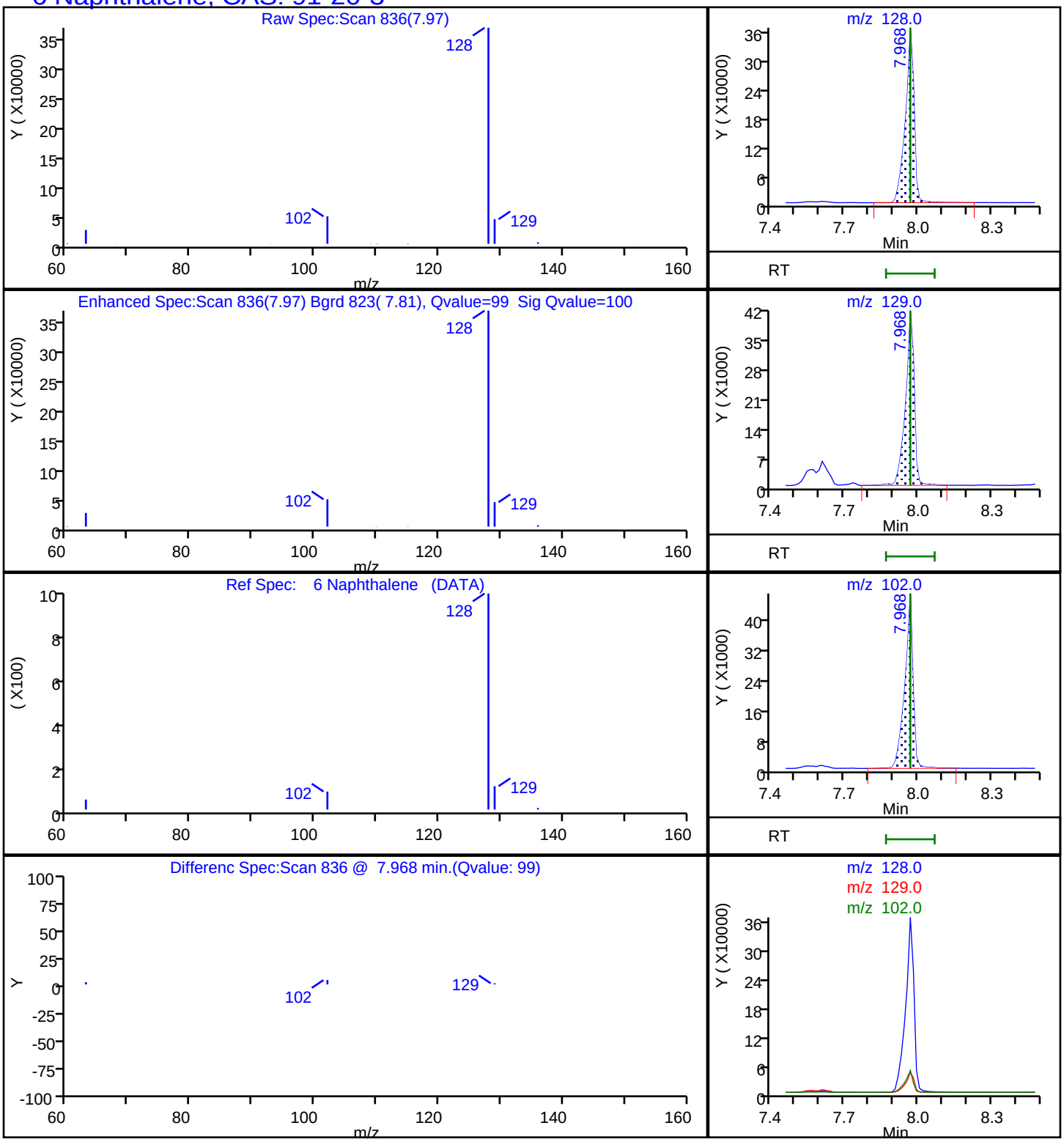


Report Date: 04-Jan-2022 07:29:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0004.D				
Injection Date:	03-Jan-2022 07:48:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-20-A DL	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
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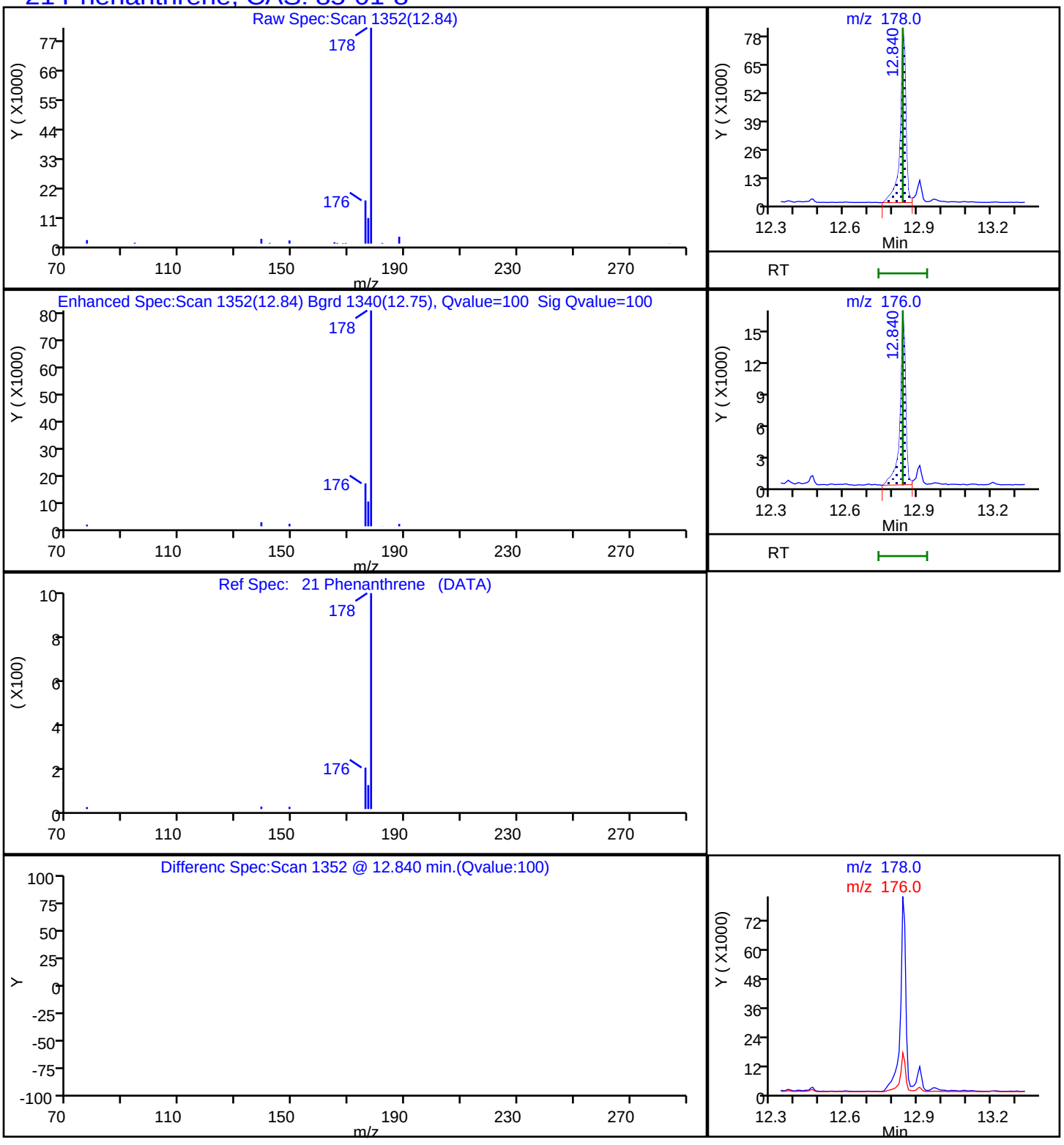
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0004.D		
Injection Date:	03-Jan-2022 07:48:30	Instrument ID:	HP23263
Lims ID:	410-68043-A-20-A DL	Lab Sample ID:	410-68043-20
Client ID:	Dup-20211222		
Operator ID:	jmg00346	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

21 Phenanthrene, CAS: 85-01-8



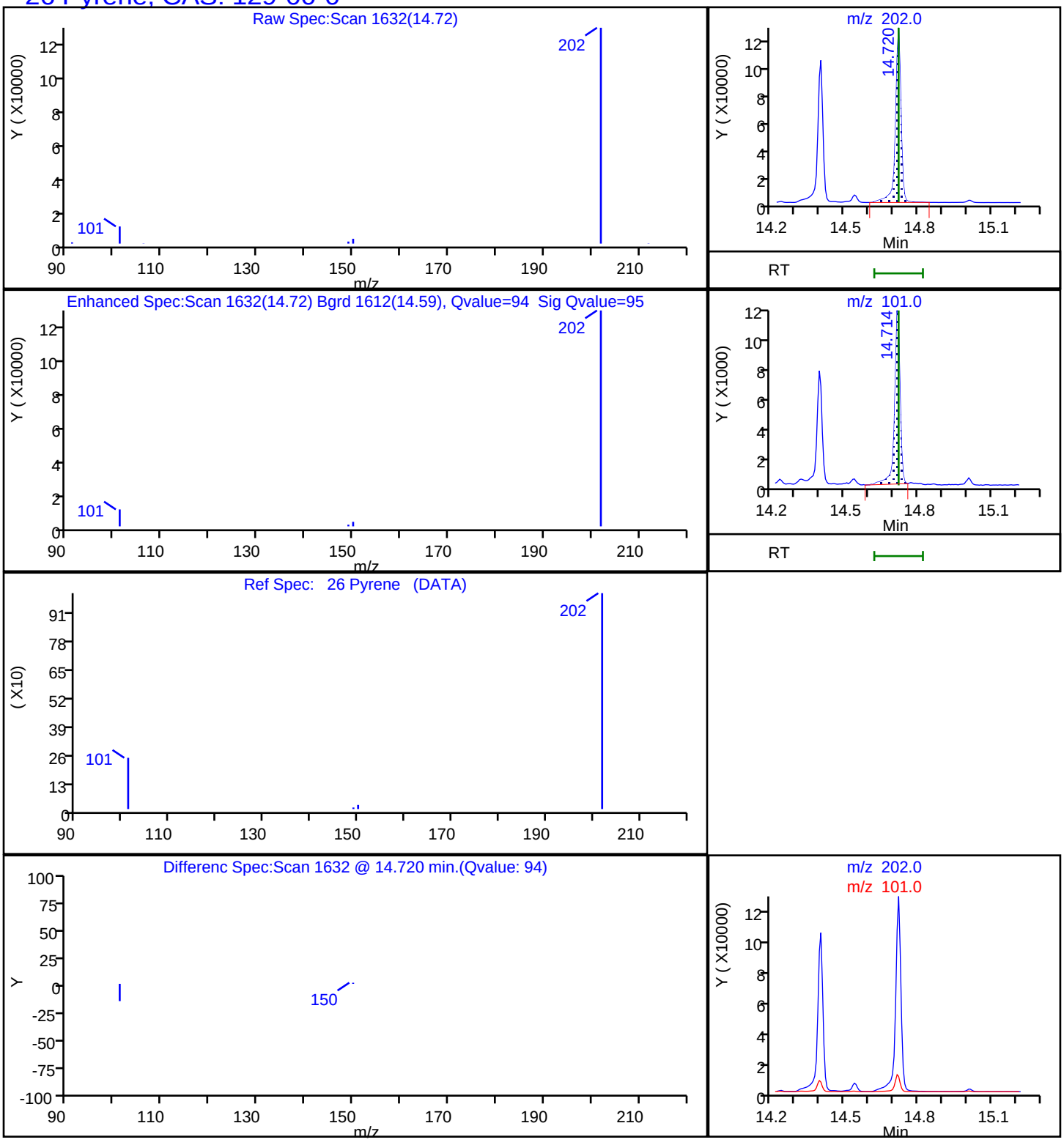
Report Date: 04-Jan-2022 07:29:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0004.D

Injection Date:	03-Jan-2022 07:48:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-20-A DL	Lab Sample ID:	410-68043-20		
Client ID:	Dup-20211222				
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 207883

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2021 09:55 Calibration End Date: 12/21/2021 12:24 Calibration ID: 34110

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-207883/7	ML1106.D
Level 2	IC 410-207883/6	ML1105.D
Level 3	IC 410-207883/5	ML1104.D
Level 4	ICIS 410-207883/2	ML1101.D
Level 5	IC 410-207883/4	ML1103.D
Level 6	IC 410-207883/3	ML1102.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7179 0.6136	0.5990	0.5906	0.6995	0.5950	Ave		0.6360				9.0		20.4			
N-Nitrosodimethylamine	0.6679 0.6969	0.6203	0.6564	0.7499	0.6573	Ave		0.6748				6.6		20.4			
Bis(2-chloroethyl)ether	0.3491 0.3605	0.3373	0.3543	0.3860	0.3600	Ave		0.3579				4.5		20.4			
Naphthalene	1.3180 0.9933	1.0790	1.1062	1.0660	1.0394	Ave		1.1003				10.3		20.4			
Quinoline	0.5453 0.5827	0.4899	0.5557	0.6059	0.5910	Ave		0.5617				7.4		20.4			
2-Methylnaphthalene	0.8414 0.6919	0.6916	0.7178	0.7344	0.7122	Ave		0.7316				7.7		20.4			
1-Methylnaphthalene	0.8407 0.6472	0.6632	0.6929	0.6899	0.6655	Ave		0.6999				10.2		20.4			
Dimethylphthalate	1.3511 1.1758	1.2219	1.2529	1.2387	1.2307	Ave		1.2452				4.7		20.4			
Acenaphthylene	1.9817 1.7212	1.6123	1.6111	1.7623	1.6830	Ave		1.7286				8.0		20.4			
Acenaphthene	1.4582 1.1014	1.1245	1.0910	1.1467	1.0760	Ave		1.1663				12.4		20.4			
Dibenzofuran	2.0463 1.6677	1.6842	1.6691	1.7734	1.6489	Ave		1.7483				8.7		20.4			
Diethylphthalate	1.2190 1.1112	1.1191	1.1439	1.1592	1.1461	Ave		1.1497				3.3		20.4			
Fluorene	1.6119 1.3531	1.3243	1.3324	1.4244	1.3210	Ave		1.3945				8.1		20.4			
N-Nitrosodiphenylamine	0.8420 0.4314	0.4679	0.4784	0.4615	0.4331	Lin2	0.0041	0.4287							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 207883

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2021 09:55 Calibration End Date: 12/21/2021 12:24 Calibration ID: 34110

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.3144 0.2350	0.2457	0.2407	0.2491	0.2351	Ave		0.2534				12.0		20.4			
Phenanthrene	1.3912 1.0829	1.0531	1.0457	1.0978	1.0209	Ave		1.1153				12.4		20.4			
Anthracene	1.2434 0.9667	0.9925	0.9756	1.0629	1.0056	Ave		1.0411				10.1		20.4			
Di-n-butyl phthalate	0.9944 0.9229	0.9184	0.9599	0.9873	1.0080	Ave		0.9652				3.9		20.4			
Fluoranthene	1.6241 1.2954	1.2521	1.2525	1.3419	1.2635	Ave		1.3382				10.8		20.4			
Pyrene	1.6296 1.1916	1.2109	1.2179	1.2819	1.1845	Ave		1.2861				13.4		20.4			
Butylbenzylphthalate	0.3894 0.3985	0.3623	0.3879	0.4001	0.4137	Ave		0.3920				4.4		20.4			
Benzo[a]anthracene	1.5706 1.2408	1.1448	1.1273	1.2362	1.1619	Ave		1.2469				13.3		20.4			
Chrysene	1.7325 1.2195	1.3037	1.2963	1.2965	1.2279	Ave		1.3460				14.3		20.4			
Bis(2-ethylhexyl) phthalate	0.5314 0.6072	0.5113	0.5616	0.5636	0.6117	Ave		0.5644				7.1		20.4			
Di-n-octyl phthalate	0.8263 0.7961	0.7700	0.8405	0.8532	0.8763	Ave		0.8270				4.7		20.4			
Benzo[b]fluoranthene	1.5208 1.1113	1.1329	1.0858	1.2158	1.1269	Ave		1.1989				13.6		20.4			
Benzo[k]fluoranthene	1.6364 1.1621	1.1921	1.2522	1.2310	1.1297	Ave		1.2673				14.7		20.4			
Benzo[e]pyrene	1.3446 1.0626	1.0697	1.0815	1.1411	1.0452	Ave		1.1241				10.0		20.4			
Benzo[a]pyrene	1.4166 1.0818	1.0672	1.0904	1.1430	1.0649	Ave		1.1440				11.9		20.4			
Perylene	1.4950 1.0664	1.1054	1.1434	1.1515	1.0656	Ave		1.1712				13.9		20.4			
Indeno[1,2,3-cd]pyrene	1.4991 1.1961	1.1148	1.1608	1.1990	1.1314	Ave		1.2169				11.7		20.4			
Dibenz(a,h)anthracene	1.7560 1.3723	1.3083	1.3455	1.4183	1.3358	Ave		1.4227				11.8		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 207883

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2021 09:55 Calibration End Date: 12/21/2021 12:24 Calibration ID: 34110

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.8580 1.3469	1.3644	1.3710	1.4303	1.3339	Ave		1.4507				13.9		20.4			
1-Methylnaphthalene-d10 (Surr)	+++++ 0.5525	0.5996	0.5910	0.5887	0.5705	Ave		0.5805				3.3		20.4			
Fluoranthene-d10 (Surr)	+++++ 1.0630	1.1459	1.0839	1.1315	1.0687	Ave		1.0986				3.4		20.4			
Benzo(a)pyrene-d12 (Surr)	+++++ 0.8846	0.9311	0.9069	0.9288	0.8741	Ave		0.9051				2.8		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 207883

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2021 09:55 Calibration End Date: 12/21/2021 12:24 Calibration ID: 34110

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-207883/7	ML1106.D
Level 2	IC 410-207883/6	ML1105.D
Level 3	IC 410-207883/5	ML1104.D
Level 4	ICIS 410-207883/2	ML1101.D
Level 5	IC 410-207883/4	ML1103.D
Level 6	IC 410-207883/3	ML1102.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	1692 403290	7630	15246	88921	155510	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	1574 458010	7901	16944	95328	171794	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	2679 829197	14220	30006	166236	312689	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	10113 2284899	45493	93690	459096	902672	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	4184 1340423	20653	47066	260956	513235	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	6456 1591703	29159	60797	316257	618572	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	6451 1488760	27962	58688	297113	577988	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	169948 6761077	336572	713321	1672506	3475253	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	9971 2474310	44411	91725	475882	950465	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	7337 1583301	30975	62112	309643	607665	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	10296 2397415	46390	95025	478871	931215	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	153330 6389681	308263	651264	1565057	3236347	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	8110	36477	75859	384627	746061	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 Env Job No.: 410-68043-1 Analy Batch No.: 207883

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2021 09:55 Calibration End Date: 12/21/2021 12:24 Calibration ID: 34110

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
			1945227					2.50				
N-Nitrosodiphenylamine	PHN	Lin2	8439 1221286	25565	53446	245797	475868	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	3151 665416	13427	26890	132674	258321	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	13943 3065813	57541	116823	584624	1121739	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	12462 2736839	54228	108987	566062	1104851	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	249159 10451082	501813	1072310	2628961	5537738	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	16277 3667366	68412	139926	714626	1388204	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	17502 3709768	71447	146939	745458	1445913	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	104544 4962252	213767	467940	1163262	2524798	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	16869 3862881	67552	136002	718901	1418226	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	18607 3796567	76927	156392	753965	1498804	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	142680 7561304	301701	677514	1638725	3733179	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	252217 13048275	537903	1218550	2922987	6642589	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	18569 4553706	79145	157418	833027	1708493	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	19981 4762218	83280	181530	843487	1712702	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	16418 4354152	74730	156791	781832	1584653	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	17297 4432936	74555	158084	783150	1614492	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	18254 4369723	77222	165757	789013	1615517	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	18304	77883	168281	821527	1715351	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 Env Job No.: 410-68043-1 Analy Batch No.: 207883

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2021 09:55 Calibration End Date: 12/21/2021 12:24 Calibration ID: 34110

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
			4901196					2.50				
Dibenz(a,h)anthracene	PRY	Ave	21441 5623341	91400	195059	971806	2025247	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	22686 5519149	95320	198752	980023	2022301	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	+++++ 1271010	25280	50053	253541	495481	+++++ 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	+++++ 3009470	62607	121087	602610	1174209	+++++ 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	+++++ 3624769	65046	131483	636389	1325248	+++++ 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 Env Job No.: 410-68043-1 Analy Batch No.: 207883

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/21/2021 09:55 Calibration End Date: 12/21/2021 12:24 Calibration ID: 34110

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-207883/7	ML1106.D
Level 2	IC 410-207883/6	ML1105.D
Level 3	IC 410-207883/5	ML1104.D
Level 4	ICIS 410-207883/2	ML1101.D
Level 5	IC 410-207883/4	ML1103.D
Level 6	IC 410-207883/3	ML1102.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
N-Nitrosodiphenylamine	1.6	-9.8	2.1	5.8	0.1	0.2	50	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1101.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 21-Dec-2021 09:55:11 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0046894-002, 4
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:51:36 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:36:16

	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	3.287	3.287	0.000	97	88921	0.5000	0.5500	
	2 N-Nitrosodimethylamine	74	3.710	3.710	0.000	91	95328	0.5000	0.5557	
	3 Bis(2-chloroethyl)ether	93	6.725	6.725	0.000	97	166236	0.5000	0.5393	
*	4 1,4-Dichlorobenzene-d4	152	7.096	7.096	0.000	85	63558	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.013	9.013	0.000	92	215330	0.2500	0.2500	
	6 Naphthalene	128	9.033	9.033	0.000	93	459096	0.5000	0.4844	
	7 Quinoline	129	9.566	9.566	0.000	84	260956	0.5000	0.5393	
	8 2-Methylnaphthalene	142	10.129	10.129	0.000	97	316257	0.5000	0.5019	
$	9 1-Methylnaphthalene-d10	152	10.227	10.227	0.000	100	253541	0.5000	0.5071	
	10 1-Methylnaphthalene	142	10.288	10.288	0.000	96	297113	0.5000	0.4928	
	11 Dimethyl phthalate	163	11.413	11.413	0.000	84	1672506	2.50	2.49	
	12 Acenaphthylene	152	11.559	11.559	0.000	99	475882	0.5000	0.5097	
*	13 Acenaphthene-d10	164	11.767	11.767	0.000	91	135017	0.2500	0.2500	
	14 Acenaphthene	154	11.804	11.804	0.000	93	309643	0.5000	0.4916	
	15 Dibenzofuran	168	12.043	12.043	0.000	100	478871	0.5000	0.5072	
	16 Diethyl phthalate	149	12.363	12.363	0.000	100	1565057	2.50	2.52	
	17 Fluorene	166	12.465	12.465	0.000	97	384627	0.5000	0.5107	
	18 N-Nitrosodiphenylamine	169	12.636	12.636	0.000	99	245797	0.5000	0.5288	
	19 Hexachlorobenzene	284	13.144	13.144	0.000	92	132674	0.5000	0.4917	
*	20 Phenanthrene-d10	188	13.651	13.651	0.000	99	266282	0.2500	0.2500	
	21 Phenanthrene	178	13.682	13.682	0.000	100	584624	0.5000	0.4921	
	22 Anthracene	178	13.745	13.745	0.000	100	566062	0.5000	0.5105	
	23 Di-n-butyl phthalate	149	14.474	14.474	0.000	100	2628961	2.50	2.56	
$	24 Fluoranthene-d10 (Surr)	212	15.339	15.339	0.000	97	602610	0.5000	0.5150	
	25 Fluoranthene	202	15.364	15.364	0.000	99	714626	0.5000	0.5014	
	26 Pyrene	202	15.715	15.715	0.000	98	745458	0.5000	0.4984	
	27 Butyl benzyl phthalate	149	16.847	16.847	0.000	100	1163262	2.50	2.55	
	28 Benzo[a]anthracene	228	17.752	17.752	0.000	100	718901	0.5000	0.4957	
*	29 Chrysene-d12	240	17.767	17.767	0.000	77	290771	0.2500	0.2500	
	30 Chrysene	228	17.814	17.814	0.000	100	753965	0.5000	0.4816	

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	17.898	17.898	0.000	97	1638725	2.50	2.50	
32 Di-n-octyl phthalate	149	19.071	19.071	0.000	100	2922987	2.50	2.58	
33 Benzo[b]fluoranthene	252	19.624	19.624	0.000	100	833027	0.5000	0.5070	
34 Benzo[k]fluoranthene	252	19.670	19.670	0.000	100	843487	0.5000	0.4857	
35 Benzo[e]pyrene	252	20.068	20.068	0.000	100	781832	0.5000	0.5075	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.114	20.114	0.000	98	636389	0.5000	0.5131	
37 Benzo[a]pyrene	252	20.153	20.153	0.000	100	783150	0.5000	0.4996	
* 38 Perylene-d12	264	20.245	20.245	0.000	98	342589	0.2500	0.2500	
39 Perylene	252	20.291	20.291	0.000	100	789013	0.5000	0.4916	
40 Indeno[1,2,3-cd]pyrene	276	21.949	21.949	0.000	99	821527	0.5000	0.4927	M
41 Dibenz(a,h)anthracene	278	21.991	21.991	0.000	96	971806	0.5000	0.4985	
42 Benzo[g,h,i]perylene	276	22.408	22.408	0.000	95	980023	0.5000	0.4930	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

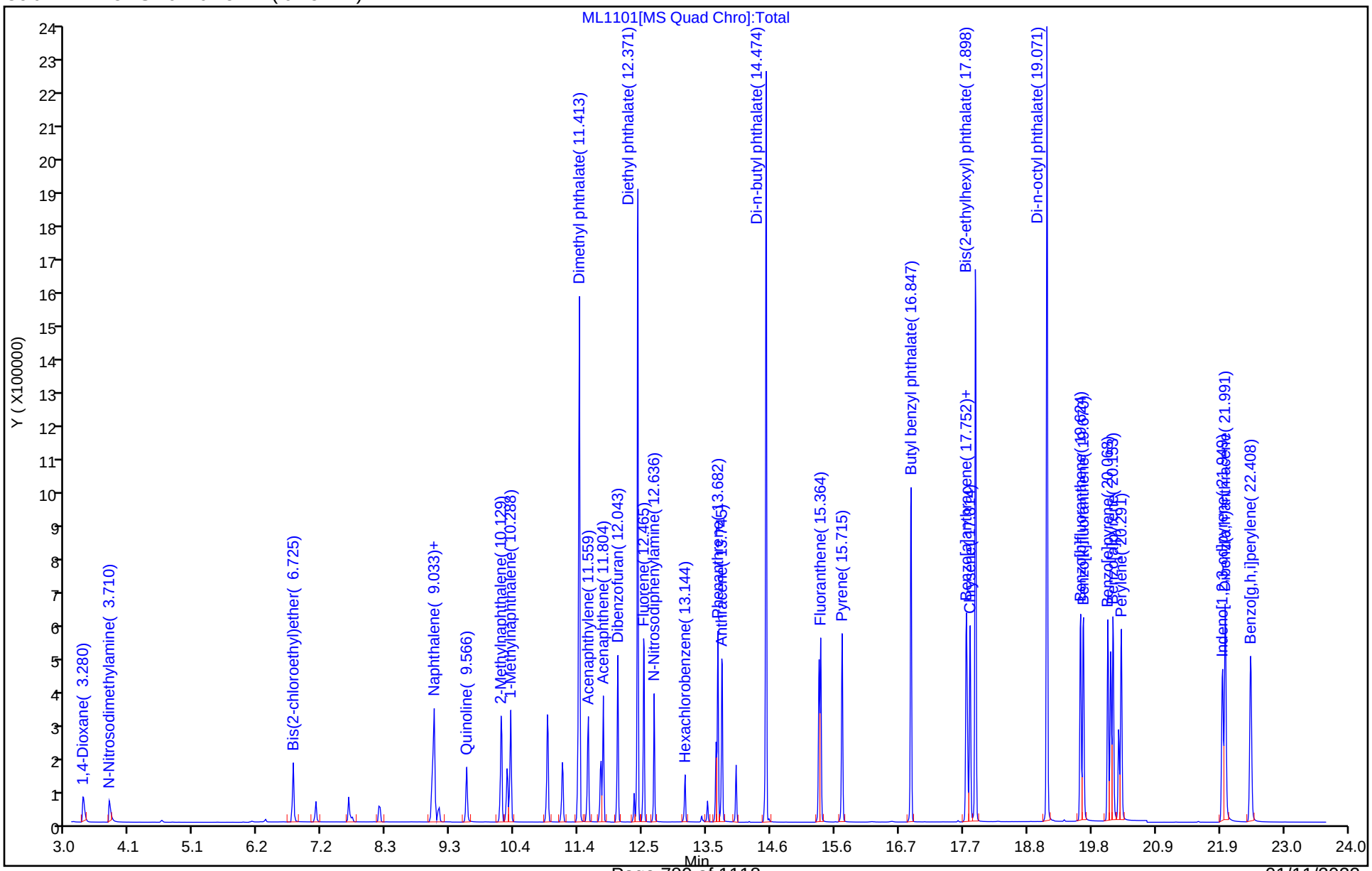
Report Date: 21-Dec-2021 17:51:37 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1101.D

Injection Date:	21-Dec-2021 09:55:11	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)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

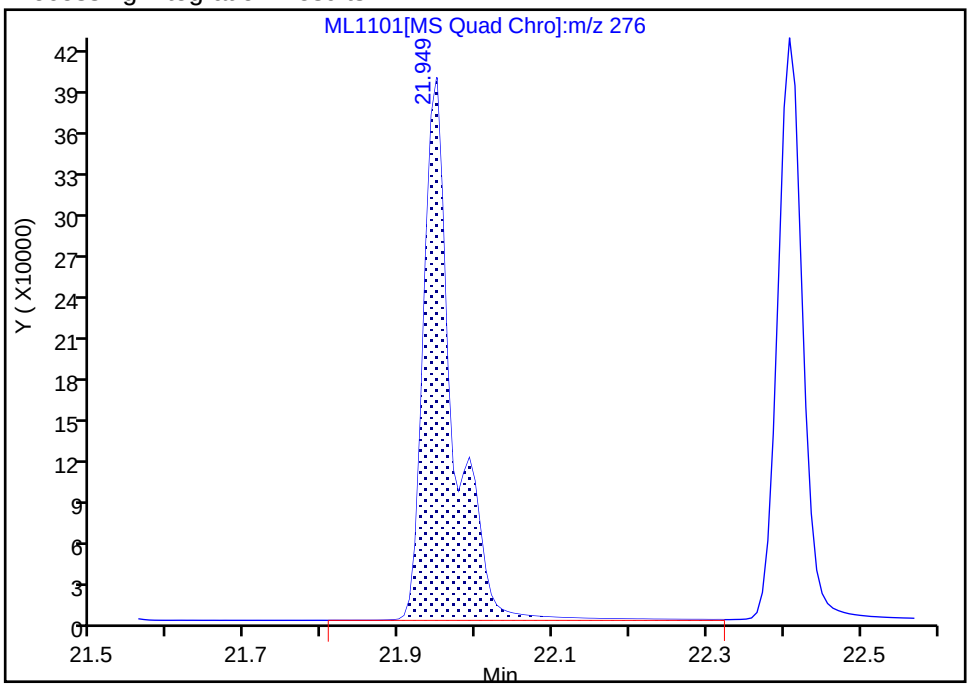
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1101.D				
Injection Date:	21-Dec-2021 09:55:11	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

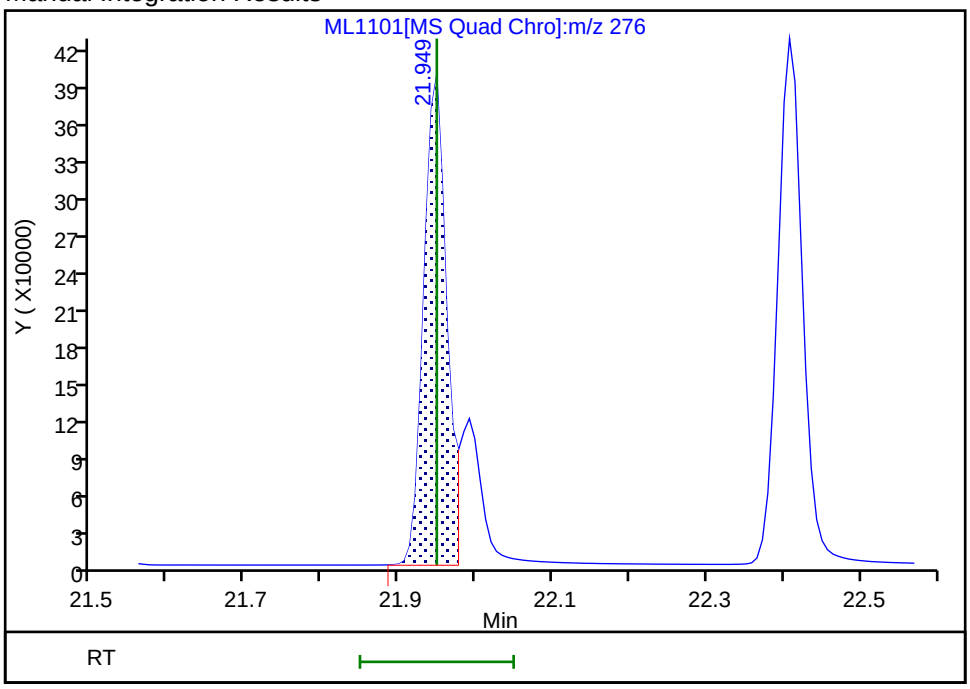
Processing Integration Results

RT: 21.95
Area: 1071591
Amount: 0.492982
Amount Units: ug/ml



Manual Integration Results

RT: 21.95
Area: 821527
Amount: 0.492661
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:36:01

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1102.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-Dec-2021 10:25:02 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0046894-003
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:51:39 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:37:04

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	3.265	3.287	-0.022	97	403290	2.50	2.41	
2 N-Nitrosodimethylamine	74	3.688	3.710	-0.022	92	458010	2.50	2.58	
3 Bis(2-chloroethyl)ether	93	6.725	6.725	0.000	94	829197	2.50	2.52	
* 4 1,4-Dichlorobenzene-d4	152	7.096	7.096	0.000	82	65723	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.992	9.013	-0.021	92	230041	0.2500	0.2500	
6 Naphthalene	128	9.033	9.033	0.000	93	2284899	2.50	2.26	
7 Quinoline	129	9.554	9.566	-0.012	84	1340423	2.50	2.59	
8 2-Methylnaphthalene	142	10.129	10.129	0.000	96	1591703	2.50	2.36	
$ 9 1-Methylnaphthalene-d10	152	10.227	10.227	0.000	99	1271010	2.50	2.38	
10 1-Methylnaphthalene	142	10.288	10.288	0.000	96	1488760	2.50	2.31	
11 Dimethyl phthalate	163	11.412	11.413	-0.001	84	6761077	10.0	9.44	
12 Acenaphthylene	152	11.559	11.559	0.000	99	2474310	2.50	2.49	
* 13 Acenaphthene-d10	164	11.755	11.767	-0.012	94	143757	0.2500	0.2500	
14 Acenaphthene	154	11.804	11.804	0.000	93	1583301	2.50	2.36	
15 Dibenzofuran	168	12.043	12.043	0.000	100	2397415	2.50	2.38	
16 Diethyl phthalate	149	12.371	12.363	0.008	98	6389681	10.0	9.66	
17 Fluorene	166	12.465	12.465	0.000	95	1945227	2.50	2.43	
18 N-Nitrosodiphenylamine	169	12.636	12.636	0.000	99	1221286	2.50	2.51	
19 Hexachlorobenzene	284	13.144	13.144	0.000	92	665416	2.50	2.32	
* 20 Phenanthrene-d10	188	13.651	13.651	0.000	95	283109	0.2500	0.2500	
21 Phenanthrene	178	13.682	13.682	0.000	100	3065813	2.50	2.43	
22 Anthracene	178	13.745	13.745	0.000	100	2736839	2.50	2.32	
23 Di-n-butyl phthalate	149	14.474	14.474	0.000	100	10451082	10.0	9.56	
$ 24 Fluoranthene-d10 (Surr)	212	15.339	15.339	0.000	98	3009470	2.50	2.42	
25 Fluoranthene	202	15.364	15.364	0.000	99	3667366	2.50	2.42	
26 Pyrene	202	15.715	15.715	0.000	98	3709768	2.50	2.32	
27 Butyl benzyl phthalate	149	16.847	16.847	0.000	100	4962252	10.0	10.2	
28 Benzo[a]anthracene	228	17.752	17.752	0.000	100	3862881	2.50	2.49	
* 29 Chrysene-d12	240	17.767	17.767	0.000	72	311329	0.2500	0.2500	
30 Chrysene	228	17.813	17.814	-0.001	100	3796567	2.50	2.26	

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	17.905	17.898	0.007	97	7561304	10.0	10.8	
32 Di-n-octyl phthalate	149	19.079	19.071	0.008	100	13048275	10.0	9.63	
33 Benzo[b]fluoranthene	252	19.623	19.624	-0.001	100	4553706	2.50	2.32	
34 Benzo[k]fluoranthene	252	19.669	19.670	-0.001	100	4762218	2.50	2.29	
35 Benzo[e]pyrene	252	20.076	20.068	0.008	100	4354152	2.50	2.36	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.122	20.114	0.008	98	3624769	2.50	2.44	
37 Benzo[a]pyrene	252	20.160	20.153	0.007	100	4432936	2.50	2.36	
* 38 Perylene-d12	264	20.252	20.245	0.007	98	409781	0.2500	0.2500	
39 Perylene	252	20.291	20.291	0.000	100	4369723	2.50	2.28	
40 Indeno[1,2,3-cd]pyrene	276	21.956	21.949	0.007	98	4901196	2.50	2.46	M
41 Dibenz(a,h)anthracene	278	21.998	21.991	0.007	95	5623341	2.50	2.41	
42 Benzo[g,h,i]perylene	276	22.422	22.408	0.014	95	5519149	2.50	2.32	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00012 Amount Added: 1.00 Units: mL

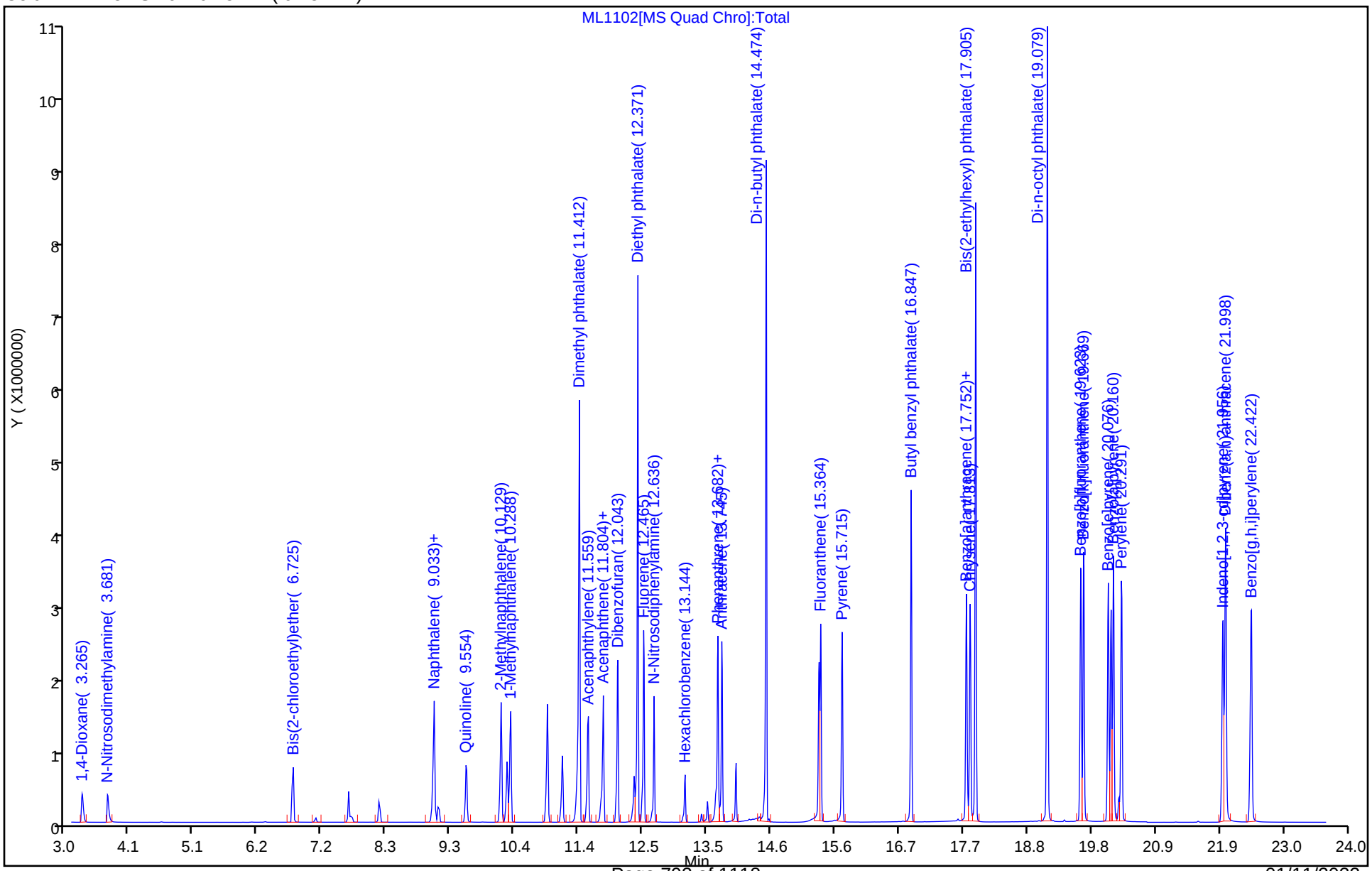
Report Date: 21-Dec-2021 17:51:40 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1102.D

Injection Date:	21-Dec-2021 10:25:02	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 Env, LLC

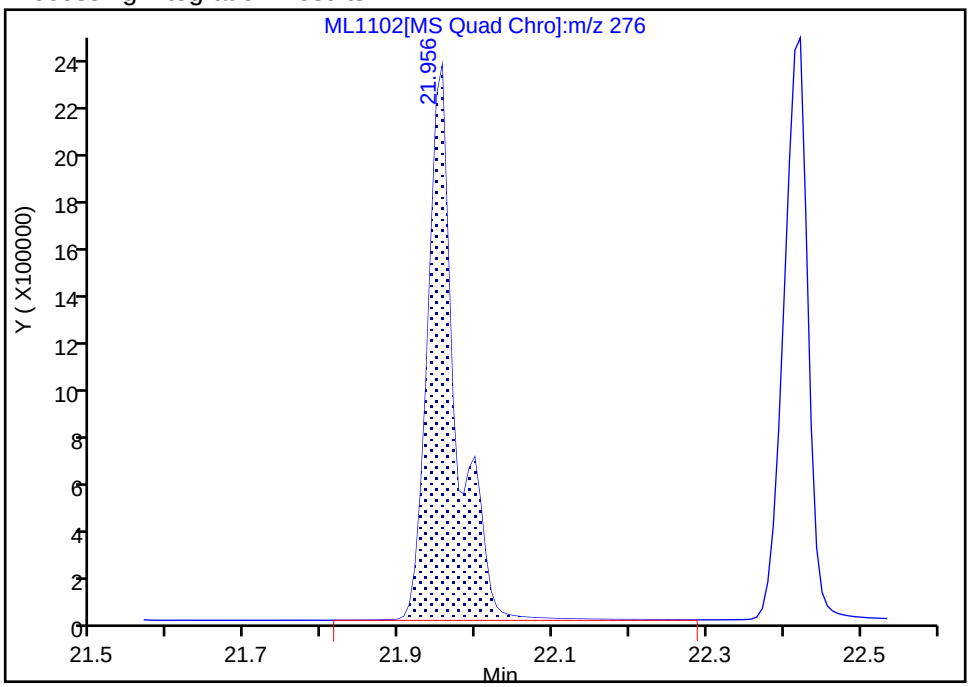
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Injection Date:	21-Dec-2021 10:25:02	Instrument ID:	HP21585		
Lims ID:	IC L6				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

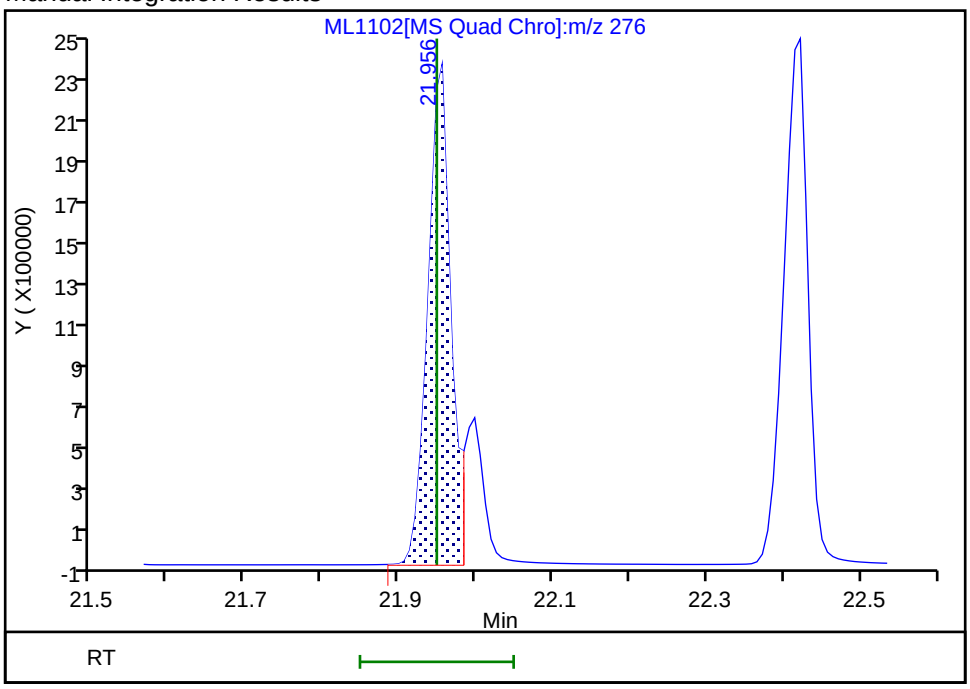
Processing Integration Results

RT: 21.96
Area: 6115170
Amount: 2.445758
Amount Units: ug/ml



Manual Integration Results

RT: 21.96
Area: 4901196
Amount: 2.457251
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:36:59

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1103.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 21-Dec-2021 10:54:51 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0046894-004
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:51:42 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:38:26

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	3.287	3.287	0.000	97	155510	1.00	0.9357	
2 N-Nitrosodimethylamine	74	3.703	3.710	-0.007	92	171794	1.00	0.9742	
3 Bis(2-chloroethyl)ether	93	6.725	6.725	0.000	97	312689	1.00	1.01	
* 4 1,4-Dichlorobenzene-d4	152	7.096	7.096	0.000	84	65336	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.992	9.013	-0.021	92	217120	0.2500	0.2500	
6 Naphthalene	128	9.033	9.033	0.000	93	902672	1.00	0.9446	
7 Quinoline	129	9.566	9.566	0.000	84	513235	1.00	1.05	
8 2-Methylnaphthalene	142	10.129	10.129	0.000	96	618572	1.00	0.9736	
$ 9 1-Methylnaphthalene-d10	152	10.227	10.227	-0.001	99	495481	1.00	0.9828	
10 1-Methylnaphthalene	142	10.288	10.288	0.000	96	577988	1.00	0.9509	
11 Dimethyl phthalate	163	11.412	11.413	-0.001	81	3475253	5.00	4.94	
12 Acenaphthylene	152	11.559	11.559	0.000	99	950465	1.00	0.9736	
* 13 Acenaphthene-d10	164	11.767	11.767	0.000	89	141190	0.2500	0.2500	
14 Acenaphthene	154	11.804	11.804	0.000	93	607665	1.00	0.9226	
15 Dibenzofuran	168	12.043	12.043	0.000	100	931215	1.00	0.9432	
16 Diethyl phthalate	149	12.371	12.363	0.008	98	3236347	5.00	4.98	
17 Fluorene	166	12.464	12.465	-0.001	96	746061	1.00	0.9473	
18 N-Nitrosodiphenylamine	169	12.636	12.636	0.000	99	475868	1.00	1.00	
19 Hexachlorobenzene	284	13.144	13.144	0.000	92	258321	1.00	0.9280	
* 20 Phenanthrene-d10	188	13.651	13.651	0.000	99	274685	0.2500	0.2500	
21 Phenanthrene	178	13.682	13.682	0.000	100	1121739	1.00	0.9154	
22 Anthracene	178	13.745	13.745	0.000	100	1104851	1.00	0.9658	
23 Di-n-butyl phthalate	149	14.468	14.474	-0.006	100	5537738	5.00	5.22	
$ 24 Fluoranthene-d10 (Surr)	212	15.333	15.339	-0.006	97	1174209	1.00	0.9728	
25 Fluoranthene	202	15.364	15.364	0.000	99	1388204	1.00	0.9441	
26 Pyrene	202	15.715	15.715	0.000	98	1445913	1.00	0.9211	
27 Butyl benzyl phthalate	149	16.847	16.847	0.000	100	2524798	5.00	5.28	
28 Benzo[a]anthracene	228	17.744	17.752	-0.008	100	1418226	1.00	0.9318	
* 29 Chrysene-d12	240	17.767	17.767	0.000	82	305164	0.2500	0.2500	
30 Chrysene	228	17.806	17.814	-0.008	100	1498804	1.00	0.9122	

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	17.898	17.898	0.000	97	3733179	5.00	5.42	
32 Di-n-octyl phthalate	149	19.071	19.071	0.000	100	6642589	5.00	5.30	
33 Benzo[b]fluoranthene	252	19.616	19.624	-0.008	100	1708493	1.00	0.9399	
34 Benzo[k]fluoranthene	252	19.669	19.670	-0.001	100	1712702	1.00	0.8914	
35 Benzo[e]pyrene	252	20.068	20.068	0.000	100	1584653	1.00	0.9298	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.114	20.114	0.000	98	1325248	1.00	0.9658	
37 Benzo[a]pyrene	252	20.153	20.153	0.000	100	1614492	1.00	0.9309	
* 38 Perylene-d12	264	20.245	20.245	0.000	98	379025	0.2500	0.2500	
39 Perylene	252	20.291	20.291	0.000	100	1615517	1.00	0.9098	
40 Indeno[1,2,3-cd]pyrene	276	21.949	21.949	0.000	99	1715351	1.00	0.9298	M
41 Dibenz(a,h)anthracene	278	21.991	21.991	0.000	96	2025247	1.00	0.9389	
42 Benzo[g,h,i]perylene	276	22.408	22.408	0.000	95	2022301	1.00	0.9195	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00014 Amount Added: 1.00 Units: mL

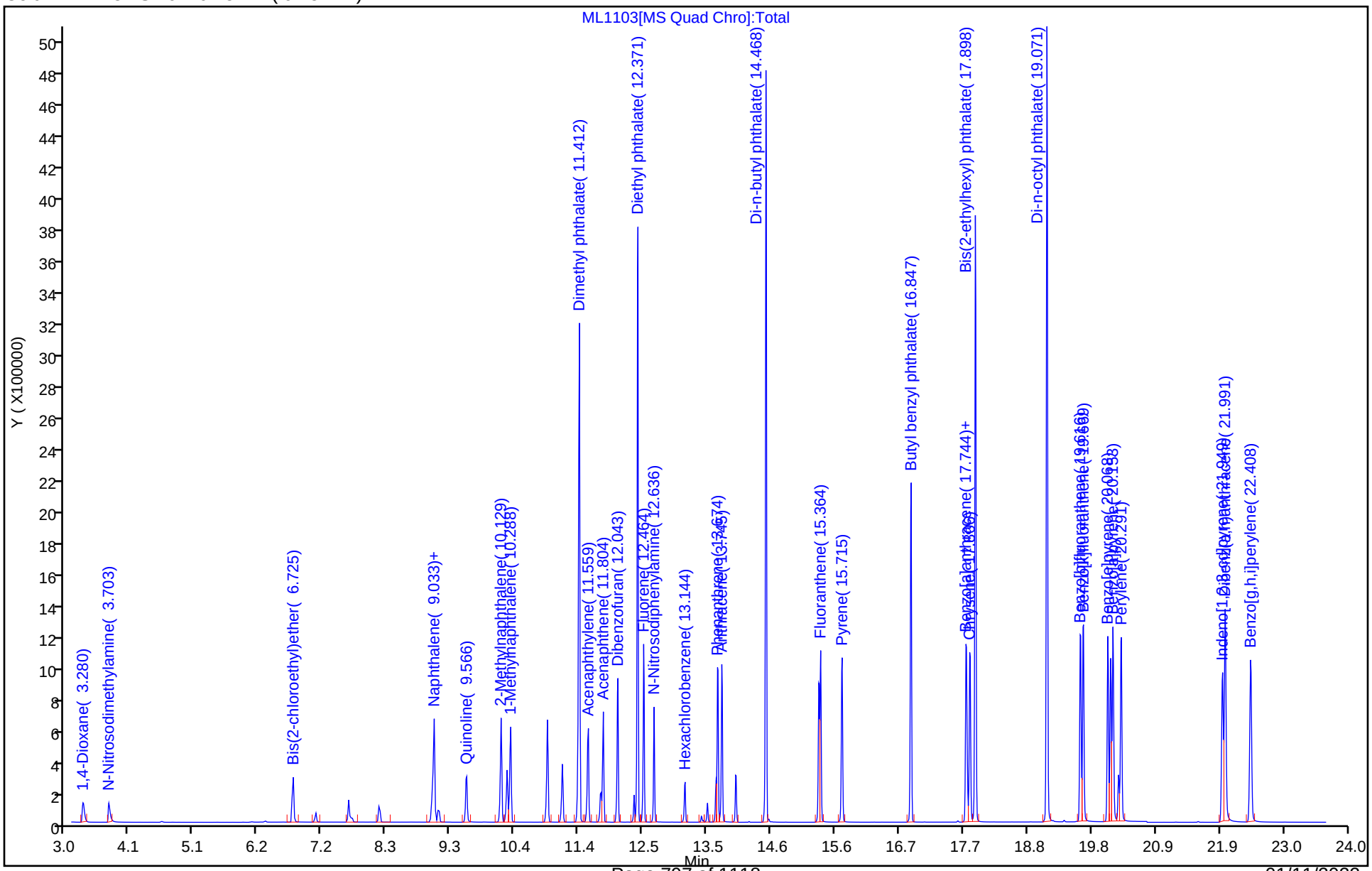
Report Date: 21-Dec-2021 17:51:42 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1103.D

Injection Date:	21-Dec-2021 10:54:51	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 Env, LLC

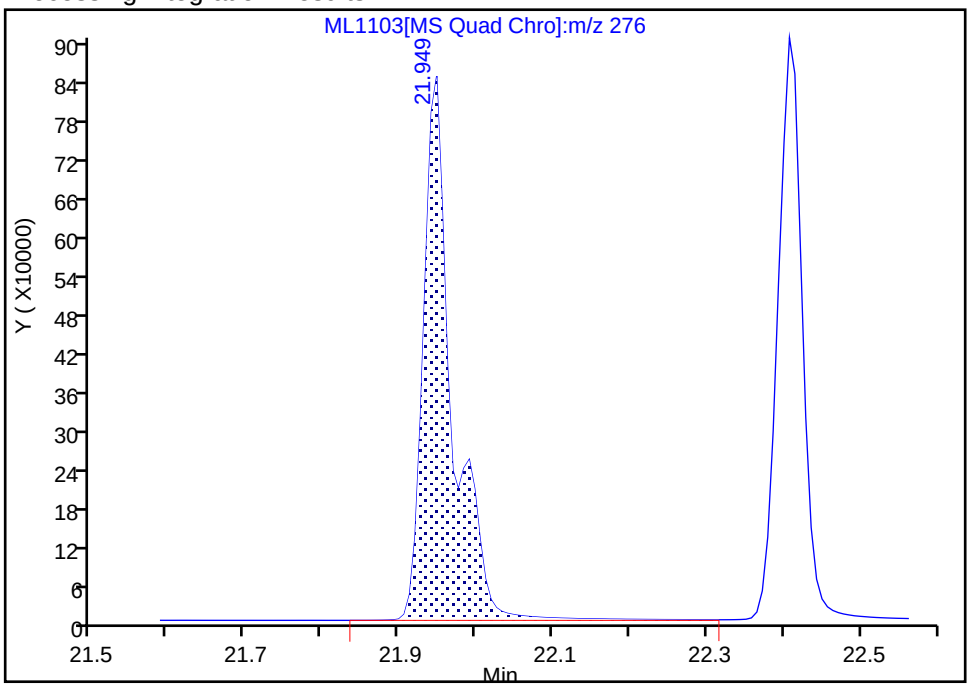
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Injection Date:	21-Dec-2021 10:54:51	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

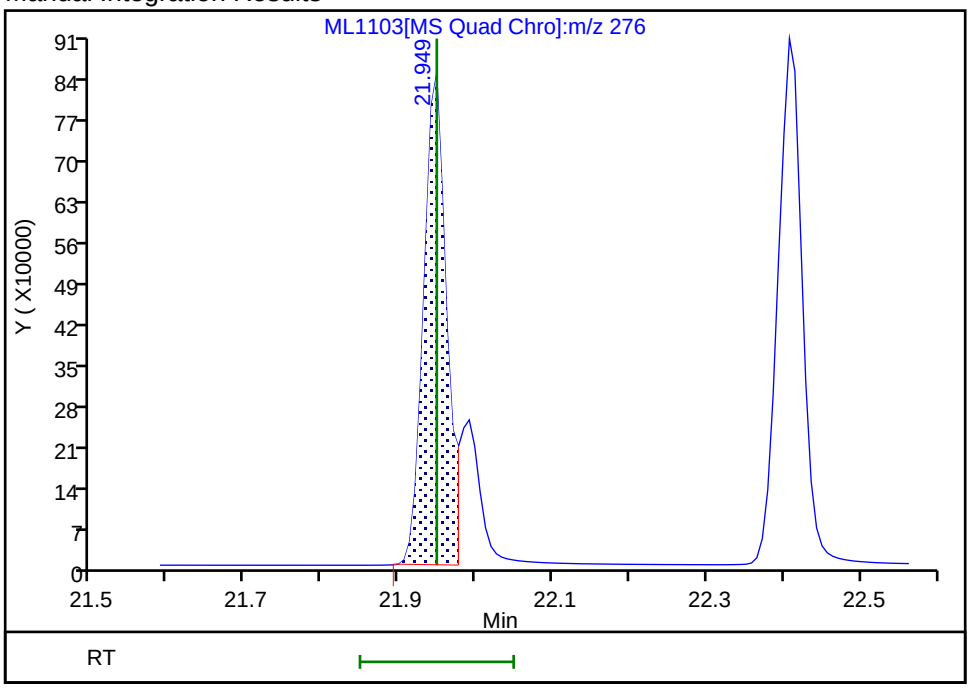
Processing Integration Results

RT: 21.95
Area: 2213460
Amount: 1.105511
Amount Units: ug/ml



Manual Integration Results

RT: 21.95
Area: 1715351
Amount: 0.929789
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:38:21

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1104.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-Dec-2021 11:24:41 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0046894-005
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:51:44 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: saadehw Date: 21-Dec-2021 16:45:52

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	3.288	3.287	0.001	94	15246	0.1000	0.0929	M
2 N-Nitrosodimethylamine	74	3.725	3.710	0.015	91	16944	0.1000	0.0973	
3 Bis(2-chloroethyl)ether	93	6.725	6.725	0.000	97	30006	0.1000	0.0990	
* 4 1,4-Dichlorobenzene-d4	152	7.096	7.096	0.000	82	64536	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.992	9.013	-0.021	91	211736	0.2500	0.2500	
6 Naphthalene	128	9.034	9.033	0.001	93	93690	0.1000	0.1005	
7 Quinoline	129	9.567	9.566	0.001	84	47066	0.1000	0.0989	
8 2-Methylnaphthalene	142	10.129	10.129	0.000	96	60797	0.1000	0.0981	
$ 9 1-Methylnaphthalene-d10	152	10.227	10.227	0.000	99	50053	0.1000	0.1018	
10 1-Methylnaphthalene	142	10.288	10.288	0.000	96	58688	0.1000	0.0990	
11 Dimethyl phthalate	163	11.413	11.413	0.000	89	713321	1.00	1.01	
12 Acenaphthylene	152	11.560	11.559	0.001	99	91725	0.1000	0.0932	
* 13 Acenaphthene-d10	164	11.755	11.767	-0.012	93	142331	0.2500	0.2500	
14 Acenaphthene	154	11.804	11.804	0.000	93	62112	0.1000	0.0935	
15 Dibenzofuran	168	12.043	12.043	0.000	100	95025	0.1000	0.0955	
16 Diethyl phthalate	149	12.363	12.363	0.000	99	651264	1.00	0.99	
17 Fluorene	166	12.465	12.465	0.000	96	75859	0.1000	0.0955	
18 N-Nitrosodiphenylamine	169	12.637	12.636	0.001	98	53446	0.1000	0.1021	
19 Hexachlorobenzene	284	13.144	13.144	0.000	92	26890	0.1000	0.0950	
* 20 Phenanthrene-d10	188	13.651	13.651	0.000	96	279286	0.2500	0.2500	
21 Phenanthrene	178	13.675	13.682	-0.007	100	116823	0.1000	0.0938	
22 Anthracene	178	13.745	13.745	0.000	100	108987	0.1000	0.0937	
23 Di-n-butyl phthalate	149	14.468	14.474	-0.006	100	1072310	1.00	0.99	
$ 24 Fluoranthene-d10 (Surr)	212	15.333	15.339	-0.006	97	121087	0.1000	0.0987	
25 Fluoranthene	202	15.364	15.364	0.000	99	139926	0.1000	0.0936	
26 Pyrene	202	15.715	15.715	0.000	97	146939	0.1000	0.0947	
27 Butyl benzyl phthalate	149	16.840	16.847	-0.007	100	467940	1.00	0.9896	
28 Benzo[a]anthracene	228	17.745	17.752	-0.007	100	136002	0.1000	0.0904	
* 29 Chrysene-d12	240	17.768	17.767	0.001	58	301616	0.2500	0.2500	
30 Chrysene	228	17.806	17.814	-0.008	100	156392	0.1000	0.0963	

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	17.898	17.898	0.000	97	677514	1.00	0.99	
32 Di-n-octyl phthalate	149	19.072	19.071	0.001	100	1218550	1.00	1.02	
33 Benzo[b]fluoranthene	252	19.616	19.624	-0.008	100	157418	0.1000	0.0906	
34 Benzo[k]fluoranthene	252	19.662	19.670	-0.008	100	181530	0.1000	0.0988	
35 Benzo[e]pyrene	252	20.069	20.068	0.001	100	156791	0.1000	0.0962	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.115	20.114	0.001	98	131483	0.1000	0.1002	
37 Benzo[a]pyrene	252	20.153	20.153	0.000	100	158084	0.1000	0.0953	
* 38 Perylene-d12	264	20.245	20.245	0.000	98	362432	0.2500	0.2500	
39 Perylene	252	20.283	20.291	-0.008	100	165757	0.1000	0.0976	
40 Indeno[1,2,3-cd]pyrene	276	21.942	21.949	-0.007	98	168281	0.1000	0.0954	M
41 Dibenz(a,h)anthracene	278	21.991	21.991	0.000	96	195059	0.1000	0.0946	
42 Benzo[g,h,i]perylene	276	22.408	22.408	0.000	95	198752	0.1000	0.0945	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00013 Amount Added: 1.00 Units: mL

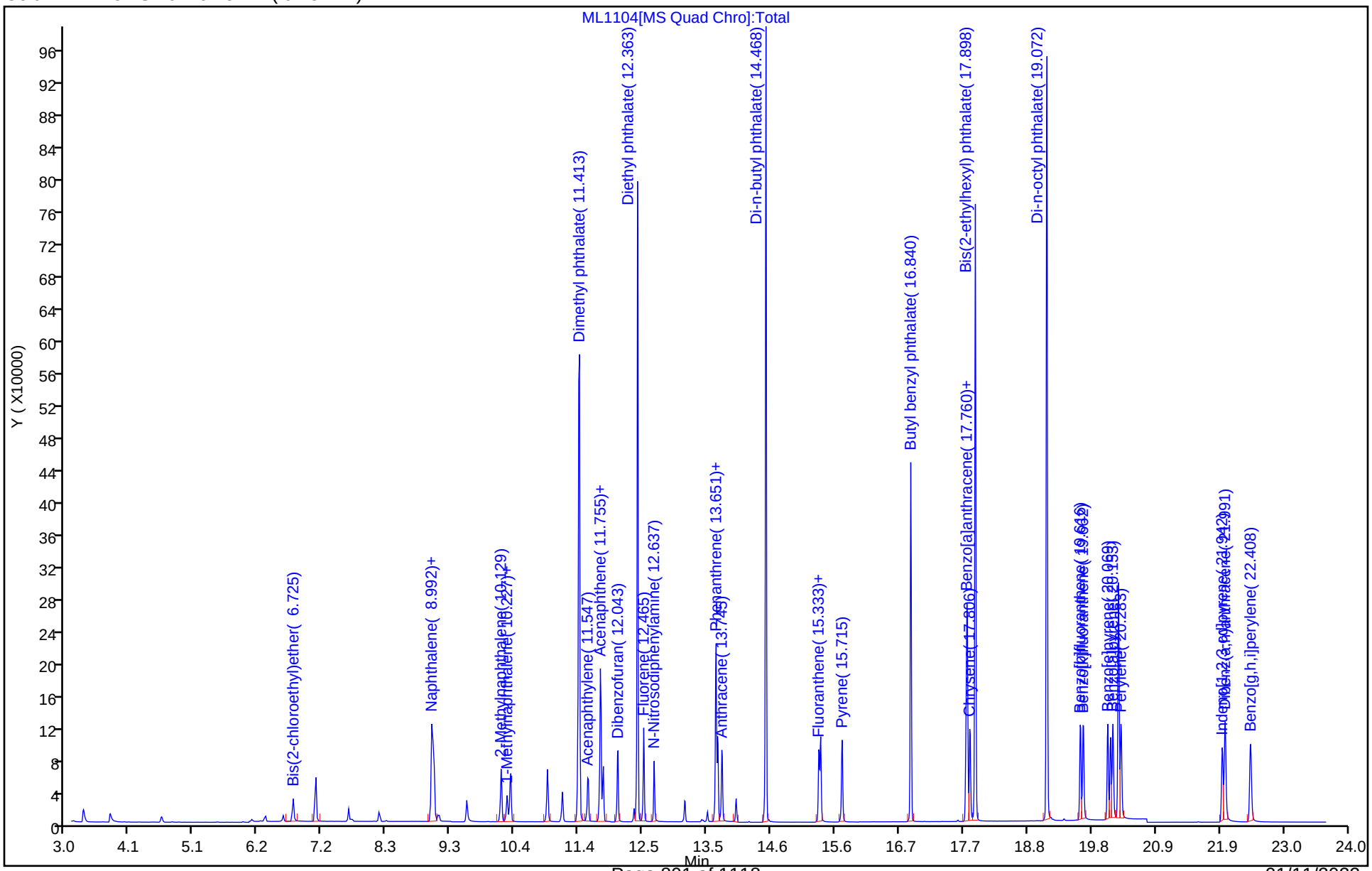
Report Date: 21-Dec-2021 17:51:45 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1104.D

Injection Date:	21-Dec-2021 11:24:41	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 Env, LLC

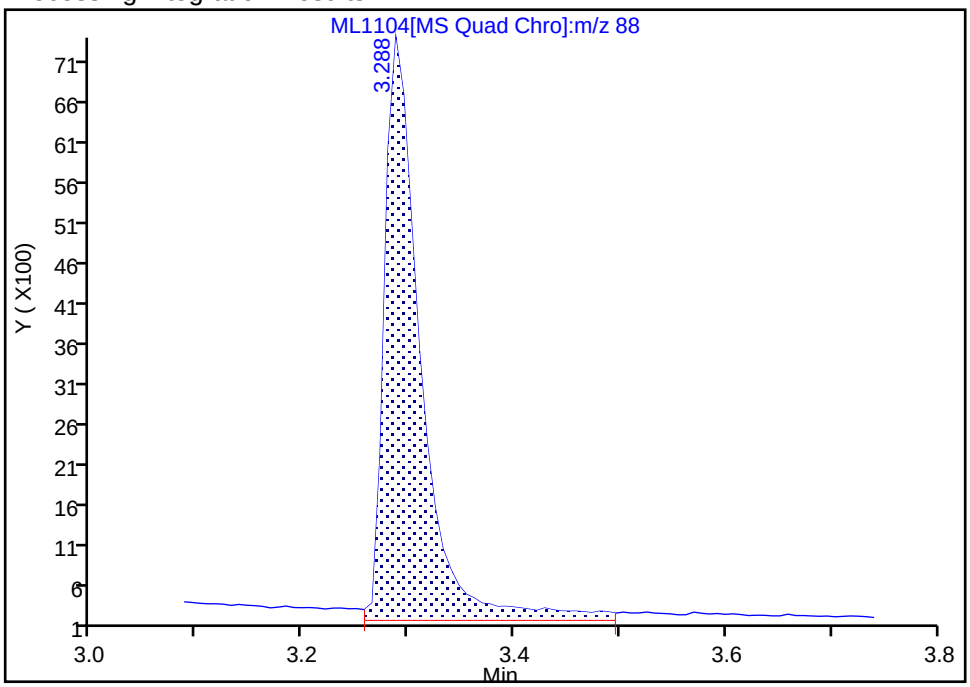
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Injection Date:	21-Dec-2021 11:24:41	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

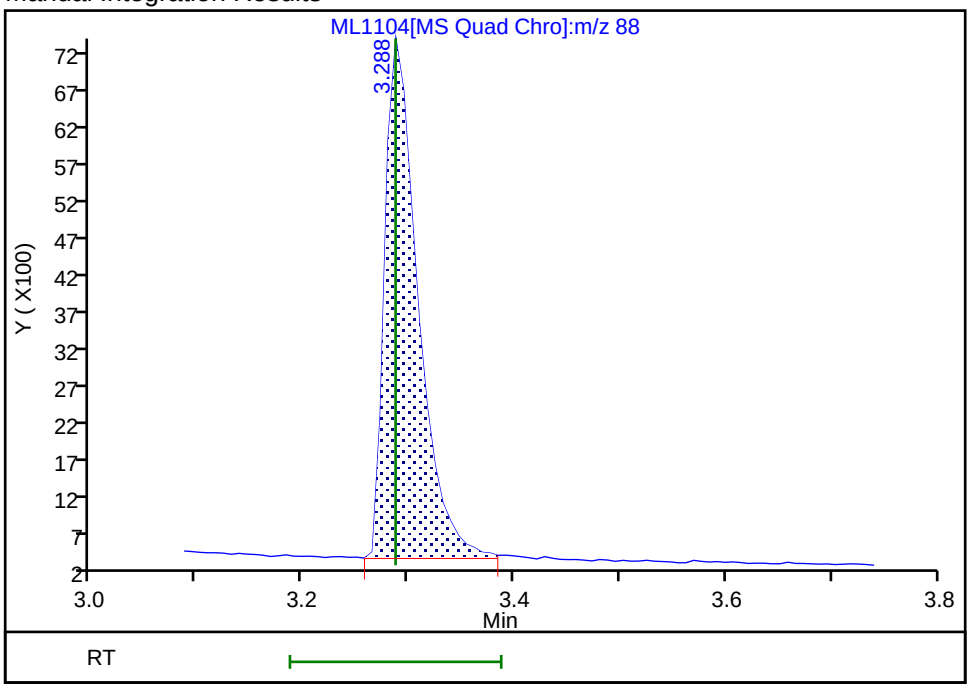
Processing Integration Results

RT: 3.29
Area: 17045
Amount: 0.094259
Amount Units: ug/ml



Manual Integration Results

RT: 3.29
Area: 15246
Amount: 0.092868
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:38:52

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

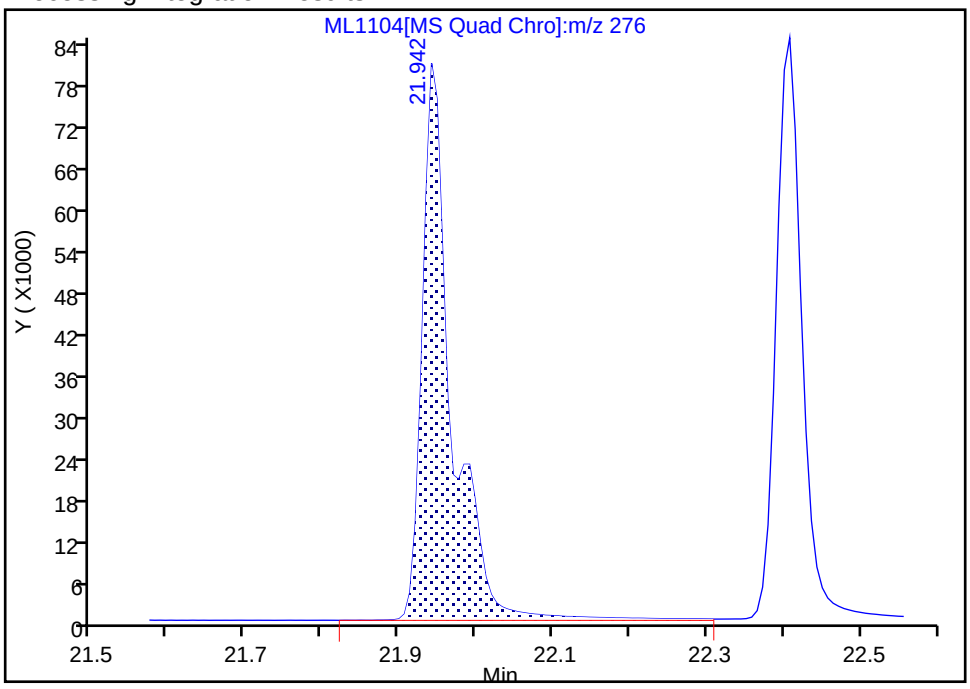
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Injection Date:	21-Dec-2021 11:24:41	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

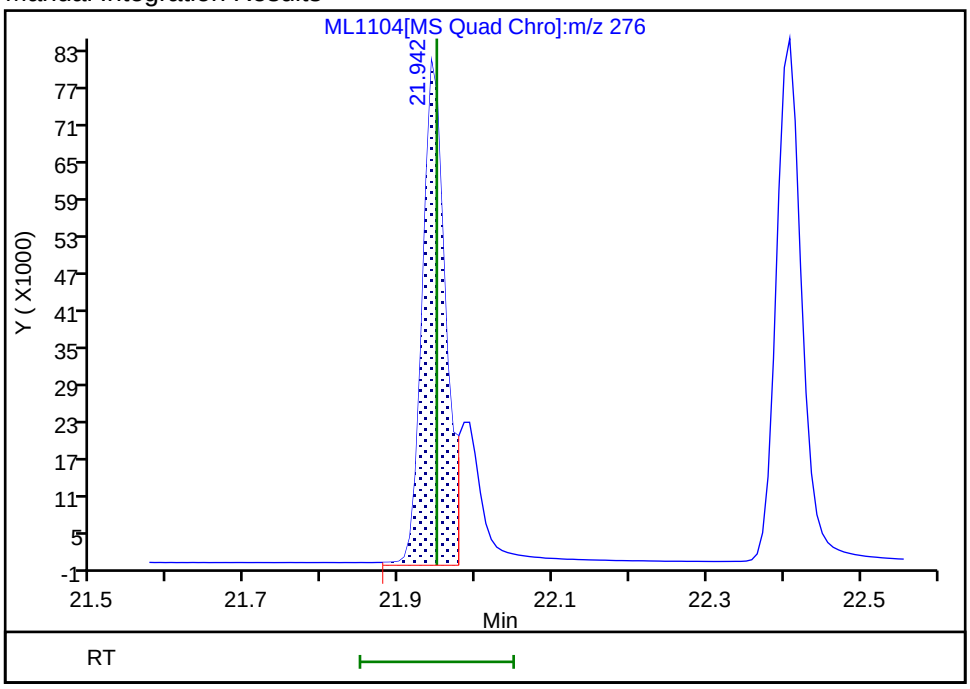
Processing Integration Results

RT: 21.94
Area: 216176
Amount: 0.113751
Amount Units: ug/ml



Manual Integration Results

RT: 21.94
Area: 168281
Amount: 0.095391
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:39:21

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1105.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-Dec-2021 11:54:32 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0046894-006
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:51:47 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:40:42

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	3.295	3.287	0.008	95	7630	0.0500	0.0471	M
2 N-Nitrosodimethylamine	74	3.740	3.710	0.030	91	7901	0.0500	0.0460	
3 Bis(2-chloroethyl)ether	93	6.725	6.725	0.000	96	14220	0.0500	0.0471	
* 4 1,4-Dichlorobenzene-d4	152	7.096	7.096	0.000	83	63688	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.013	9.013	0.000	95	210803	0.2500	0.2500	
6 Naphthalene	128	9.033	9.033	0.000	94	45493	0.0500	0.0490	
7 Quinoline	129	9.579	9.566	0.013	84	20653	0.0500	0.0436	
8 2-Methylnaphthalene	142	10.129	10.129	0.000	96	29159	0.0500	0.0473	
$ 9 1-Methylnaphthalene-d10	152	10.227	10.227	0.000	99	25280	0.0500	0.0516	
10 1-Methylnaphthalene	142	10.288	10.288	0.000	96	27962	0.0500	0.0474	
11 Dimethyl phthalate	163	11.413	11.413	0.000	81	336572	0.5000	0.4907	
12 Acenaphthylene	152	11.559	11.559	0.000	99	44411	0.0500	0.0466	
* 13 Acenaphthene-d10	164	11.755	11.767	-0.012	95	137724	0.2500	0.2500	
14 Acenaphthene	154	11.804	11.804	0.000	93	30975	0.0500	0.0482	
15 Dibenzofuran	168	12.043	12.043	0.000	99	46390	0.0500	0.0482	
16 Diethyl phthalate	149	12.363	12.363	0.000	99	308263	0.5000	0.4867	
17 Fluorene	166	12.465	12.465	0.000	96	36477	0.0500	0.0475	
18 N-Nitrosodiphenylamine	169	12.636	12.636	0.000	99	25565	0.0500	0.0451	
19 Hexachlorobenzene	284	13.144	13.144	0.000	91	13427	0.0500	0.0485	
* 20 Phenanthrene-d10	188	13.651	13.651	0.000	95	273186	0.2500	0.2500	
21 Phenanthrene	178	13.682	13.682	0.000	100	57541	0.0500	0.0472	
22 Anthracene	178	13.753	13.745	0.008	100	54228	0.0500	0.0477	
23 Di-n-butyl phthalate	149	14.468	14.474	-0.006	100	501813	0.5000	0.4758	
$ 24 Fluoranthene-d10 (Surr)	212	15.339	15.339	0.000	97	62607	0.0500	0.0522	
25 Fluoranthene	202	15.364	15.364	0.000	99	68412	0.0500	0.0468	
26 Pyrene	202	15.715	15.715	0.000	97	71447	0.0500	0.0471	
27 Butyl benzyl phthalate	149	16.839	16.847	-0.008	100	213767	0.5000	0.4622	
28 Benzo[a]anthracene	228	17.745	17.752	-0.008	100	67552	0.0500	0.0459	
* 29 Chrysene-d12	240	17.768	17.767	0.001	57	295027	0.2500	0.2500	
30 Chrysene	228	17.814	17.814	0.000	100	76927	0.0500	0.0484	

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	17.898	17.898	0.000	97	301701	0.5000	0.4529	
32 Di-n-octyl phthalate	149	19.071	19.071	0.000	100	537903	0.5000	0.4655	
33 Benzo[b]fluoranthene	252	19.616	19.624	-0.008	100	79145	0.0500	0.0472	
34 Benzo[k]fluoranthene	252	19.670	19.670	0.000	100	83280	0.0500	0.0470	
35 Benzo[e]pyrene	252	20.068	20.068	0.000	100	74730	0.0500	0.0476	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.114	20.114	0.000	98	65046	0.0500	0.0514	
37 Benzo[a]pyrene	252	20.153	20.153	0.000	100	74555	0.0500	0.0466	
* 38 Perylene-d12	264	20.245	20.245	0.000	98	349304	0.2500	0.2500	
39 Perylene	252	20.283	20.291	-0.008	100	77222	0.0500	0.0472	M
40 Indeno[1,2,3-cd]pyrene	276	21.949	21.949	0.000	98	77883	0.0500	0.0458	M
41 Dibenz(a,h)anthracene	278	21.991	21.991	0.000	96	91400	0.0500	0.0460	
42 Benzo[g,h,i]perylene	276	22.408	22.408	0.000	95	95320	0.0500	0.0470	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00015 Amount Added: 1.00 Units: mL

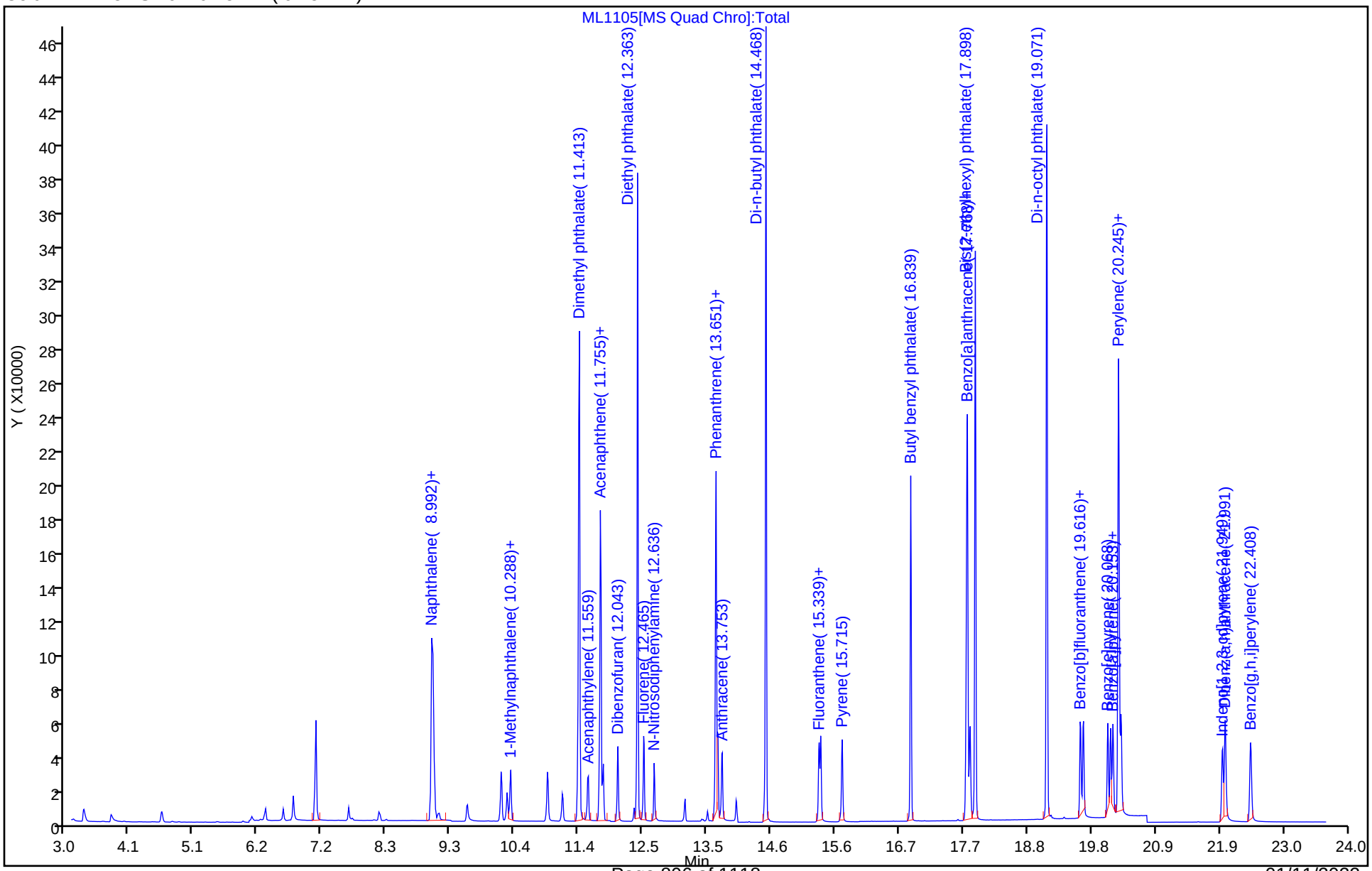
Report Date: 21-Dec-2021 17:51:47 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1105.D

Injection Date:	21-Dec-2021 11:54:32	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 Env, LLC

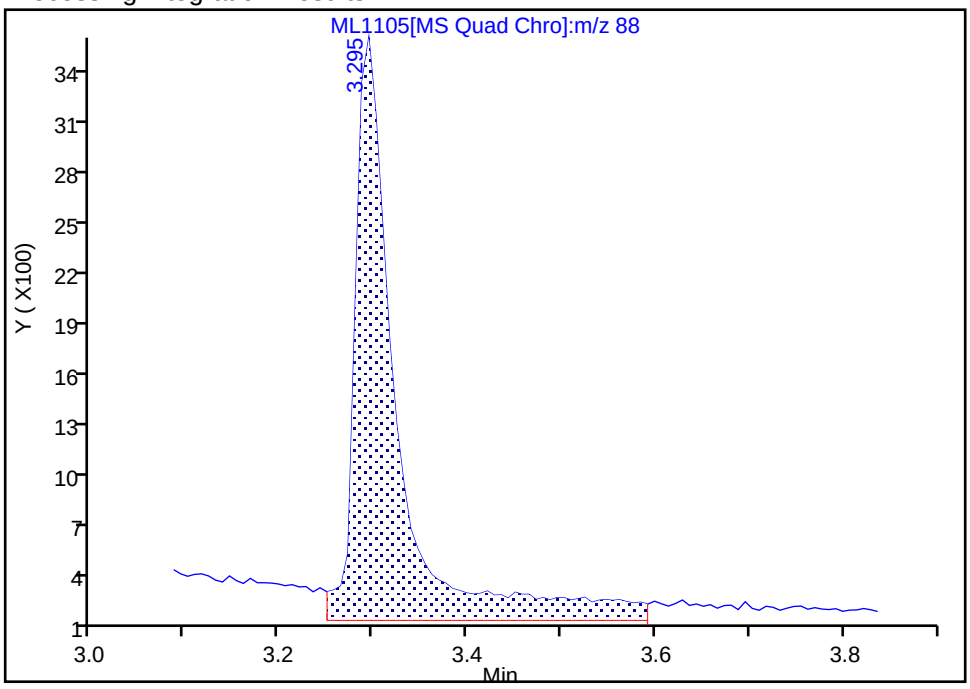
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Injection Date:	21-Dec-2021 11:54:32	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

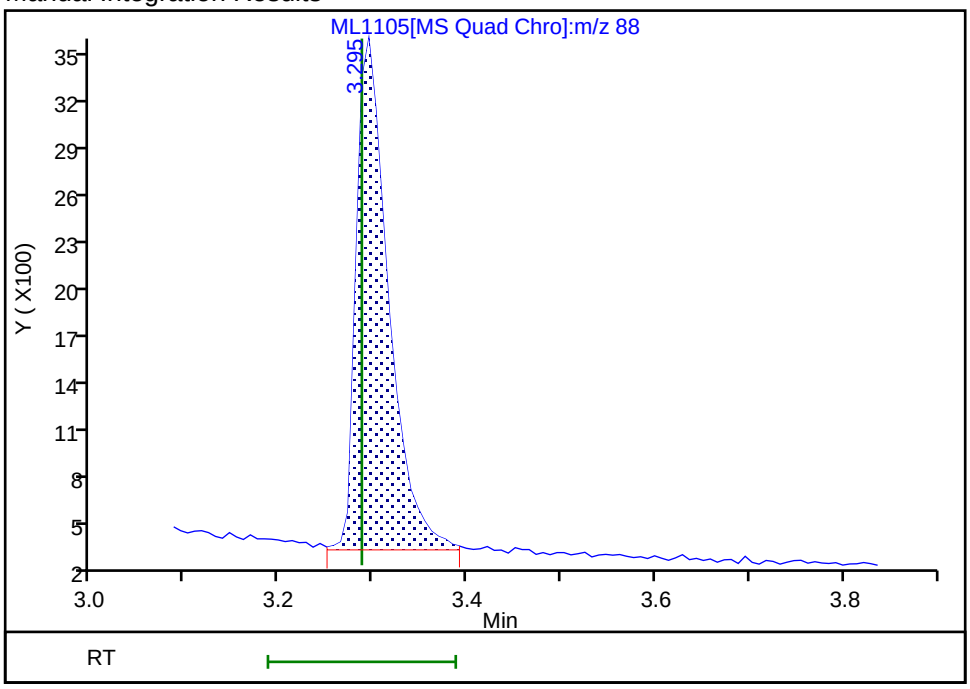
Processing Integration Results

RT: 3.29
Area: 10438
Amount: 0.059477
Amount Units: ug/ml



Manual Integration Results

RT: 3.29
Area: 7630
Amount: 0.047096
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:40:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

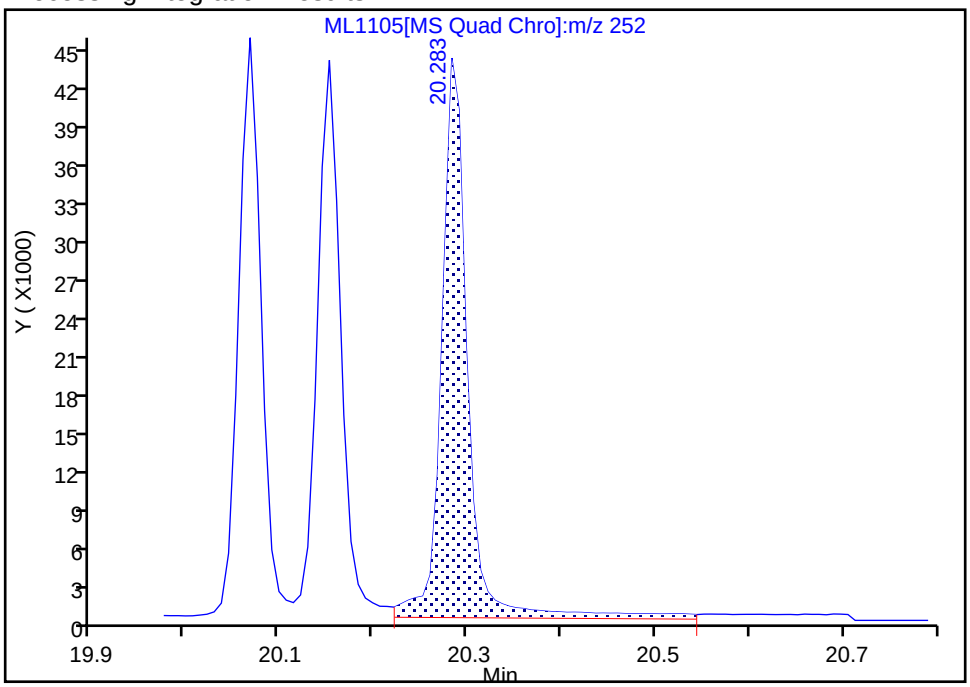
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Injection Date:	21-Dec-2021 11:54:32	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

39 Perylene, CAS: 198-55-0

Signal: 1

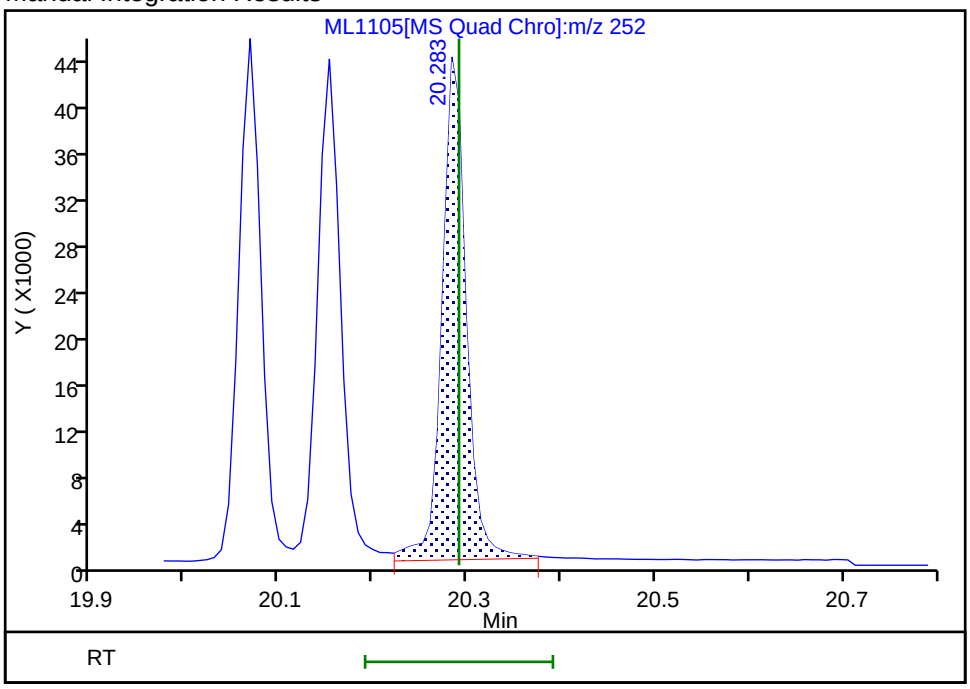
Processing Integration Results

RT: 20.28
Area: 84093
Amount: 0.049502
Amount Units: ug/ml



Manual Integration Results

RT: 20.28
Area: 77222
Amount: 0.047190
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:40:29

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

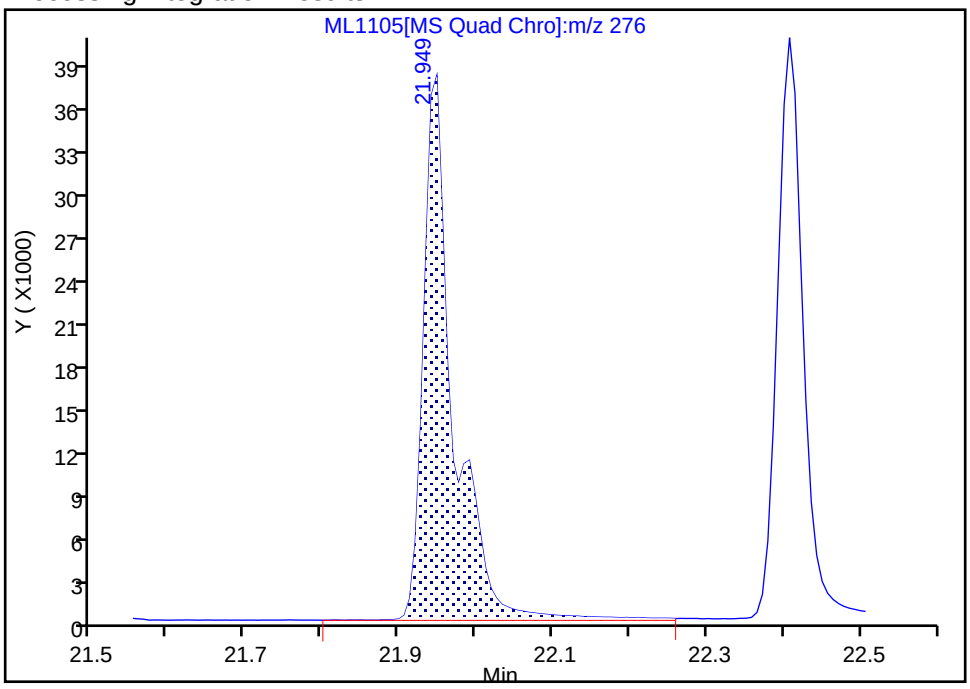
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Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

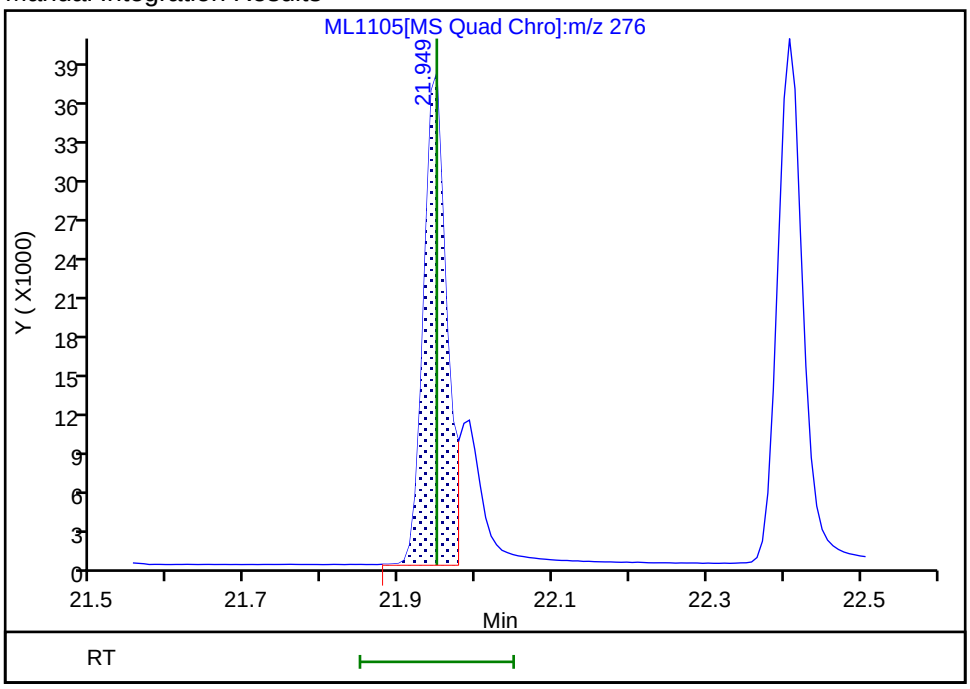
Processing Integration Results

RT: 21.95
Area: 103407
Amount: 0.055697
Amount Units: ug/ml



Manual Integration Results

RT: 21.95
Area: 77883
Amount: 0.045808
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:40:37

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-Dec-2021 12:24:39 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0046894-007
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:51:49 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:42:11

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	3.295	3.295	0.000	89	1692	0.0100	0.0113	M
2 N-Nitrosodimethylamine	74	3.770	3.770	0.000	88	1574	0.0100	0.009898	M
3 Bis(2-chloroethyl)ether	93	6.725	6.725	0.000	95	2679	0.0100	0.009756	M
* 4 1,4-Dichlorobenzene-d4	152	7.096	7.096	0.000	84	58919	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.013	9.013	0.000	92	191823	0.2500	0.2500	
6 Naphthalene	128	9.033	9.033	0.000	93	10113	0.0100	0.0120	M
7 Quinoline	129	9.591	9.591	0.000	84	4184	0.0100	0.009707	M
8 2-Methylnaphthalene	142	10.141	10.141	0.000	96	6456	0.0100	0.0115	
$ 9 1-Methylnaphthalene-d10	152	10.227	10.227	0.000	99	5623	0.0100	0.0126	
10 1-Methylnaphthalene	142	10.288	10.288	0.000	95	6451	0.0100	0.0120	
11 Dimethyl phthalate	163	11.412	11.412	0.000	81	169948	0.2500	0.2713	
12 Acenaphthylene	152	11.559	11.559	0.000	99	9971	0.0100	0.0115	
* 13 Acenaphthene-d10	164	11.767	11.767	0.000	89	125786	0.2500	0.2500	
14 Acenaphthene	154	11.804	11.804	0.000	93	7337	0.0100	0.0125	
15 Dibenzofuran	168	12.043	12.043	0.000	99	10296	0.0100	0.0117	
16 Diethyl phthalate	149	12.363	12.363	0.000	100	153330	0.2500	0.2651	
17 Fluorene	166	12.472	12.472	0.000	97	8110	0.0100	0.0116	
18 N-Nitrosodiphenylamine	169	12.644	12.644	0.000	98	8439	0.0100	0.0102	
19 Hexachlorobenzene	284	13.144	13.144	0.000	92	3151	0.0100	0.0124	
* 20 Phenanthrene-d10	188	13.651	13.651	0.000	95	250555	0.2500	0.2500	
21 Phenanthrene	178	13.682	13.682	0.000	100	13943	0.0100	0.0125	
22 Anthracene	178	13.752	13.752	0.000	100	12462	0.0100	0.0119	
23 Di-n-butyl phthalate	149	14.468	14.468	0.000	100	249159	0.2500	0.2576	
$ 24 Fluoranthene-d10 (Surr)	212	15.339	15.339	0.000	97	17092	0.0100	0.0155	
25 Fluoranthene	202	15.370	15.370	0.000	99	16277	0.0100	0.0121	
26 Pyrene	202	15.721	15.721	0.000	98	17502	0.0100	0.0127	
27 Butyl benzyl phthalate	149	16.839	16.839	0.000	100	104544	0.2500	0.2483	
28 Benzo[a]anthracene	228	17.752	17.752	0.000	100	16869	0.0100	0.0126	
* 29 Chrysene-d12	240	17.767	17.767	0.000	57	268507	0.2500	0.2500	
30 Chrysene	228	17.813	17.813	0.000	100	18607	0.0100	0.0129	

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	17.898	17.898	0.000	97	142680	0.2500	0.2354	
32 Di-n-octyl phthalate	149	19.071	19.071	0.000	100	252217	0.2500	0.2498	
33 Benzo[b]fluoranthene	252	19.623	19.623	0.000	100	18569	0.0100	0.0127	
34 Benzo[k]fluoranthene	252	19.669	19.669	0.000	100	19981	0.0100	0.0129	
35 Benzo[e]pyrene	252	20.068	20.068	0.000	100	16418	0.0100	0.0120	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.114	20.114	0.000	98	16813	0.0100	0.0152	
37 Benzo[a]pyrene	252	20.153	20.153	0.000	100	17297	0.0100	0.0124	
* 38 Perylene-d12	264	20.245	20.245	0.000	98	305254	0.2500	0.2500	
39 Perylene	252	20.283	20.283	0.000	100	18254	0.0100	0.0128	M
40 Indeno[1,2,3-cd]pyrene	276	21.949	21.949	0.000	99	18304	0.0100	0.0123	M
41 Dibenz(a,h)anthracene	278	21.998	21.998	0.000	97	21441	0.0100	0.0123	
42 Benzo[g,h,i]perylene	276	22.415	22.415	0.000	95	22686	0.0100	0.0128	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00014 Amount Added: 1.00 Units: mL

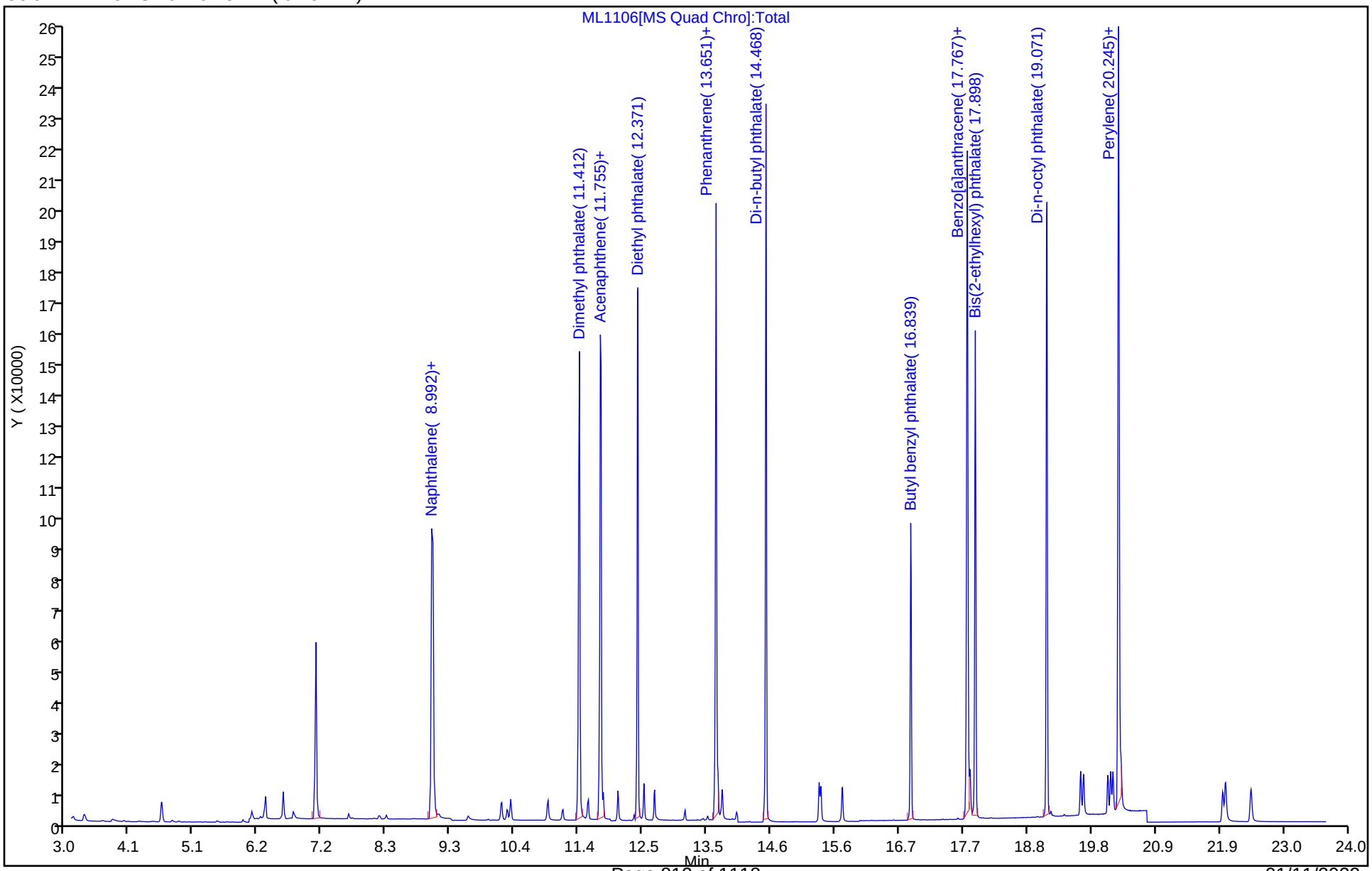
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Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	21-Dec-2021 12:24:39	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 Env, LLC

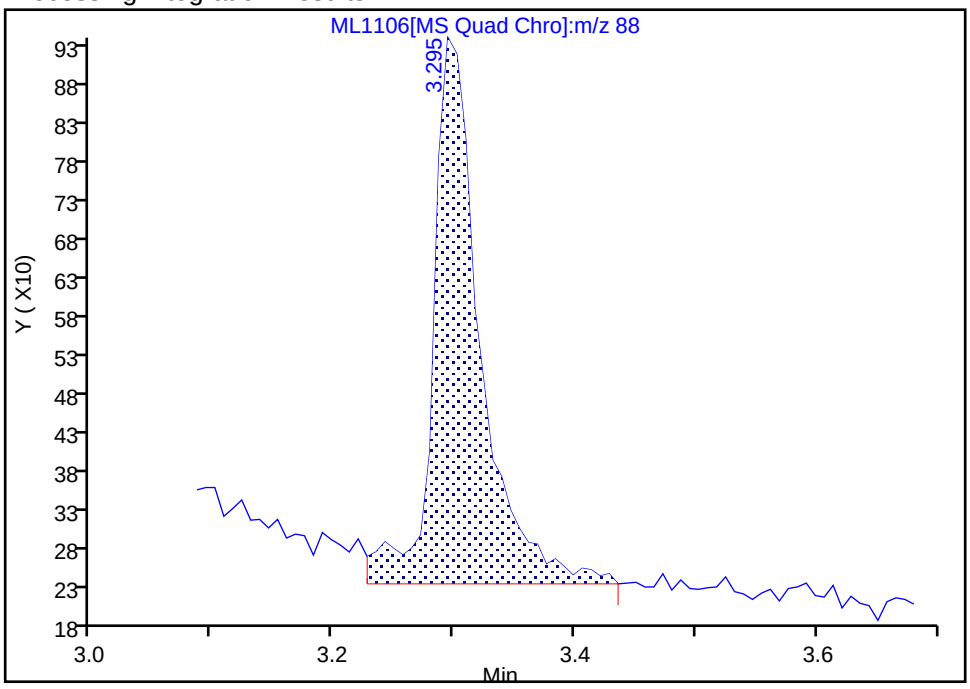
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Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

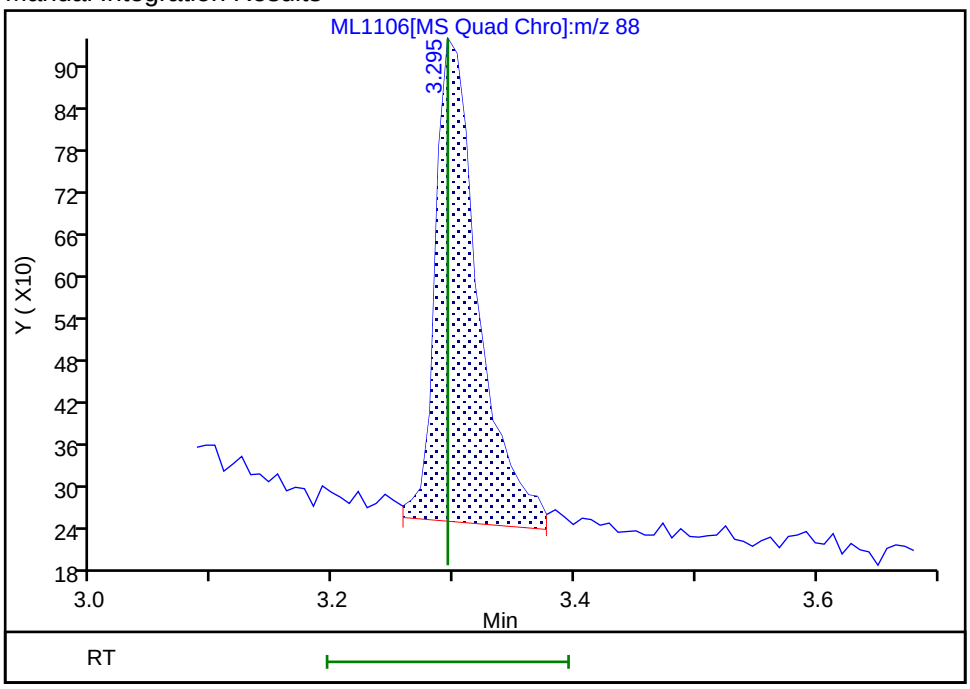
Processing Integration Results

RT: 3.29
Area: 1921
Amount: 0.012499
Amount Units: ug/ml



Manual Integration Results

RT: 3.29
Area: 1692
Amount: 0.011289
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:41:00

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

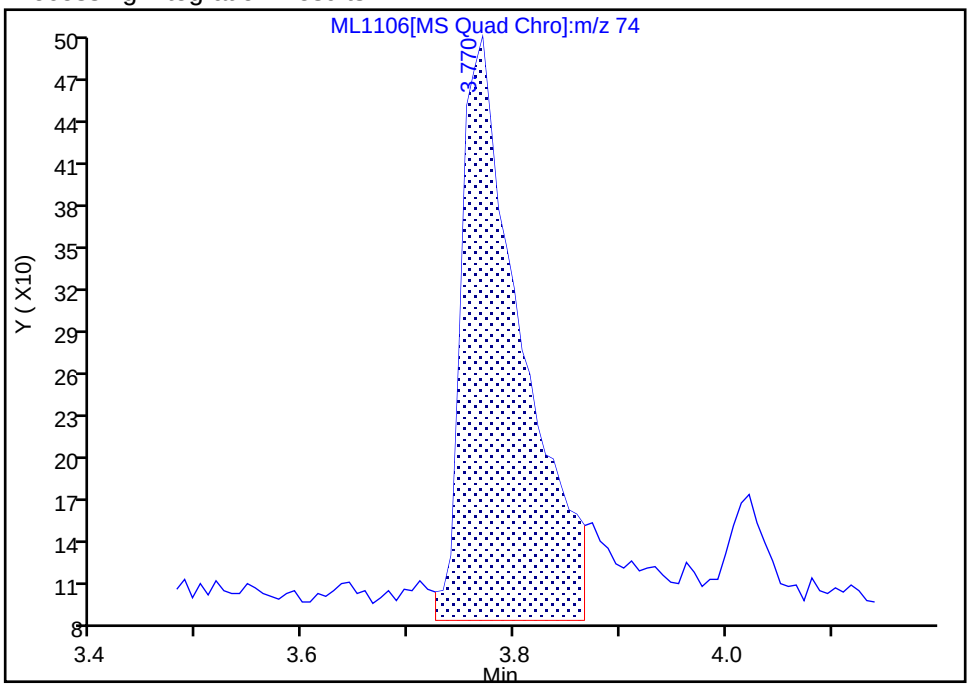
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Injection Date:	21-Dec-2021 12:24:39	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

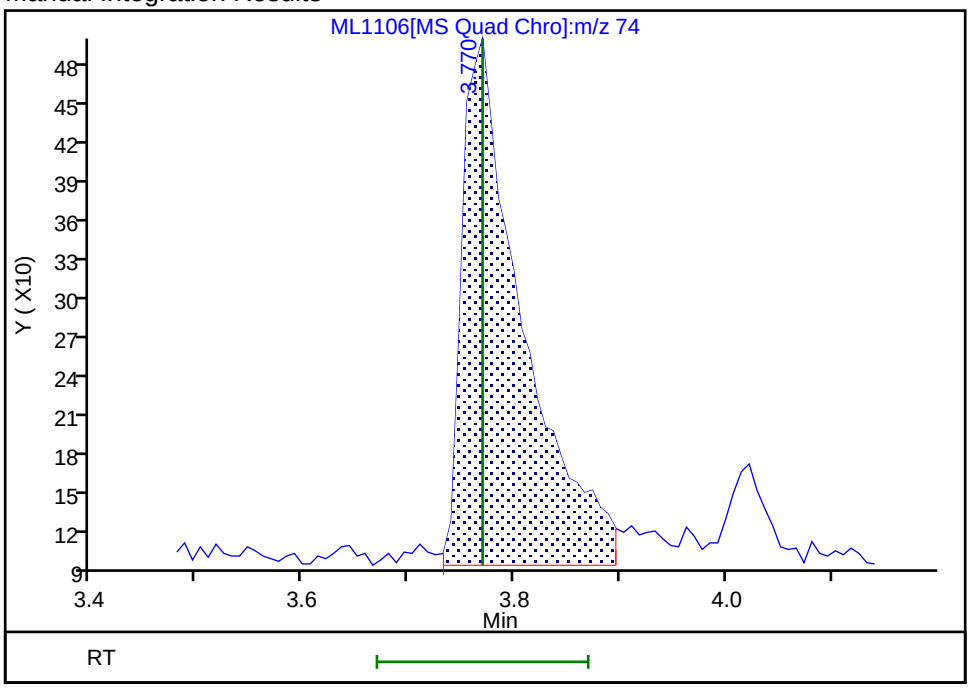
Processing Integration Results

RT: 3.77
Area: 1599
Amount: 0.010028
Amount Units: ug/ml



Manual Integration Results

RT: 3.77
Area: 1574
Amount: 0.009898
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:41:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

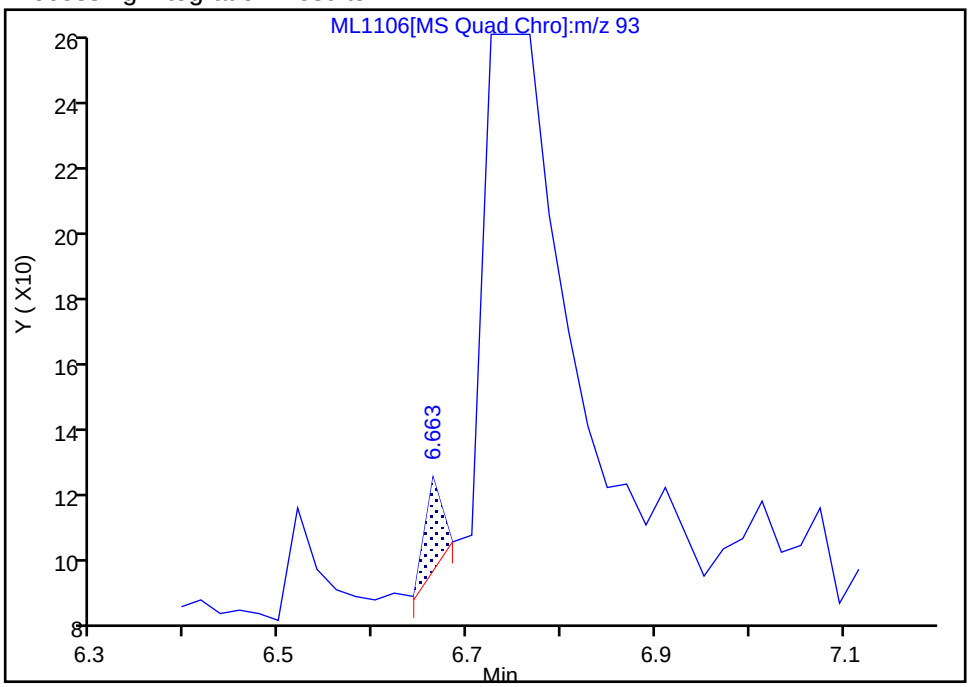
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Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

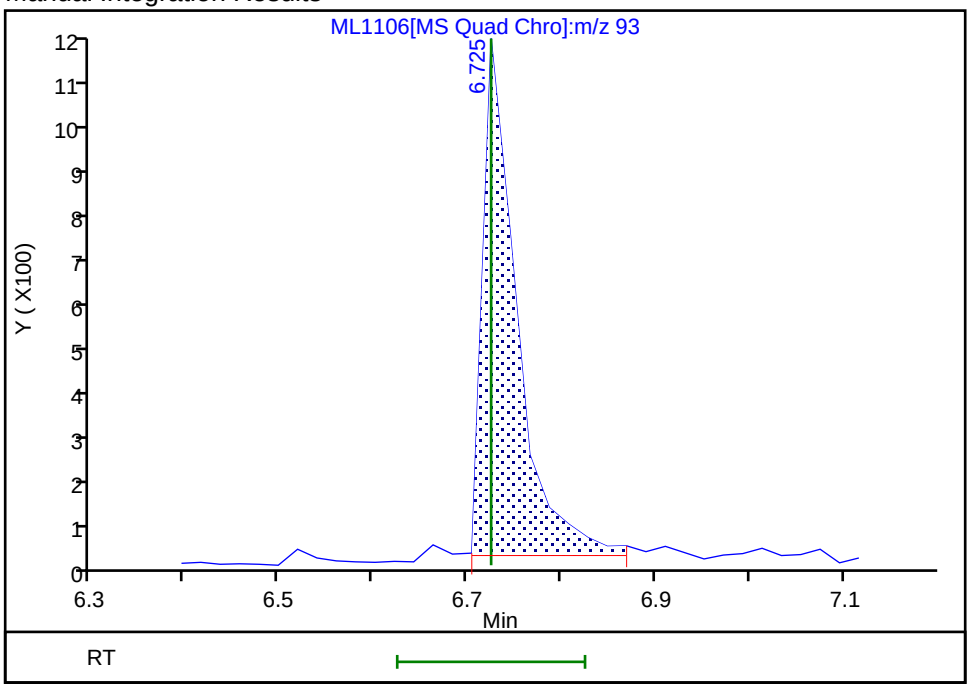
Processing Integration Results

RT: 6.66
Area: 34
Amount: 0.009831
Amount Units: ug/ml



Manual Integration Results

RT: 6.72
Area: 2679
Amount: 0.009756
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:41:14

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

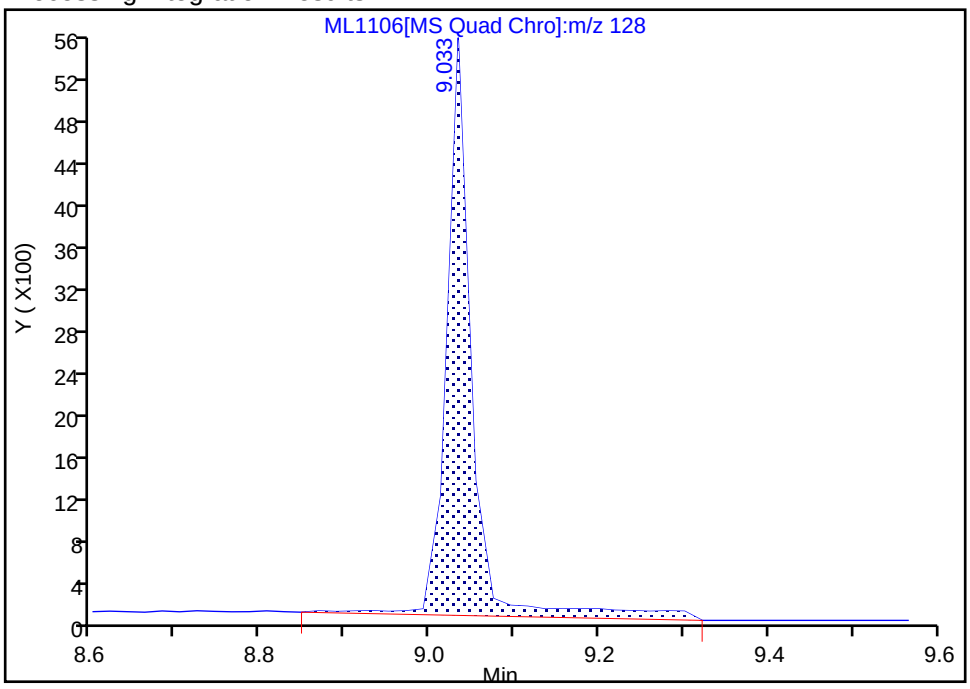
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Injection Date: 21-Dec-2021 12:24:39 Instrument ID: HP21585
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

6 Naphthalene, CAS: 91-20-3

Signal: 1

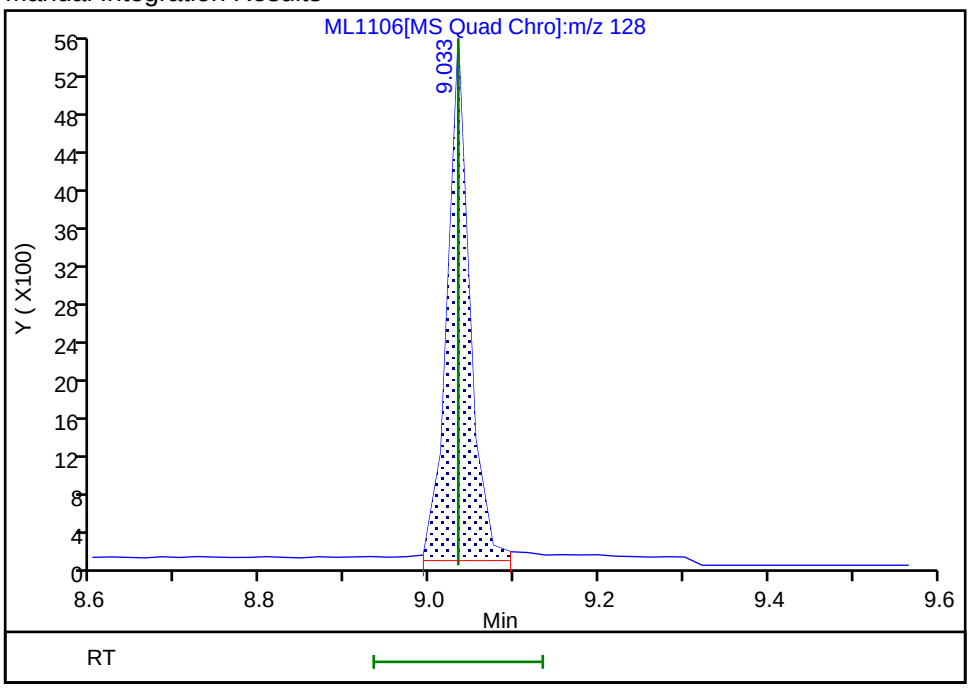
Processing Integration Results

RT: 9.03
Area: 11432
Amount: 0.013197
Amount Units: ug/ml



Manual Integration Results

RT: 9.03
Area: 10113
Amount: 0.011978
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:41:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

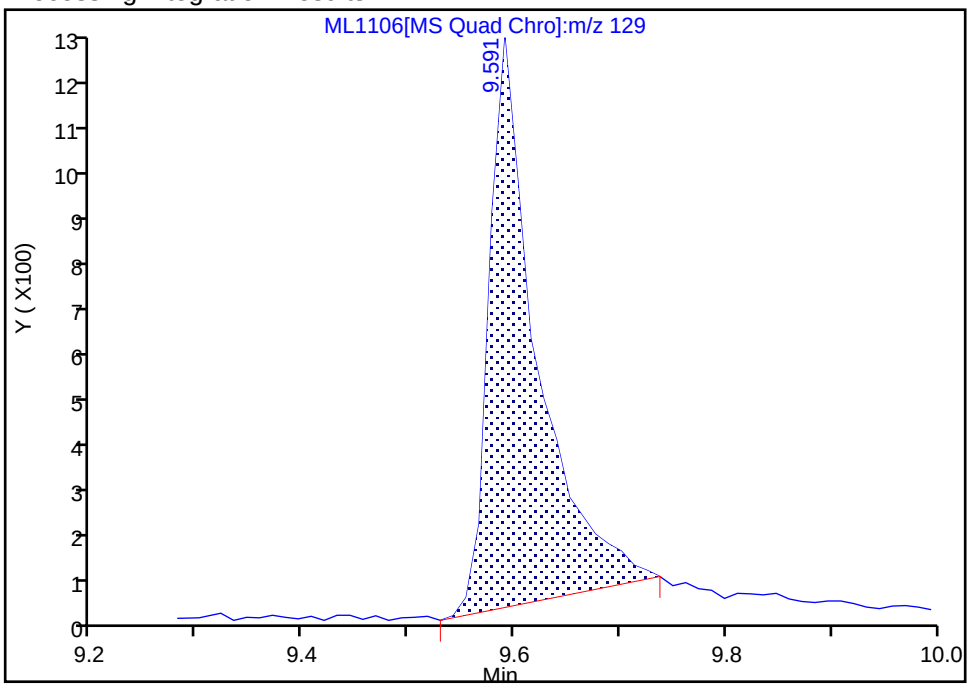
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Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

7 Quinoline, CAS: 91-22-5

Signal: 1

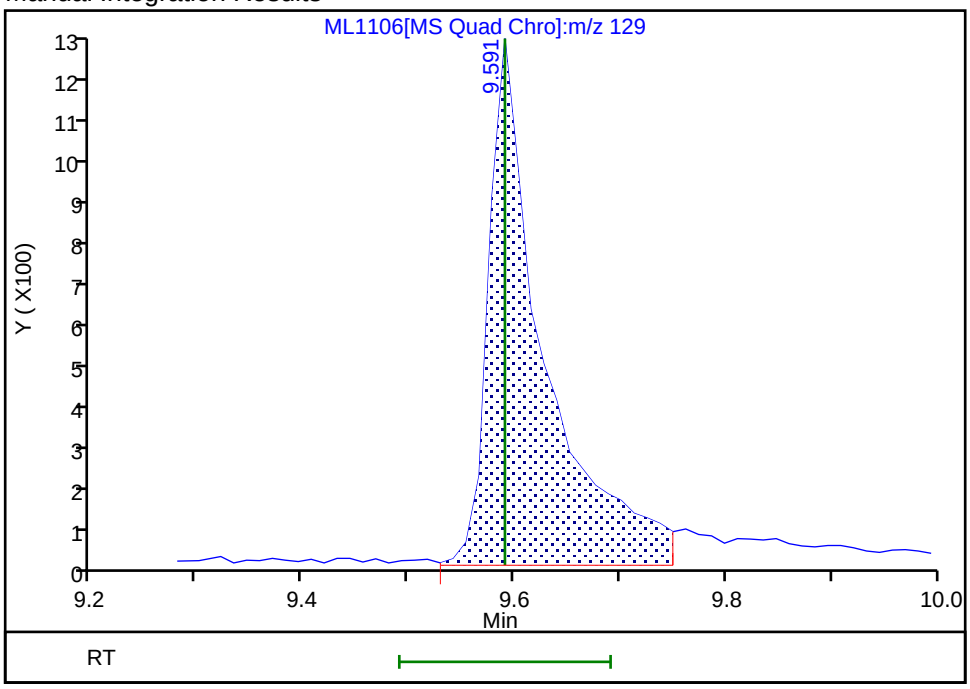
Processing Integration Results

RT: 9.59
Area: 3525
Amount: 0.008392
Amount Units: ug/ml



Manual Integration Results

RT: 9.59
Area: 4184
Amount: 0.009707
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:41:33

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

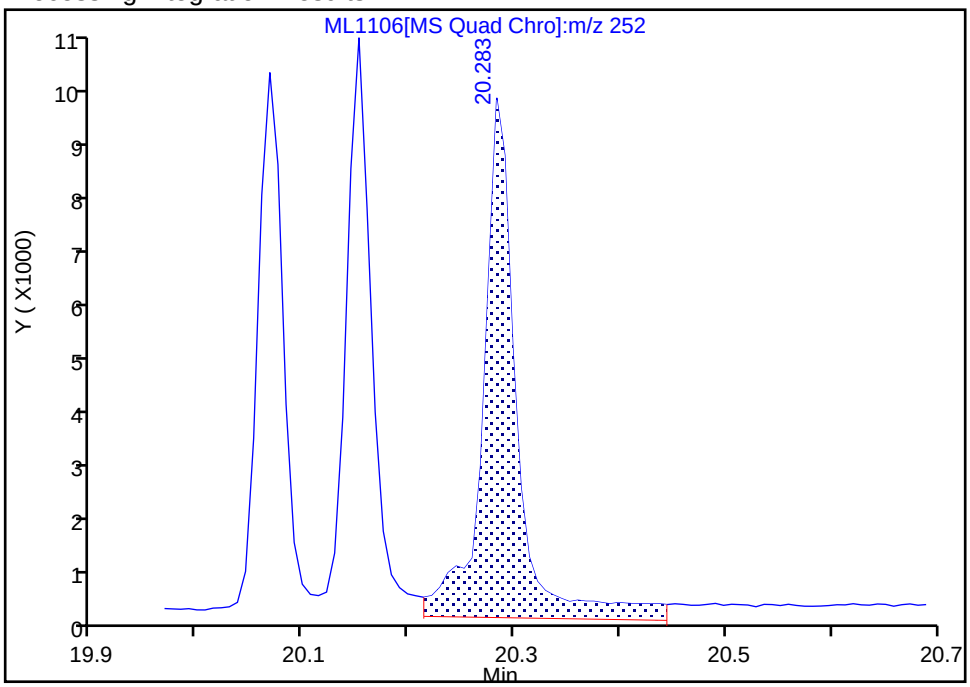
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Injection Date:	21-Dec-2021 12:24:39	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

39 Perylene, CAS: 198-55-0

Signal: 1

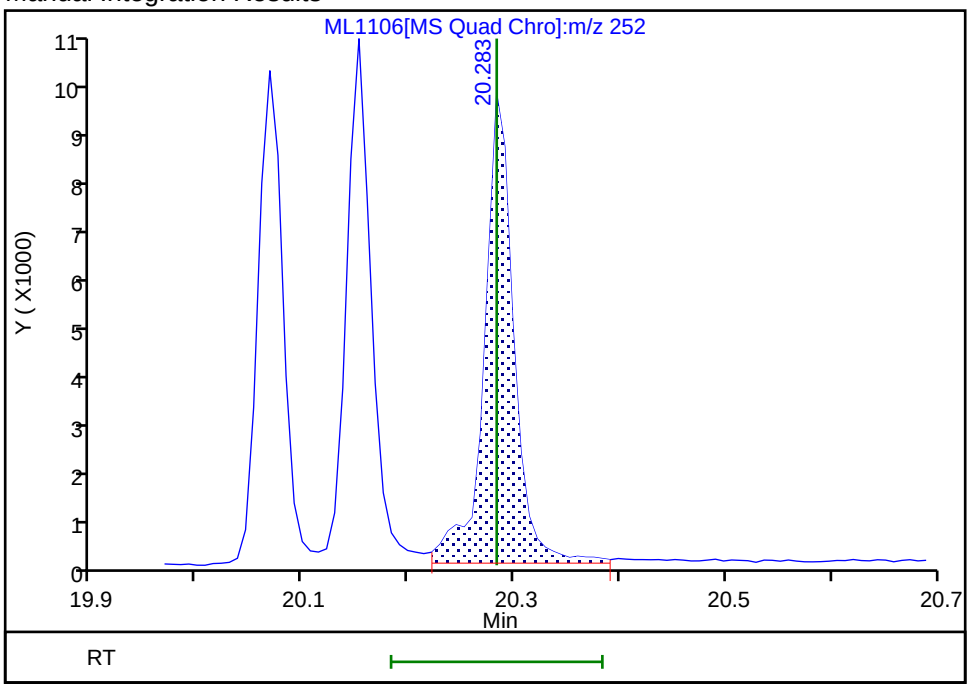
Processing Integration Results

RT: 20.28
Area: 21306
Amount: 0.010150
Amount Units: ug/ml



Manual Integration Results

RT: 20.28
Area: 18254
Amount: 0.012765
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:41:56

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

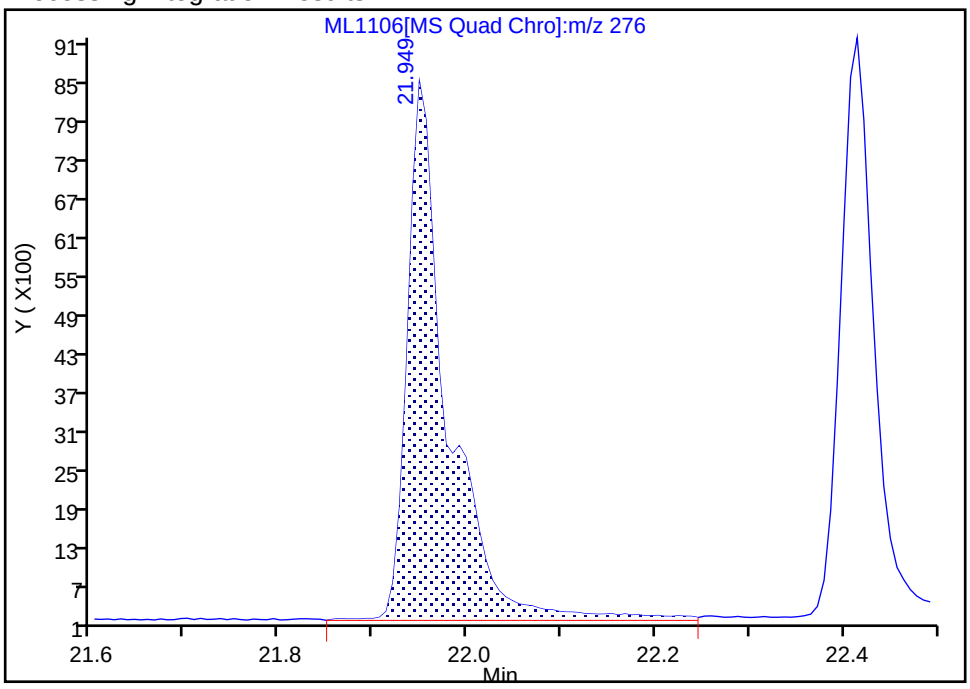
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Injection Date:	21-Dec-2021 12:24:39	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E 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

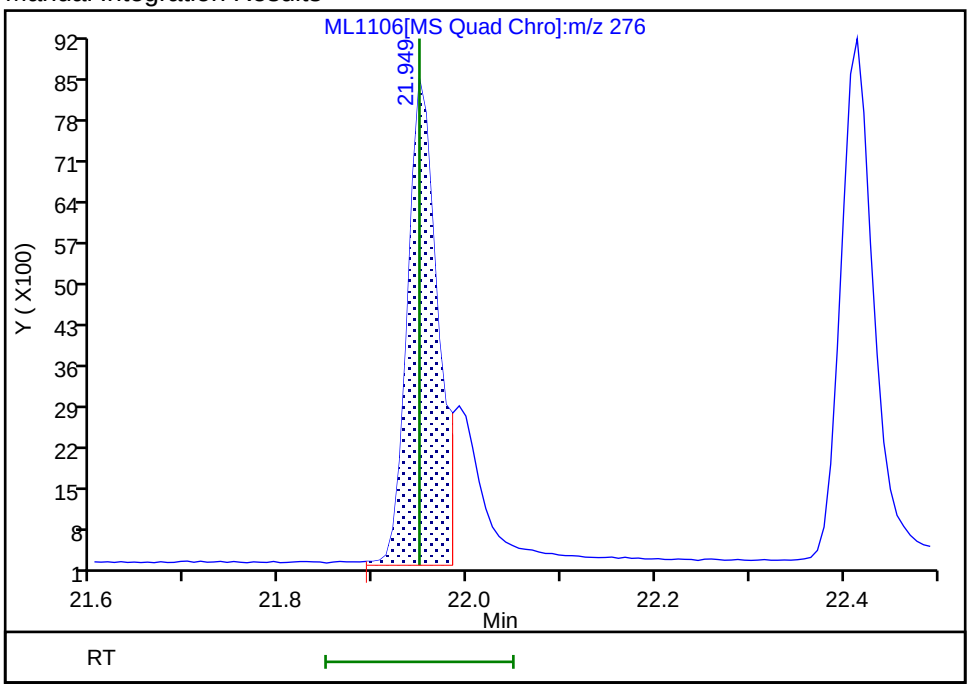
Processing Integration Results

RT: 21.95
Area: 24784
Amount: 0.010323
Amount Units: ug/ml



Manual Integration Results

RT: 21.95
Area: 18304
Amount: 0.012319
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:42:04

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

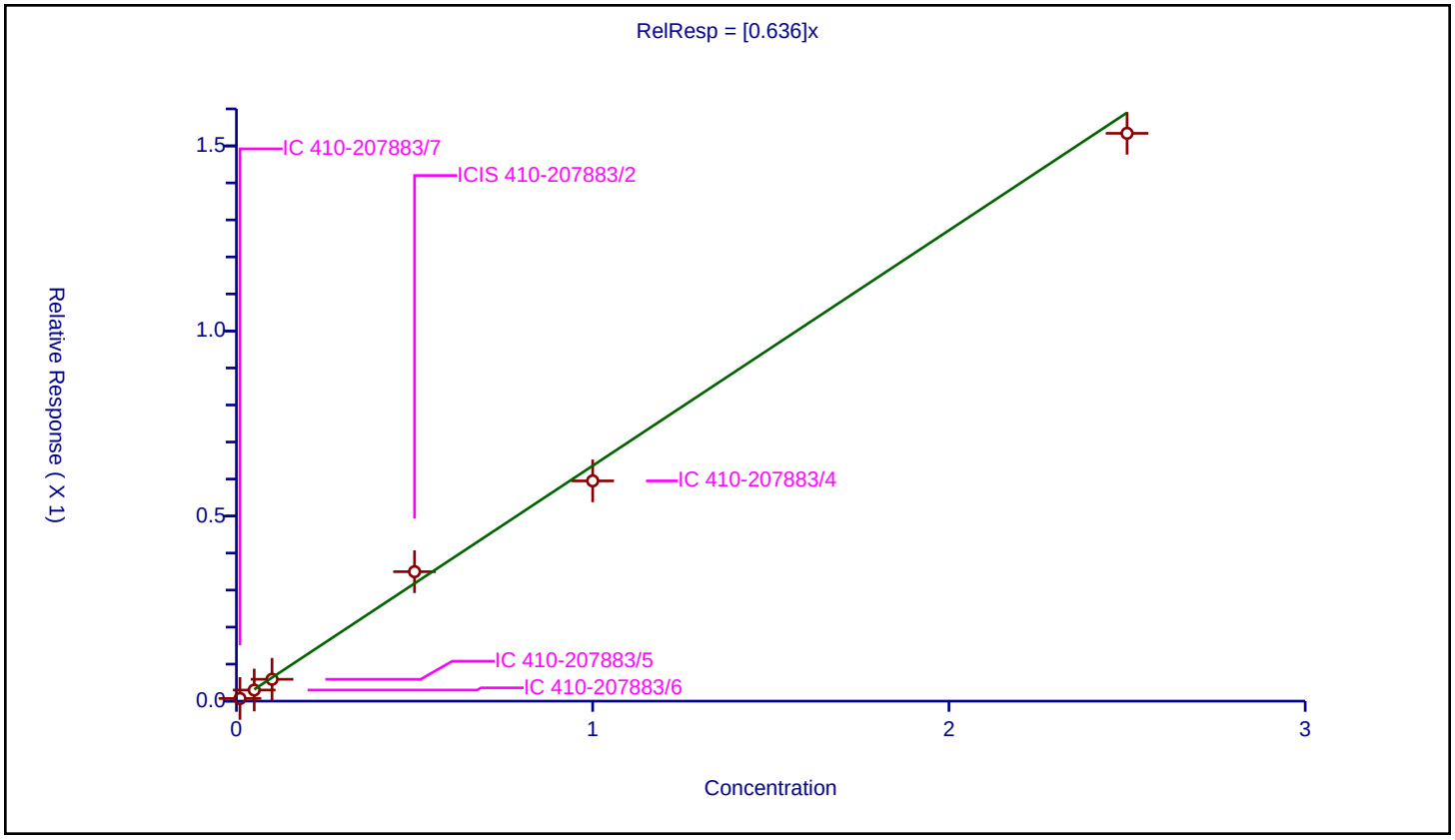
Curve Coefficients

Intercept:	0
Slope:	0.636

Error Coefficients

Standard Error:	197000
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 410-207883/7	0.01	0.007179	0.25	58919.0	0.717935	Y
2	IC 410-207883/6	0.05	0.029951	0.25	63688.0	0.599014	Y
3	IC 410-207883/5	0.1	0.05906	0.25	64536.0	0.590601	Y
4	ICIS 410-207883/2	0.5	0.349763	0.25	63558.0	0.699526	Y
5	IC 410-207883/4	1.0	0.595039	0.25	65336.0	0.595039	Y
6	IC 410-207883/3	2.5	1.534052	0.25	65723.0	0.613621	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

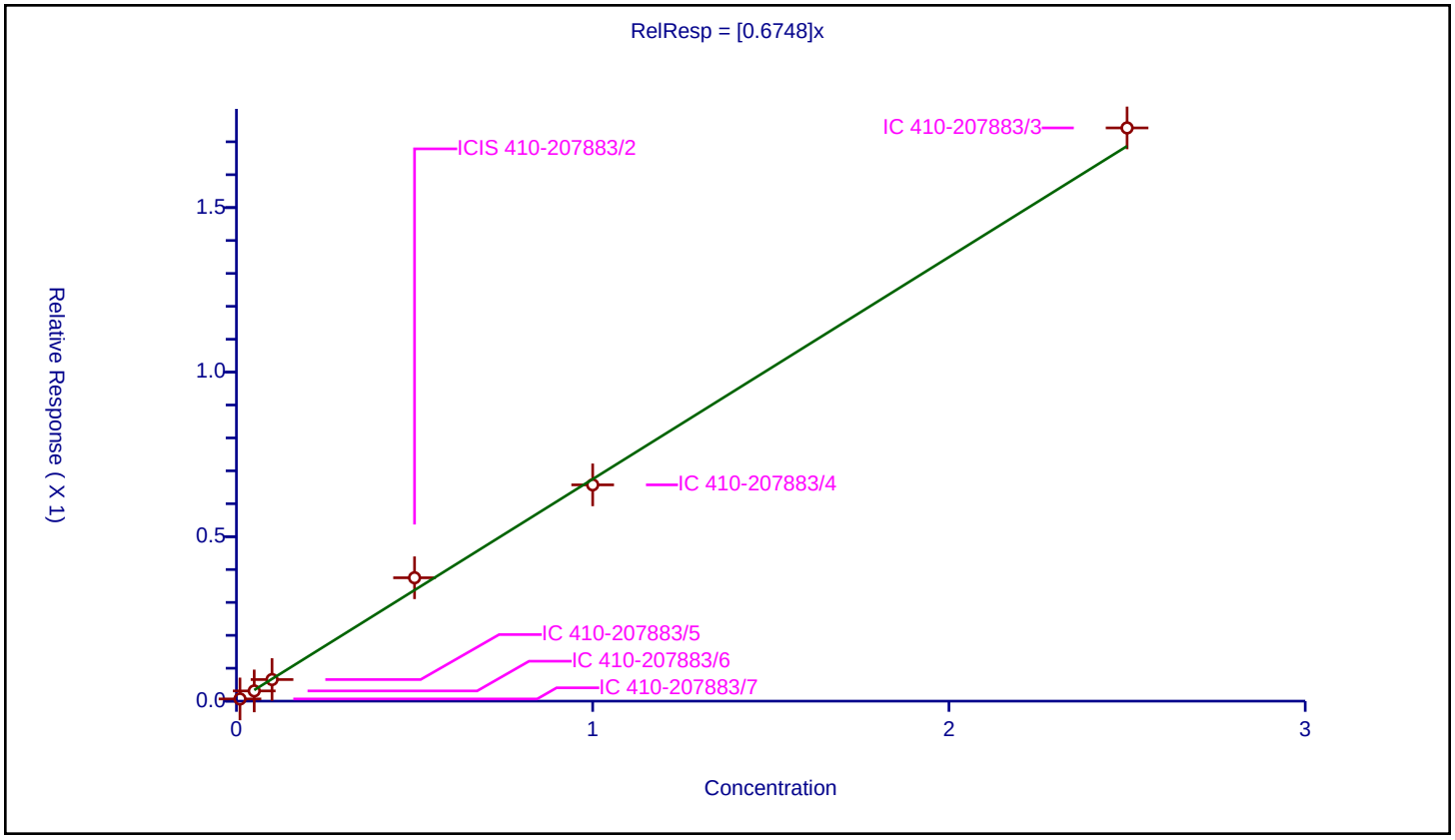
Curve Coefficients

Intercept:	0
Slope:	0.6748

Error Coefficients

Standard Error:	223000
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 410-207883/7	0.01	0.006679	0.25	58919.0	0.667866	Y
2	IC 410-207883/6	0.05	0.031014	0.25	63688.0	0.62029	Y
3	IC 410-207883/5	0.1	0.065638	0.25	64536.0	0.656378	Y
4	ICIS 410-207883/2	0.5	0.374965	0.25	63558.0	0.749929	Y
5	IC 410-207883/4	1.0	0.657348	0.25	65336.0	0.657348	Y
6	IC 410-207883/3	2.5	1.742198	0.25	65723.0	0.696879	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

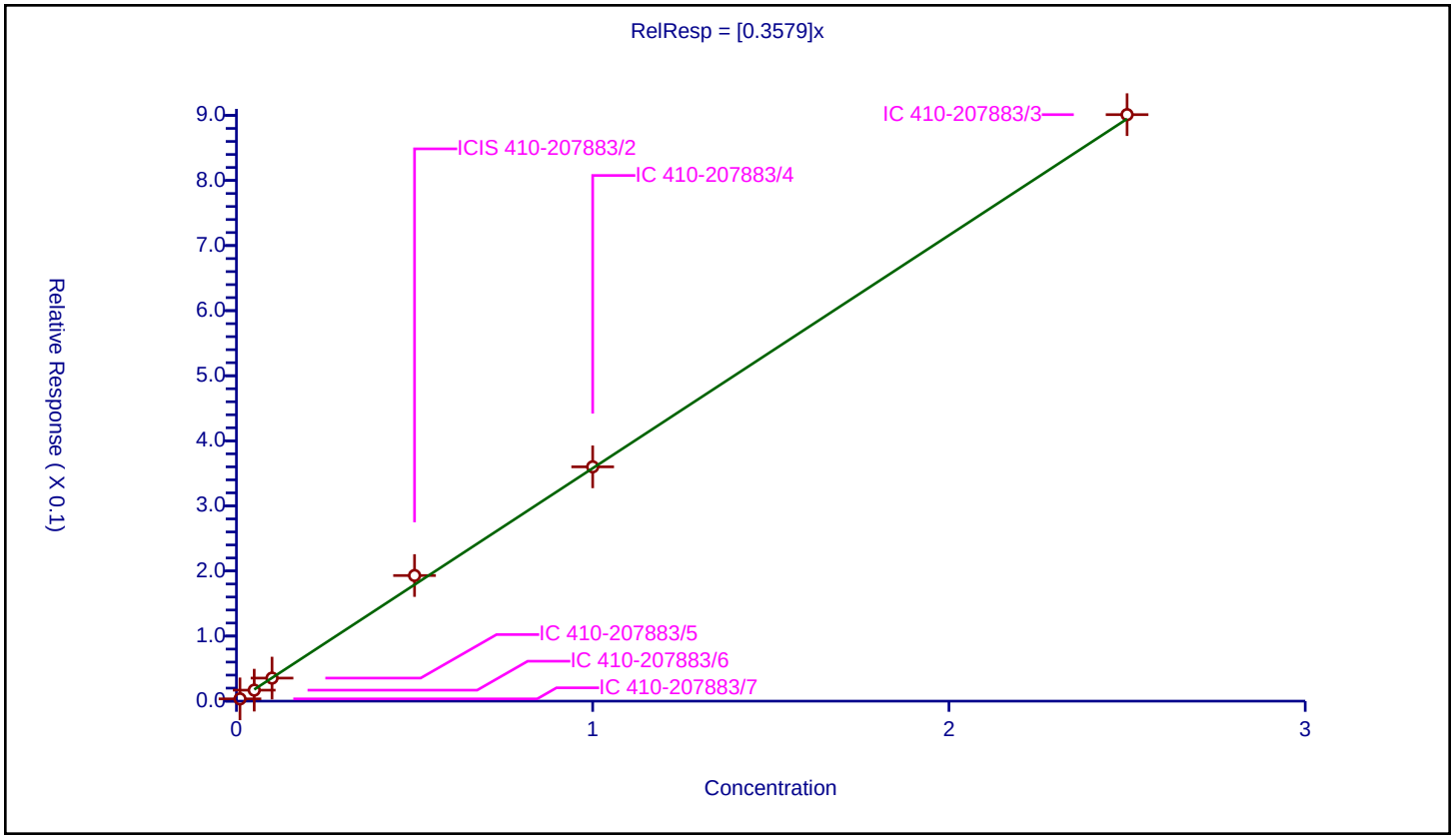
Curve Coefficients

Intercept:	0
Slope:	0.3579

Error Coefficients

Standard Error:	404000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.003491	0.25	191823.0	0.34915	Y
2	IC 410-207883/6	0.05	0.016864	0.25	210803.0	0.337282	Y
3	IC 410-207883/5	0.1	0.035429	0.25	211736.0	0.354286	Y
4	ICIS 410-207883/2	0.5	0.193001	0.25	215330.0	0.386003	Y
5	IC 410-207883/4	1.0	0.360042	0.25	217120.0	0.360042	Y
6	IC 410-207883/3	2.5	0.90114	0.25	230041.0	0.360456	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

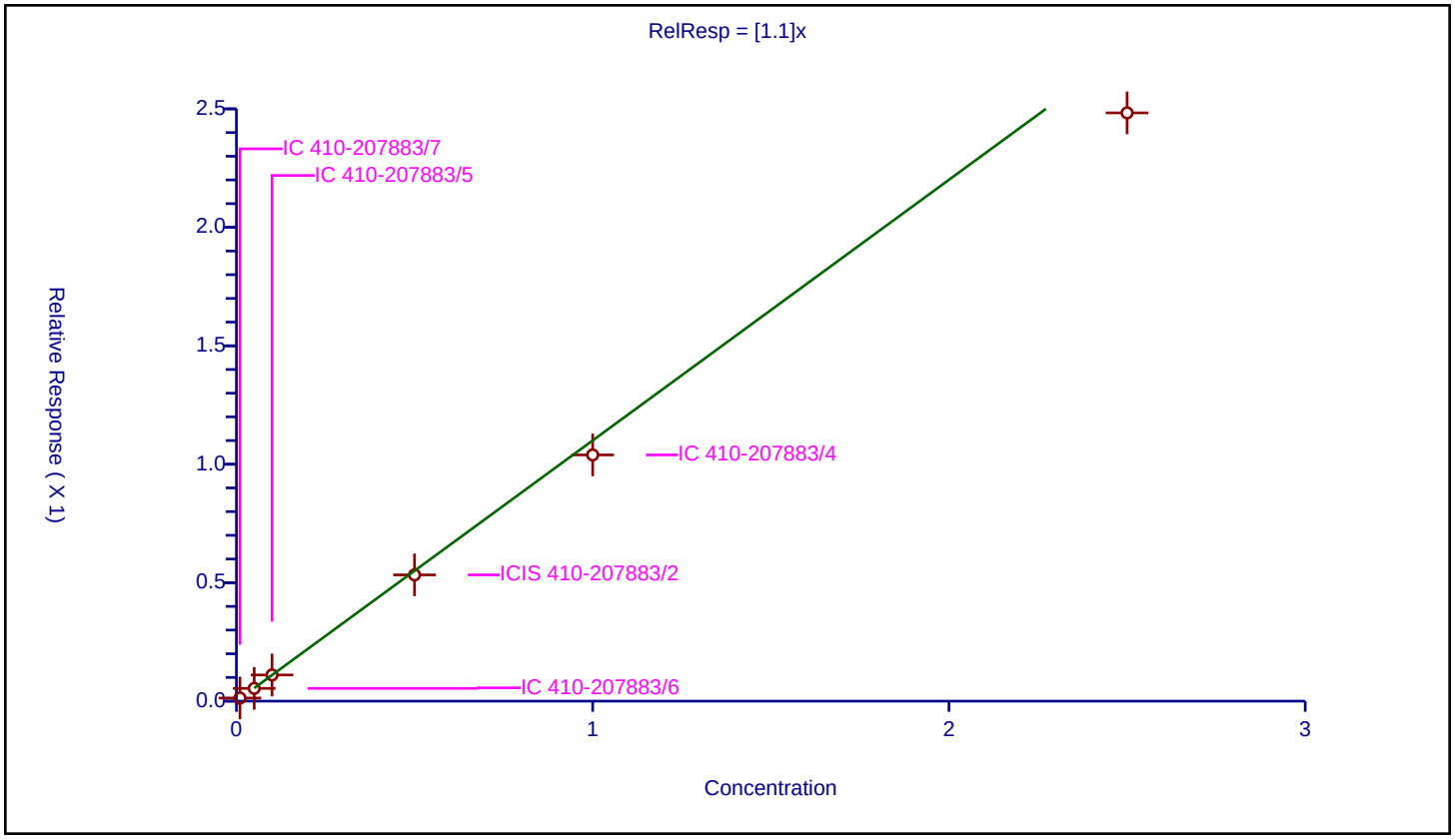
Curve Coefficients

Intercept:	0
Slope:	1.1

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.01318	0.25	191823.0	1.318012	Y
2	IC 410-207883/6	0.05	0.053952	0.25	210803.0	1.079041	Y
3	IC 410-207883/5	0.1	0.110621	0.25	211736.0	1.106212	Y
4	ICIS 410-207883/2	0.5	0.533014	0.25	215330.0	1.066029	Y
5	IC 410-207883/4	1.0	1.03937	0.25	217120.0	1.03937	Y
6	IC 410-207883/3	2.5	2.483143	0.25	230041.0	0.993257	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

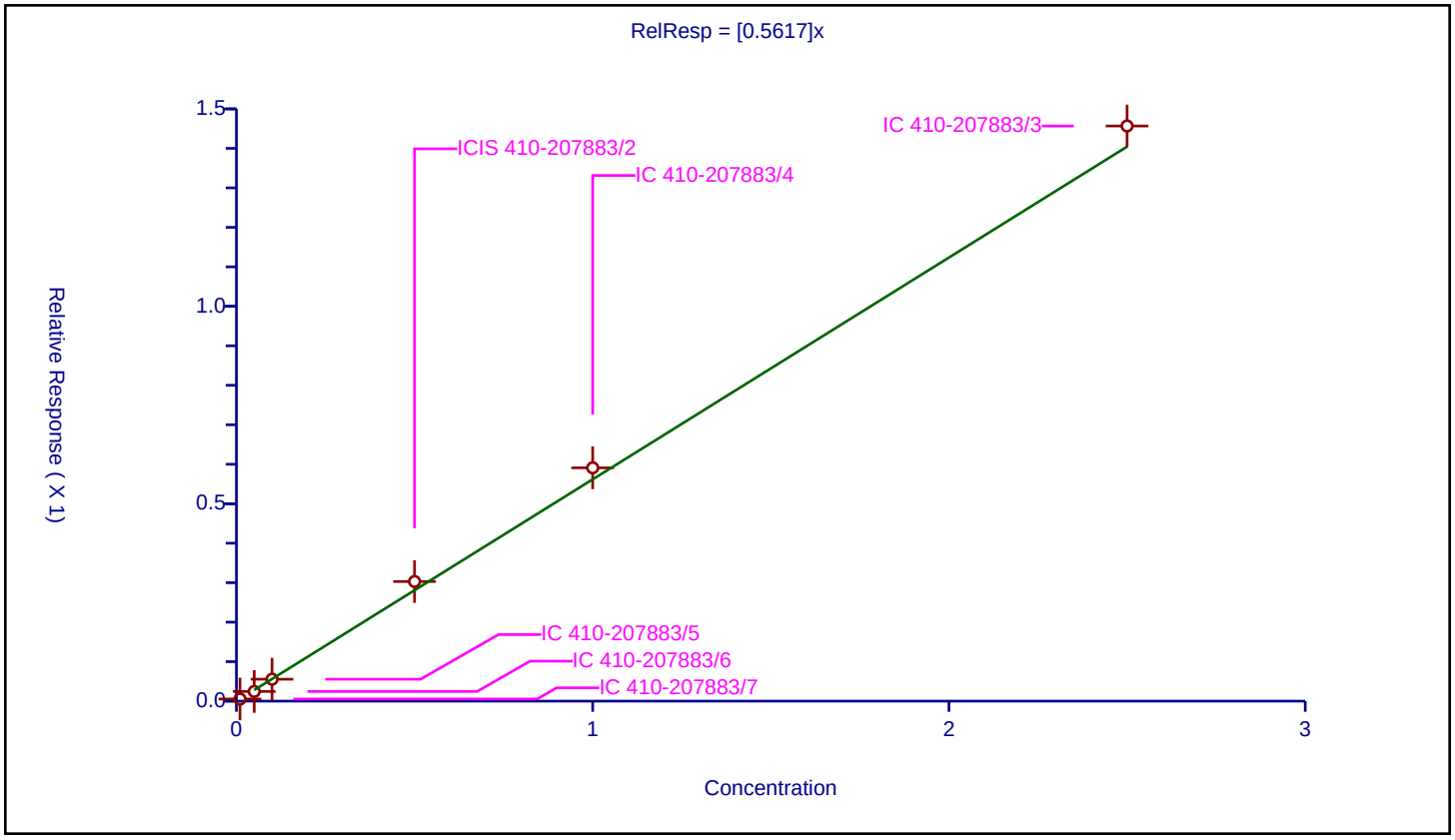
Curve Coefficients

Intercept:	0
Slope:	0.5617

Error Coefficients

Standard Error:	653000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.005453	0.25	191823.0	0.545294	Y
2	IC 410-207883/6	0.05	0.024493	0.25	210803.0	0.489865	Y
3	IC 410-207883/5	0.1	0.055572	0.25	211736.0	0.555716	Y
4	ICIS 410-207883/2	0.5	0.302972	0.25	215330.0	0.605944	Y
5	IC 410-207883/4	1.0	0.590958	0.25	217120.0	0.590958	Y
6	IC 410-207883/3	2.5	1.456722	0.25	230041.0	0.582689	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

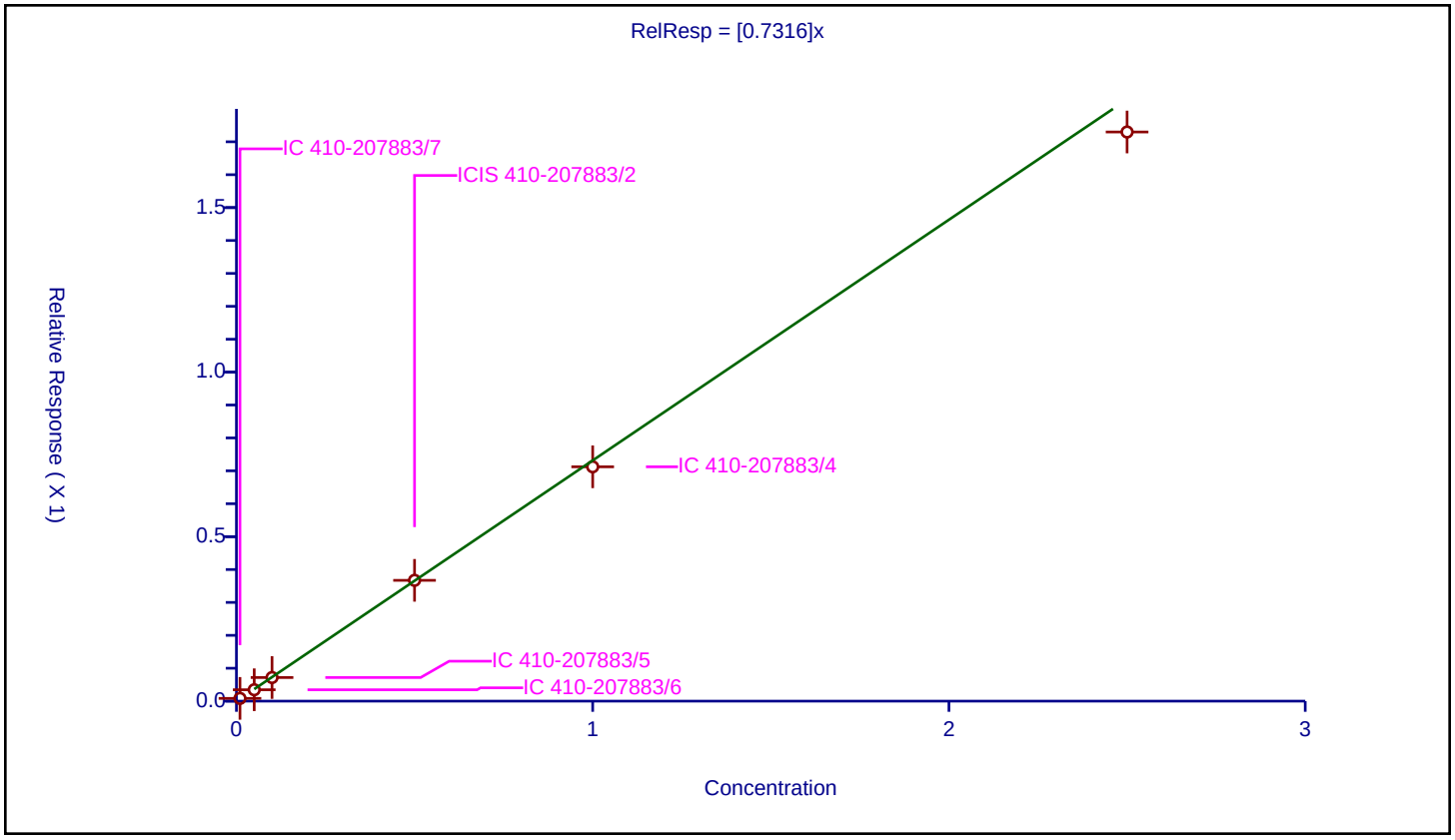
Curve Coefficients

Intercept:	0
Slope:	0.7316

Error Coefficients

Standard Error:	777000
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 410-207883/7	0.01	0.008414	0.25	191823.0	0.841401	Y
2	IC 410-207883/6	0.05	0.034581	0.25	210803.0	0.691617	Y
3	IC 410-207883/5	0.1	0.071784	0.25	211736.0	0.71784	Y
4	ICIS 410-207883/2	0.5	0.367177	0.25	215330.0	0.734354	Y
5	IC 410-207883/4	1.0	0.712247	0.25	217120.0	0.712247	Y
6	IC 410-207883/3	2.5	1.729804	0.25	230041.0	0.691921	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

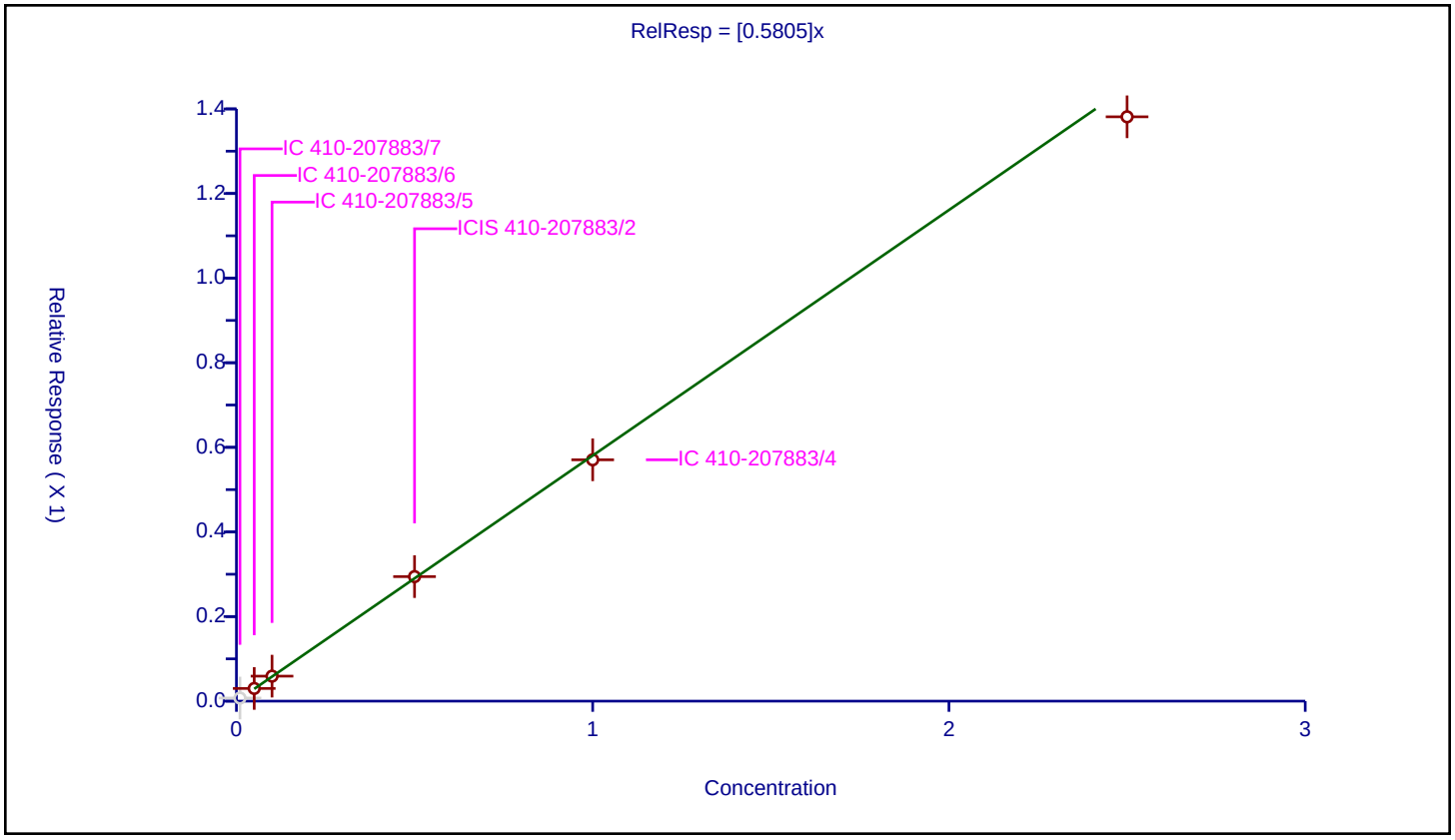
Curve Coefficients

Intercept:	0
Slope:	0.5805

Error Coefficients

Standard Error:	694000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.007328	0.25	191823.0	0.732837	N
2	IC 410-207883/6	0.05	0.029981	0.25	210803.0	0.599612	Y
3	IC 410-207883/5	0.1	0.059098	0.25	211736.0	0.590984	Y
4	ICIS 410-207883/2	0.5	0.294363	0.25	215330.0	0.588727	Y
5	IC 410-207883/4	1.0	0.570515	0.25	217120.0	0.570515	Y
6	IC 410-207883/3	2.5	1.381286	0.25	230041.0	0.552515	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

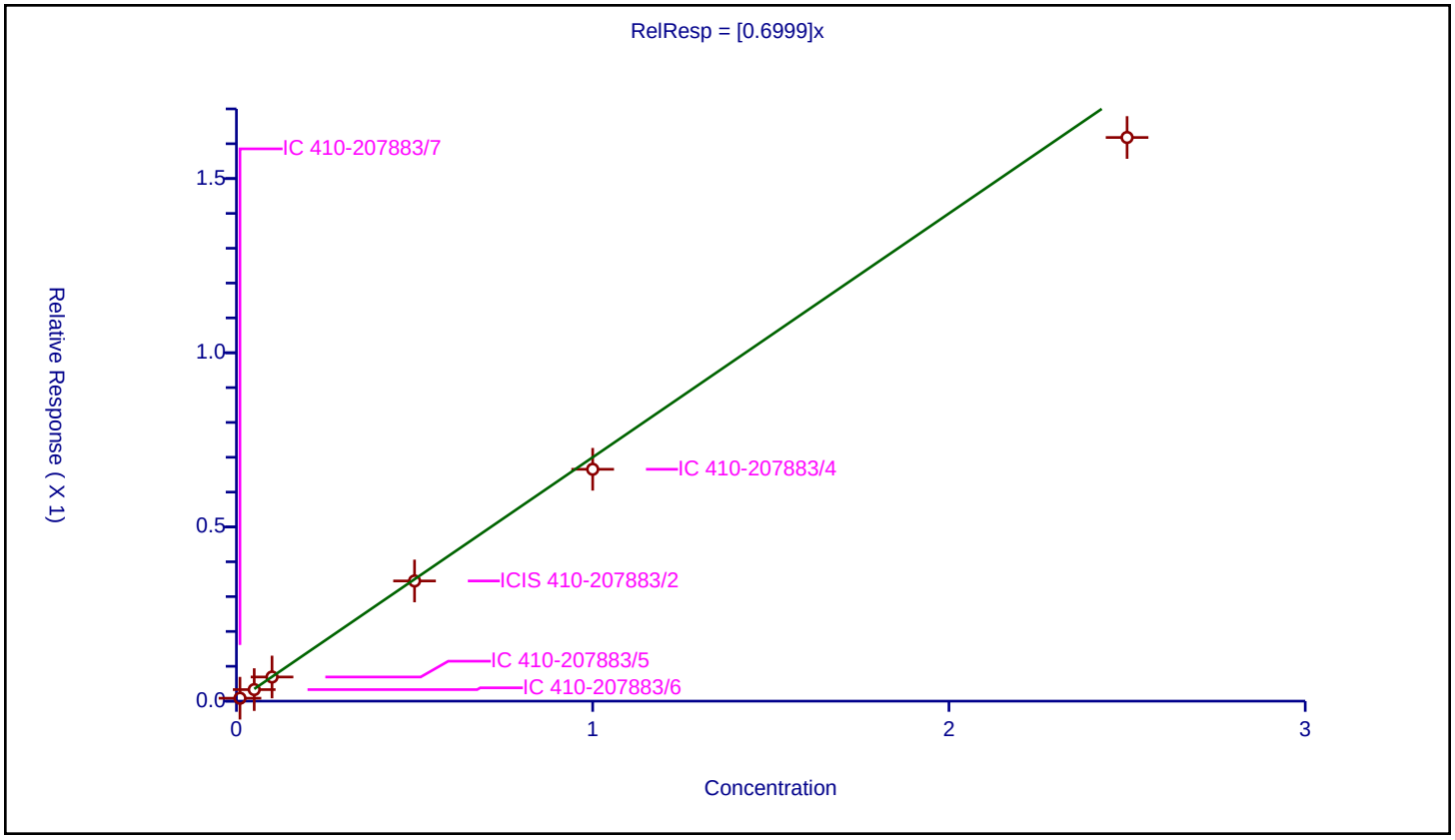
Curve Coefficients

Intercept:	0
Slope:	0.6999

Error Coefficients

Standard Error:	727000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.008407	0.25	191823.0	0.840749	Y
2	IC 410-207883/6	0.05	0.033161	0.25	210803.0	0.663226	Y
3	IC 410-207883/5	0.1	0.069294	0.25	211736.0	0.692938	Y
4	ICIS 410-207883/2	0.5	0.344951	0.25	215330.0	0.689902	Y
5	IC 410-207883/4	1.0	0.665517	0.25	217120.0	0.665517	Y
6	IC 410-207883/3	2.5	1.617929	0.25	230041.0	0.647172	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

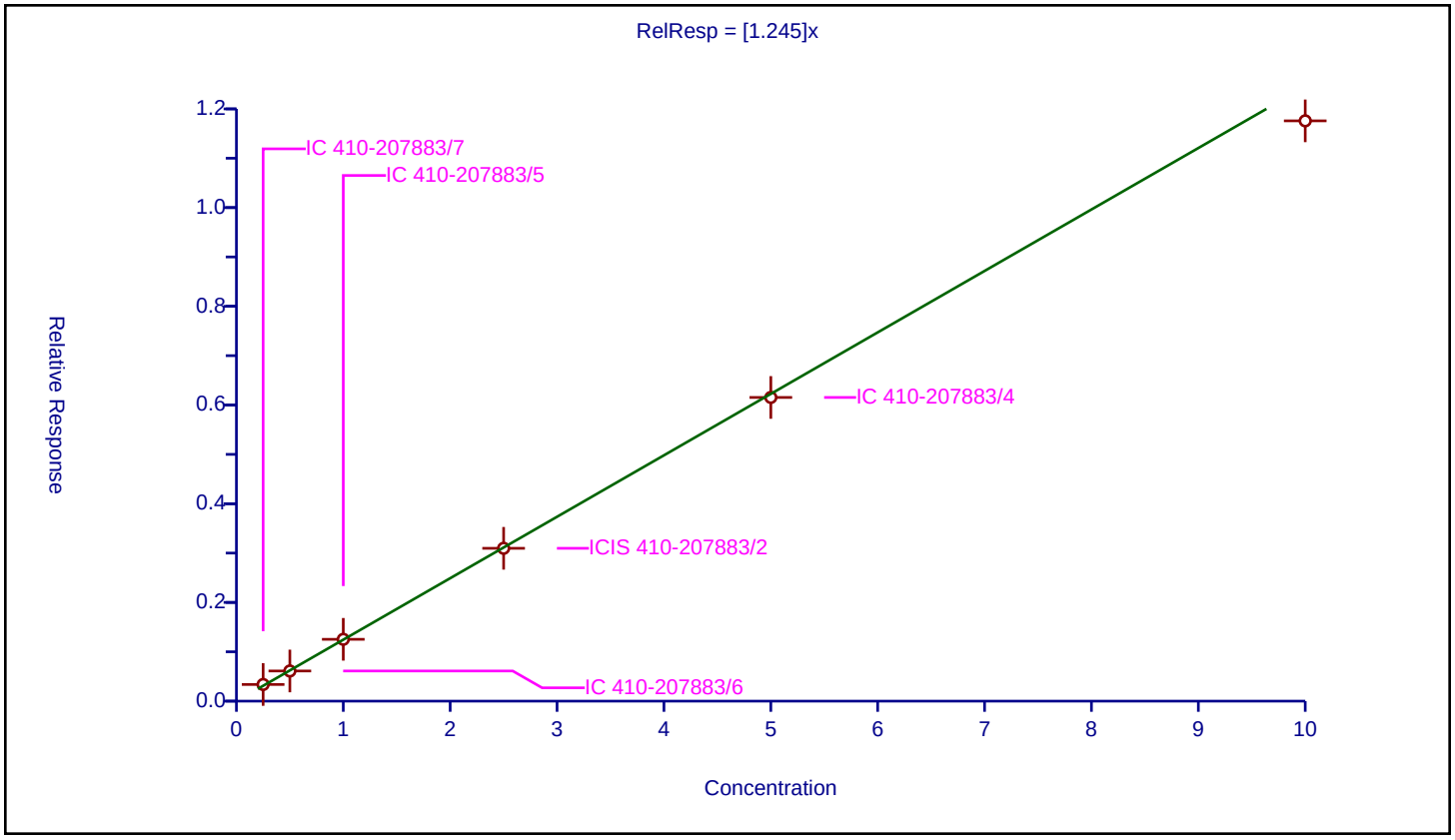
Curve Coefficients

Intercept:	0
Slope:	1.245

Error Coefficients

Standard Error:	3500000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.25	0.337772	0.25	125786.0	1.351088	Y
2	IC 410-207883/6	0.5	0.610954	0.25	137724.0	1.221908	Y
3	IC 410-207883/5	1.0	1.252926	0.25	142331.0	1.252926	Y
4	ICIS 410-207883/2	2.5	3.096843	0.25	135017.0	1.238737	Y
5	IC 410-207883/4	5.0	6.153504	0.25	141190.0	1.230701	Y
6	IC 410-207883/3	10.0	11.757822	0.25	143757.0	1.175782	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

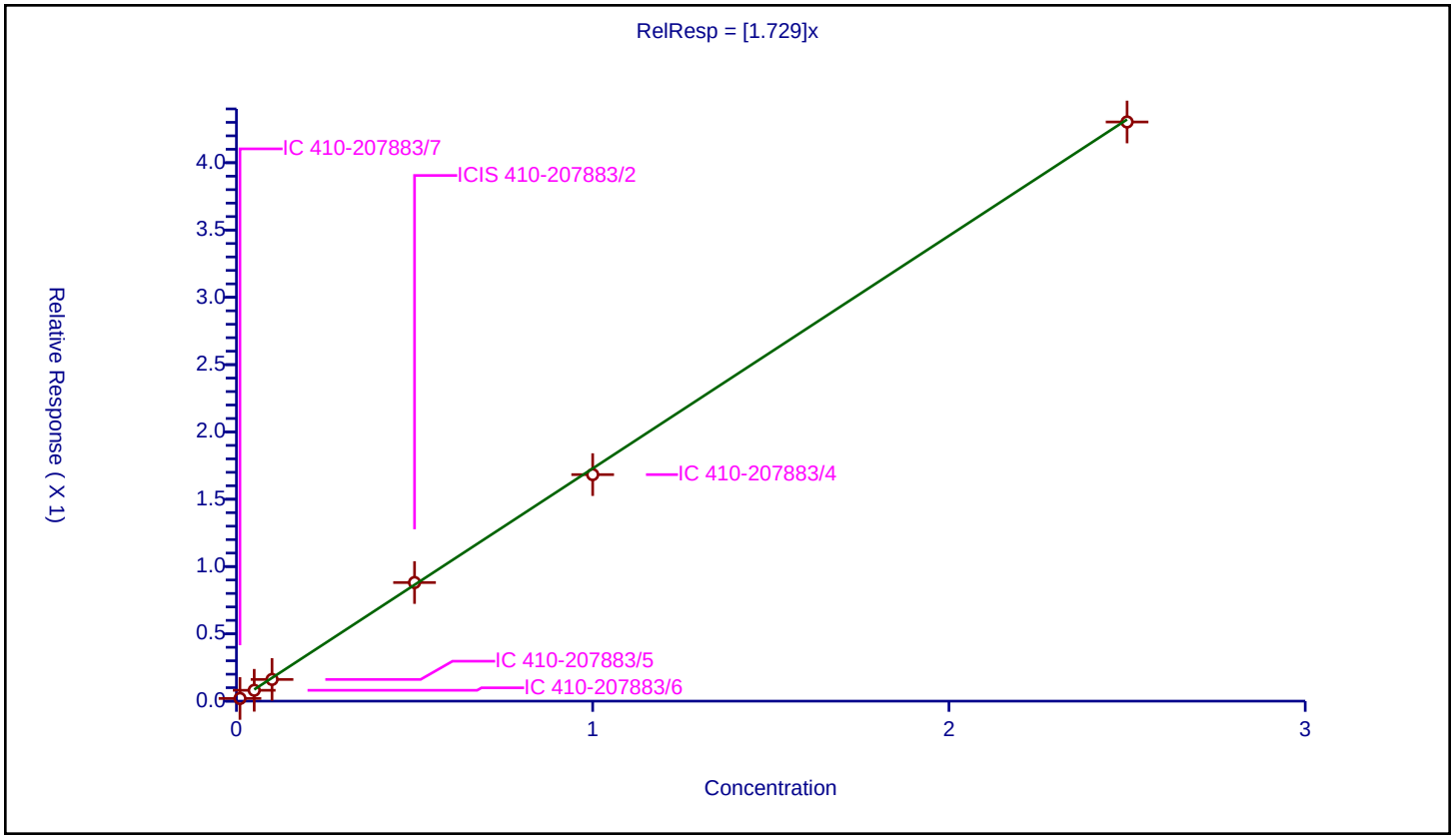
Curve Coefficients

Intercept:	0
Slope:	1.729

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.019817	0.25	125786.0	1.981739	Y
2	IC 410-207883/6	0.05	0.080616	0.25	137724.0	1.612319	Y
3	IC 410-207883/5	0.1	0.161112	0.25	142331.0	1.611121	Y
4	ICIS 410-207883/2	0.5	0.881152	0.25	135017.0	1.762304	Y
5	IC 410-207883/4	1.0	1.682954	0.25	141190.0	1.682954	Y
6	IC 410-207883/3	2.5	4.302938	0.25	143757.0	1.721175	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

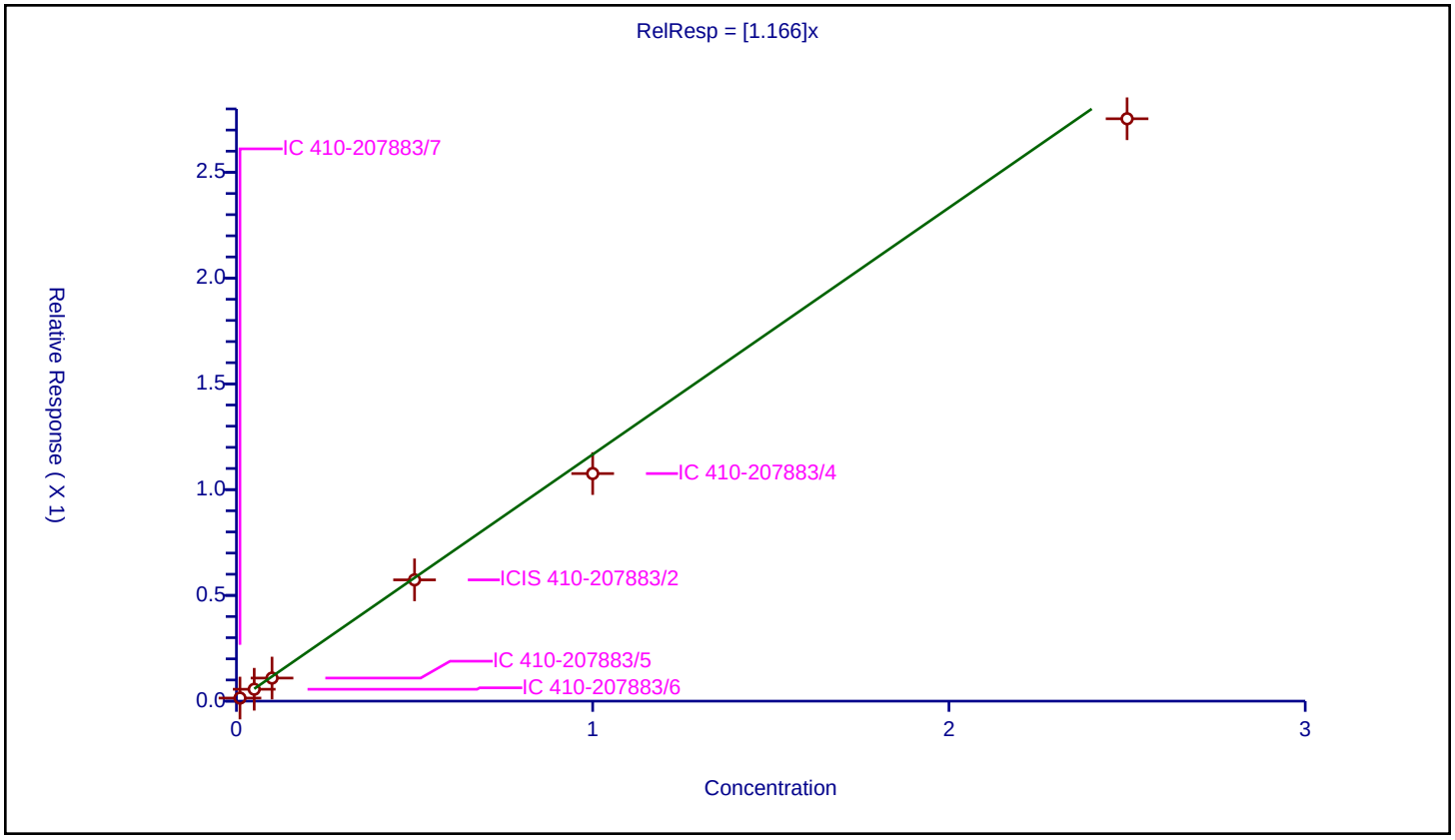
Curve Coefficients

Intercept:	0
Slope:	1.166

Error Coefficients

Standard Error:	772000
Relative Standard Error:	12.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.014582	0.25	125786.0	1.458231	Y
2	IC 410-207883/6	0.05	0.056227	0.25	137724.0	1.124532	Y
3	IC 410-207883/5	0.1	0.109098	0.25	142331.0	1.090978	Y
4	ICIS 410-207883/2	0.5	0.573341	0.25	135017.0	1.146682	Y
5	IC 410-207883/4	1.0	1.07597	0.25	141190.0	1.07597	Y
6	IC 410-207883/3	2.5	2.753433	0.25	143757.0	1.101373	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

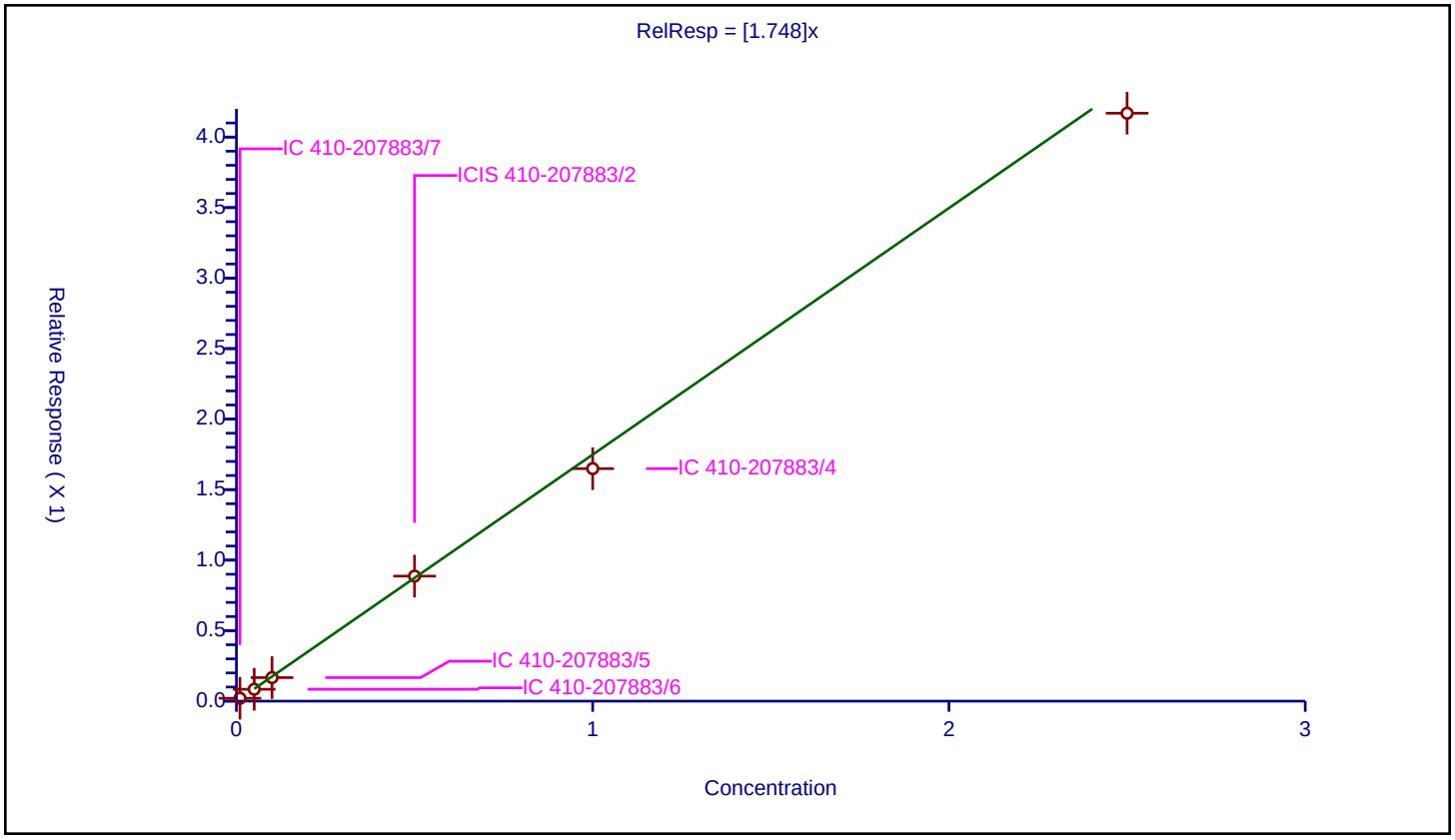
Curve Coefficients

Intercept:	0
Slope:	1.748

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.020463	0.25	125786.0	2.046333	Y
2	IC 410-207883/6	0.05	0.084208	0.25	137724.0	1.684165	Y
3	IC 410-207883/5	0.1	0.166908	0.25	142331.0	1.669085	Y
4	ICIS 410-207883/2	0.5	0.886686	0.25	135017.0	1.773373	Y
5	IC 410-207883/4	1.0	1.648869	0.25	141190.0	1.648869	Y
6	IC 410-207883/3	2.5	4.169214	0.25	143757.0	1.667686	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

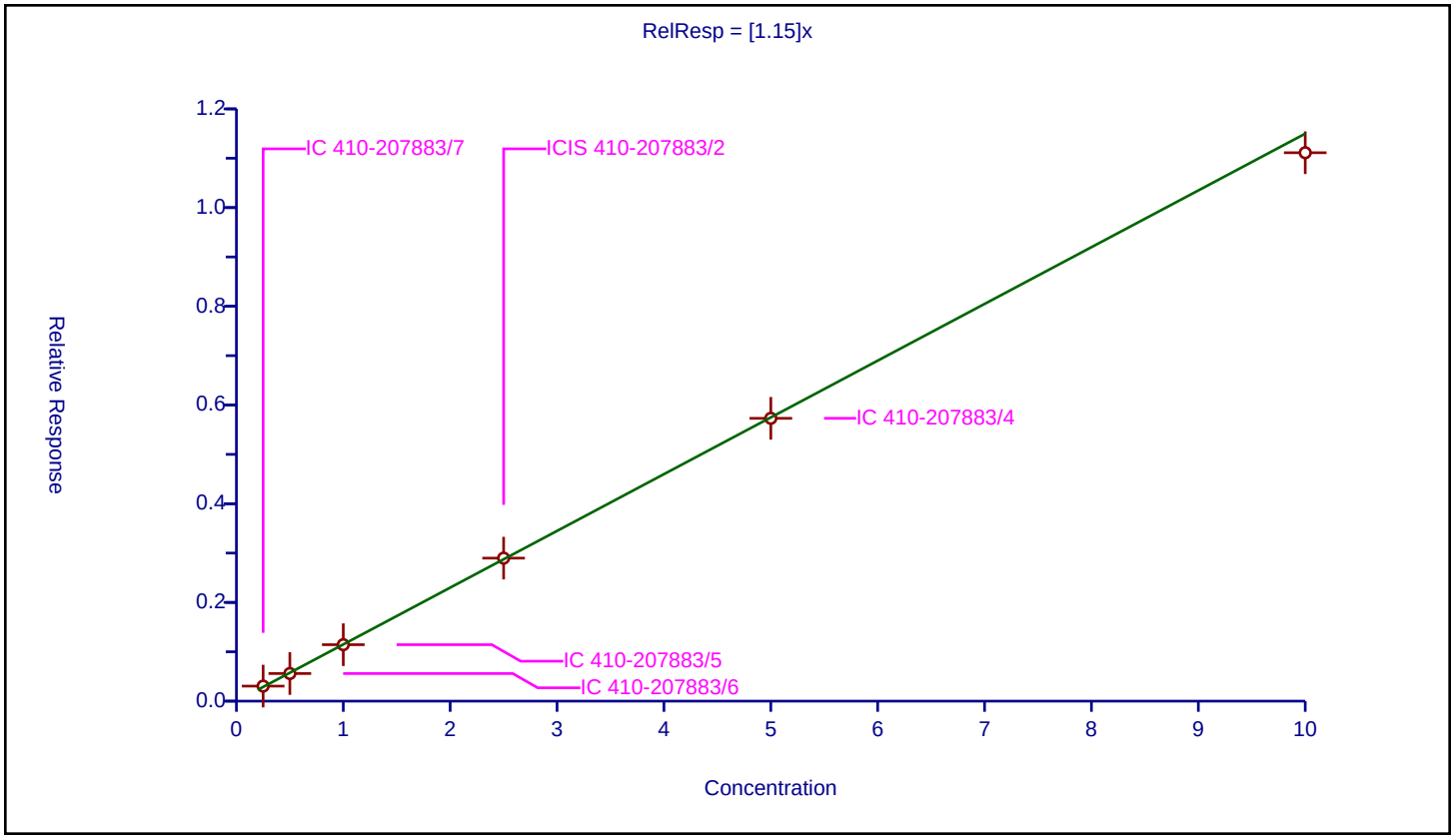
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Standard Error:	3300000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.25	0.304744	0.25	125786.0	1.218975	Y
2	IC 410-207883/6	0.5	0.559567	0.25	137724.0	1.119133	Y
3	IC 410-207883/5	1.0	1.143925	0.25	142331.0	1.143925	Y
4	ICIS 410-207883/2	2.5	2.897889	0.25	135017.0	1.159156	Y
5	IC 410-207883/4	5.0	5.730482	0.25	141190.0	1.146096	Y
6	IC 410-207883/3	10.0	11.111948	0.25	143757.0	1.111195	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

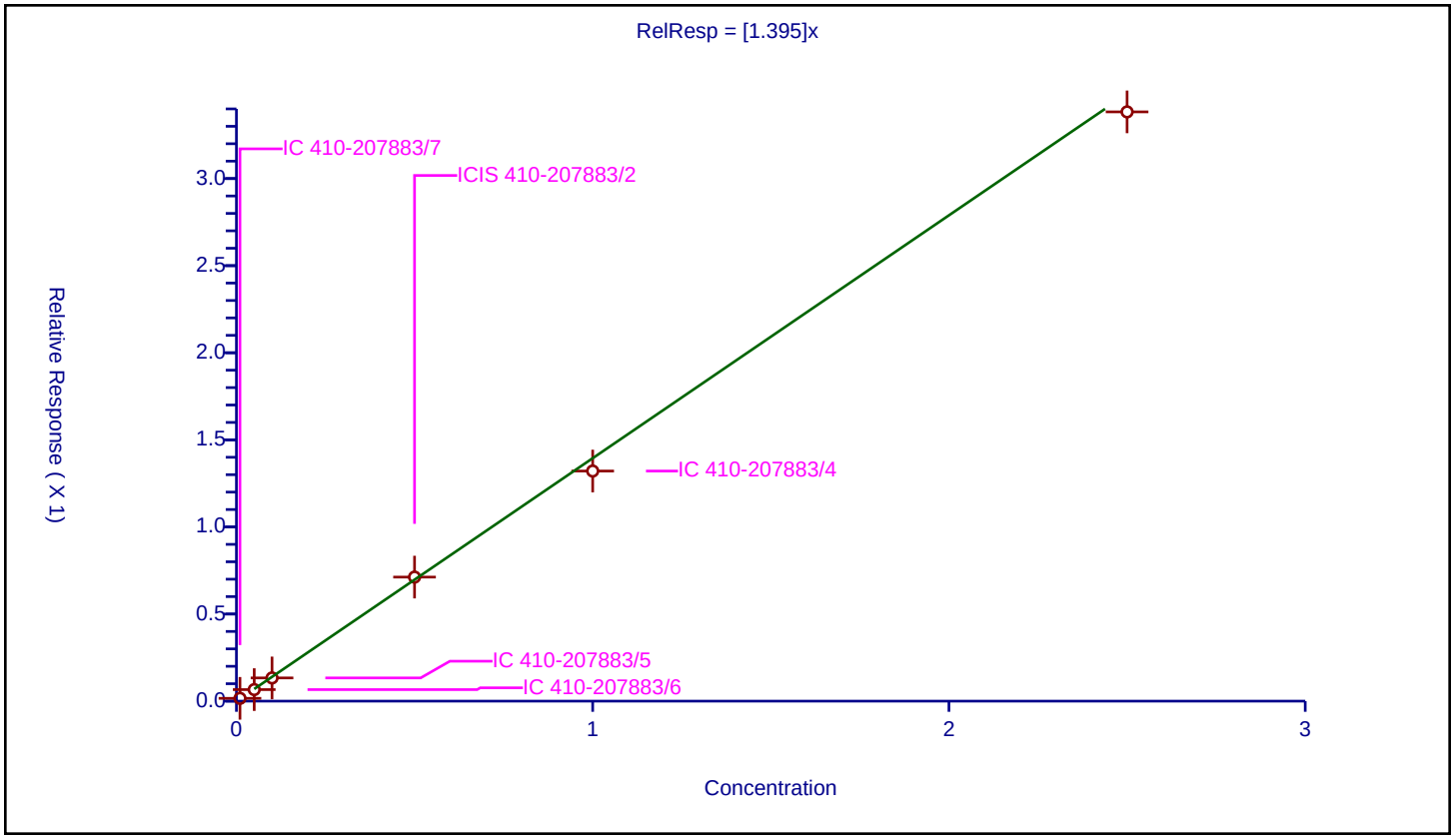
Curve Coefficients

Intercept:	0
Slope:	1.395

Error Coefficients

Standard Error:	948000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.016119	0.25	125786.0	1.611865	Y
2	IC 410-207883/6	0.05	0.066214	0.25	137724.0	1.324279	Y
3	IC 410-207883/5	0.1	0.133244	0.25	142331.0	1.33244	Y
4	ICIS 410-207883/2	0.5	0.712183	0.25	135017.0	1.424365	Y
5	IC 410-207883/4	1.0	1.321023	0.25	141190.0	1.321023	Y
6	IC 410-207883/3	2.5	3.382839	0.25	143757.0	1.353135	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

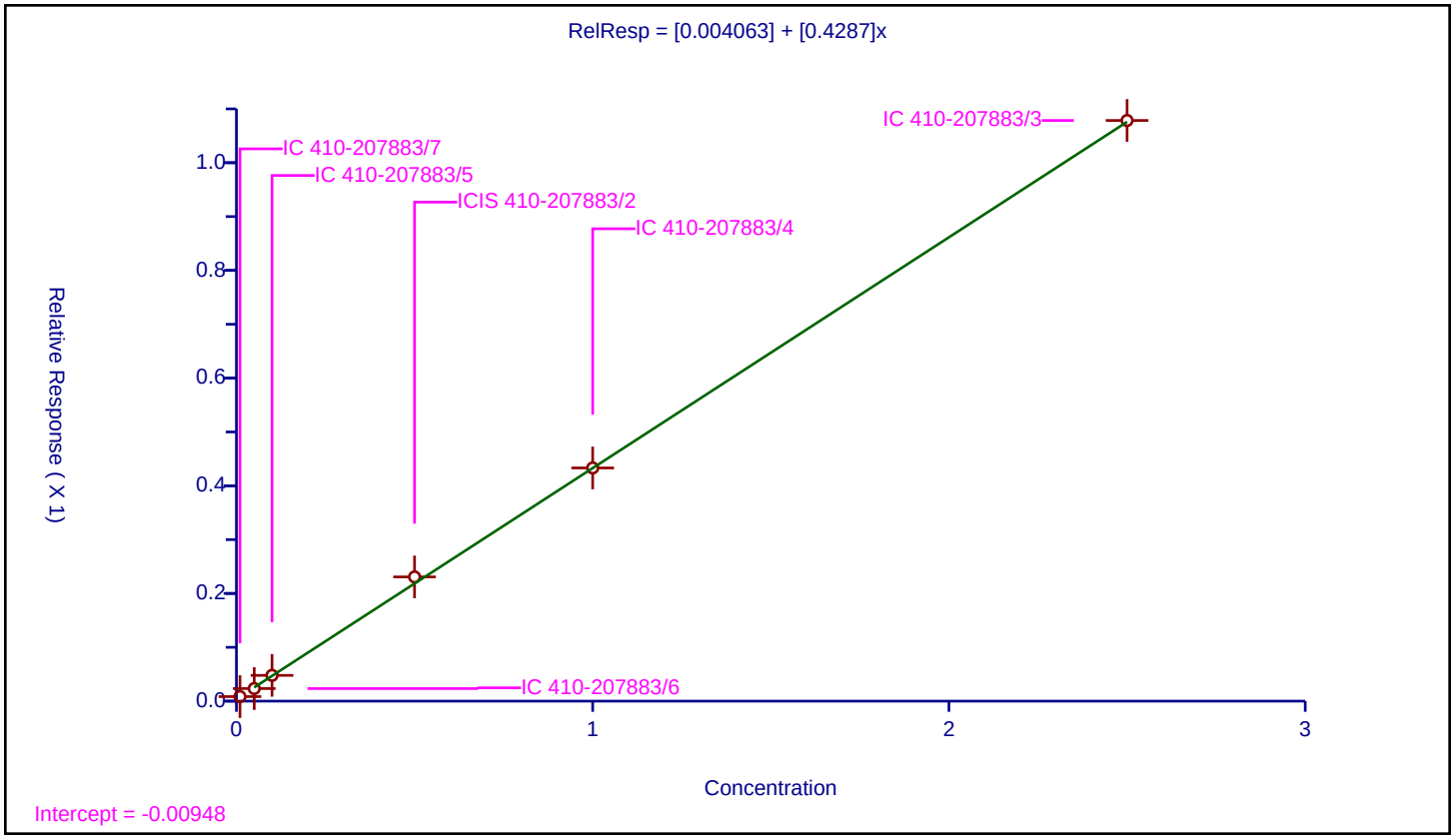
Curve Coefficients

Intercept:	0.004063
Slope:	0.4287

Error Coefficients

Standard Error:	667000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.00842	0.25	250555.0	0.842031	Y
2	IC 410-207883/6	0.05	0.023395	0.25	273186.0	0.467905	Y
3	IC 410-207883/5	0.1	0.047842	0.25	279286.0	0.478416	Y
4	ICIS 410-207883/2	0.5	0.230768	0.25	266282.0	0.461535	Y
5	IC 410-207883/4	1.0	0.433103	0.25	274685.0	0.433103	Y
6	IC 410-207883/3	2.5	1.078459	0.25	283109.0	0.431384	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

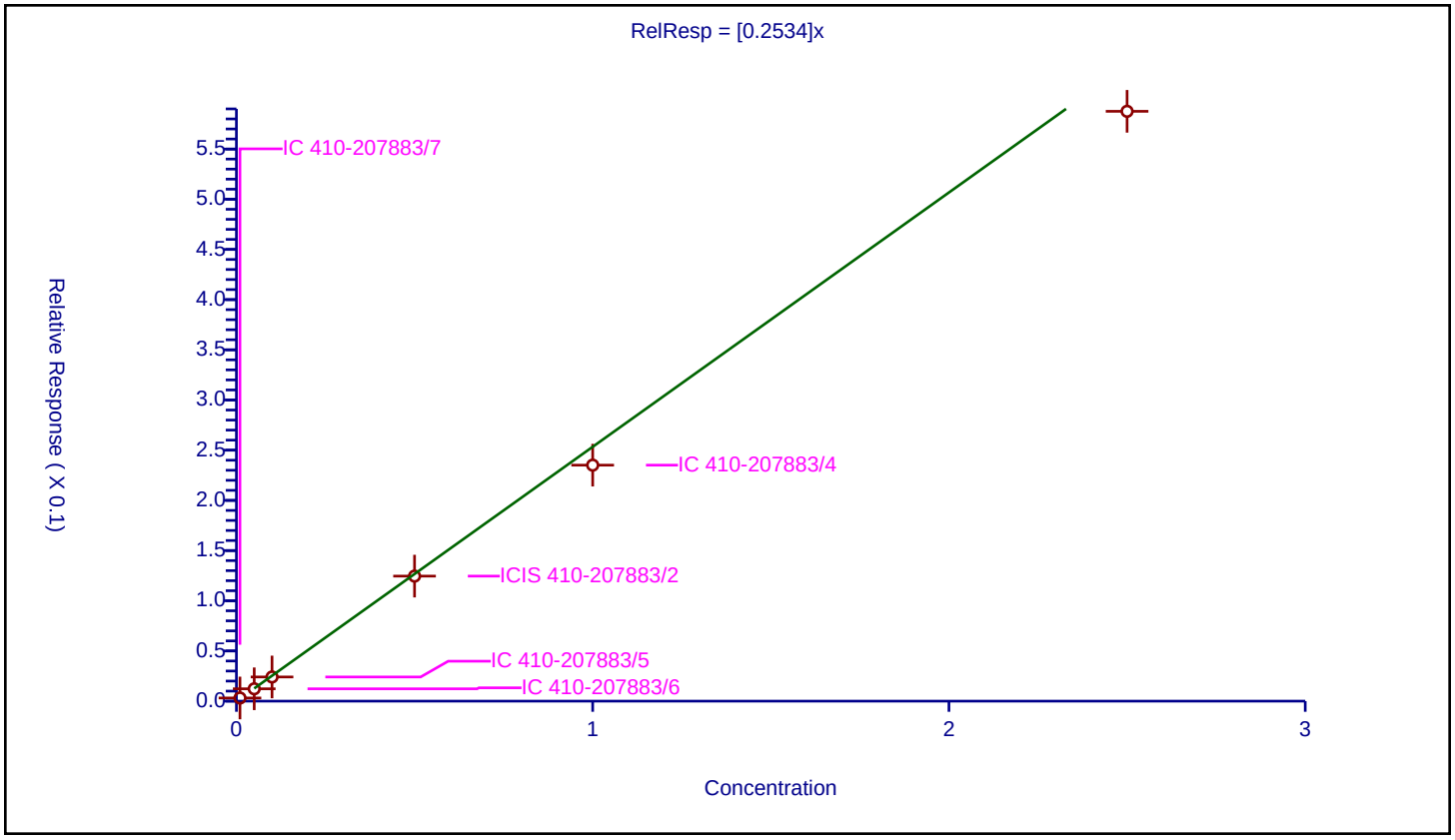
Curve Coefficients

Intercept:	0
Slope:	0.2534

Error Coefficients

Standard Error:	325000
Relative Standard Error:	12.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.003144	0.25	250555.0	0.314402	Y
2	IC 410-207883/6	0.05	0.012287	0.25	273186.0	0.245748	Y
3	IC 410-207883/5	0.1	0.02407	0.25	279286.0	0.240703	Y
4	ICIS 410-207883/2	0.5	0.124562	0.25	266282.0	0.249123	Y
5	IC 410-207883/4	1.0	0.235107	0.25	274685.0	0.235107	Y
6	IC 410-207883/3	2.5	0.587597	0.25	283109.0	0.235039	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

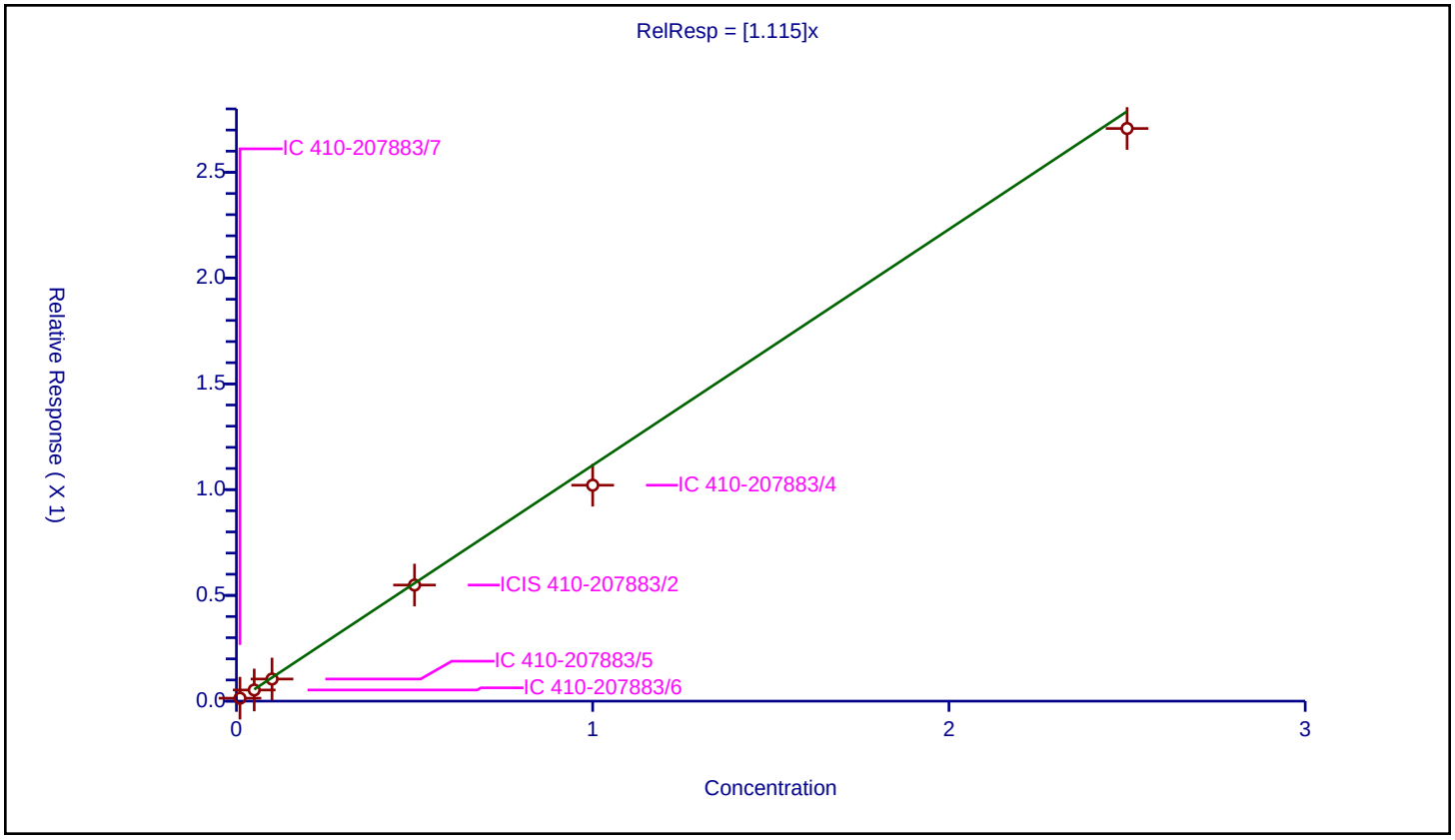
Curve Coefficients

Intercept:	0
Slope:	1.115

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	12.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.013912	0.25	250555.0	1.391212	Y
2	IC 410-207883/6	0.05	0.052657	0.25	273186.0	1.053147	Y
3	IC 410-207883/5	0.1	0.104573	0.25	279286.0	1.045729	Y
4	ICIS 410-207883/2	0.5	0.548877	0.25	266282.0	1.097754	Y
5	IC 410-207883/4	1.0	1.020932	0.25	274685.0	1.020932	Y
6	IC 410-207883/3	2.5	2.707273	0.25	283109.0	1.082909	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

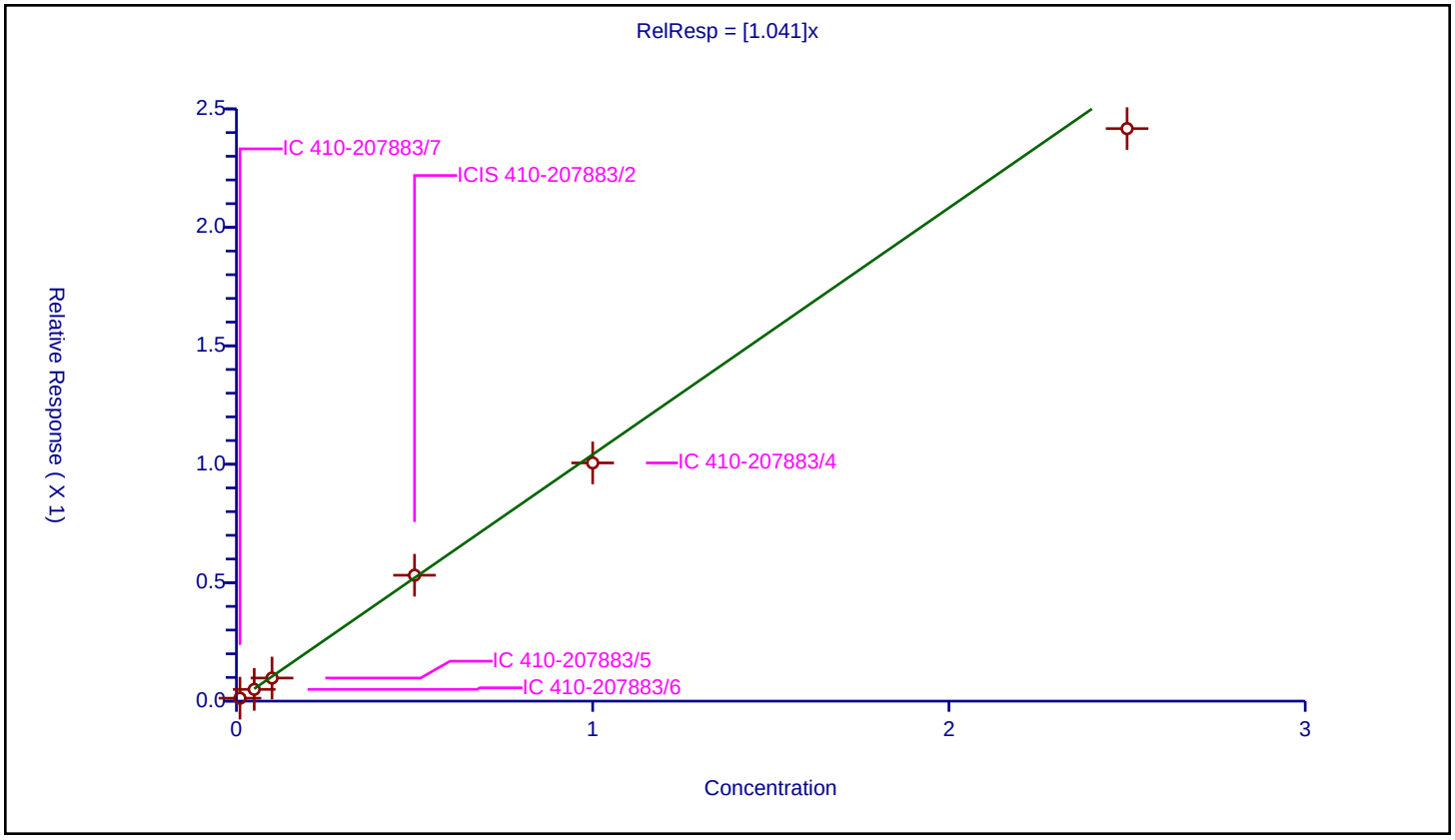
Curve Coefficients

Intercept:	0
Slope:	1.041

Error Coefficients

Standard Error:	1350000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.012434	0.25	250555.0	1.24344	Y
2	IC 410-207883/6	0.05	0.049626	0.25	273186.0	0.992511	Y
3	IC 410-207883/5	0.1	0.097559	0.25	279286.0	0.975586	Y
4	ICIS 410-207883/2	0.5	0.53145	0.25	266282.0	1.062899	Y
5	IC 410-207883/4	1.0	1.005562	0.25	274685.0	1.005562	Y
6	IC 410-207883/3	2.5	2.416771	0.25	283109.0	0.966709	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

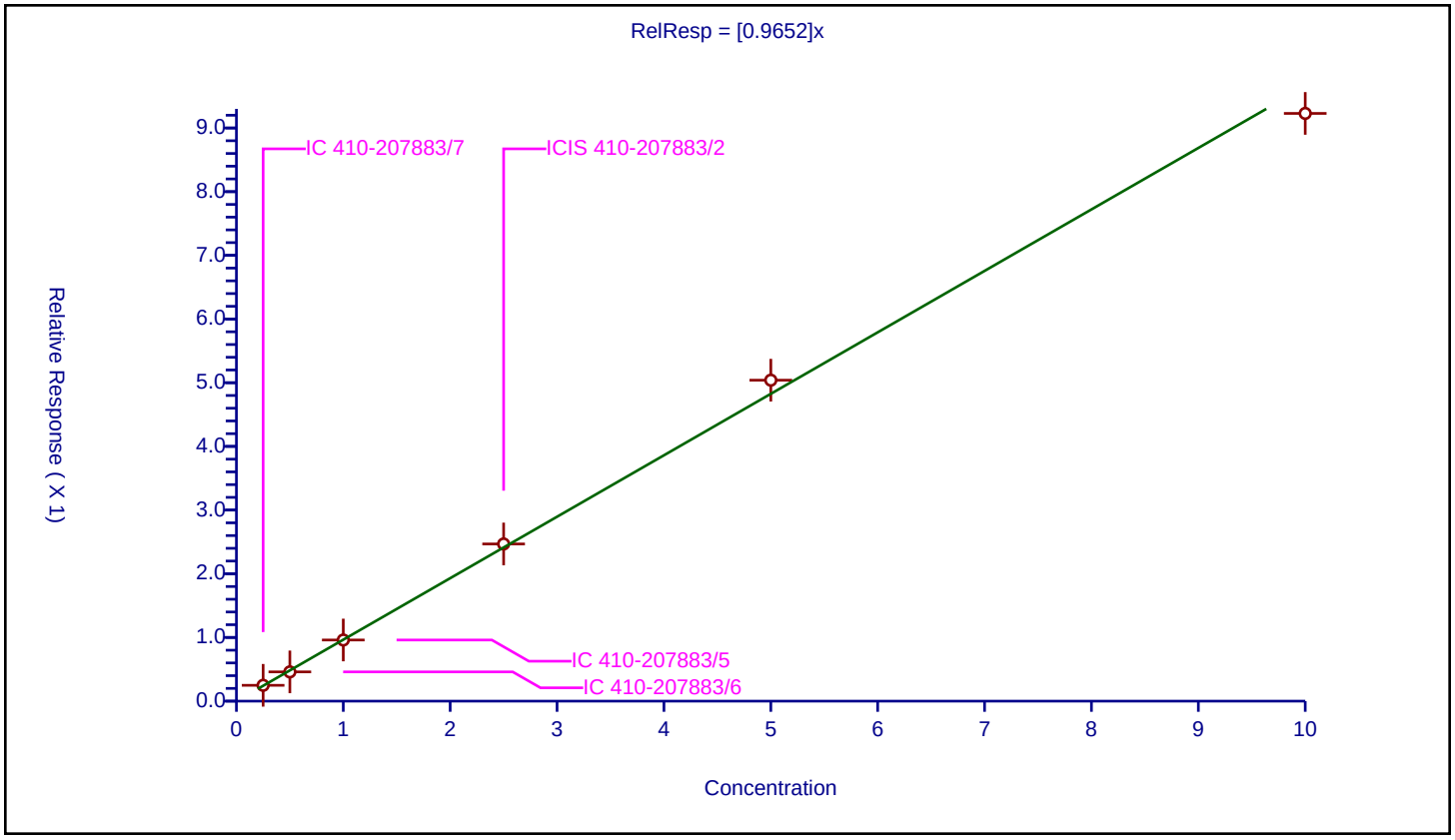
Curve Coefficients

Intercept:	0
Slope:	0.9652

Error Coefficients

Standard Error:	5450000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.25	0.248607	0.25	250555.0	0.994428	Y
2	IC 410-207883/6	0.5	0.459223	0.25	273186.0	0.918446	Y
3	IC 410-207883/5	1.0	0.959867	0.25	279286.0	0.959867	Y
4	ICIS 410-207883/2	2.5	2.468211	0.25	266282.0	0.987285	Y
5	IC 410-207883/4	5.0	5.04008	0.25	274685.0	1.008016	Y
6	IC 410-207883/3	10.0	9.22885	0.25	283109.0	0.922885	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

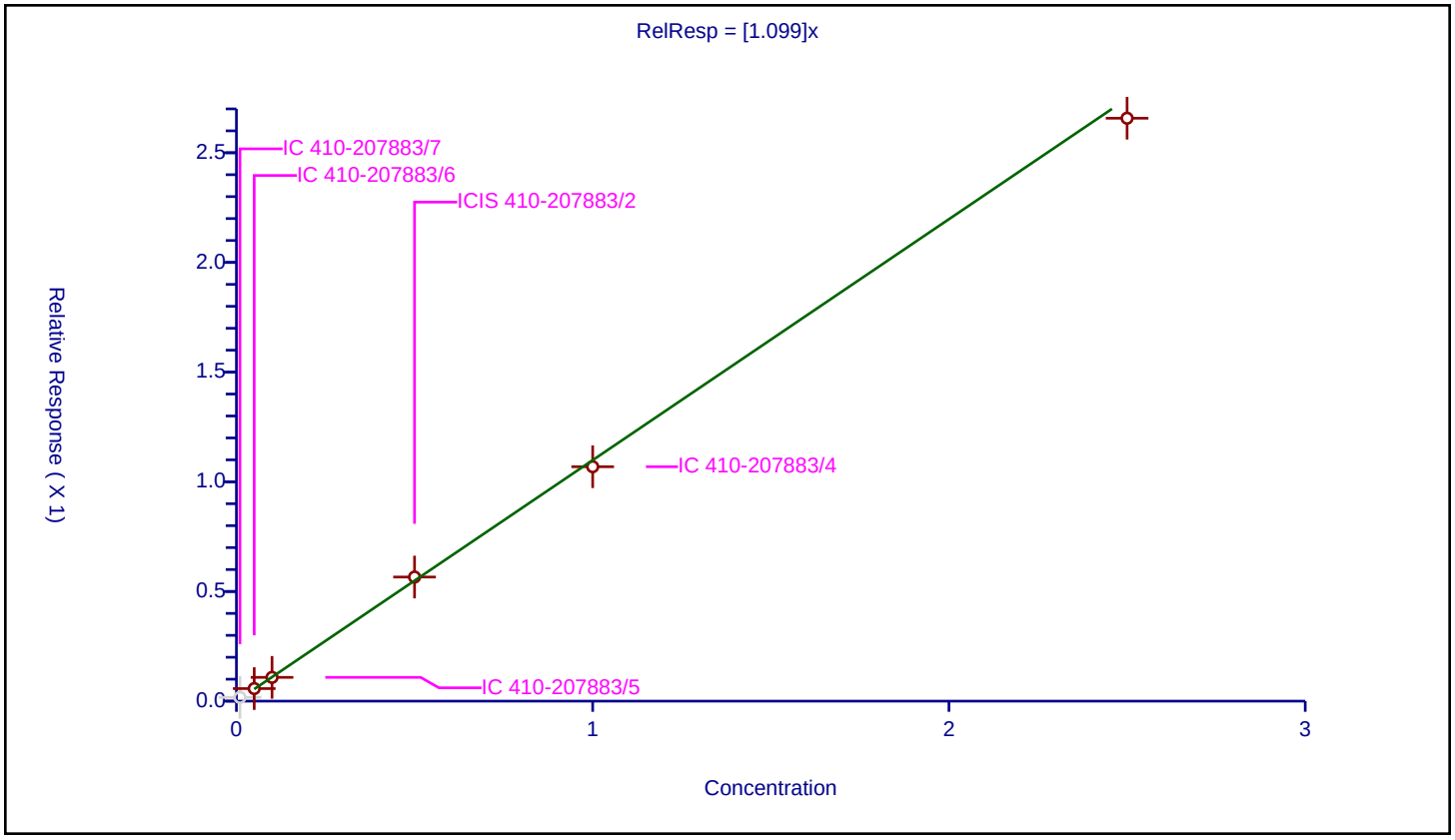
Curve Coefficients

Intercept:	0
Slope:	1.099

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.017054	0.25	250555.0	1.705414	N
2	IC 410-207883/6	0.05	0.057293	0.25	273186.0	1.145868	Y
3	IC 410-207883/5	0.1	0.10839	0.25	279286.0	1.083898	Y
4	ICIS 410-207883/2	0.5	0.565763	0.25	266282.0	1.131526	Y
5	IC 410-207883/4	1.0	1.068687	0.25	274685.0	1.068687	Y
6	IC 410-207883/3	2.5	2.657519	0.25	283109.0	1.063008	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

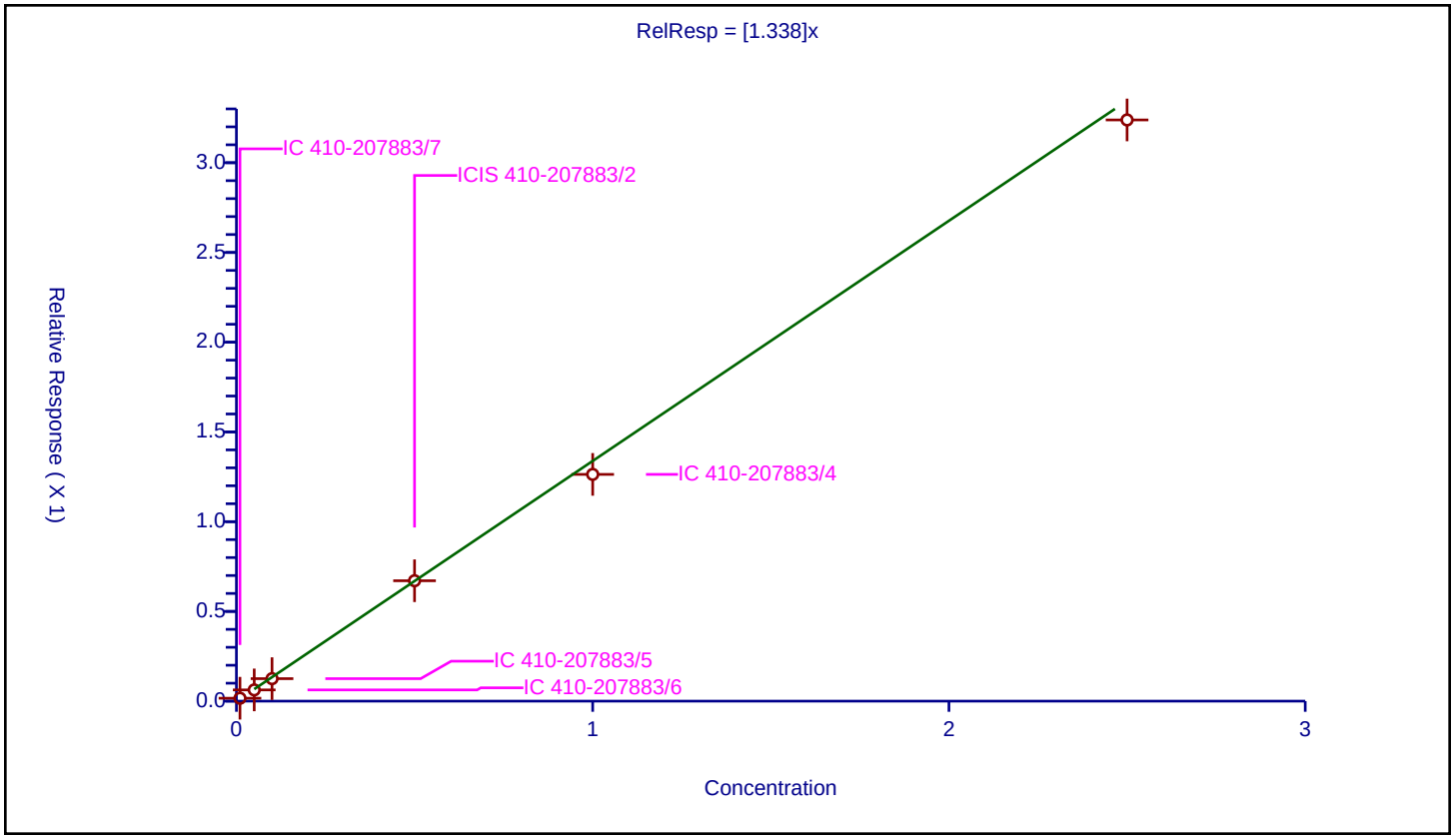
Curve Coefficients

Intercept:	0
Slope:	1.338

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.016241	0.25	250555.0	1.624095	Y
2	IC 410-207883/6	0.05	0.062606	0.25	273186.0	1.252114	Y
3	IC 410-207883/5	0.1	0.125253	0.25	279286.0	1.252533	Y
4	ICIS 410-207883/2	0.5	0.67093	0.25	266282.0	1.341859	Y
5	IC 410-207883/4	1.0	1.263451	0.25	274685.0	1.263451	Y
6	IC 410-207883/3	2.5	3.238475	0.25	283109.0	1.29539	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

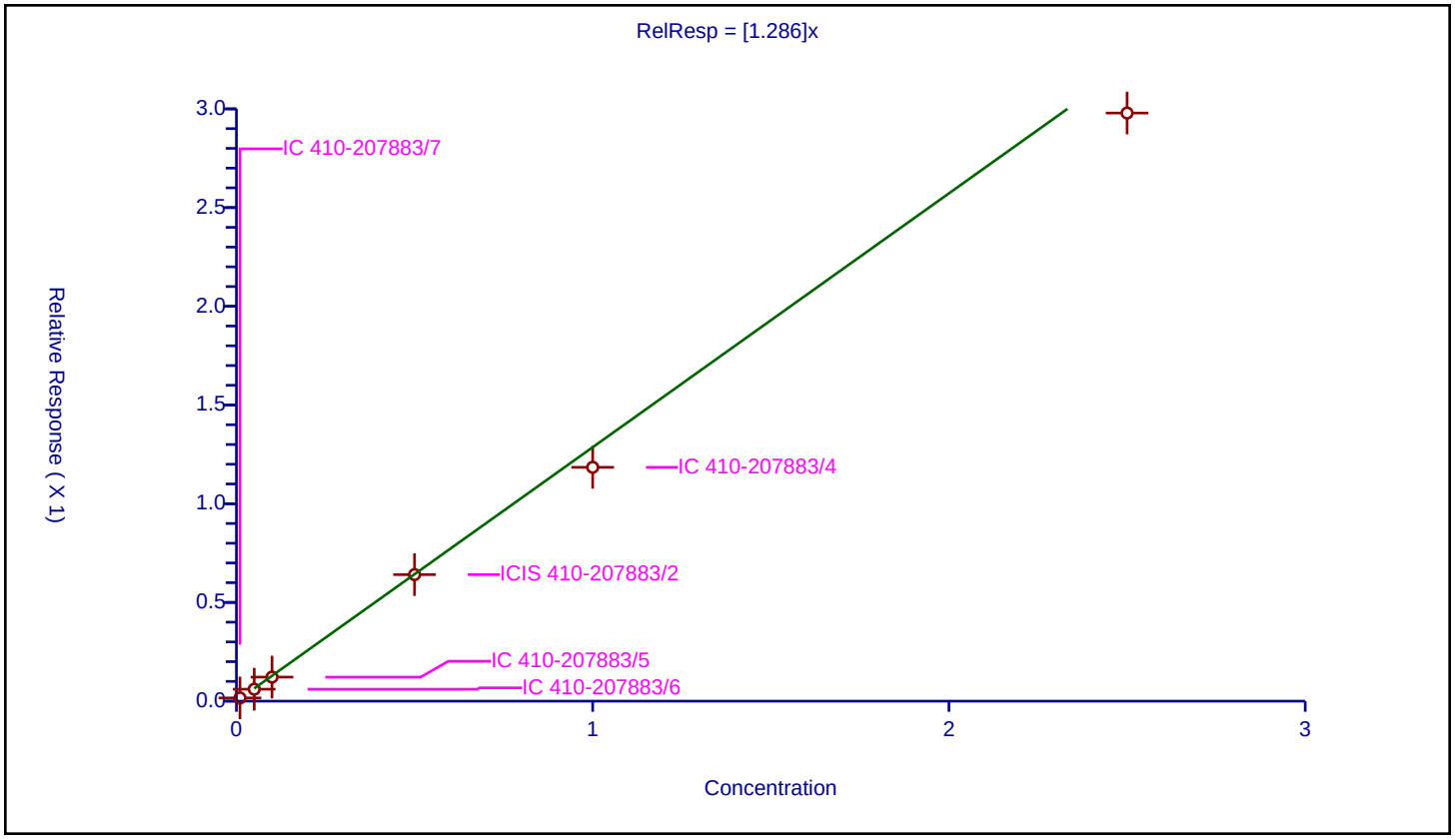
Curve Coefficients

Intercept:	0
Slope:	1.286

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	13.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.016296	0.25	268507.0	1.629566	Y
2	IC 410-207883/6	0.05	0.060543	0.25	295027.0	1.210855	Y
3	IC 410-207883/5	0.1	0.121793	0.25	301616.0	1.217931	Y
4	ICIS 410-207883/2	0.5	0.640932	0.25	290771.0	1.281864	Y
5	IC 410-207883/4	1.0	1.184538	0.25	305164.0	1.184538	Y
6	IC 410-207883/3	2.5	2.978977	0.25	311329.0	1.191591	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

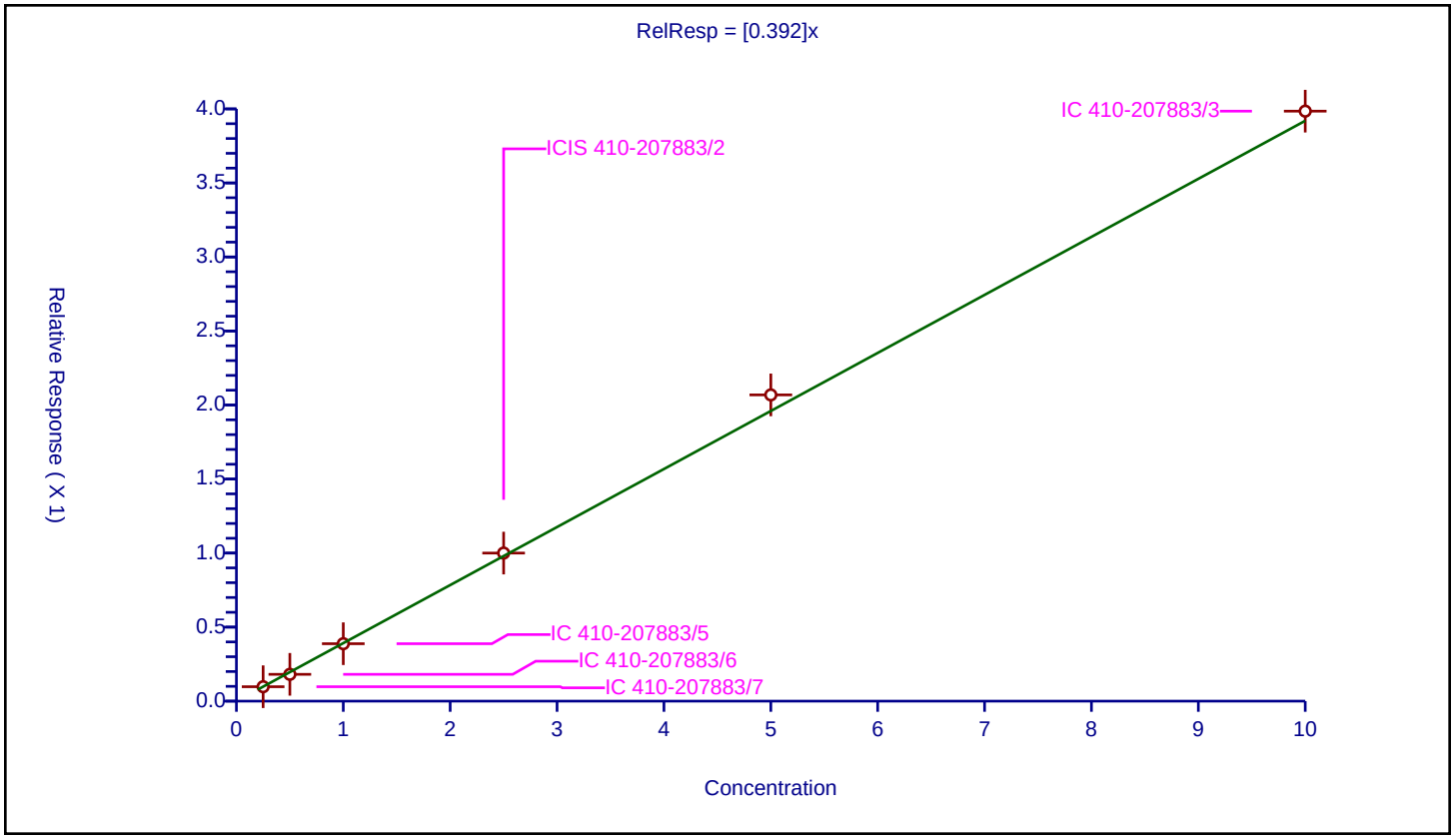
Curve Coefficients

Intercept:	0
Slope:	0.392

Error Coefficients

Standard Error:	2550000
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 410-207883/7	0.25	0.097338	0.25	268507.0	0.389353	Y
2	IC 410-207883/6	0.5	0.181142	0.25	295027.0	0.362284	Y
3	IC 410-207883/5	1.0	0.387861	0.25	301616.0	0.387861	Y
4	ICIS 410-207883/2	2.5	1.000153	0.25	290771.0	0.400061	Y
5	IC 410-207883/4	5.0	2.068394	0.25	305164.0	0.413679	Y
6	IC 410-207883/3	10.0	3.984733	0.25	311329.0	0.398473	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

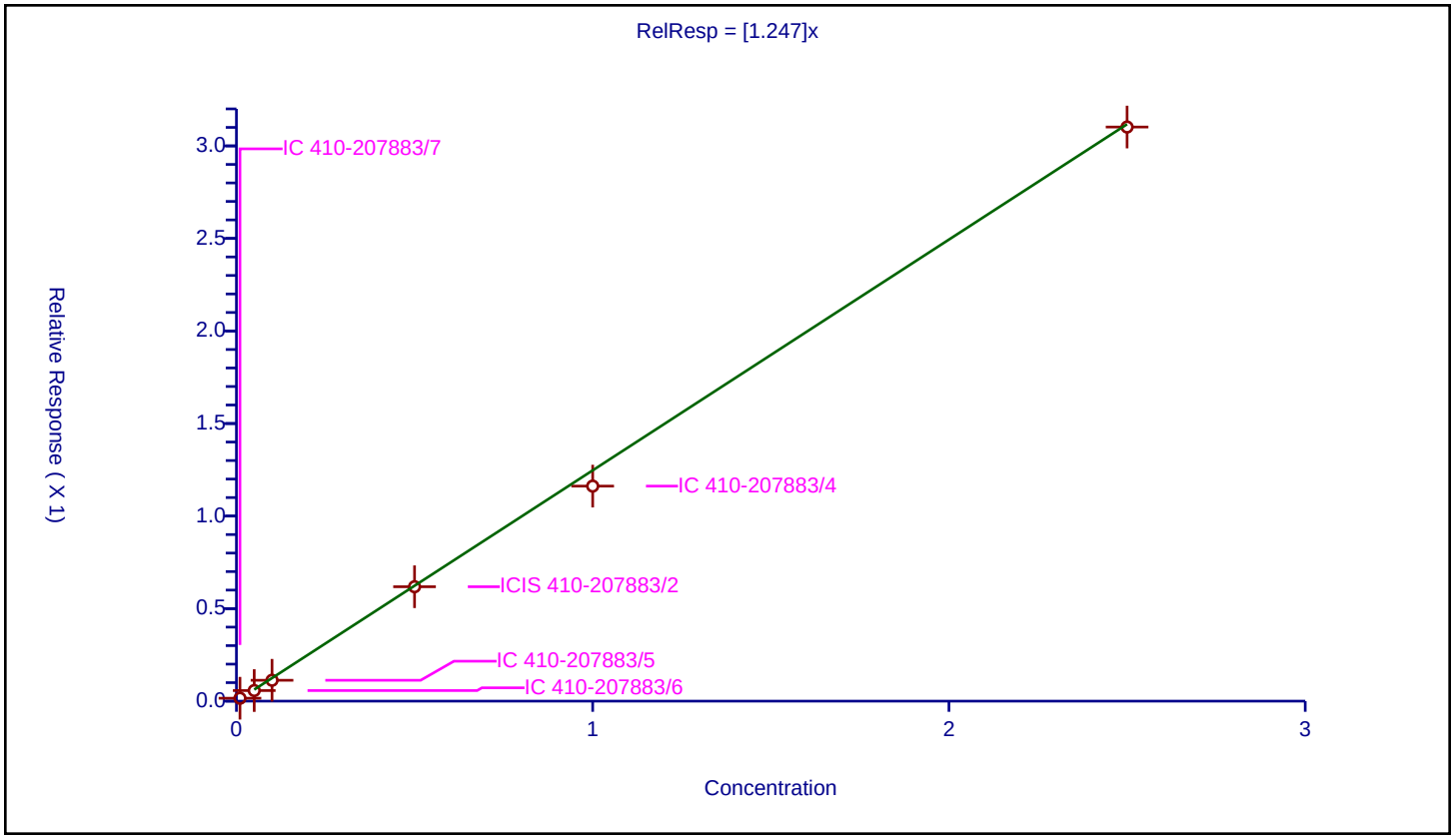
Curve Coefficients

Intercept:	0
Slope:	1.247

Error Coefficients

Standard Error:	1870000
Relative Standard Error:	13.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.015706	0.25	268507.0	1.570629	Y
2	IC 410-207883/6	0.05	0.057242	0.25	295027.0	1.144844	Y
3	IC 410-207883/5	0.1	0.112728	0.25	301616.0	1.127278	Y
4	ICIS 410-207883/2	0.5	0.618099	0.25	290771.0	1.236198	Y
5	IC 410-207883/4	1.0	1.161856	0.25	305164.0	1.161856	Y
6	IC 410-207883/3	2.5	3.101928	0.25	311329.0	1.240771	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

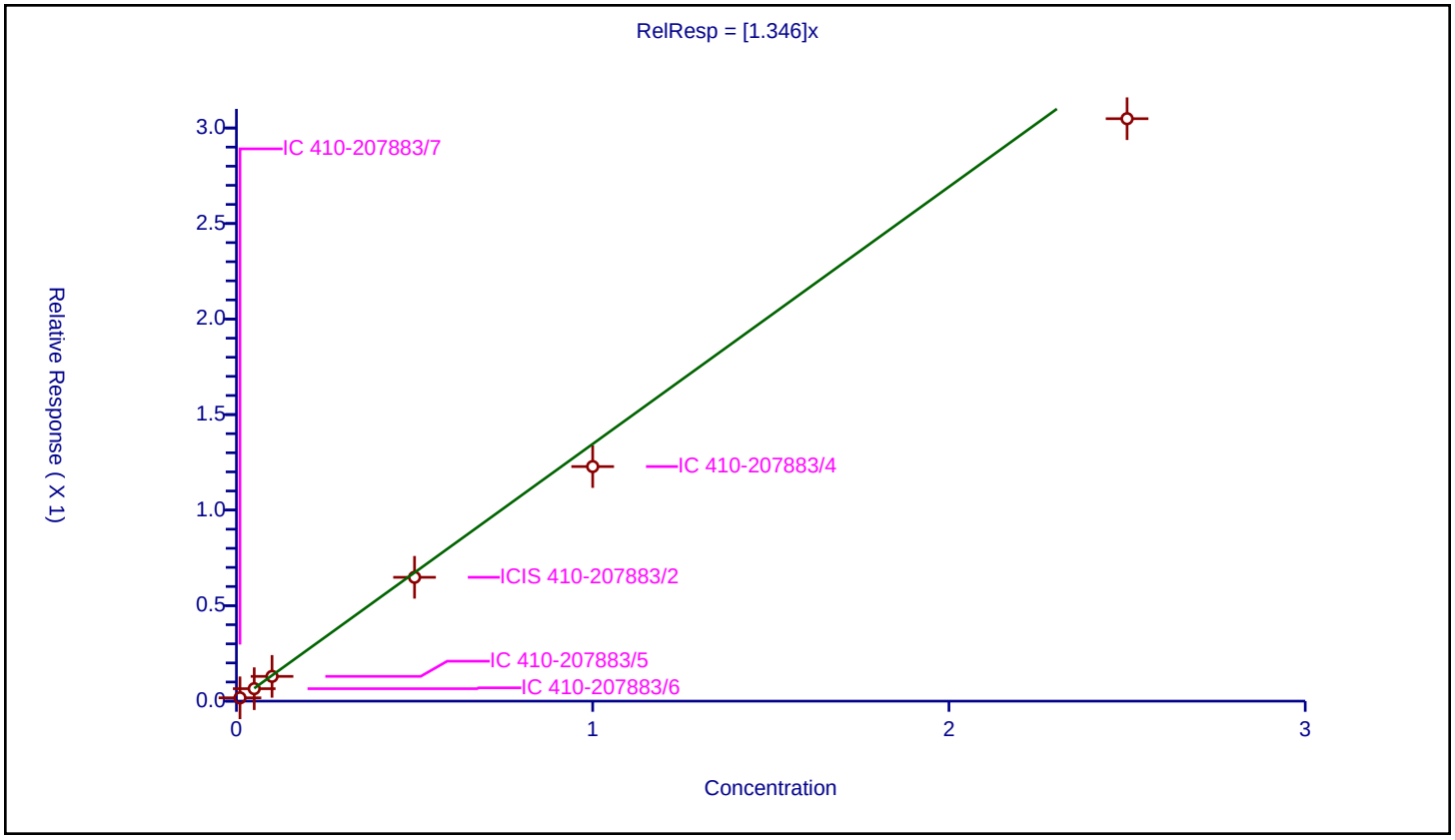
Curve Coefficients

Intercept:	0
Slope:	1.346

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.017325	0.25	268507.0	1.73245	Y
2	IC 410-207883/6	0.05	0.065186	0.25	295027.0	1.303728	Y
3	IC 410-207883/5	0.1	0.129628	0.25	301616.0	1.296284	Y
4	ICIS 410-207883/2	0.5	0.648246	0.25	290771.0	1.296493	Y
5	IC 410-207883/4	1.0	1.227868	0.25	305164.0	1.227868	Y
6	IC 410-207883/3	2.5	3.048678	0.25	311329.0	1.219471	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

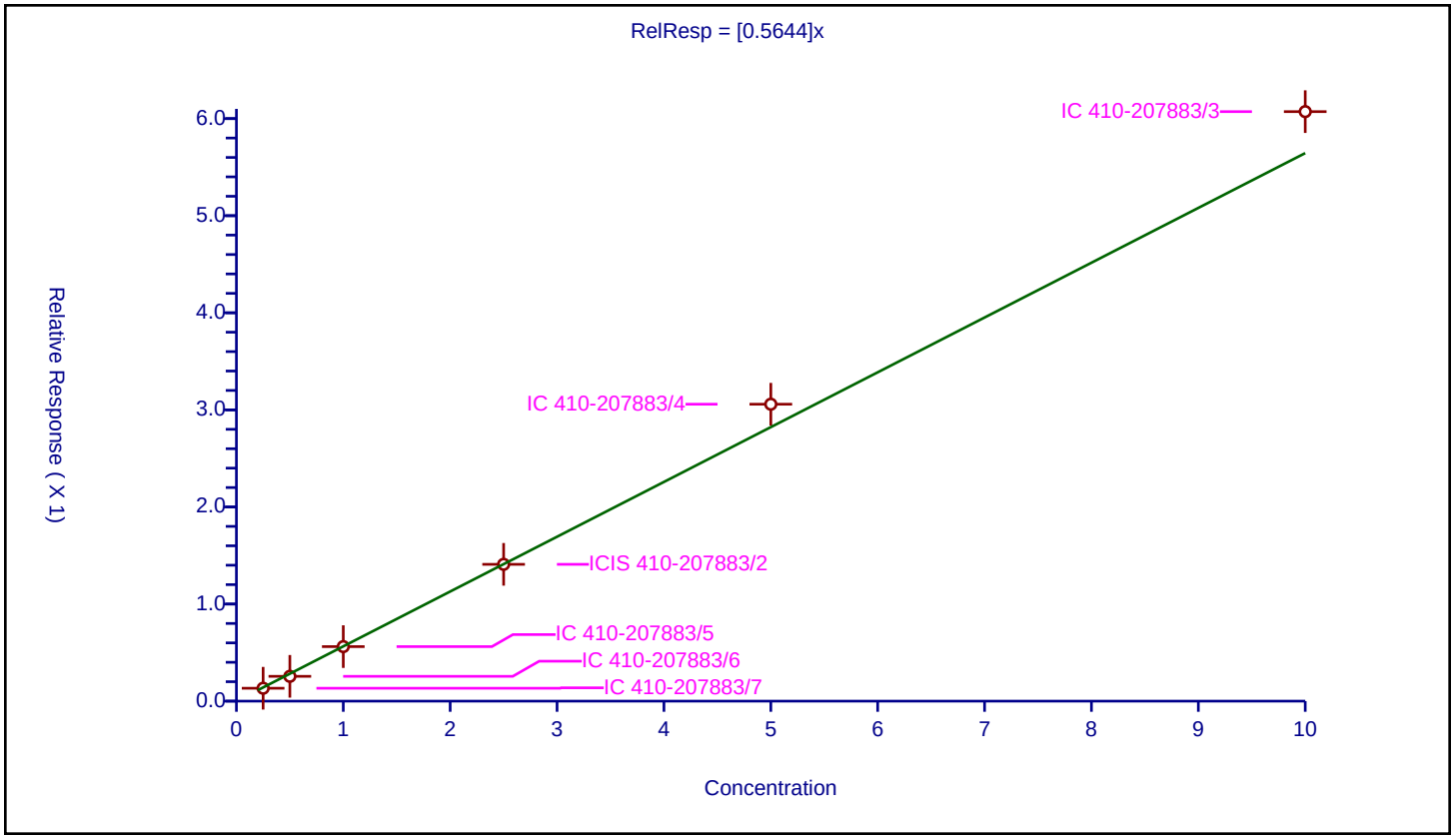
Curve Coefficients

Intercept:	0
Slope:	0.5644

Error Coefficients

Standard Error:	3860000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.25	0.132846	0.25	268507.0	0.531383	Y
2	IC 410-207883/6	0.5	0.255655	0.25	295027.0	0.511311	Y
3	IC 410-207883/5	1.0	0.56157	0.25	301616.0	0.56157	Y
4	ICIS 410-207883/2	2.5	1.408948	0.25	290771.0	0.563579	Y
5	IC 410-207883/4	5.0	3.058338	0.25	305164.0	0.611668	Y
6	IC 410-207883/3	10.0	6.071795	0.25	311329.0	0.60718	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

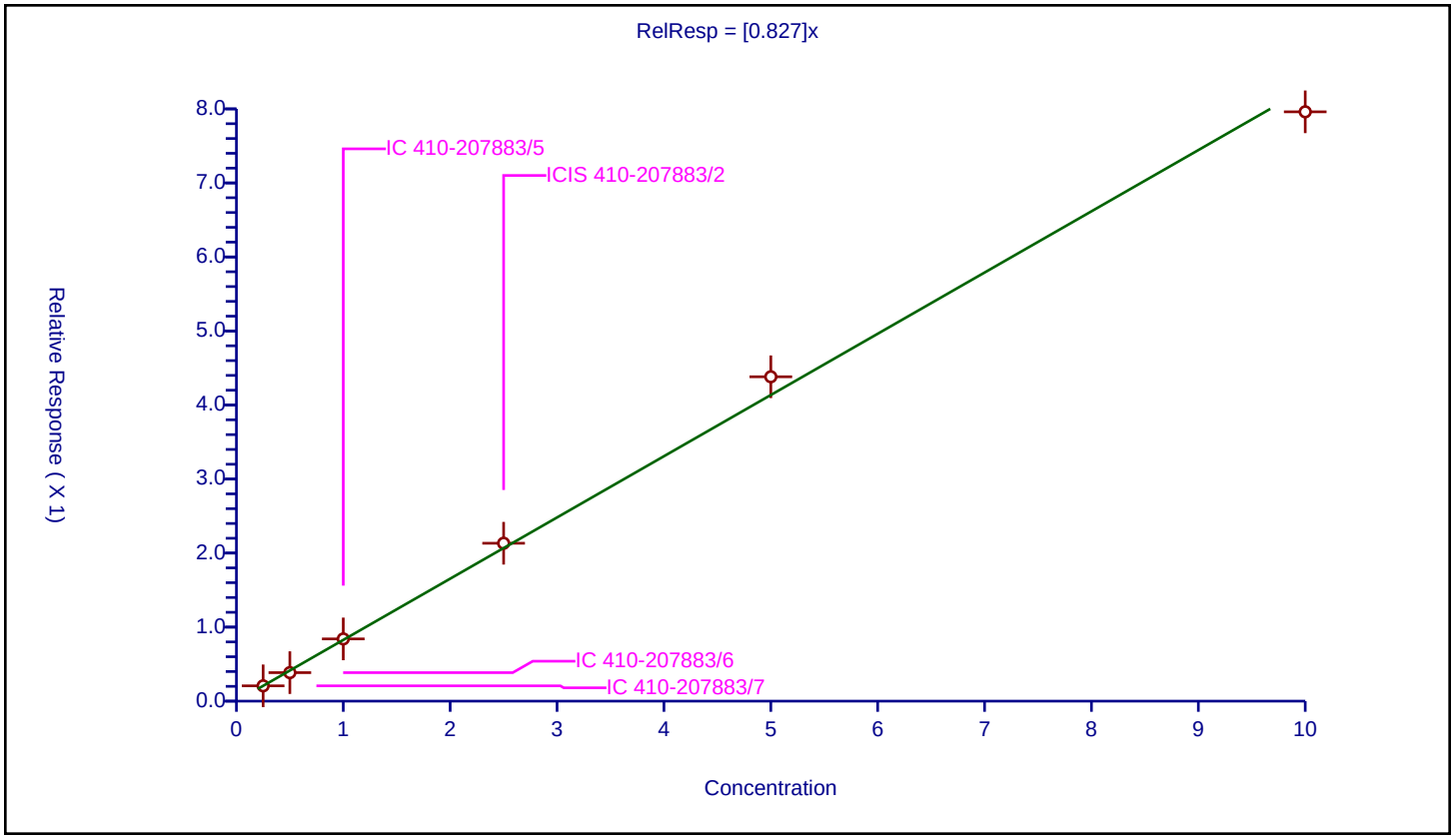
Curve Coefficients

Intercept:	0
Slope:	0.827

Error Coefficients

Standard Error:	6700000
Relative Standard Error:	4.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.25	0.206563	0.25	305254.0	0.826253	Y
2	IC 410-207883/6	0.5	0.384982	0.25	349304.0	0.769964	Y
3	IC 410-207883/5	1.0	0.840537	0.25	362432.0	0.840537	Y
4	ICIS 410-207883/2	2.5	2.133013	0.25	342589.0	0.853205	Y
5	IC 410-207883/4	5.0	4.381366	0.25	379025.0	0.876273	Y
6	IC 410-207883/3	10.0	7.960517	0.25	409781.0	0.796052	Y



Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

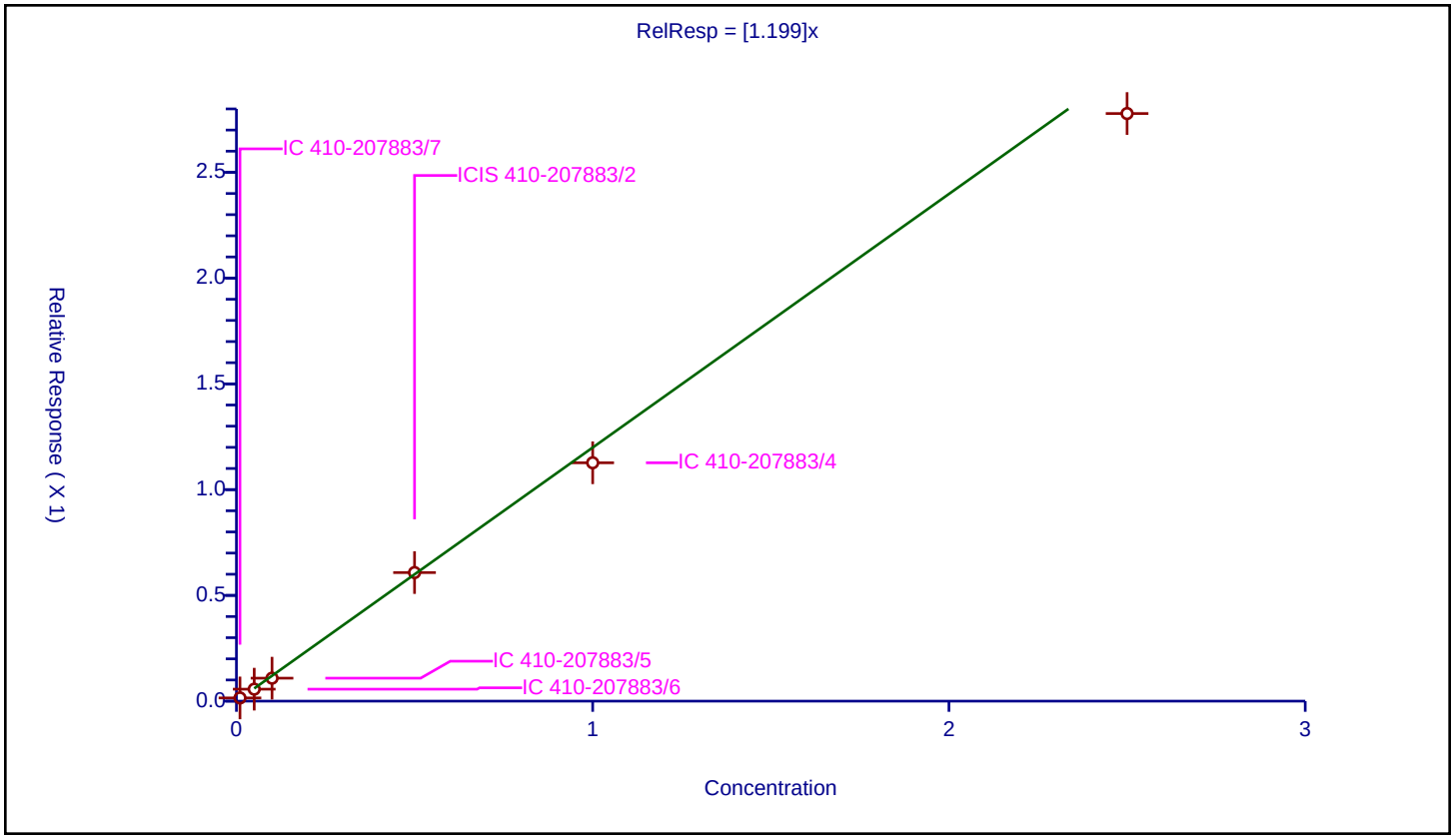
Curve Coefficients

Intercept:	0
Slope:	1.199

Error Coefficients

Standard Error:	2210000
Relative Standard Error:	13.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.015208	0.25	305254.0	1.520783	Y
2	IC 410-207883/6	0.05	0.056645	0.25	349304.0	1.132896	Y
3	IC 410-207883/5	0.1	0.108585	0.25	362432.0	1.085845	Y
4	ICIS 410-207883/2	0.5	0.607891	0.25	342589.0	1.215782	Y
5	IC 410-207883/4	1.0	1.1269	0.25	379025.0	1.1269	Y
6	IC 410-207883/3	2.5	2.778134	0.25	409781.0	1.111254	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

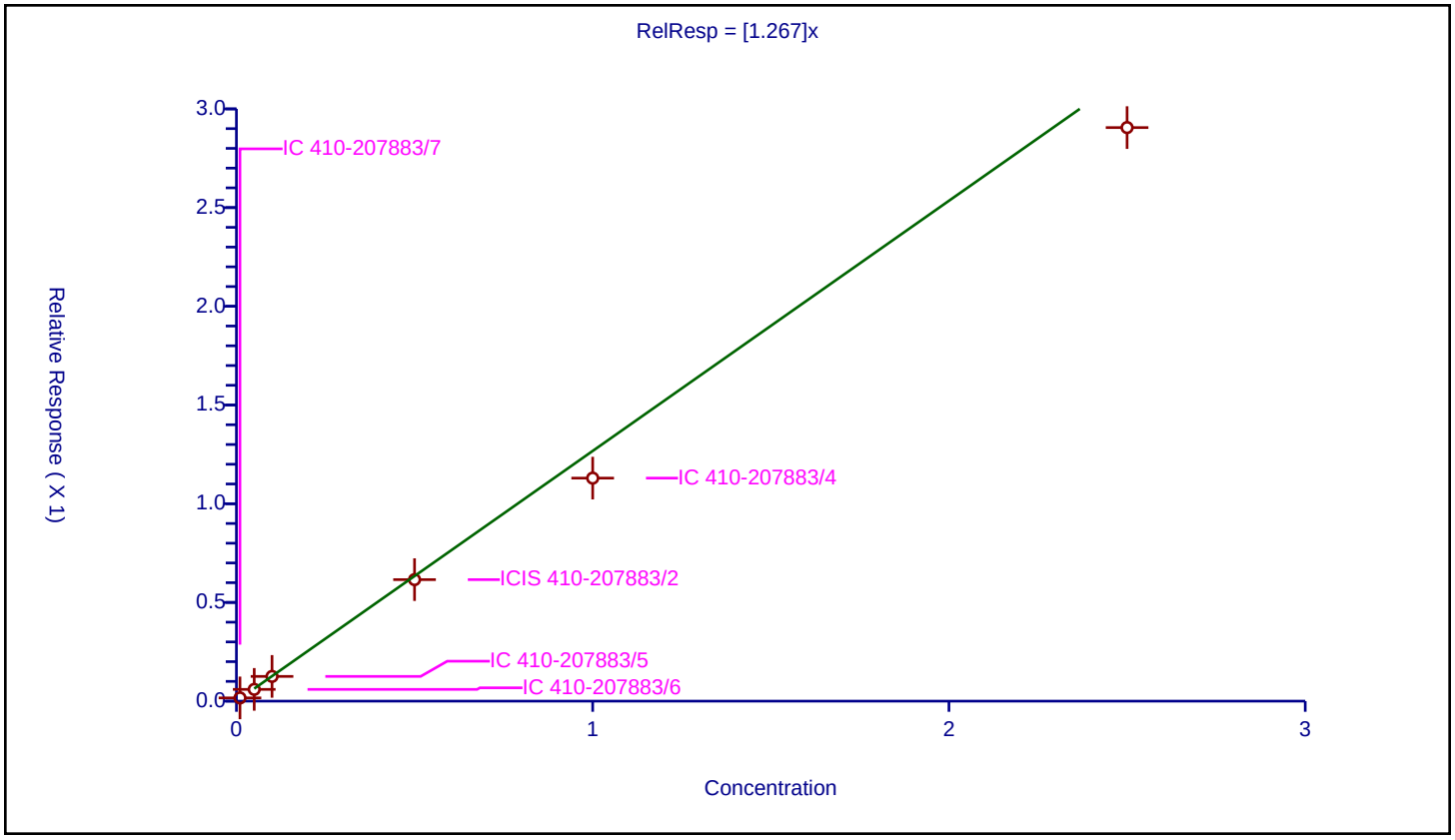
Curve Coefficients

Intercept:	0
Slope:	1.267

Error Coefficients

Standard Error:	2300000
Relative Standard Error:	14.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.016364	0.25	305254.0	1.636424	Y
2	IC 410-207883/6	0.05	0.059604	0.25	349304.0	1.192085	Y
3	IC 410-207883/5	0.1	0.125217	0.25	362432.0	1.252166	Y
4	ICIS 410-207883/2	0.5	0.615524	0.25	342589.0	1.231048	Y
5	IC 410-207883/4	1.0	1.129676	0.25	379025.0	1.129676	Y
6	IC 410-207883/3	2.5	2.905343	0.25	409781.0	1.162137	Y



Calibration / Benzo[e]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

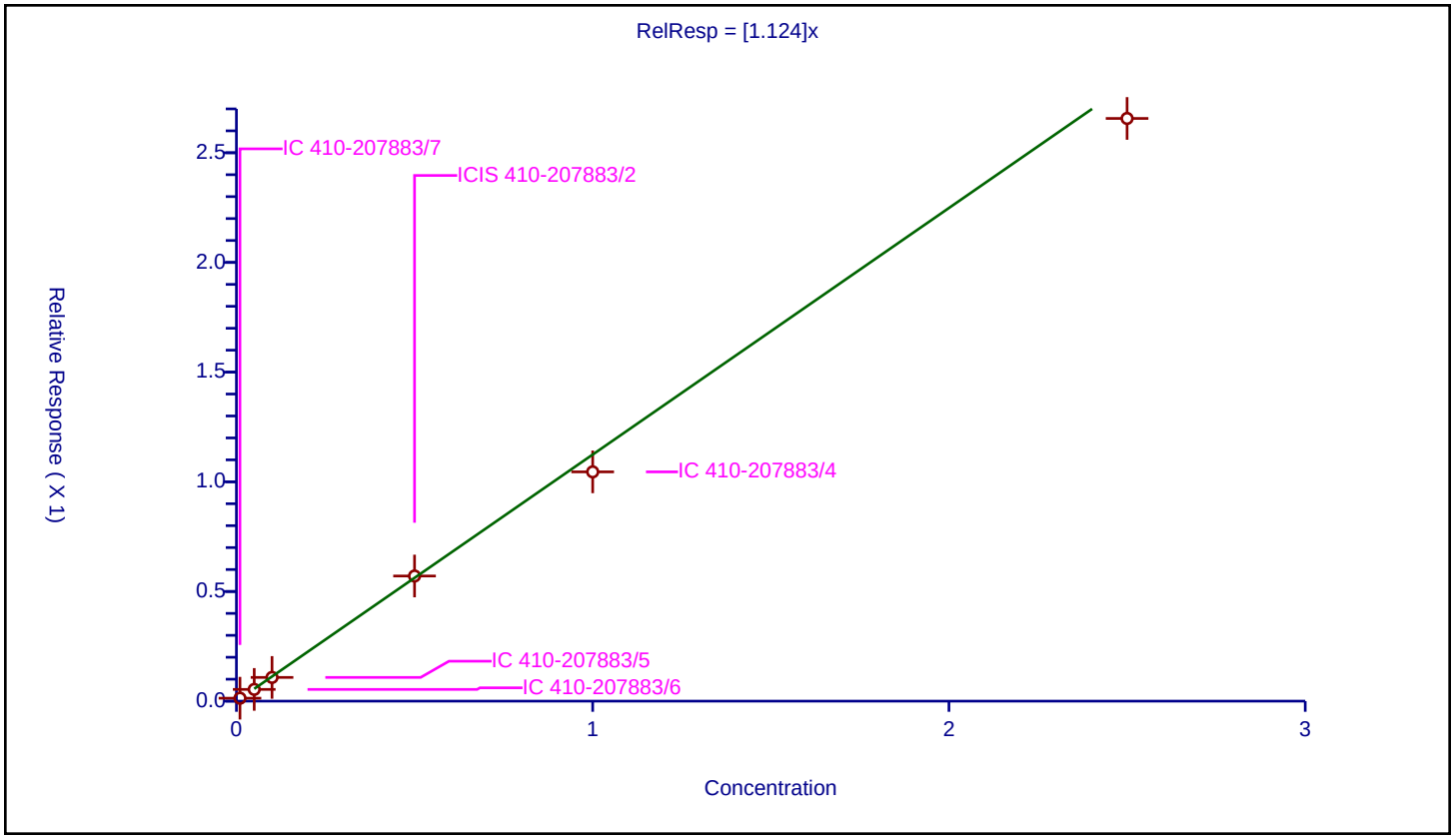
Curve Coefficients

Intercept:	0
Slope:	1.124

Error Coefficients

Standard Error:	2100000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.013446	0.25	305254.0	1.344618	Y
2	IC 410-207883/6	0.05	0.053485	0.25	349304.0	1.069699	Y
3	IC 410-207883/5	0.1	0.108152	0.25	362432.0	1.08152	Y
4	ICIS 410-207883/2	0.5	0.570532	0.25	342589.0	1.141064	Y
5	IC 410-207883/4	1.0	1.045217	0.25	379025.0	1.045217	Y
6	IC 410-207883/3	2.5	2.65639	0.25	409781.0	1.062556	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

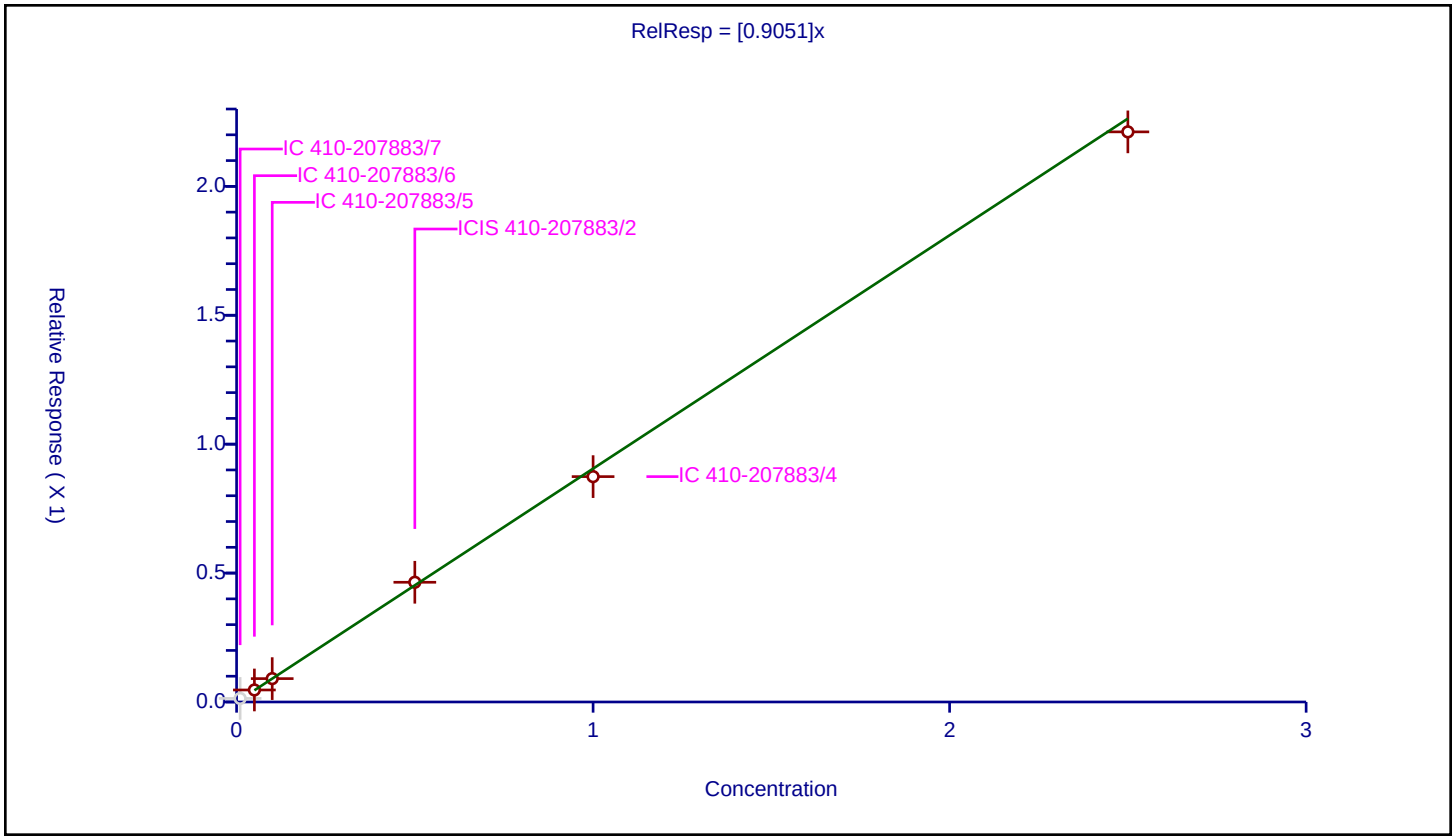
Curve Coefficients

Intercept:	0
Slope:	0.9051

Error Coefficients

Standard Error:	1960000
Relative Standard Error:	2.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.01377	0.25	305254.0	1.376968	N
2	IC 410-207883/6	0.05	0.046554	0.25	349304.0	0.93108	Y
3	IC 410-207883/5	0.1	0.090695	0.25	362432.0	0.906949	Y
4	ICIS 410-207883/2	0.5	0.464397	0.25	342589.0	0.928794	Y
5	IC 410-207883/4	1.0	0.874116	0.25	379025.0	0.874116	Y
6	IC 410-207883/3	2.5	2.211406	0.25	409781.0	0.884562	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

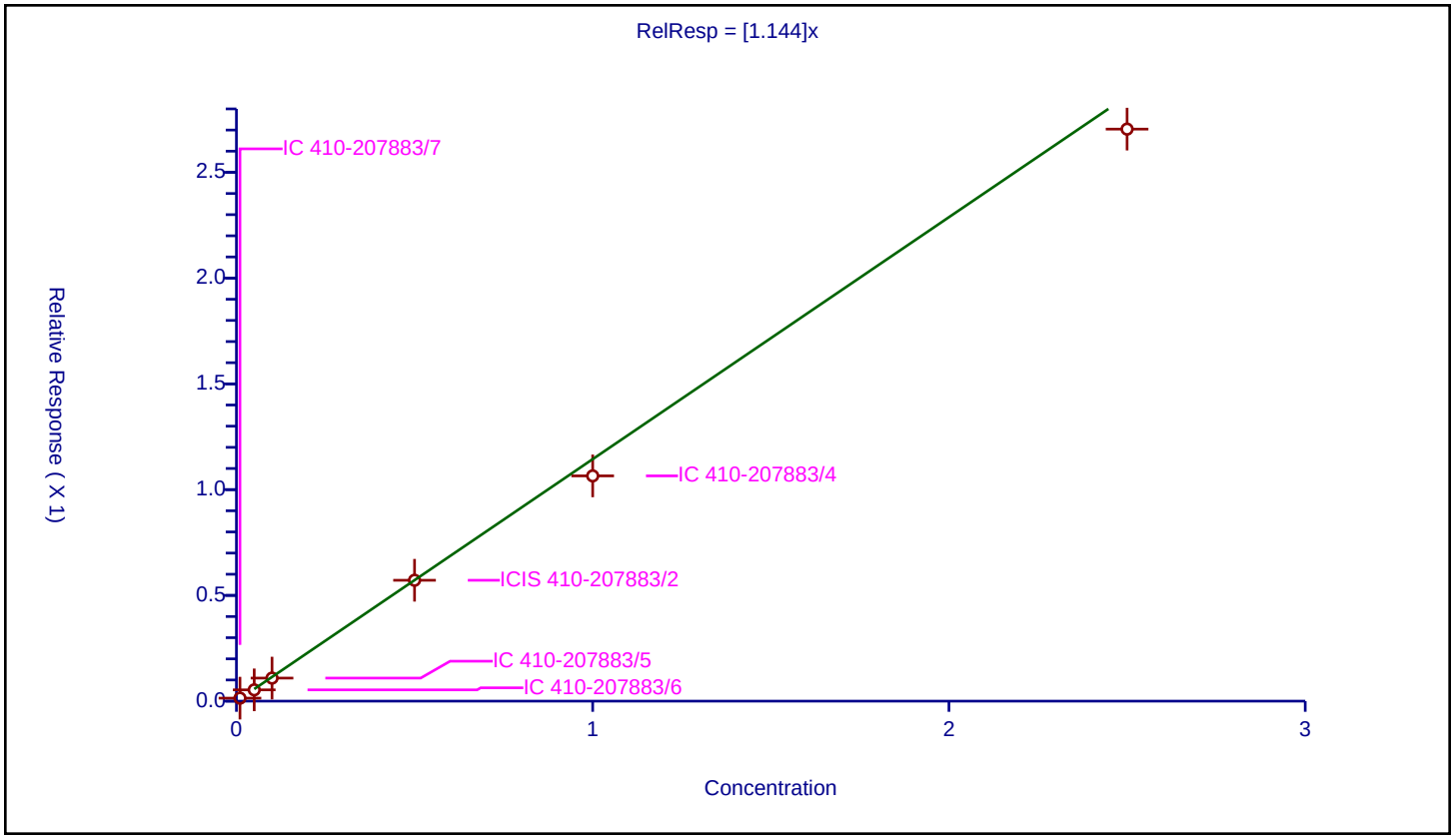
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Standard Error:	2140000
Relative Standard Error:	11.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.014166	0.25	305254.0	1.416607	Y
2	IC 410-207883/6	0.05	0.05336	0.25	349304.0	1.067194	Y
3	IC 410-207883/5	0.1	0.109044	0.25	362432.0	1.090439	Y
4	ICIS 410-207883/2	0.5	0.571494	0.25	342589.0	1.142988	Y
5	IC 410-207883/4	1.0	1.064898	0.25	379025.0	1.064898	Y
6	IC 410-207883/3	2.5	2.704454	0.25	409781.0	1.081782	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

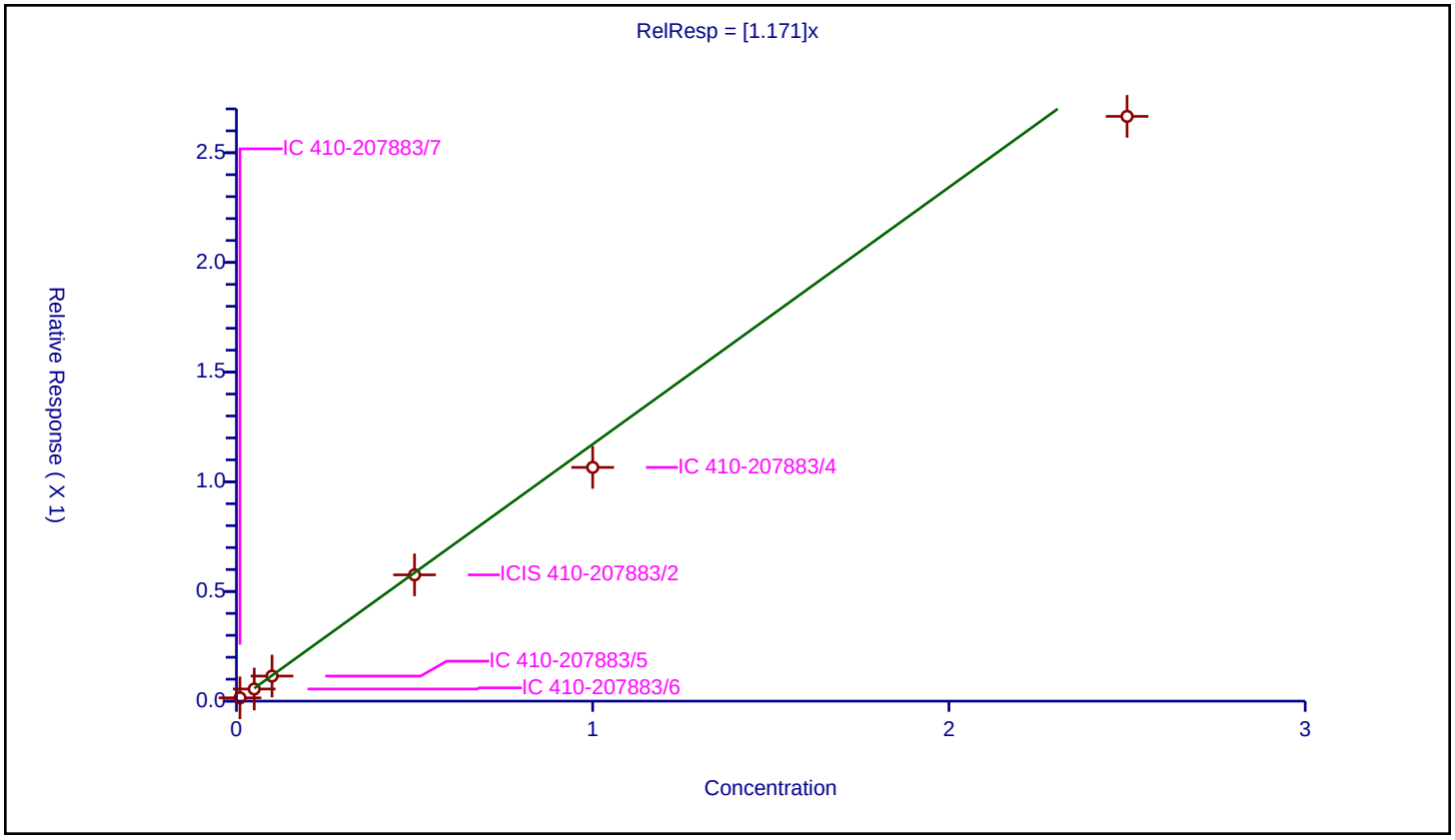
Curve Coefficients

Intercept:	0
Slope:	1.171

Error Coefficients

Standard Error:	2110000
Relative Standard Error:	13.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.01495	0.25	305254.0	1.494985	Y
2	IC 410-207883/6	0.05	0.055268	0.25	349304.0	1.10537	Y
3	IC 410-207883/5	0.1	0.114337	0.25	362432.0	1.143366	Y
4	ICIS 410-207883/2	0.5	0.575772	0.25	342589.0	1.151545	Y
5	IC 410-207883/4	1.0	1.065574	0.25	379025.0	1.065574	Y
6	IC 410-207883/3	2.5	2.665889	0.25	409781.0	1.066356	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

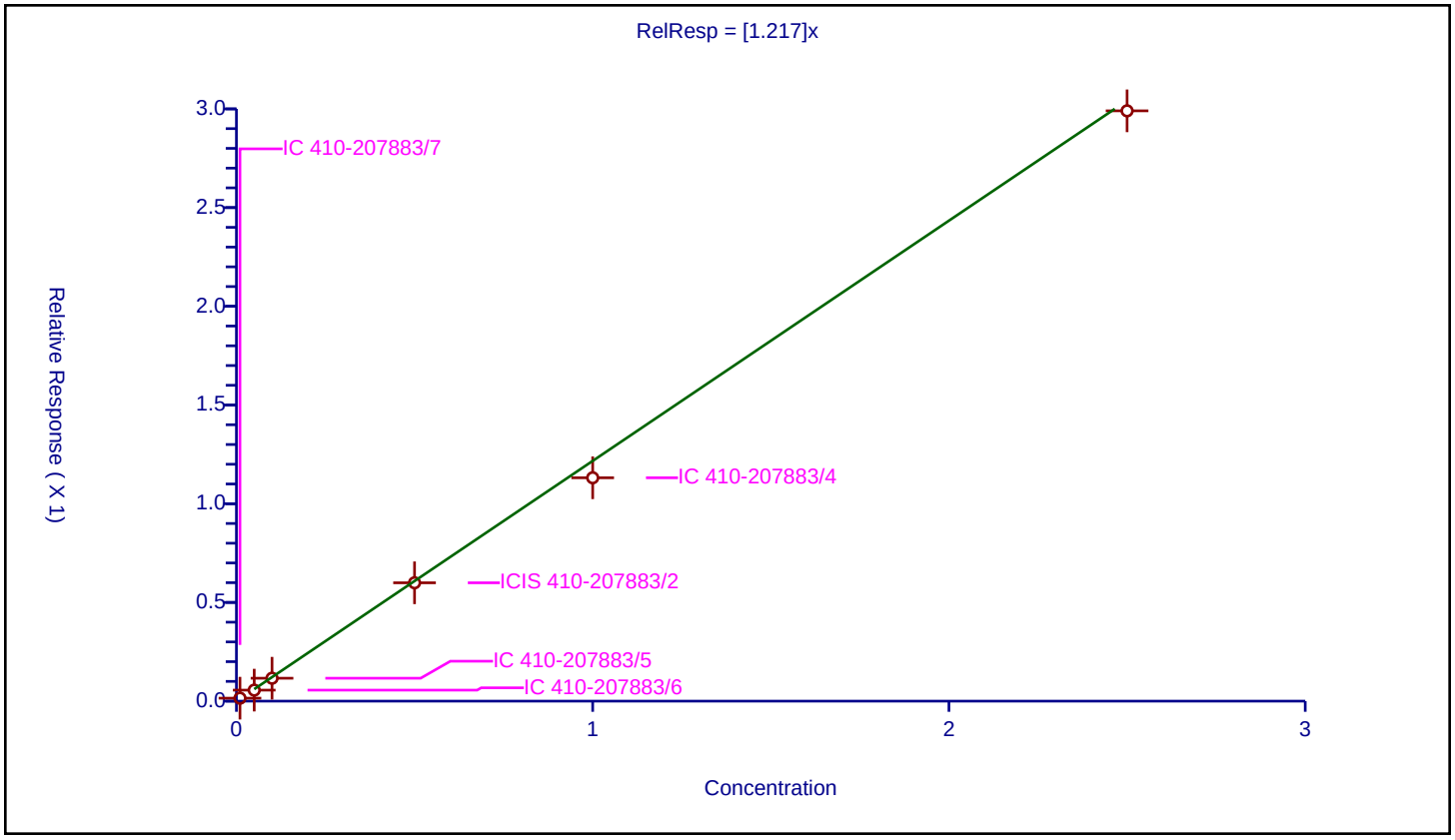
Curve Coefficients

Intercept:	0
Slope:	1.217

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	11.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.014991	0.25	305254.0	1.499079	Y
2	IC 410-207883/6	0.05	0.055742	0.25	349304.0	1.114831	Y
3	IC 410-207883/5	0.1	0.116078	0.25	362432.0	1.160776	Y
4	ICIS 410-207883/2	0.5	0.599499	0.25	342589.0	1.198998	Y
5	IC 410-207883/4	1.0	1.131423	0.25	379025.0	1.131423	Y
6	IC 410-207883/3	2.5	2.990131	0.25	409781.0	1.196053	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

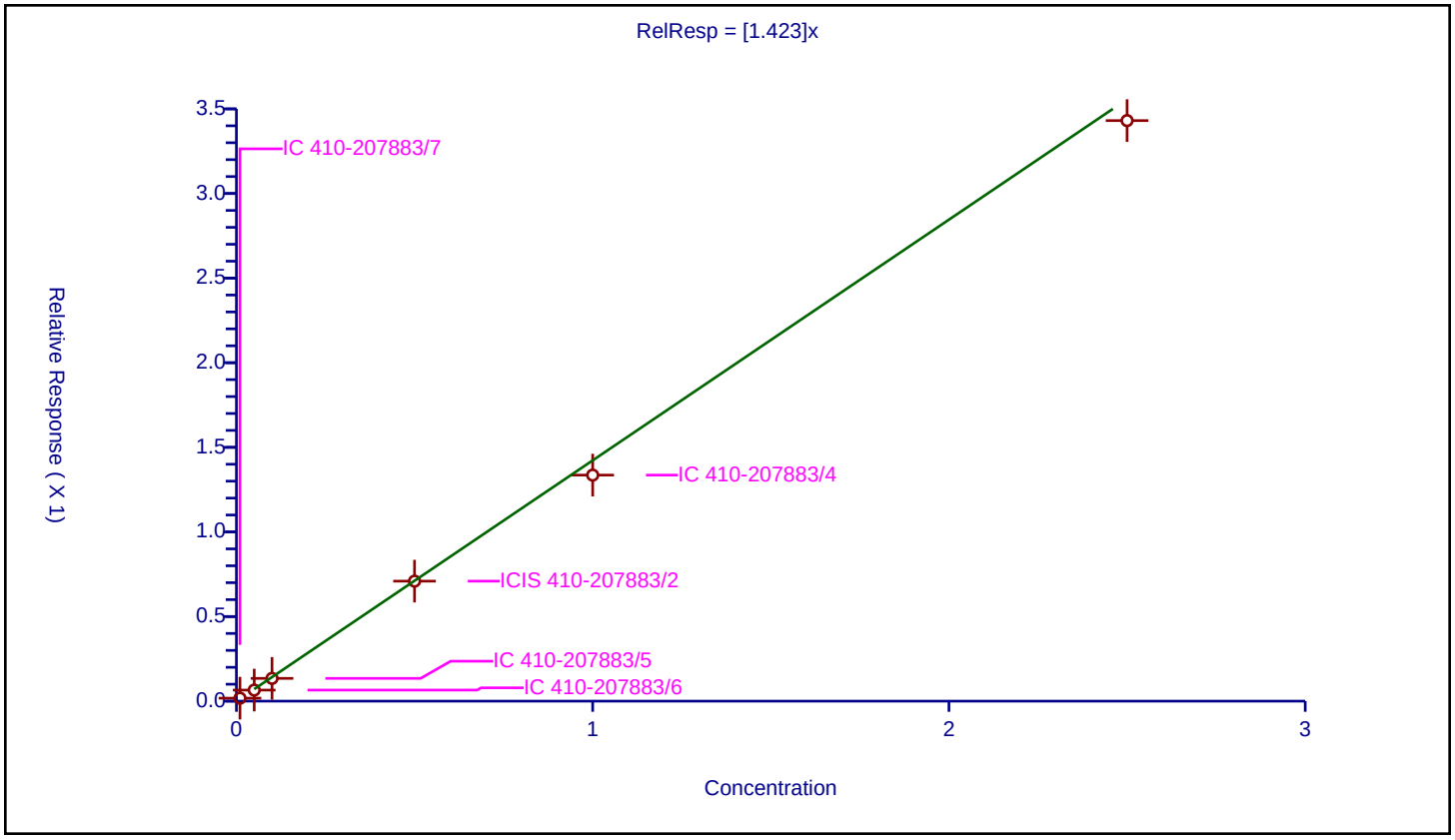
Curve Coefficients

Intercept:	0
Slope:	1.423

Error Coefficients

Standard Error:	2710000
Relative Standard Error:	11.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.01756	0.25	305254.0	1.755997	Y
2	IC 410-207883/6	0.05	0.065416	0.25	349304.0	1.308316	Y
3	IC 410-207883/5	0.1	0.134549	0.25	362432.0	1.345487	Y
4	ICIS 410-207883/2	0.5	0.709163	0.25	342589.0	1.418326	Y
5	IC 410-207883/4	1.0	1.335827	0.25	379025.0	1.335827	Y
6	IC 410-207883/3	2.5	3.430699	0.25	409781.0	1.37228	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

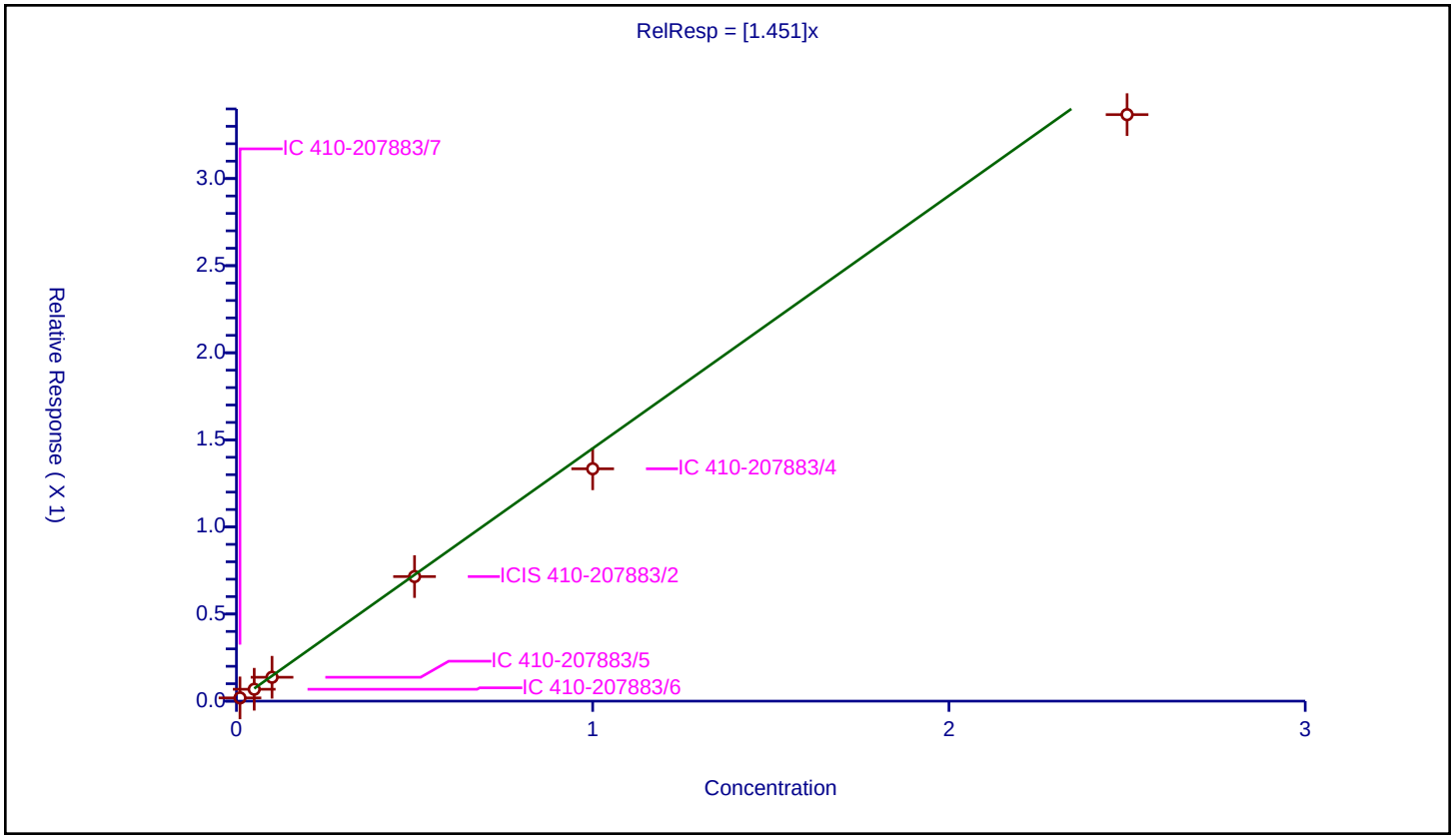
Curve Coefficients

Intercept:	0
Slope:	1.451

Error Coefficients

Standard Error:	2670000
Relative Standard Error:	13.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-207883/7	0.01	0.01858	0.25	305254.0	1.857961	Y
2	IC 410-207883/6	0.05	0.068221	0.25	349304.0	1.364428	Y
3	IC 410-207883/5	0.1	0.137096	0.25	362432.0	1.370961	Y
4	ICIS 410-207883/2	0.5	0.715159	0.25	342589.0	1.430319	Y
5	IC 410-207883/4	1.0	1.333884	0.25	379025.0	1.333884	Y
6	IC 410-207883/3	2.5	3.367133	0.25	409781.0	1.346853	Y



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 206078

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2021 09:13 Calibration End Date: 12/16/2021 11:36 Calibration ID: 34022

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-206078/7	NL0606.D
Level 2	IC 410-206078/6	NL0605.D
Level 3	IC 410-206078/5	NL0604.D
Level 4	ICIS 410-206078/2	NL0601.D
Level 5	IC 410-206078/4	NL0603.D
Level 6	IC 410-206078/3	NL0602.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.9620 0.5900	0.7285	0.7031	0.7053	0.5857	Ave		0.7124				19.2		20.4			
N-Nitrosodimethylamine	0.4635 0.6955	0.5419	0.6036	0.7467	0.6826	Ave		0.6223				17.1		20.4			
Bis(2-chloroethyl)ether	0.2245 0.3628	0.3073	0.3263	0.4123	0.3823	Ave		0.3359				19.8		20.4			
Naphthalene	1.1722 0.9268	1.0443	1.0546	1.0857	0.9875	Ave		1.0452				8.0		20.4			
Quinoline	0.5255 0.5774	0.5354	0.5613	0.6791	0.6062	Ave		0.5808				9.7		20.4			
2-Methylnaphthalene	0.7435 0.6097	0.6410	0.6562	0.7131	0.6394	Ave		0.6671				7.6		20.4			
1-Methylnaphthalene	0.7358 0.5730	0.7182	0.6931	0.6908	0.6060	Ave		0.6695				9.7		20.4			
Dimethylphthalate	1.3668 1.0593	1.2271	1.2080	1.2030	1.1442	Ave		1.2014				8.4		20.4			
Acenaphthylene	1.9927 1.6147	1.7561	1.7212	1.9276	1.6818	Ave		1.7823				8.2		20.4			
Acenaphthene	1.2116 1.0437	1.1032	1.0773	1.1759	1.0531	Ave		1.1108				6.2		20.4			
Dibenzofuran	1.6868 1.4991	1.6139	1.6473	1.7532	1.5557	Ave		1.6260				5.6		20.4			
Diethylphthalate	1.4063 1.1256	1.2706	1.2483	1.2622	1.1870	Ave		1.2500				7.5		20.4			
Fluorene	1.4961 1.1870	1.2755	1.2784	1.3617	1.2307	Ave		1.3049				8.4		20.4			
N-Nitrosodiphenylamine	0.7158 0.3693	0.4170	0.4415	0.4416	0.3868	Lin2	0.0032	0.3909							0.9930		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 206078

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2021 09:13 Calibration End Date: 12/16/2021 11:36 Calibration ID: 34022

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.3549 0.2526	0.2800	0.2674	0.2842	0.2582	Ave		0.2829				13.2		20.4			
Phenanthrene	1.2967 1.0001	1.0666	1.0578	1.1308	1.0219	Ave		1.0956				9.9		20.4			
Anthracene	1.2659 0.9069	0.9829	0.9765	1.0411	0.9810	Ave		1.0257				12.2		20.4			
Di-n-butyl phthalate	1.1381 0.9399	1.0390	1.0193	1.0218	1.0337	Ave		1.0320				6.1		20.4			
Fluoranthene	1.3053 0.9228	1.0925	1.0399	1.0905	0.9989	Ave		1.0750				12.0		20.4			
Pyrene	1.9156 1.3570	1.5434	1.4891	1.5956	1.4844	Ave		1.5642				12.1		20.4			
Butylbenzylphthalate	0.6503 0.5936	0.6110	0.5967	0.6505	0.6360	Ave		0.6230				4.2		20.4			
Benzo[a]anthracene	1.2739 1.2282	1.0121	1.1179	1.3317	1.2245	Ave		1.1980				9.6		20.4			
Chrysene	2.0478 1.1944	1.4893	1.3571	1.3417	1.1917	Lin2	0.0081	1.2577							0.9970		0.9900
Bis(2-ethylhexyl) phthalate	0.8662 0.8281	0.8043	0.8111	0.8573	0.8523	Ave		0.8366				3.1		20.4			
Di-n-octyl phthalate	1.4742 1.2747	1.3438	1.4505	1.4277	1.4021	Ave		1.3955				5.3		20.4			
Benzo[b]fluoranthene	1.3750 1.1565	1.1619	1.2323	1.3008	1.1560	Ave		1.2304				7.4		20.4			
Benzo[k]fluoranthene	1.9053 1.1767	1.2966	1.4383	1.3705	1.2251	Ave		1.4021				18.8		20.4			
Benzo[e]pyrene	1.4640 1.1129	1.2138	1.2417	1.2957	1.1660	Ave		1.2490				9.8		20.4			
Benzo[a]pyrene	1.3771 1.0638	1.1352	1.1870	1.2507	1.1185	Ave		1.1887				9.4		20.4			
Perylene	1.3747 1.0848	1.2093	1.2245	1.2481	1.1255	Ave		1.2111				8.4		20.4			
Indeno[1,2,3-cd]pyrene	1.0730 1.1928	0.9884	1.0331	1.1533	1.0599	Ave		1.0834				7.0		20.4			
Dibenz(a,h)anthracene	1.4075 1.2635	1.1300	1.1749	1.3109	1.1626	Ave		1.2416				8.5		20.4			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 206078

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2021 09:13 Calibration End Date: 12/16/2021 11:36 Calibration ID: 34022

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.6955 1.3322	1.2536	1.3053	1.3727	1.2621	Ave		1.3702				12.1		20.4			
1-Methylnaphthalene-d10 (Surr)	0.6257 0.4683	0.5520	0.5267	0.5305	0.4801	Ave		0.5306				10.6		20.4			
Fluoranthene-d10 (Surr)	1.3131 0.7594	1.0094	0.9016	0.9188	0.8467	Ave		0.9582				20.1		20.4			
Benzo(a)pyrene-d12 (Surr)	1.4408 0.8619	0.9227	0.9399	0.9475	0.8817	Lin2	0.0055	0.8759							0.9980		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-68043-1 Analy Batch No.: 206078

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2021 09:13 Calibration End Date: 12/16/2021 11:36 Calibration ID: 34022

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-206078/7	NL0606.D
Level 2	IC 410-206078/6	NL0605.D
Level 3	IC 410-206078/5	NL0604.D
Level 4	ICIS 410-206078/2	NL0601.D
Level 5	IC 410-206078/4	NL0603.D
Level 6	IC 410-206078/3	NL0602.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	3227 555458	13387	26703	130199	226771	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	1555 654834	9958	22926	137842	264256	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	2669 1230491	20219	43878	262245	522012	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	13938 3143687	68717	141792	690504	1348470	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	6248 1958367	35232	75464	431908	827725	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	8840 2068208	42176	88232	453537	873073	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	8749 1943582	47260	93194	439381	827493	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	230914 7577799	445535	911767	2035861	4268502	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	13466 2887627	63761	129911	652425	1254769	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	8188 1866548	40056	81317	397987	785763	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	11399 2680877	58598	124340	593374	1160732	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	237579 8052021	461314	942215	2136079	4428224	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	10110	46311	96495	460891	918231	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 Env Job No.: 410-68043-1 Analy Batch No.: 206078

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2021 09:13 Calibration End Date: 12/16/2021 11:36 Calibration ID: 34022

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
			2122778					2.50				
N-Nitrosodiphenylamine	PHN	Lin2	8310 1147704	26725	59868	275674	505724	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	4120 784979	17946	36260	177406	337582	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	15053 3107964	68361	143446	705942	1335890	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	14696 2818342	62999	132416	649992	1282507	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	330289 11683074	665903	1382153	3189716	6757113	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	15153 2867738	70024	141017	680818	1305921	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	16572 3032834	73522	150816	732463	1393991	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	140647 5306248	291081	604351	1493152	2986415	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	11020 2745060	48212	113219	611314	1149978	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Lin2	17715 2669395	70947	137453	615927	1119147	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	187333 7403132	383158	821519	1967772	4002014	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	306254 12722186	631807	1354031	3267537	6541984	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	11426 2885753	54626	115038	595421	1078799	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	15832 2936025	60960	134266	627316	1143233	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	12165 2776822	57067	115910	593113	1088063	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	11443 2654433	53372	110806	572516	1043806	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	11423 2706847	56853	114305	571291	1050283	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	8916	46471	96438	527932	989105	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 Env Job No.: 410-68043-1 Analy Batch No.: 206078

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2021 09:13 Calibration End Date: 12/16/2021 11:36 Calibration ID: 34022

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
			2976232					2.50				
Dibenz(a,h)anthracene	PRY	Ave	11696 3152616	53129	109673	600078	1084895	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	14089 3324088	58939	121854	628330	1177794	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	7440 1588454	36320	70822	337400	655575	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	15244 2359908	64696	122262	573593	1106868	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Lin2	11972 2150628	43379	87739	433692	822802	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 Env Job No.: 410-68043-1 Analy Batch No.: 206078

SDG No.:

Instrument ID: HP23263 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/16/2021 09:13 Calibration End Date: 12/16/2021 11:36 Calibration ID: 34022

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-206078/7	NL0606.D
Level 2	IC 410-206078/6	NL0605.D
Level 3	IC 410-206078/5	NL0604.D
Level 4	ICIS 410-206078/2	NL0601.D
Level 5	IC 410-206078/4	NL0603.D
Level 6	IC 410-206078/3	NL0602.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
N-Nitrosodiphenylamine	1.3	-9.7	4.8	11.3	-1.8	-5.8	50	30	30	30	30	30
Chrysene	-1.3	5.6	1.5	5.4	-5.9	-5.3	50	30	30	30	30	30
Benzo(a)pyrene-d12 (Surr)	1.2	-7.3	1.0	6.9	0.0	-1.8	50	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0601.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 16-Dec-2021 09:13:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0046502-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:14:49 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: gamblerj Date: 16-Dec-2021 10:35:53

	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	2.149	2.149	0.000	98	130199	0.5000	0.4950	M
	2 N-Nitrosodimethylamine	74	2.456	2.456	0.000	93	137842	0.5000	0.5999	
	3 Bis(2-chloroethyl)ether	93	5.631	5.631	0.000	90	262245	0.5000	0.6137	
*	4 1,4-Dichlorobenzene-d4	152	5.981	5.981	0.000	87	92306	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.006	8.006	0.000	100	318012	0.2500	0.2500	
	6 Naphthalene	128	8.031	8.031	0.000	99	690504	0.5000	0.5194	
	7 Quinoline	129	8.593	8.593	0.000	98	431908	0.5000	0.5846	
	8 2-Methylnaphthalene	142	9.173	9.173	0.000	99	453537	0.5000	0.5344	
$	9 1-Methylnaphthalene-d10	152	9.273	9.273	0.000	100	337400	0.5000	0.4999	
	10 1-Methylnaphthalene	142	9.324	9.324	0.000	100	439381	0.5000	0.5159	
	11 Dimethyl phthalate	163	10.515	10.515	0.000	99	2035861	2.50	2.50	
	12 Acenaphthylene	152	10.626	10.626	0.000	99	652425	0.5000	0.5408	
*	13 Acenaphthene-d10	164	10.856	10.856	0.000	93	169229	0.2500	0.2500	
	14 Acenaphthene	154	10.906	10.906	0.000	99	397987	0.5000	0.5293	
	15 Dibenzofuran	168	11.203	11.203	0.000	99	593374	0.5000	0.5391	
	16 Diethyl phthalate	149	11.627	11.627	0.000	99	2136079	2.50	2.52	
	17 Fluorene	166	11.697	11.697	0.000	100	460891	0.5000	0.5218	
	18 N-Nitrosodiphenylamine	169	11.905	11.905	0.000	97	275674	0.5000	0.5567	
	19 Hexachlorobenzene	284	12.361	12.361	0.000	98	177406	0.5000	0.5023	
*	20 Phenanthrene-d10	188	12.832	12.832	0.000	99	312153	0.2500	0.2500	
	21 Phenanthrene	178	12.863	12.863	0.000	100	705942	0.5000	0.5160	
	22 Anthracene	178	12.925	12.925	0.000	100	649992	0.5000	0.5075	
	23 Di-n-butyl phthalate	149	13.661	13.661	0.000	100	3189716	2.50	2.48	
$	24 Fluoranthene-d10 (Surr)	212	14.432	14.432	0.000	100	573593	0.5000	0.4794	M
	25 Fluoranthene	202	14.463	14.463	0.000	98	680818	0.5000	0.5072	
	26 Pyrene	202	14.789	14.789	0.000	99	732463	0.5000	0.5100	
	27 Butyl benzyl phthalate	149	15.934	15.934	0.000	100	1493152	2.50	2.61	
	28 Benzo[a]anthracene	228	16.770	16.770	0.000	100	611314	0.5000	0.5558	
*	29 Chrysene-d12	240	16.785	16.785	0.000	85	229531	0.2500	0.2500	
	30 Chrysene	228	16.831	16.831	0.000	100	615927	0.5000	0.5270	M

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	16.992	16.992	0.000	100	1967772	2.50	2.56	
32 Di-n-octyl phthalate	149	18.150	18.150	0.000	100	3267537	2.50	2.56	
33 Benzo[b]fluoranthene	252	18.618	18.618	0.000	100	595421	0.5000	0.5286	
34 Benzo[k]fluoranthene	252	18.672	18.672	0.000	100	627316	0.5000	0.4887	
35 Benzo[e]pyrene	252	19.063	19.063	0.000	100	593113	0.5000	0.5187	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.109	19.109	0.000	98	433692	0.5000	0.5345	
37 Benzo[a]pyrene	252	19.147	19.147	0.000	100	572516	0.5000	0.5261	
* 38 Perylene-d12	264	19.239	19.239	0.000	97	228872	0.2500	0.2500	
39 Perylene	252	19.278	19.278	0.000	100	571291	0.5000	0.5152	
40 Indeno[1,2,3-cd]pyrene	276	20.848	20.848	0.000	97	527932	0.5000	0.5323	
41 Dibenz(a,h)anthracene	278	20.890	20.890	0.000	98	600078	0.5000	0.5279	
42 Benzo[g,h,i]perylene	276	21.222	21.222	0.000	99	628330	0.5000	0.5009	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

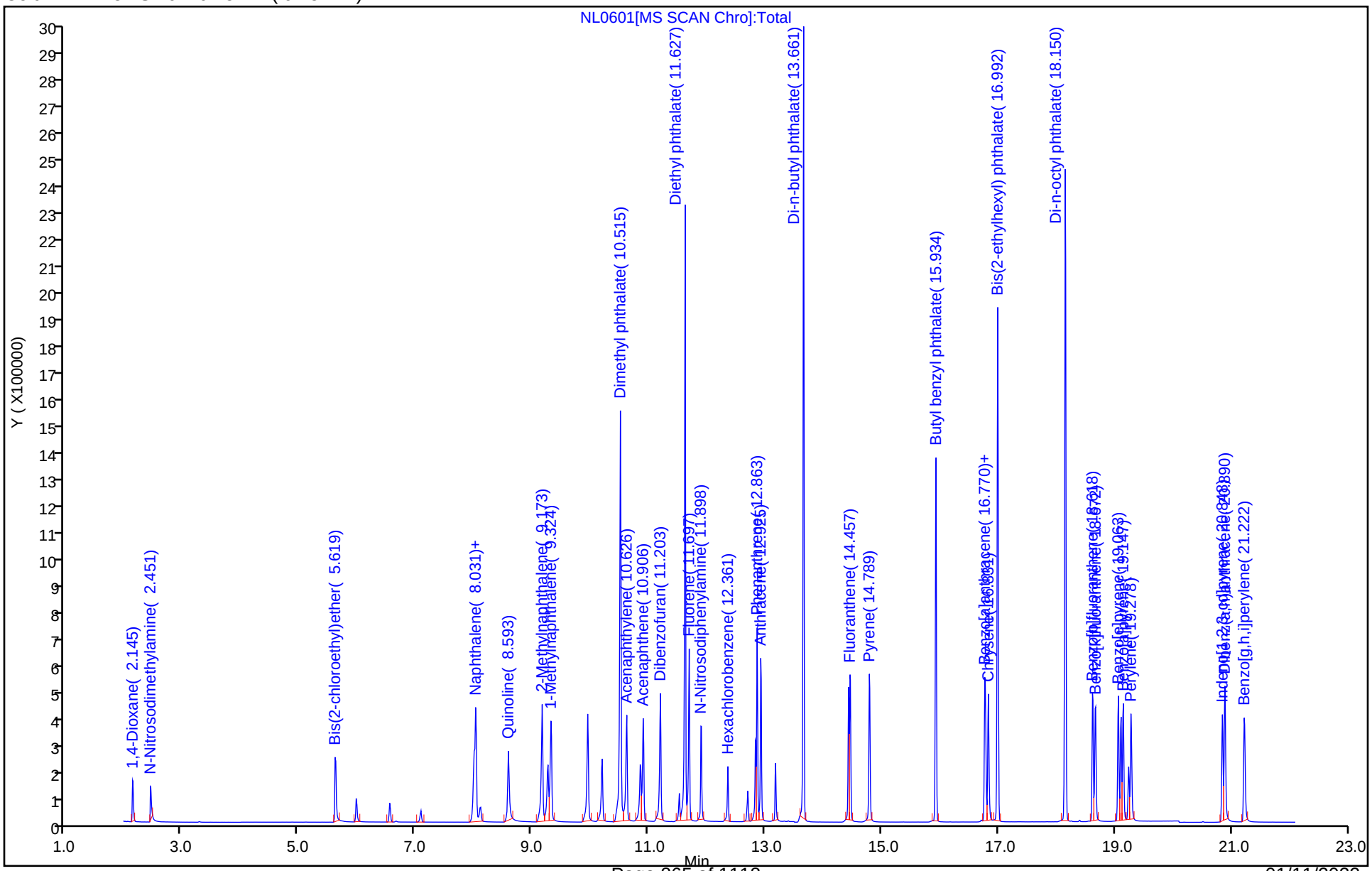
Report Date: 16-Dec-2021 14:14:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0601.D

Injection Date:	16-Dec-2021 09:13:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

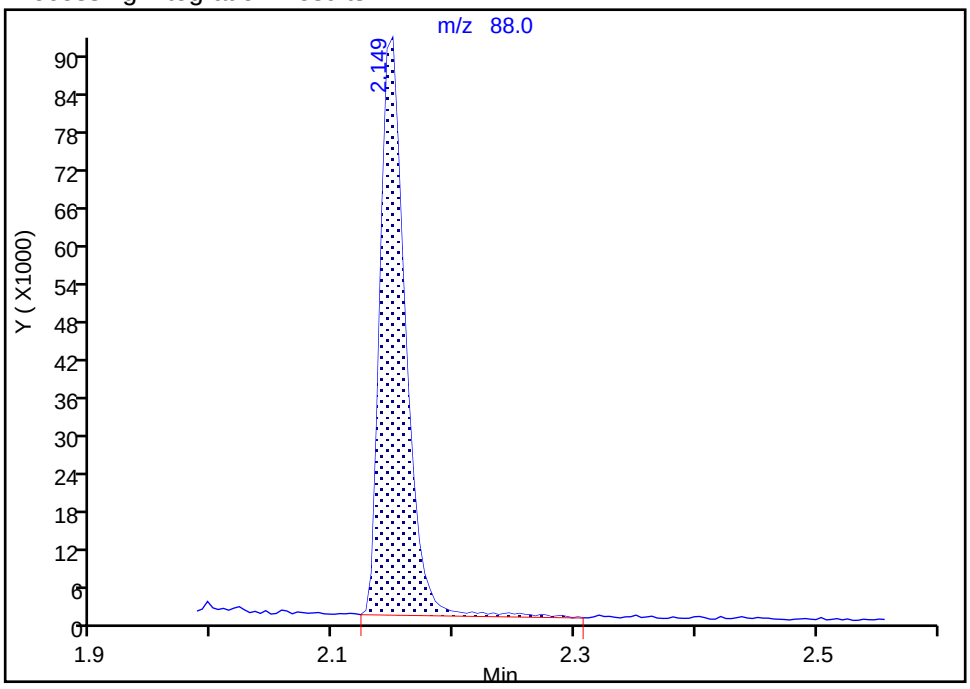
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Injection Date:	16-Dec-2021 09:13:30	Instrument ID:	HP23263		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

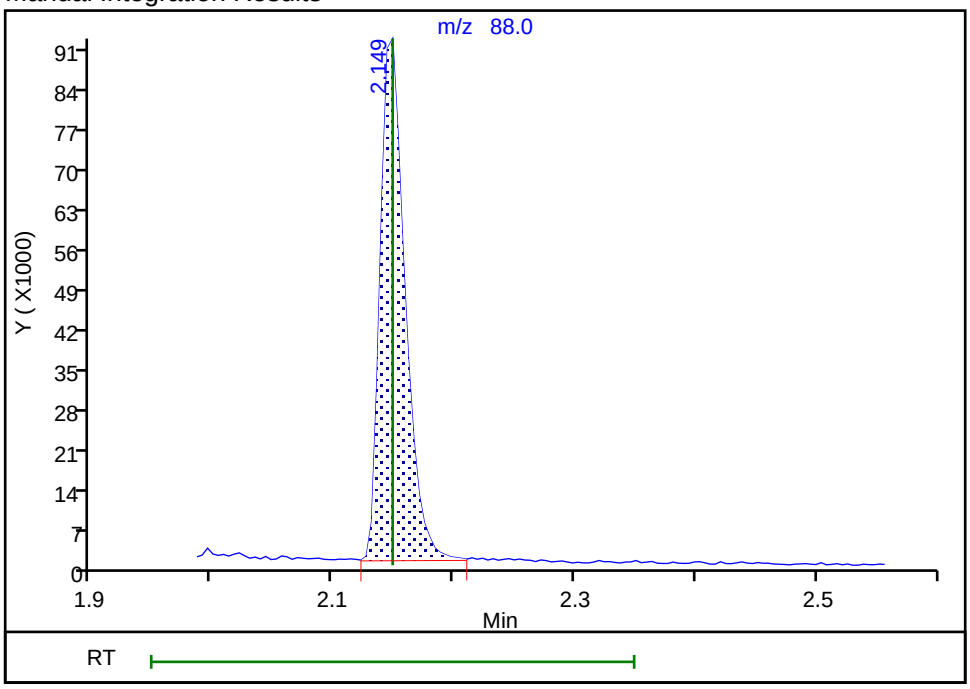
Processing Integration Results

RT: 2.15
Area: 132444
Amount: 0.563525
Amount Units: ug/ml



Manual Integration Results

RT: 2.15
Area: 130199
Amount: 0.494974
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:30:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

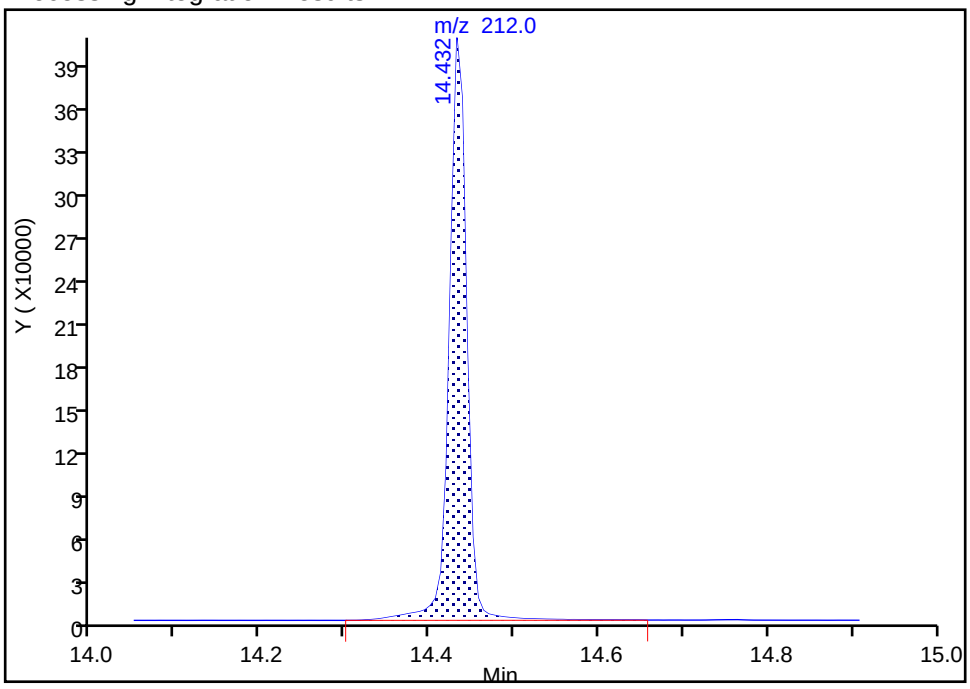
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Injection Date: 16-Dec-2021 09:13:30 Instrument ID: HP23263
Lims ID: ICIS L4
Client ID:
Operator ID: jmg00346 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

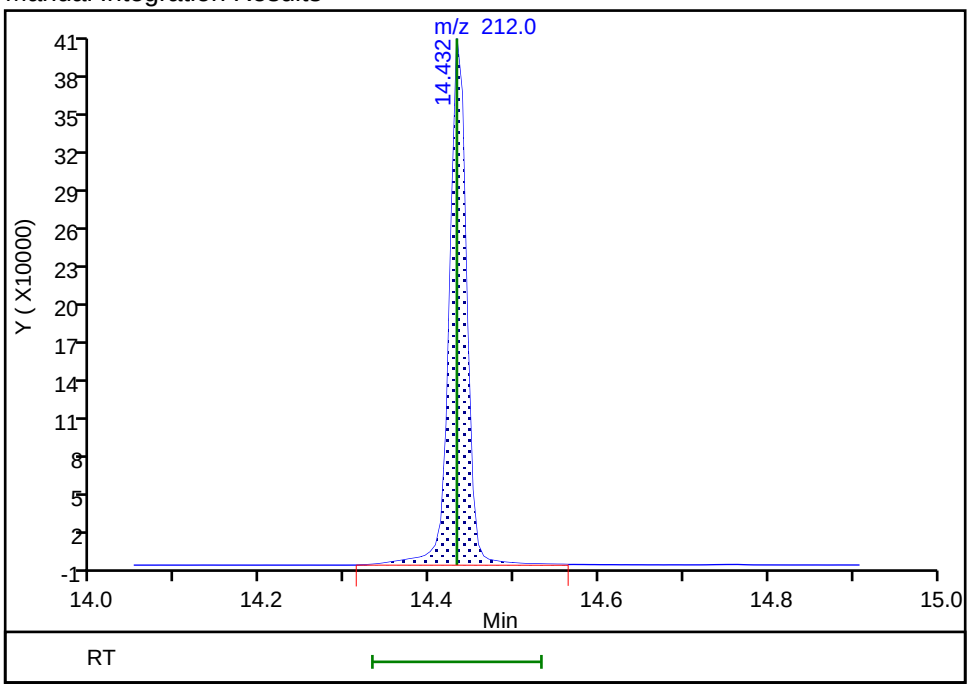
Processing Integration Results

RT: 14.43
Area: 574059
Amount: 0.534202
Amount Units: ug/ml



Manual Integration Results

RT: 14.43
Area: 573593
Amount: 0.479443
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:36:50
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

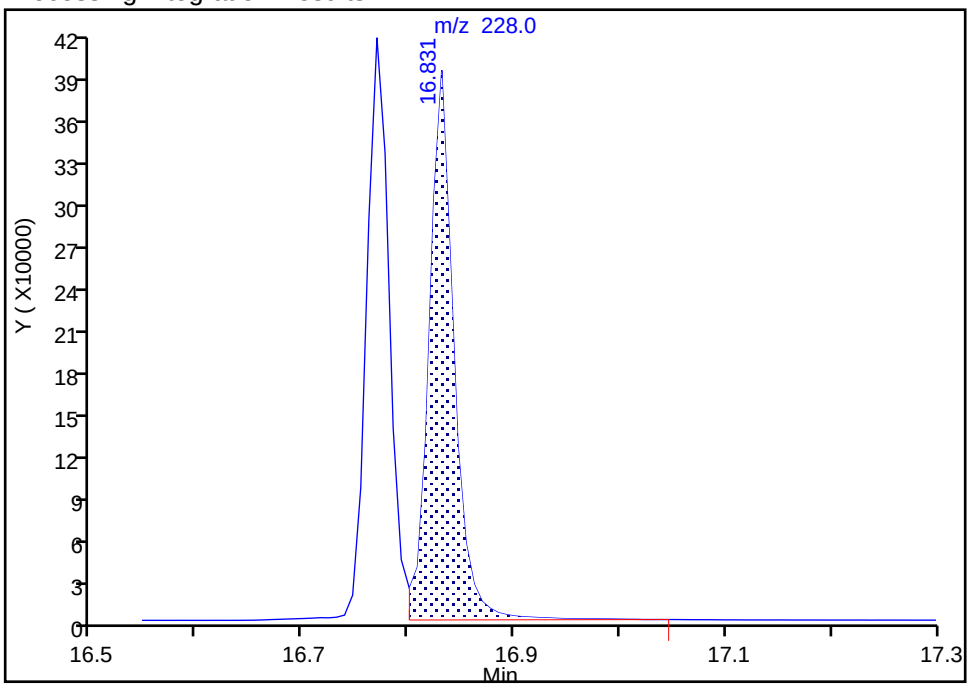
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0601.D
Injection Date: 16-Dec-2021 09:13:30 Instrument ID: HP23263
Lims ID: ICIS L4
Client ID:
Operator ID: jmg00346 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

30 Chrysene, CAS: 218-01-9

Signal: 1

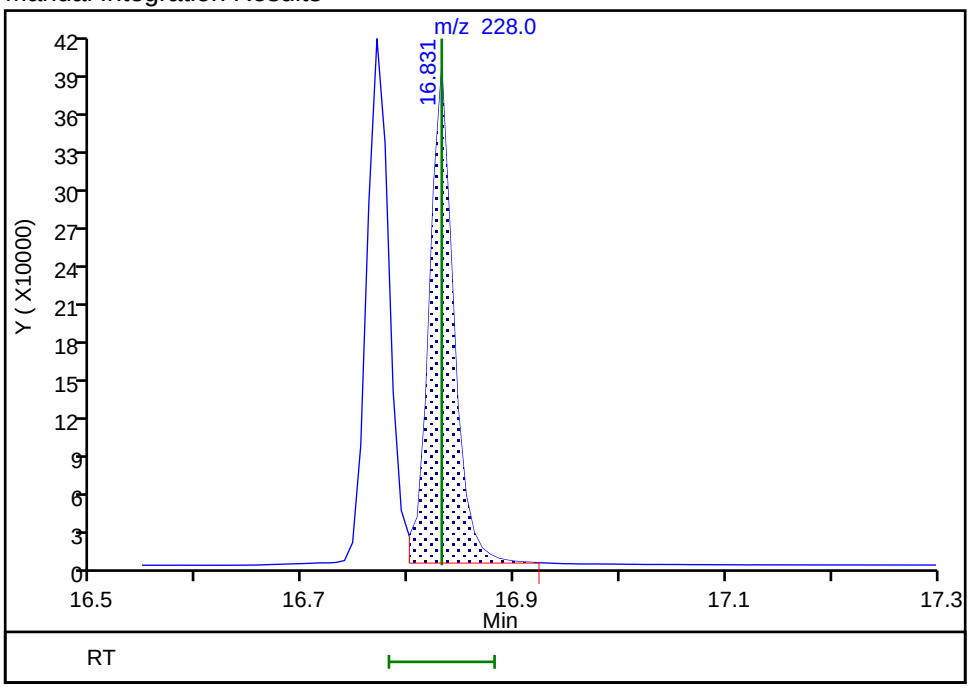
Processing Integration Results

RT: 16.83
Area: 629458
Amount: 0.533189
Amount Units: ug/ml



Manual Integration Results

RT: 16.83
Area: 615927
Amount: 0.526975
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:33:12
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0602.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Dec-2021 09:46:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0046502-003
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:14:52 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: gamblerj Date: 16-Dec-2021 10:36:49

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	2.140	2.149	-0.009	99	555458	2.50	2.07	M
2 N-Nitrosodimethylamine	74	2.447	2.456	-0.009	88	654834	2.50	2.79	
3 Bis(2-chloroethyl)ether	93	5.619	5.631	-0.012	100	1230491	2.50	2.70	
* 4 1,4-Dichlorobenzene-d4	152	5.981	5.981	0.000	89	94148	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.006	8.006	0.000	56	339193	0.2500	0.2500	
6 Naphthalene	128	8.031	8.031	0.000	99	3143687	2.50	2.22	
7 Quinoline	129	8.593	8.593	0.000	100	1958367	2.50	2.49	
8 2-Methylnaphthalene	142	9.173	9.173	0.000	99	2068208	2.50	2.28	
$ 9 1-Methylnaphthalene-d10	152	9.273	9.273	0.000	100	1588454	2.50	2.21	
10 1-Methylnaphthalene	142	9.323	9.324	-0.001	100	1943582	2.50	2.14	
11 Dimethyl phthalate	163	10.525	10.515	0.010	100	7577799	10.0	8.82	
12 Acenaphthylene	152	10.625	10.626	-0.001	99	2887627	2.50	2.26	
* 13 Acenaphthene-d10	164	10.866	10.856	0.010	84	178836	0.2500	0.2500	
14 Acenaphthene	154	10.916	10.906	0.010	95	1866548	2.50	2.35	
15 Dibenzofuran	168	11.203	11.203	0.000	99	2680877	2.50	2.30	
16 Diethyl phthalate	149	11.635	11.627	0.008	98	8052021	10.0	9.00	
17 Fluorene	166	11.697	11.697	0.000	100	2122778	2.50	2.27	
18 N-Nitrosodiphenylamine	169	11.898	11.905	-0.007	99	1147704	2.50	2.35	
19 Hexachlorobenzene	284	12.361	12.361	0.000	99	784979	2.50	2.23	
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	96	310768	0.2500	0.2500	
21 Phenanthrene	178	12.863	12.863	0.000	100	3107964	2.50	2.28	
22 Anthracene	178	12.925	12.925	0.000	99	2818342	2.50	2.21	
23 Di-n-butyl phthalate	149	13.667	13.661	0.006	100	11683074	10.0	9.11	e
$ 24 Fluoranthene-d10 (Surr)	212	14.438	14.432	0.006	98	2359908	2.50	1.98	M
25 Fluoranthene	202	14.463	14.463	0.000	99	2867738	2.50	2.15	
26 Pyrene	202	14.789	14.789	0.000	99	3032834	2.50	2.17	
27 Butyl benzyl phthalate	149	15.941	15.934	0.007	100	5306248	10.0	9.53	
28 Benzo[a]anthracene	228	16.777	16.770	0.007	99	2745060	2.50	2.56	
* 29 Chrysene-d12	240	16.793	16.785	0.008	55	223495	0.2500	0.2500	
30 Chrysene	228	16.831	16.831	0.000	100	2669395	2.50	2.37	M

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	17.000	16.992	0.008	99	7403132	10.0	9.90	
32 Di-n-octyl phthalate	149	18.165	18.150	0.015	100	12722186	10.0	9.13	
33 Benzo[b]fluoranthene	252	18.626	18.618	0.008	99	2885753	2.50	2.35	
34 Benzo[k]fluoranthene	252	18.672	18.672	0.000	99	2936025	2.50	2.10	
35 Benzo[e]pyrene	252	19.070	19.063	0.007	99	2776822	2.50	2.23	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.116	19.109	0.007	99	2150628	2.50	2.45	
37 Benzo[a]pyrene	252	19.155	19.147	0.008	100	2654433	2.50	2.24	
* 38 Perylene-d12	264	19.239	19.239	0.000	98	249521	0.2500	0.2500	
39 Perylene	252	19.285	19.278	0.007	100	2706847	2.50	2.24	
40 Indeno[1,2,3-cd]pyrene	276	20.855	20.848	0.007	97	2976232	2.50	2.75	
41 Dibenz(a,h)anthracene	278	20.897	20.890	0.007	98	3152616	2.50	2.54	
42 Benzo[g,h,i]perylene	276	21.236	21.222	0.014	98	3324088	2.50	2.43	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00012 Amount Added: 1.00 Units: mL

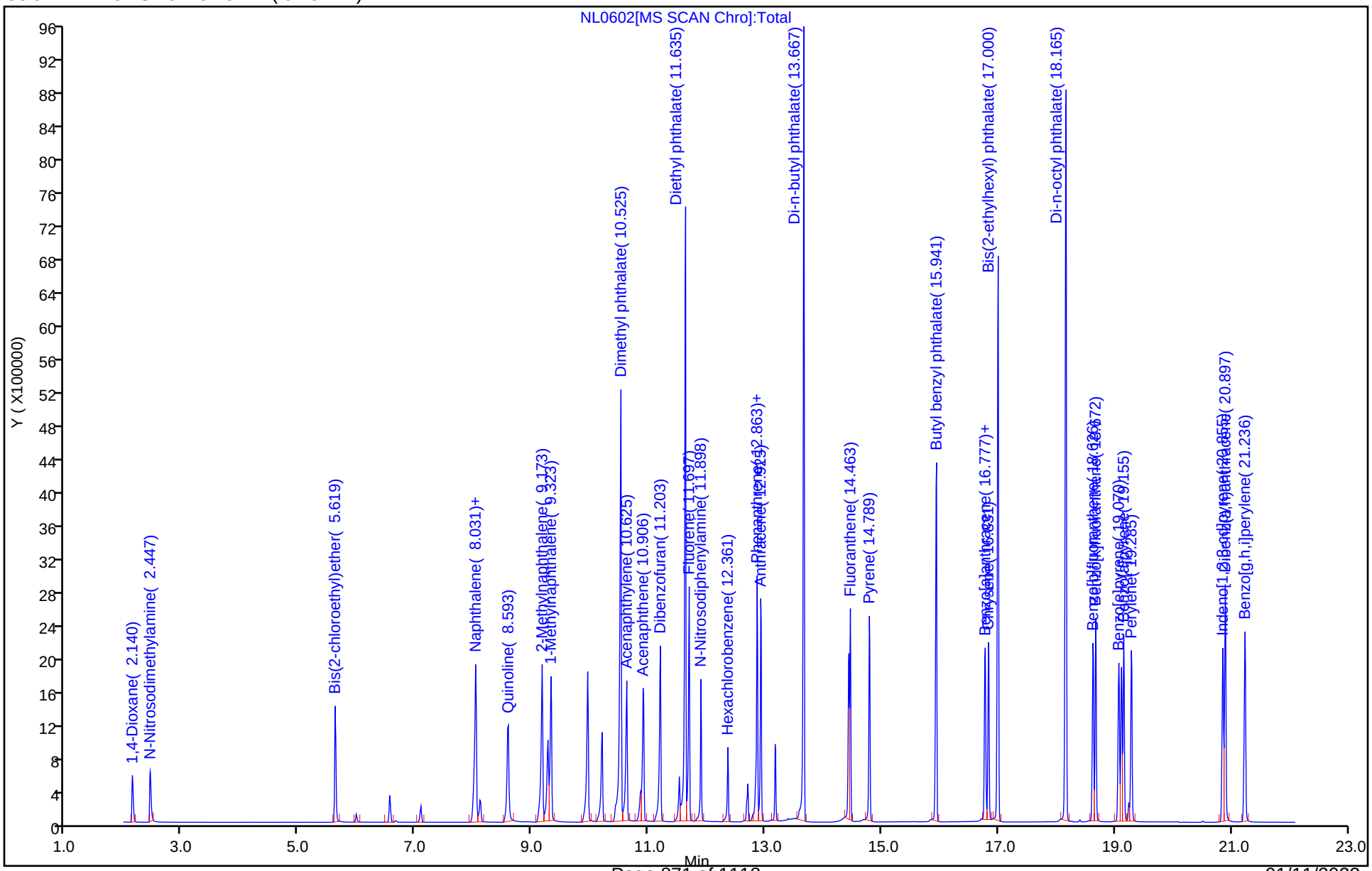
Report Date: 16-Dec-2021 14:14:53 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0602.D

Injection Date:	16-Dec-2021 09:46:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

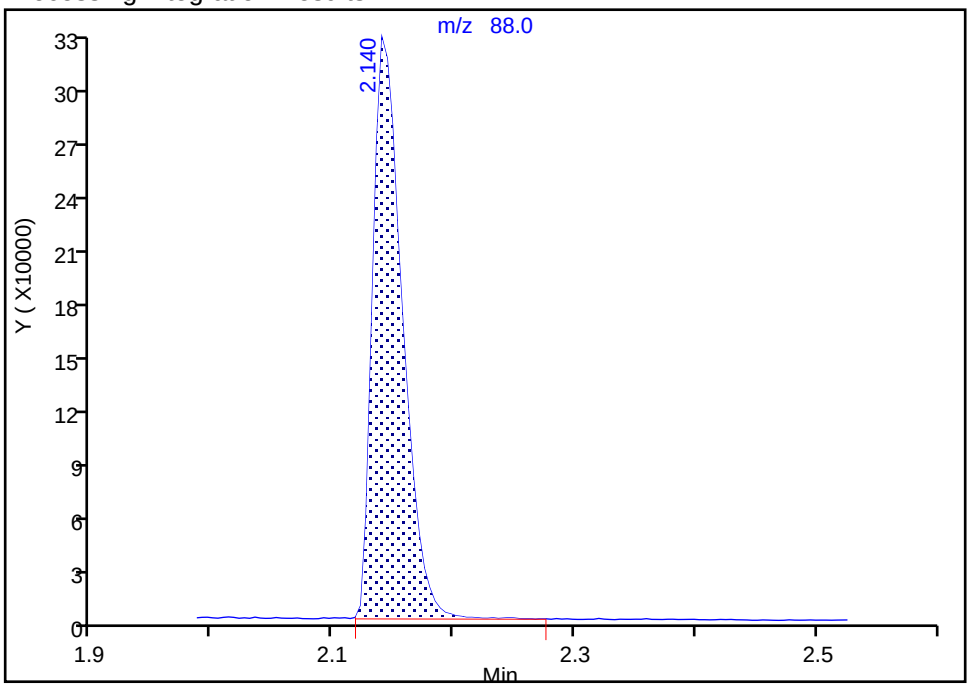
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Injection Date: 16-Dec-2021 09:46:30 Instrument ID: HP23263
Lims ID: IC L6
Client ID:
Operator ID: jmg00346 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

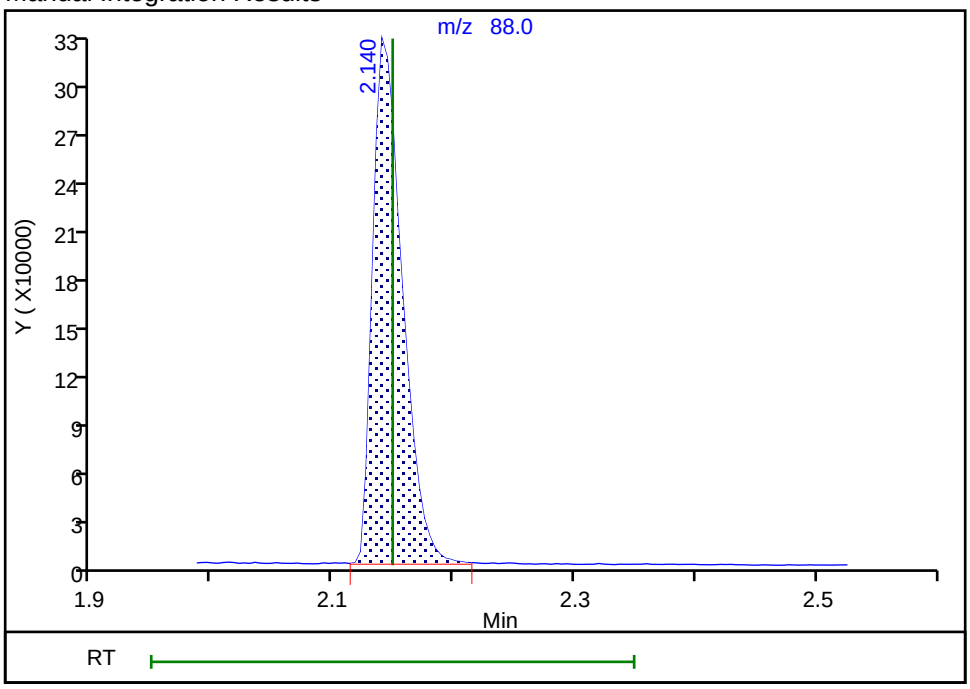
Processing Integration Results

RT: 2.14
Area: 556189
Amount: 2.357019
Amount Units: ug/ml



Manual Integration Results

RT: 2.14
Area: 555458
Amount: 2.070356
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:30:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

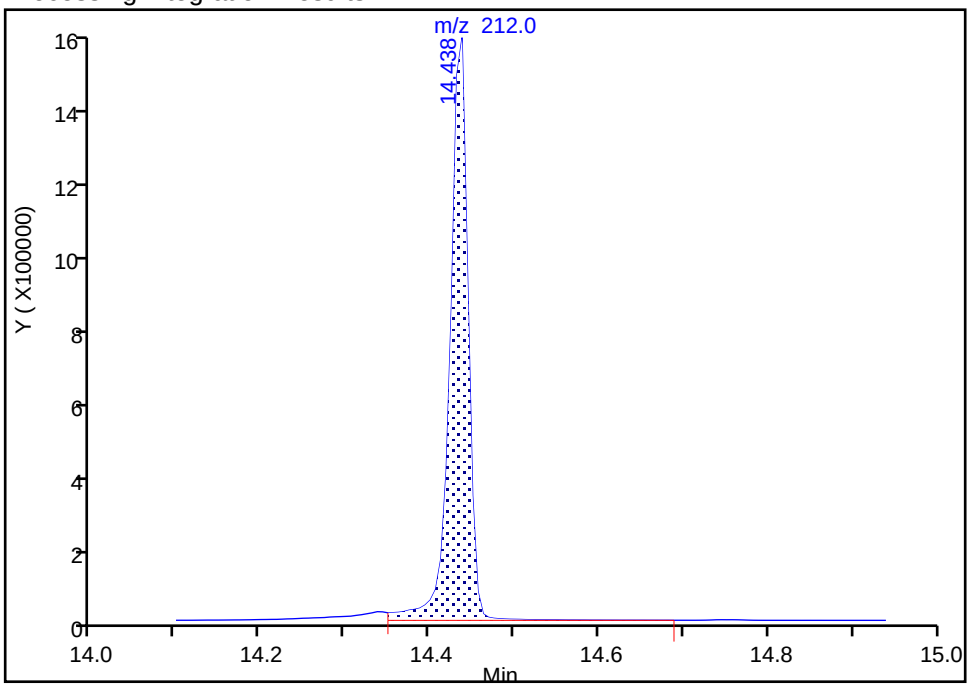
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Injection Date: 16-Dec-2021 09:46:30 Instrument ID: HP23263
Lims ID: IC L6
Client ID:
Operator ID: jmg00346 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

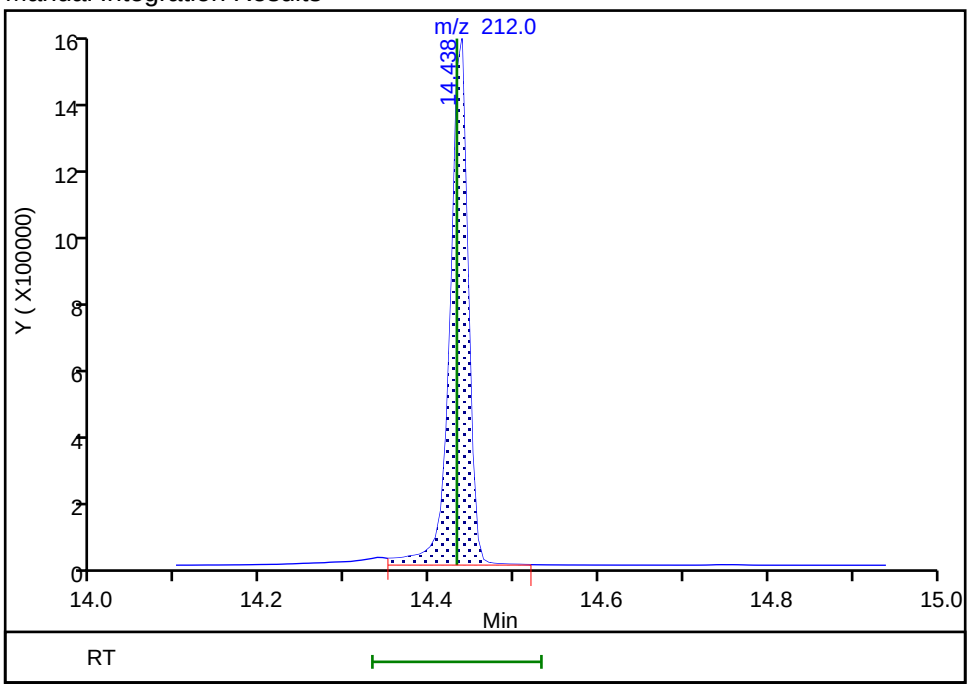
Processing Integration Results

RT: 14.44
Area: 2371447
Amount: 2.234589
Amount Units: ug/ml



Manual Integration Results

RT: 14.44
Area: 2359908
Amount: 1.981341
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:37:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

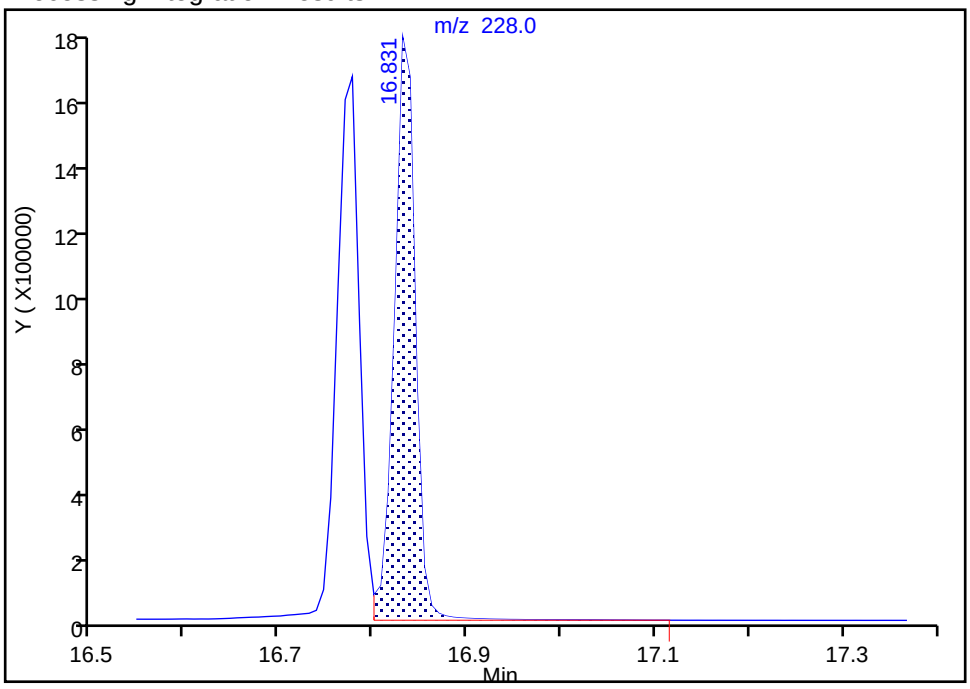
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Injection Date: 16-Dec-2021 09:46:30 Instrument ID: HP23263
Lims ID: IC L6
Client ID:
Operator ID: jmg00346 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

30 Chrysene, CAS: 218-01-9

Signal: 1

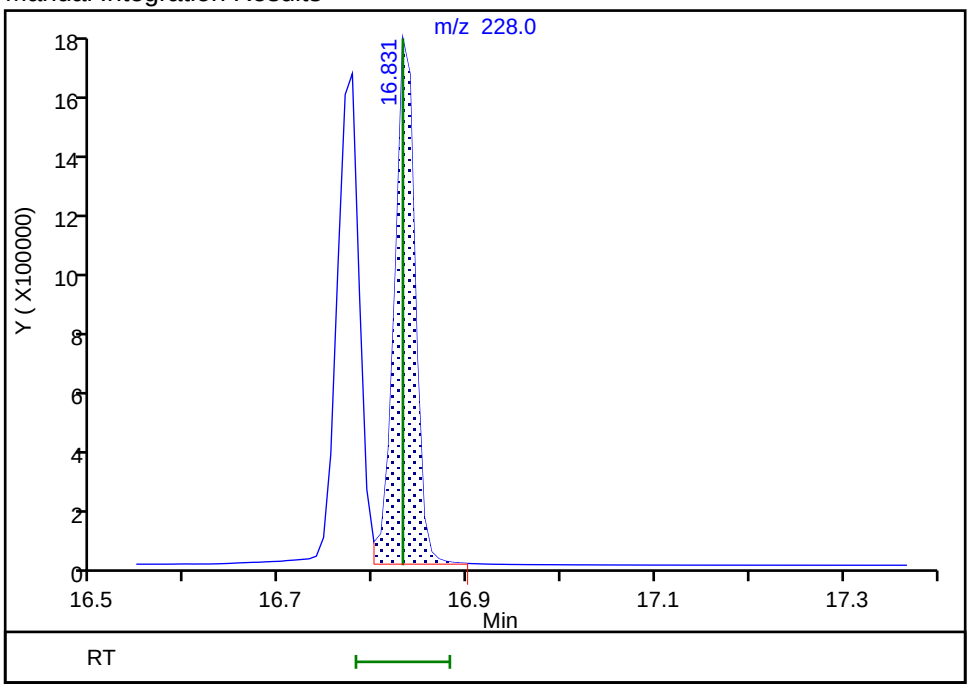
Processing Integration Results

RT: 16.83
Area: 2705873
Amount: 2.387008
Amount Units: ug/ml



Manual Integration Results

RT: 16.83
Area: 2669395
Amount: 2.367688
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:33:52
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0603.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 16-Dec-2021 10:13:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0046502-004
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:14:55 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: gamblerj Date: 16-Dec-2021 10:46:19

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	2.153	2.149	0.004	99	226771	1.00	0.8222	M
2 N-Nitrosodimethylamine	74	2.460	2.456	0.004	89	264256	1.00	1.10	
3 Bis(2-chloroethyl)ether	93	5.631	5.631	0.000	92	522012	1.00	1.14	
* 4 1,4-Dichlorobenzene-d4	152	5.994	5.981	0.013	99	96789	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.006	8.006	0.000	100	341379	0.2500	0.2500	
6 Naphthalene	128	8.031	8.031	0.000	99	1348470	1.00	0.9448	
7 Quinoline	129	8.593	8.593	0.000	100	827725	1.00	1.04	
8 2-Methylnaphthalene	142	9.173	9.173	0.000	99	873073	1.00	0.9584	
$ 9 1-Methylnaphthalene-d10	152	9.273	9.273	0.000	100	655575	1.00	0.9049	
10 1-Methylnaphthalene	142	9.323	9.324	-0.001	100	827493	1.00	0.9051	
11 Dimethyl phthalate	163	10.515	10.515	0.000	98	4268502	5.00	4.76	
12 Acenaphthylene	152	10.626	10.626	0.000	98	1254769	1.00	0.9436	
* 13 Acenaphthene-d10	164	10.856	10.856	0.000	94	186527	0.2500	0.2500	
14 Acenaphthene	154	10.906	10.906	0.000	98	785763	1.00	0.9481	
15 Dibenzofuran	168	11.203	11.203	0.000	99	1160732	1.00	0.9568	
16 Diethyl phthalate	149	11.627	11.627	0.000	100	4428224	5.00	4.75	
17 Fluorene	166	11.697	11.697	0.000	99	918231	1.00	0.9431	
18 N-Nitrosodiphenylamine	169	11.898	11.905	-0.007	100	505724	1.00	0.9815	
19 Hexachlorobenzene	284	12.361	12.361	0.000	98	337582	1.00	0.9128	
* 20 Phenanthrene-d10	188	12.840	12.832	0.008	100	326827	0.2500	0.2500	
21 Phenanthrene	178	12.863	12.863	0.000	100	1335890	1.00	0.9327	
22 Anthracene	178	12.925	12.925	0.000	99	1282507	1.00	0.9564	
23 Di-n-butyl phthalate	149	13.661	13.661	0.000	100	6757113	5.00	5.01	
$ 24 Fluoranthene-d10 (Surr)	212	14.432	14.432	0.000	100	1106868	1.00	0.8836	M
25 Fluoranthene	202	14.463	14.463	0.000	98	1305921	1.00	0.9292	
26 Pyrene	202	14.789	14.789	0.000	98	1393991	1.00	0.9490	
27 Butyl benzyl phthalate	149	15.934	15.934	0.000	100	2986415	5.00	5.10	
28 Benzo[a]anthracene	228	16.770	16.770	0.000	99	1149978	1.00	1.02	
* 29 Chrysene-d12	240	16.785	16.785	0.000	50	234777	0.2500	0.2500	
30 Chrysene	228	16.831	16.831	0.000	100	1119147	1.00	0.9411	M

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	16.992	16.992	0.000	100	4002014	5.00	5.09	
32 Di-n-octyl phthalate	149	18.158	18.150	0.008	100	6541984	5.00	5.02	
33 Benzo[b]fluoranthene	252	18.626	18.618	0.008	100	1078799	1.00	0.9395	
34 Benzo[k]fluoranthene	252	18.672	18.672	0.000	100	1143233	1.00	0.8738	
35 Benzo[e]pyrene	252	19.063	19.063	0.000	100	1088063	1.00	0.9335	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.109	19.109	0.000	98	822802	1.00	1.00	
37 Benzo[a]pyrene	252	19.147	19.147	0.000	100	1043806	1.00	0.9409	
* 38 Perylene-d12	264	19.239	19.239	0.000	97	233298	0.2500	0.2500	
39 Perylene	252	19.278	19.278	0.000	100	1050283	1.00	0.9293	
40 Indeno[1,2,3-cd]pyrene	276	20.848	20.848	0.000	97	989105	1.00	0.9783	
41 Dibenz(a,h)anthracene	278	20.890	20.890	0.000	98	1084895	1.00	0.9364	
42 Benzo[g,h,i]perylene	276	21.229	21.222	0.007	97	1177794	1.00	0.9211	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00014 Amount Added: 1.00 Units: mL

Report Date: 16-Dec-2021 14:14:56 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0603.D

Injection Date: 16-Dec-2021 10:13:30 Instrument ID: HP23263 Operator ID: jmg00346

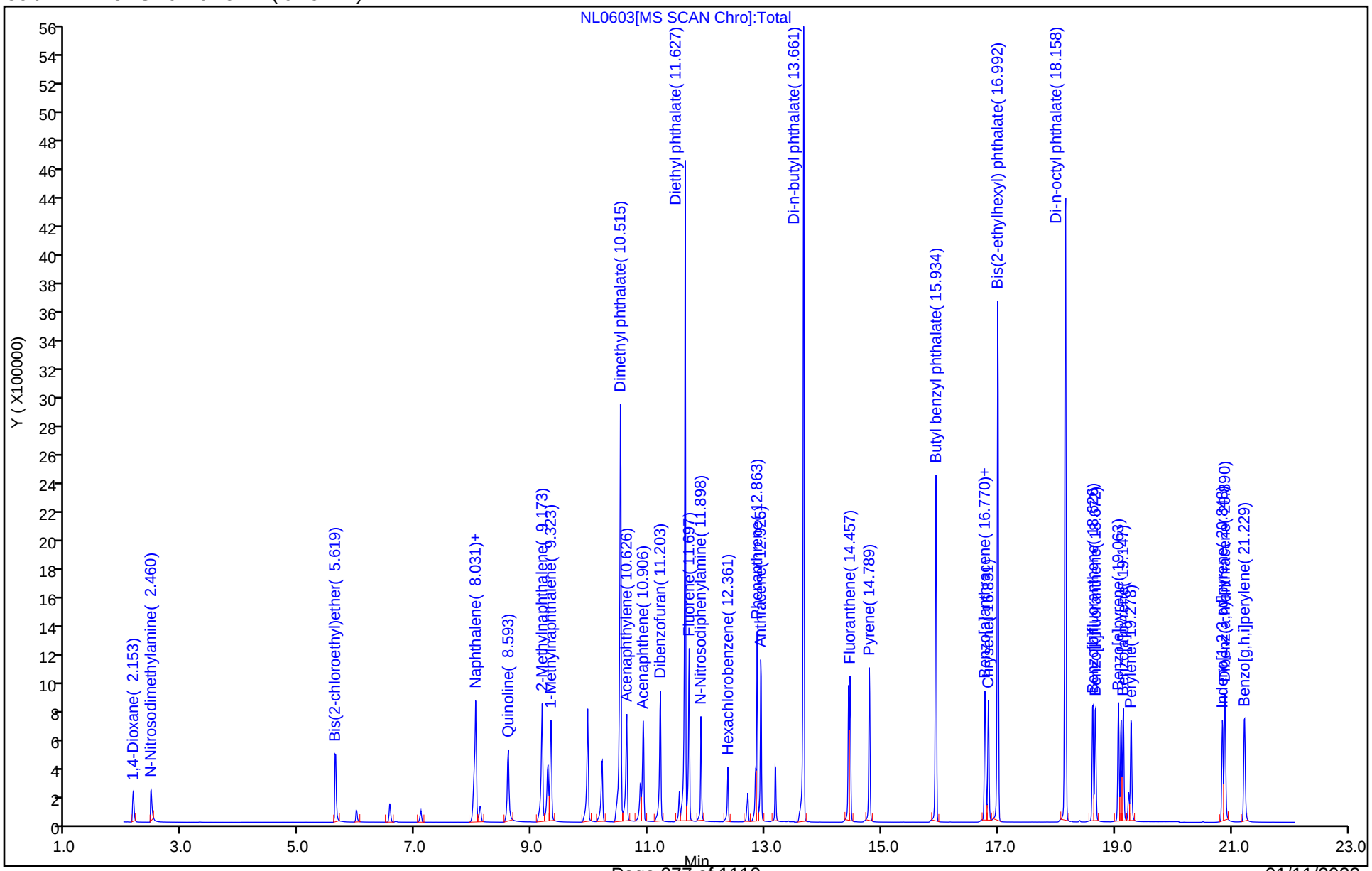
Lims ID: IC L5 Worklist Smp#: 4

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 Env, LLC

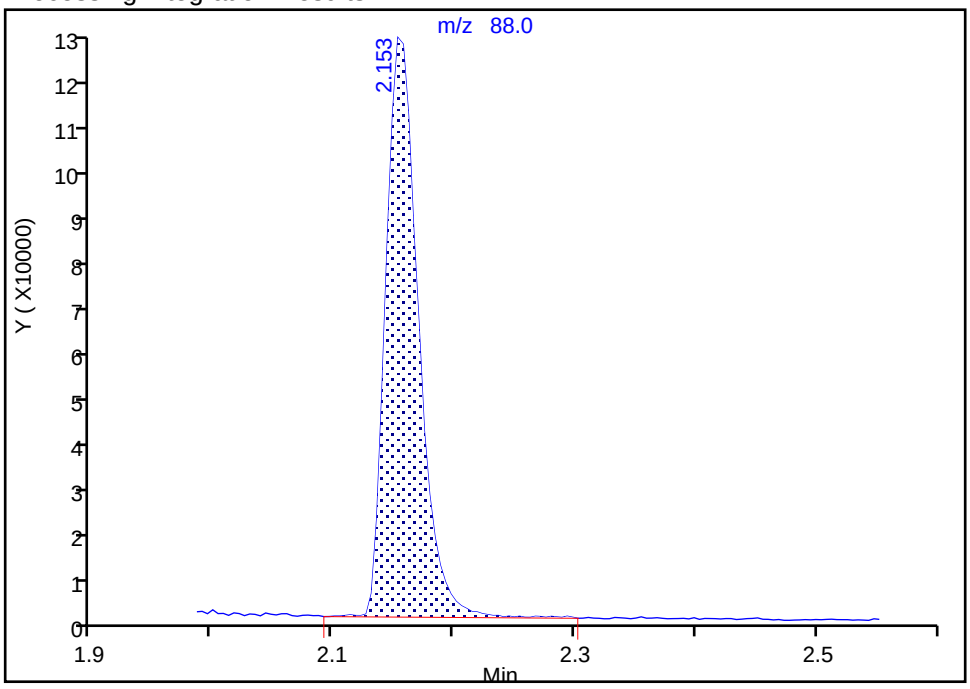
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Injection Date: 16-Dec-2021 10:13:30 Instrument ID: HP23263
Lims ID: IC L5
Client ID:
Operator ID: jmg00346 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

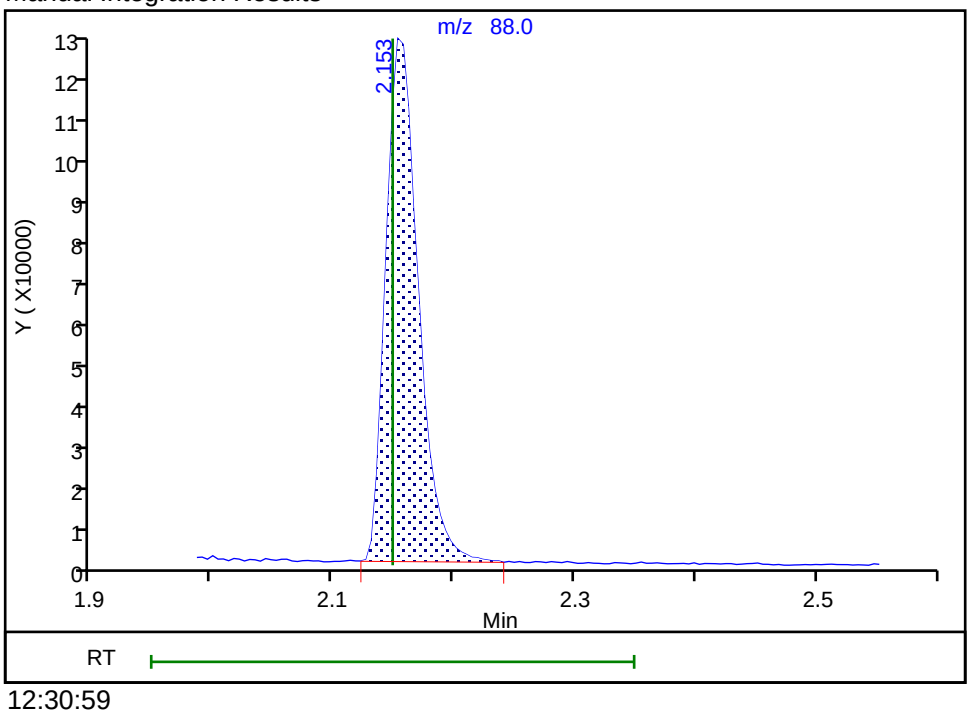
Processing Integration Results

RT: 2.15
Area: 229053
Amount: 0.939304
Amount Units: ug/ml



Manual Integration Results

RT: 2.15
Area: 226771
Amount: 0.822179
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:30:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

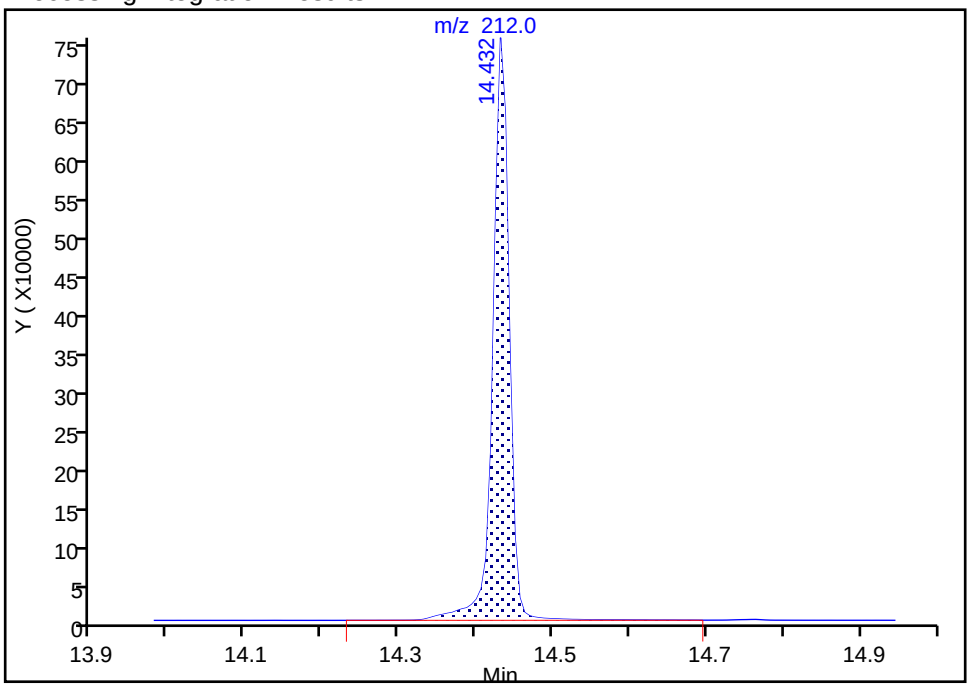
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Injection Date: 16-Dec-2021 10:13:30 Instrument ID: HP23263
Lims ID: IC L5
Client ID:
Operator ID: jmg00346 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

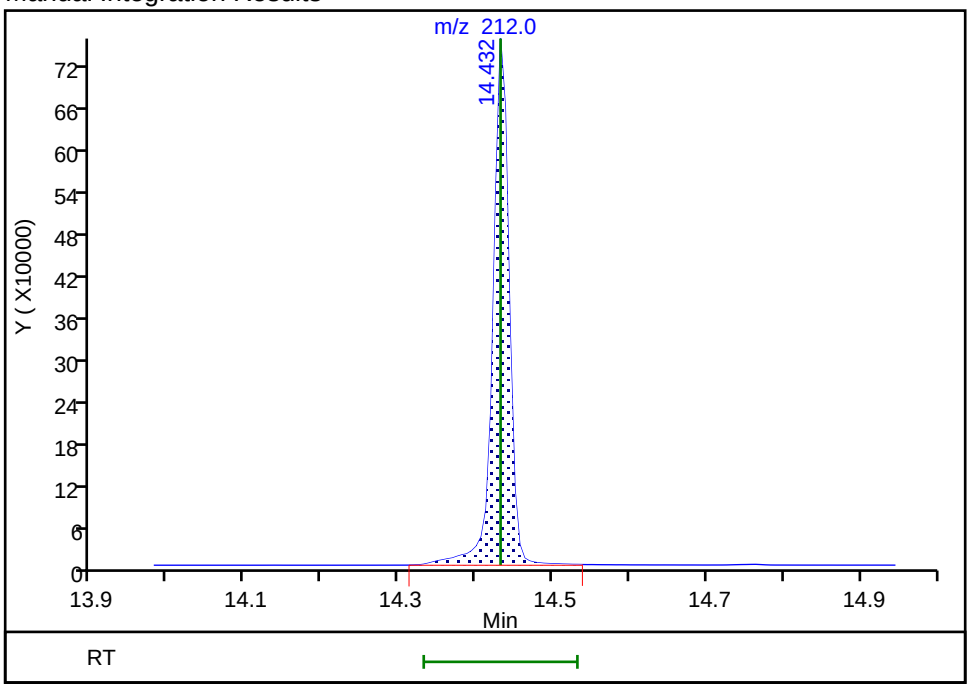
Processing Integration Results

RT: 14.43
Area: 1109042
Amount: 0.991585
Amount Units: ug/ml



Manual Integration Results

RT: 14.43
Area: 1106868
Amount: 0.883646
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:37:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

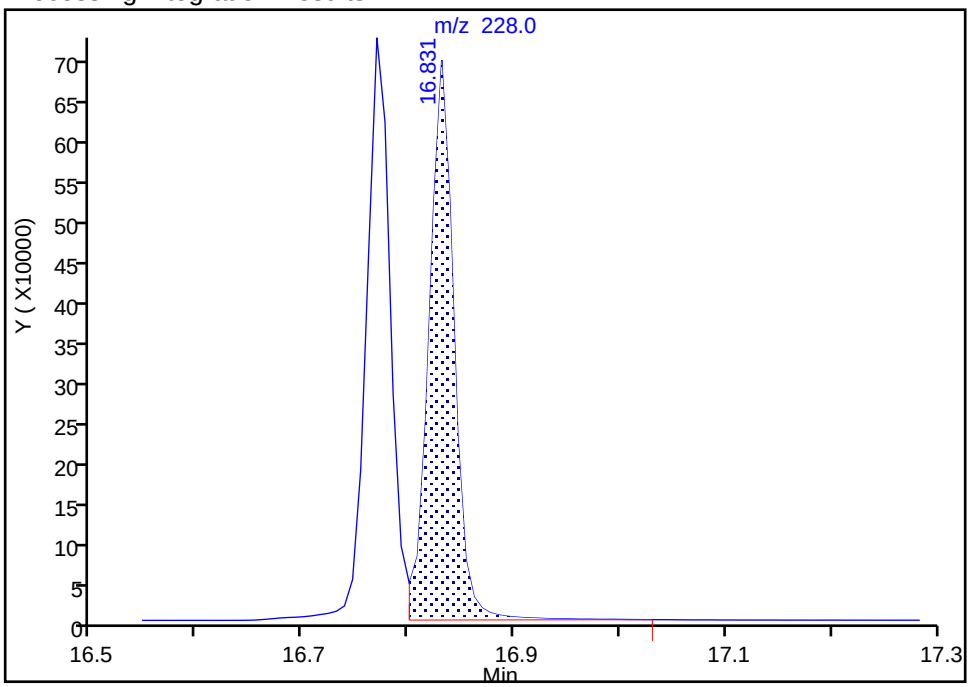
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Injection Date: 16-Dec-2021 10:13:30 Instrument ID: HP23263
Lims ID: IC L5
Client ID:
Operator ID: jmg00346 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

30 Chrysene, CAS: 218-01-9

Signal: 1

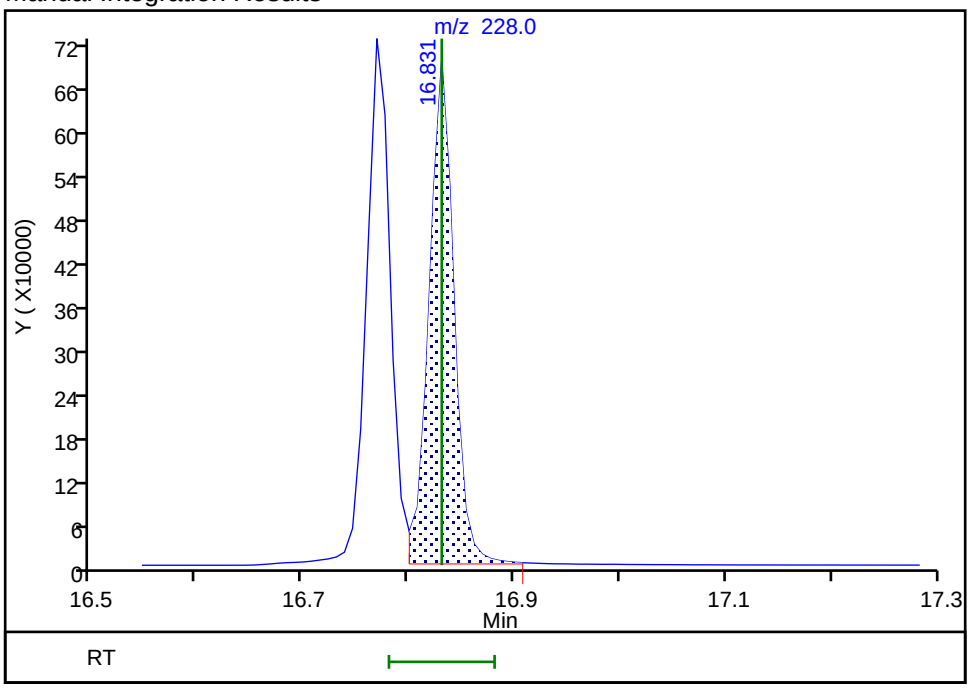
Processing Integration Results

RT: 16.83
Area: 1134288
Amount: 0.951655
Amount Units: ug/ml



Manual Integration Results

RT: 16.83
Area: 1119147
Amount: 0.941103
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:34:22
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0604.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Dec-2021 10:41:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0046502-005
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:14:58 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: transuea Date: 16-Dec-2021 11:51:17

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	2.171	2.149	0.022	100	26703	0.1000	0.0987	M
2 N-Nitrosodimethylamine	74	2.499	2.456	0.043	87	22926	0.1000	0.0970	M
3 Bis(2-chloroethyl)ether	93	5.644	5.631	0.013	96	43878	0.1000	0.0972	
* 4 1,4-Dichlorobenzene-d4	152	5.994	5.981	0.013	99	94952	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.006	8.006	0.000	100	336136	0.2500	0.2500	
6 Naphthalene	128	8.043	8.031	0.012	100	141792	0.1000	0.1009	
7 Quinoline	129	8.631	8.593	0.038	99	75464	0.1000	0.0966	
8 2-Methylnaphthalene	142	9.183	9.173	0.010	98	88232	0.1000	0.0984	
$ 9 1-Methylnaphthalene-d10	152	9.273	9.273	0.000	100	70822	0.1000	0.0993	
10 1-Methylnaphthalene	142	9.334	9.324	0.010	100	93194	0.1000	0.1035	
11 Dimethyl phthalate	163	10.515	10.515	0.000	99	911767	1.00	1.01	
12 Acenaphthylene	152	10.626	10.626	0.000	95	129911	0.1000	0.0966	
* 13 Acenaphthene-d10	164	10.866	10.856	0.010	99	188697	0.2500	0.2500	
14 Acenaphthene	154	10.916	10.906	0.010	96	81317	0.1000	0.0970	
15 Dibenzofuran	168	11.210	11.203	0.007	100	124340	0.1000	0.1013	
16 Diethyl phthalate	149	11.627	11.627	0.000	100	942215	1.00	1.00	
17 Fluorene	166	11.705	11.697	0.008	99	96495	0.1000	0.0980	
18 N-Nitrosodiphenylamine	169	11.913	11.905	0.008	100	59868	0.1000	0.1048	
19 Hexachlorobenzene	284	12.369	12.361	0.008	94	36260	0.1000	0.0945	
* 20 Phenanthrene-d10	188	12.840	12.832	0.008	100	339007	0.2500	0.2500	
21 Phenanthrene	178	12.871	12.863	0.008	100	143446	0.1000	0.0966	
22 Anthracene	178	12.940	12.925	0.015	100	132416	0.1000	0.0952	
23 Di-n-butyl phthalate	149	13.661	13.661	0.000	100	1382153	1.00	0.9877	
$ 24 Fluoranthene-d10 (Surr)	212	14.438	14.432	0.006	99	122262	0.1000	0.0941	M
25 Fluoranthene	202	14.469	14.463	0.006	98	141017	0.1000	0.0967	
26 Pyrene	202	14.802	14.789	0.013	97	150816	0.1000	0.0952	
27 Butyl benzyl phthalate	149	15.934	15.934	0.000	100	604351	1.00	0.9577	
28 Benzo[a]anthracene	228	16.777	16.770	0.007	87	113219	0.1000	0.0933	
* 29 Chrysene-d12	240	16.793	16.785	0.008	88	253206	0.2500	0.2500	
30 Chrysene	228	16.839	16.831	0.008	100	137453	0.1000	0.1015	M

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	16.992	16.992	0.000	100	821519	1.00	0.9696	
32 Di-n-octyl phthalate	149	18.150	18.150	0.000	100	1354031	1.00	1.04	
33 Benzo[b]fluoranthene	252	18.626	18.618	0.008	100	115038	0.1000	0.1002	
34 Benzo[k]fluoranthene	252	18.672	18.672	0.000	100	134266	0.1000	0.1026	
35 Benzo[e]pyrene	252	19.063	19.063	0.000	100	115910	0.1000	0.0994	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.109	19.109	0.000	99	87739	0.1000	0.1010	
37 Benzo[a]pyrene	252	19.147	19.147	0.000	100	110806	0.1000	0.0999	
* 38 Perylene-d12	264	19.239	19.239	0.000	98	233375	0.2500	0.2500	
39 Perylene	252	19.285	19.278	0.007	100	114305	0.1000	0.1011	
40 Indeno[1,2,3-cd]pyrene	276	20.862	20.848	0.014	96	96438	0.1000	0.0954	M
41 Dibenz(a,h)anthracene	278	20.904	20.890	0.014	95	109673	0.1000	0.0946	
42 Benzo[g,h,i]perylene	276	21.236	21.222	0.014	98	121854	0.1000	0.0953	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00013 Amount Added: 1.00 Units: mL

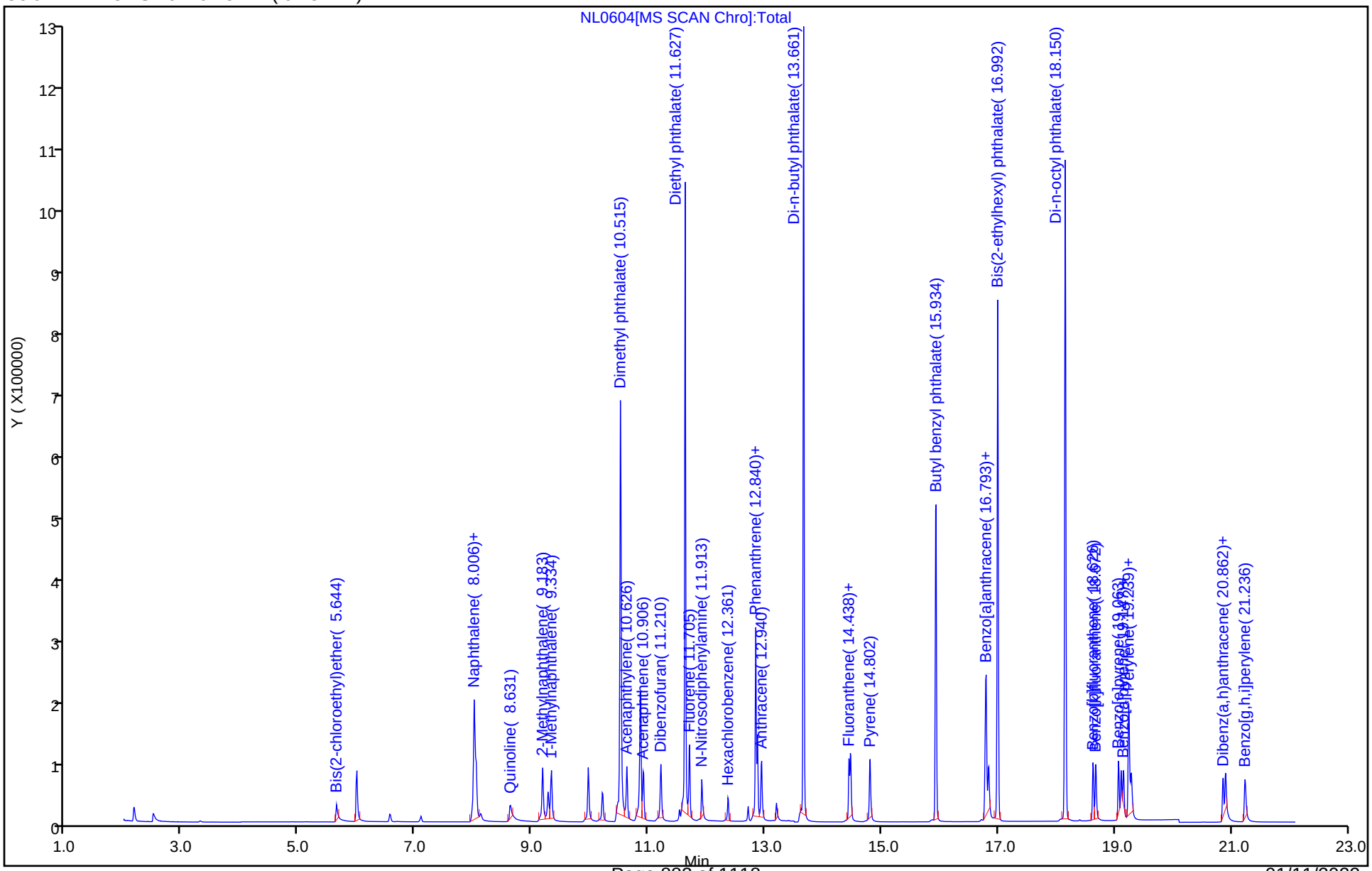
Report Date: 16-Dec-2021 14:14:59 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0604.D

Injection Date:	16-Dec-2021 10:41:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

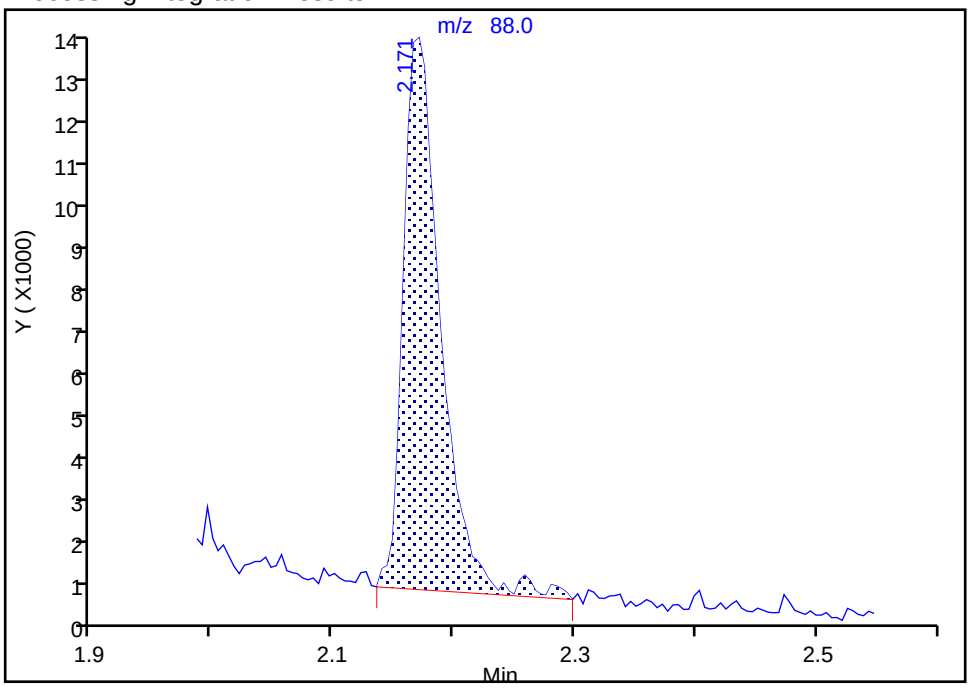
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Injection Date: 16-Dec-2021 10:41:30 Instrument ID: HP23263
Lims ID: IC L3
Client ID:
Operator ID: jmg00346 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

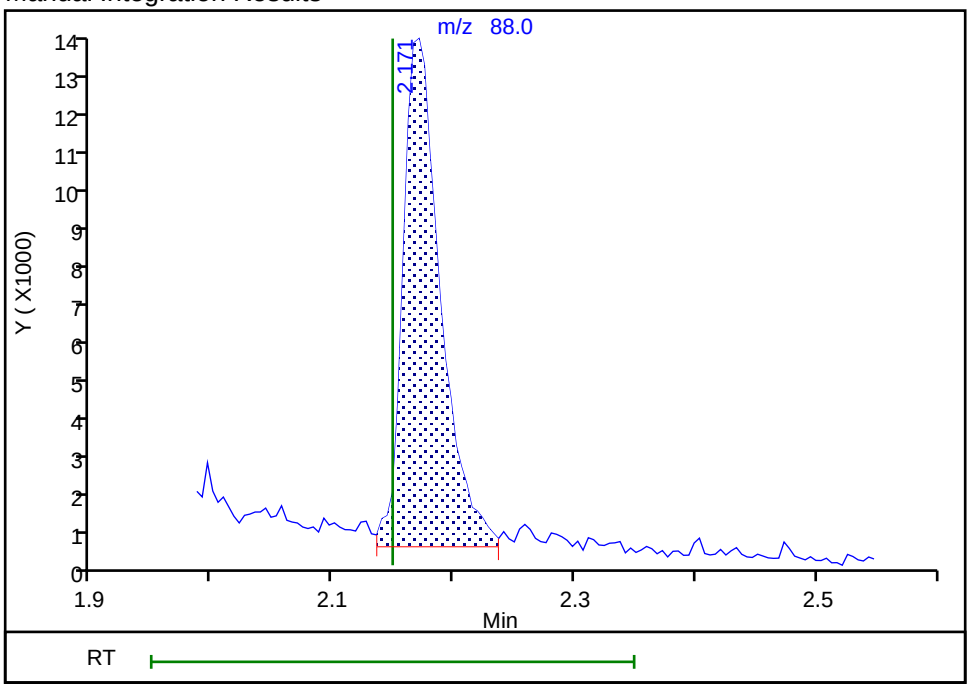
Processing Integration Results

RT: 2.17
Area: 26221
Amount: 0.106090
Amount Units: ug/ml



Manual Integration Results

RT: 2.17
Area: 26703
Amount: 0.098687
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:31:21
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

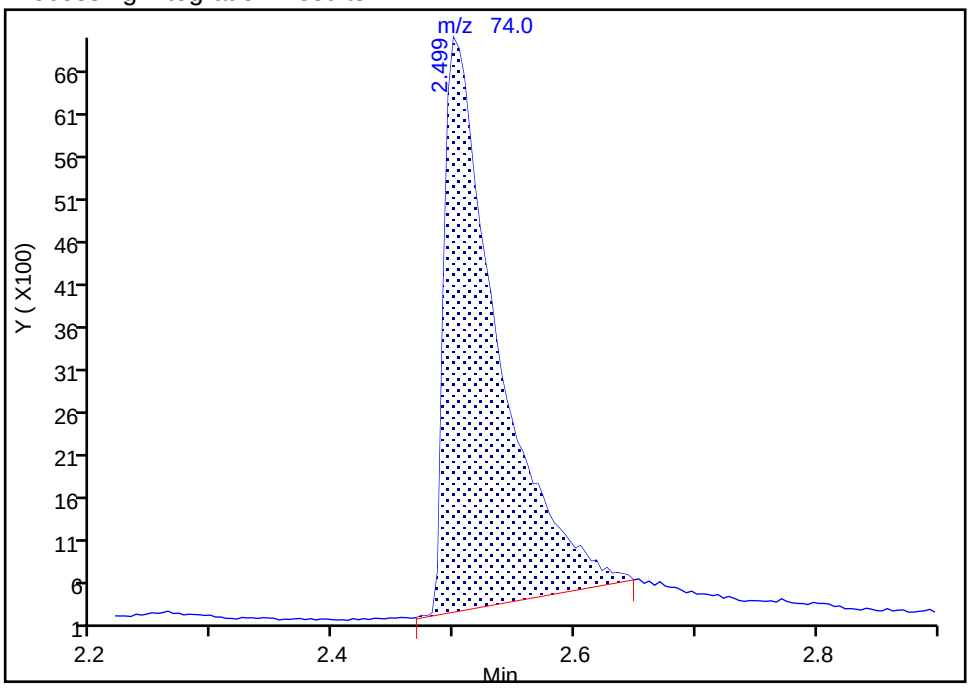
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Injection Date: 16-Dec-2021 10:41:30 Instrument ID: HP23263
Lims ID: IC L3
Client ID:
Operator ID: jmg00346 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

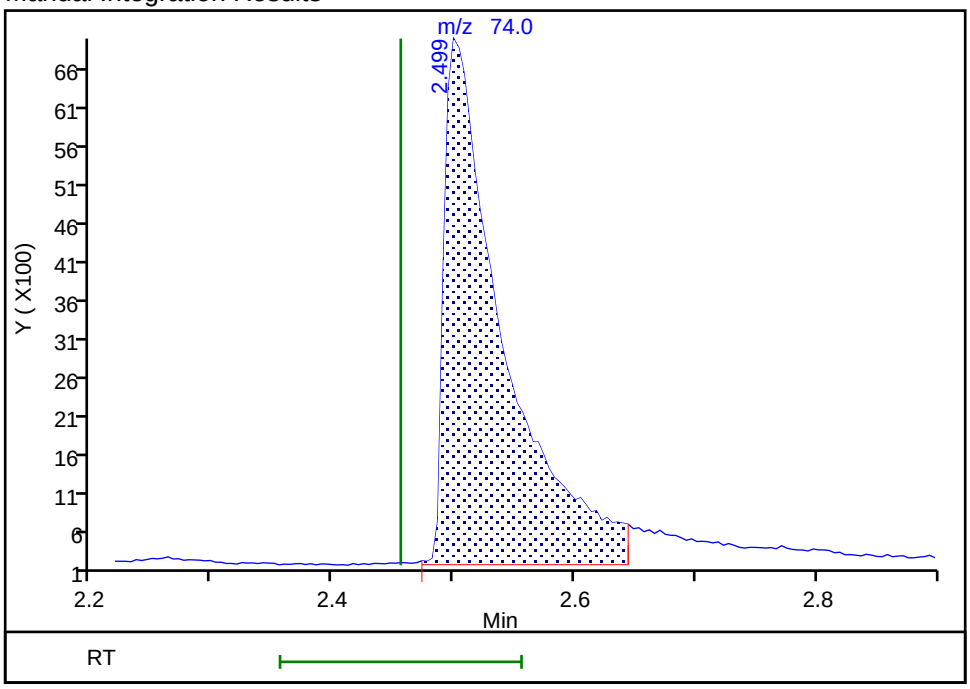
Processing Integration Results

RT: 2.50
Area: 20510
Amount: 0.083996
Amount Units: ug/ml



Manual Integration Results

RT: 2.50
Area: 22926
Amount: 0.096998
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:53:49
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

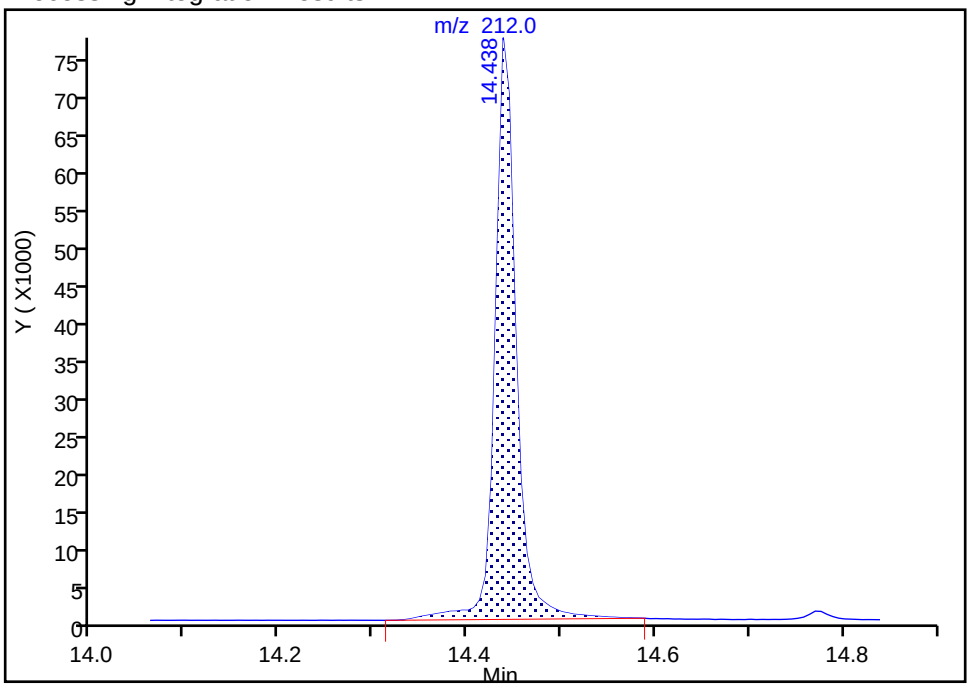
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Injection Date: 16-Dec-2021 10:41:30 Instrument ID: HP23263
Lims ID: IC L3
Client ID:
Operator ID: jmg00346 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

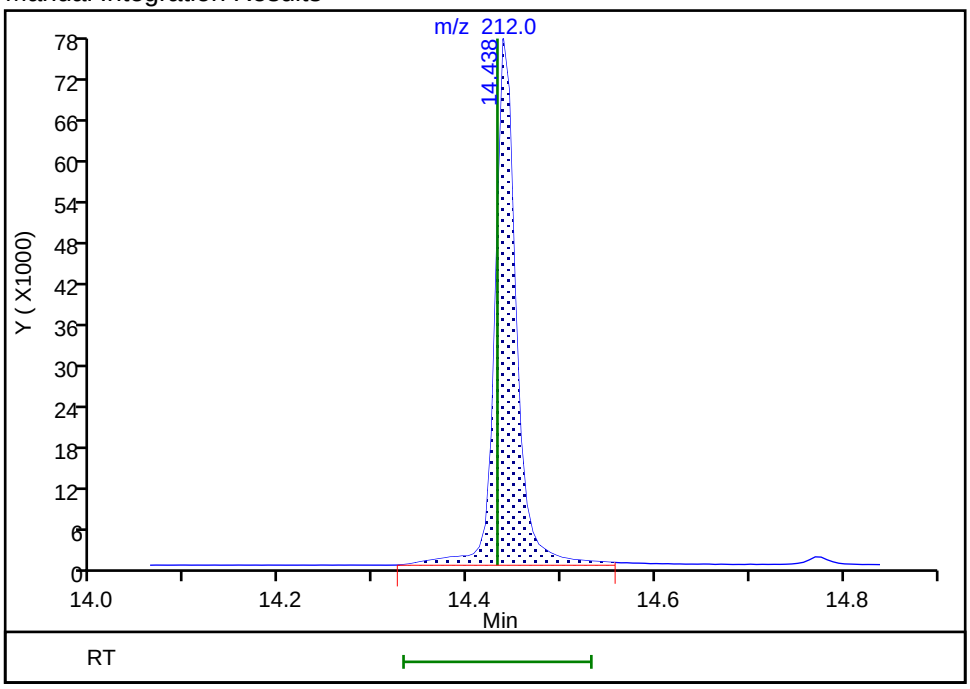
Processing Integration Results

RT: 14.44
Area: 120456
Amount: 0.098869
Amount Units: ug/ml



Manual Integration Results

RT: 14.44
Area: 122262
Amount: 0.094099
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:38:04
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

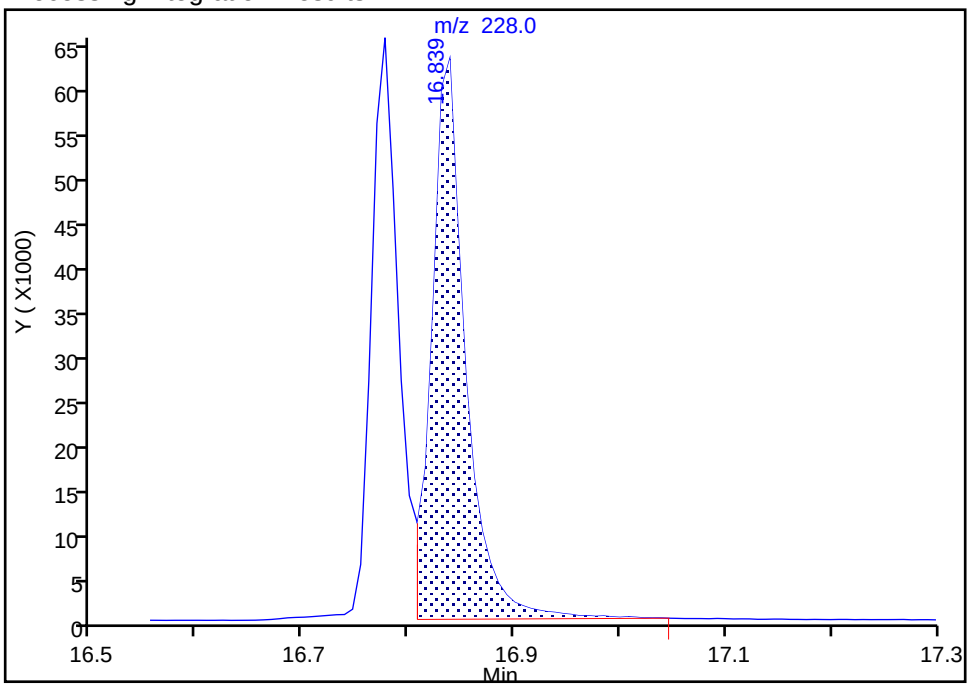
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0604.D		
Injection Date:	16-Dec-2021 10:41:30	Instrument ID:	HP23263
Lims ID:	IC L3		
Client ID:			
Operator ID:	jmg00346	ALS Bottle#:	5 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

30 Chrysene, CAS: 218-01-9

Signal: 1

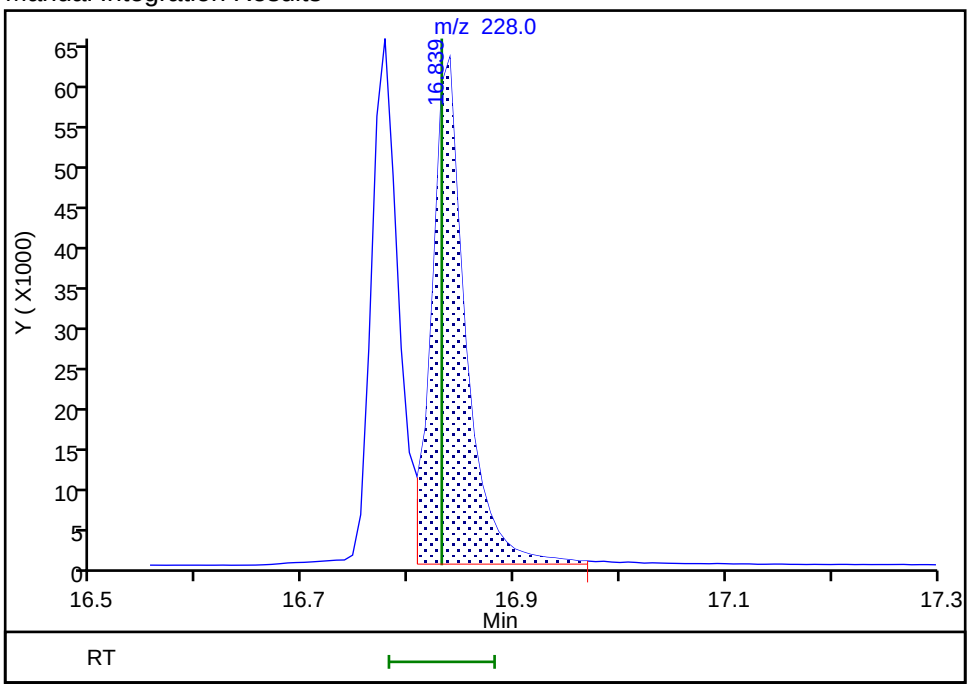
Processing Integration Results

RT: 16.84
Area: 137984
Amount: 0.102118
Amount Units: ug/ml



Manual Integration Results

RT: 16.84
Area: 137453
Amount: 0.101492
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:34:39

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

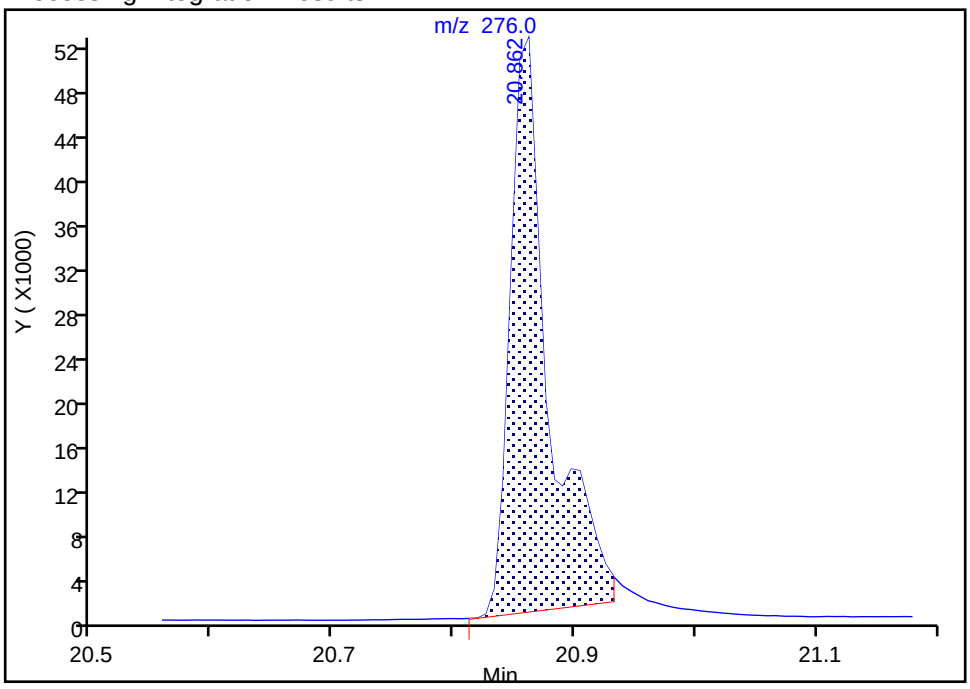
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0604.D				
Injection Date:	16-Dec-2021 10:41:30	Instrument ID:	HP23263		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

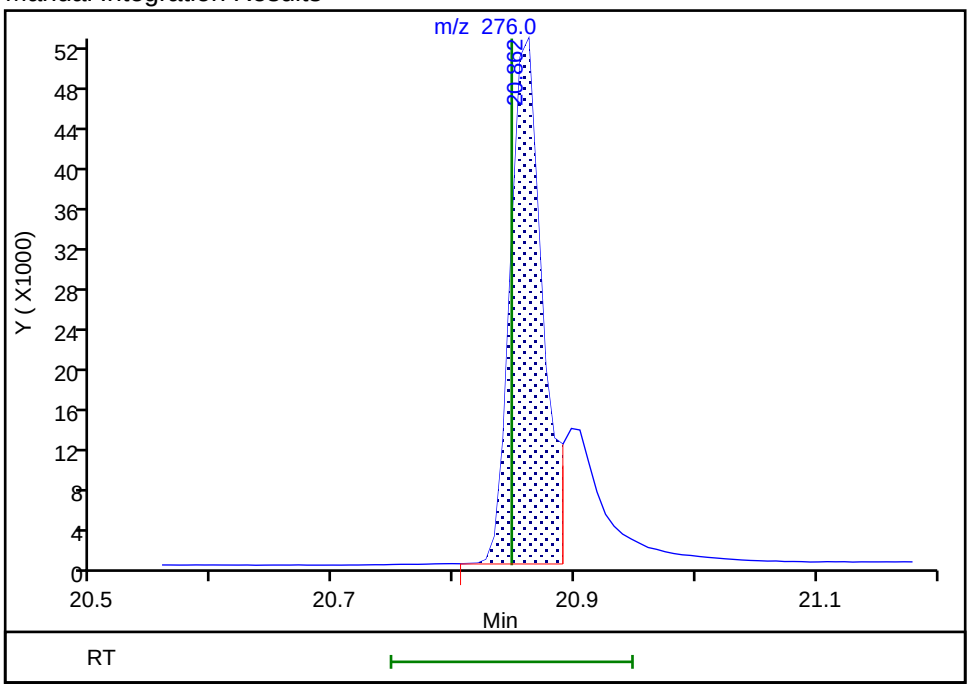
Processing Integration Results

RT: 20.86
Area: 115289
Amount: 0.103990
Amount Units: ug/ml



Manual Integration Results

RT: 20.86
Area: 96438
Amount: 0.095354
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:28:54

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0605.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Dec-2021 11:09:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0046502-006
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:15:01 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: transuea Date: 16-Dec-2021 11:53:33

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	2.167	2.149	0.018	100	13387	0.0500	0.0511	M
2 N-Nitrosodimethylamine	74	2.517	2.456	0.061	87	9958	0.0500	0.0435	M
3 Bis(2-chloroethyl)ether	93	5.656	5.631	0.025	82	20219	0.0500	0.0457	M
* 4 1,4-Dichlorobenzene-d4	152	5.994	5.981	0.013	95	91880	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.006	8.006	0.000	100	329002	0.2500	0.2500	
6 Naphthalene	128	8.043	8.031	0.012	99	68717	0.0500	0.0500	
7 Quinoline	129	8.656	8.593	0.063	97	35232	0.0500	0.0461	M
8 2-Methylnaphthalene	142	9.193	9.173	0.020	98	42176	0.0500	0.0480	
$ 9 1-Methylnaphthalene-d10	152	9.283	9.273	0.010	100	36320	0.0500	0.0520	
10 1-Methylnaphthalene	142	9.334	9.324	0.010	99	47260	0.0500	0.0536	
11 Dimethyl phthalate	163	10.525	10.515	0.010	100	445535	0.5000	0.5107	
12 Acenaphthylene	152	10.636	10.626	0.010	68	63761	0.0500	0.0493	
* 13 Acenaphthene-d10	164	10.866	10.856	0.010	97	181541	0.2500	0.2500	M
14 Acenaphthene	154	10.916	10.906	0.010	98	40056	0.0500	0.0497	
15 Dibenzofuran	168	11.218	11.203	0.015	100	58598	0.0500	0.0496	
16 Diethyl phthalate	149	11.627	11.627	0.000	100	461314	0.5000	0.5082	M
17 Fluorene	166	11.705	11.697	0.008	97	46311	0.0500	0.0489	
18 N-Nitrosodiphenylamine	169	11.929	11.905	0.024	100	26725	0.0500	0.0452	M
19 Hexachlorobenzene	284	12.369	12.361	0.008	97	17946	0.0500	0.0495	
* 20 Phenanthrene-d10	188	12.840	12.832	0.008	100	320468	0.2500	0.2500	
21 Phenanthrene	178	12.871	12.863	0.008	100	68361	0.0500	0.0487	
22 Anthracene	178	12.948	12.925	0.023	100	62999	0.0500	0.0479	
23 Di-n-butyl phthalate	149	13.661	13.661	0.000	100	665903	0.5000	0.5034	
$ 24 Fluoranthene-d10 (Surr)	212	14.444	14.432	0.012	99	64696	0.0500	0.0527	M
25 Fluoranthene	202	14.476	14.463	0.013	98	70024	0.0500	0.0508	
26 Pyrene	202	14.808	14.789	0.019	98	73522	0.0500	0.0493	
27 Butyl benzyl phthalate	149	15.934	15.934	0.000	100	291081	0.5000	0.4904	
28 Benzo[a]anthracene	228	16.777	16.770	0.007	94	48212	0.0500	0.0422	
* 29 Chrysene-d12	240	16.793	16.785	0.008	87	238189	0.2500	0.2500	
30 Chrysene	228	16.839	16.831	0.008	100	70947	0.0500	0.0528	M

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	16.992	16.992	0.000	100	383158	0.5000	0.4807	
32 Di-n-octyl phthalate	149	18.150	18.150	0.000	100	631807	0.5000	0.4815	
33 Benzo[b]fluoranthene	252	18.633	18.618	0.015	100	54626	0.0500	0.0472	
34 Benzo[k]fluoranthene	252	18.679	18.672	0.007	100	60960	0.0500	0.0462	
35 Benzo[e]pyrene	252	19.071	19.063	0.008	100	57067	0.0500	0.0486	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.117	19.109	0.008	98	43379	0.0500	0.0463	
37 Benzo[a]pyrene	252	19.155	19.147	0.008	100	53372	0.0500	0.0477	
* 38 Perylene-d12	264	19.247	19.239	0.008	96	235074	0.2500	0.2500	
39 Perylene	252	19.285	19.278	0.007	100	56853	0.0500	0.0499	
40 Indeno[1,2,3-cd]pyrene	276	20.869	20.848	0.021	96	46471	0.0500	0.0456	M
41 Dibenz(a,h)anthracene	278	20.911	20.890	0.021	95	53129	0.0500	0.0455	
42 Benzo[g,h,i]perylene	276	21.243	21.222	0.021	98	58939	0.0500	0.0457	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00015 Amount Added: 1.00 Units: mL

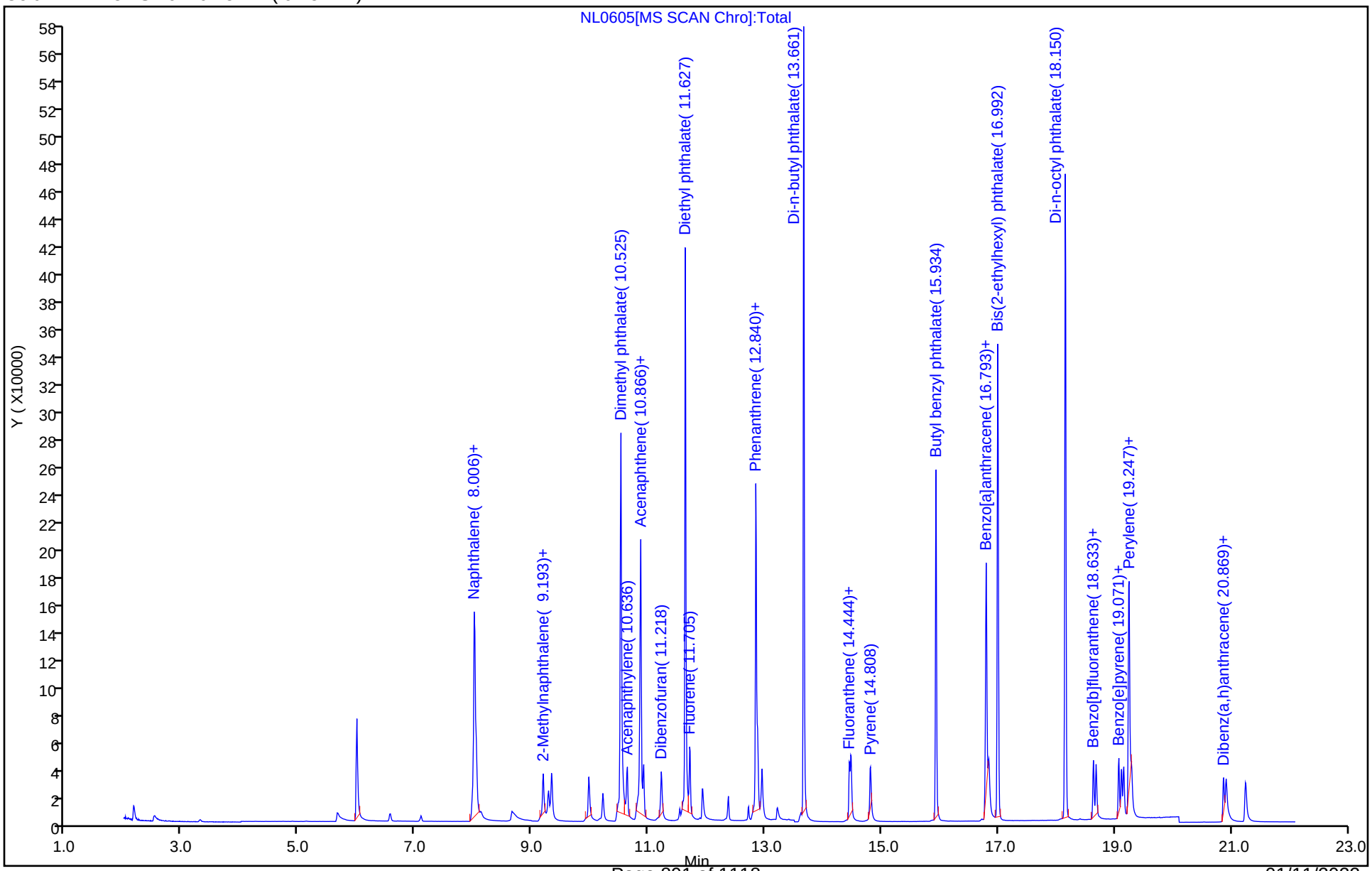
Report Date: 16-Dec-2021 14:15:02 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

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Injection Date:	16-Dec-2021 11:09:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

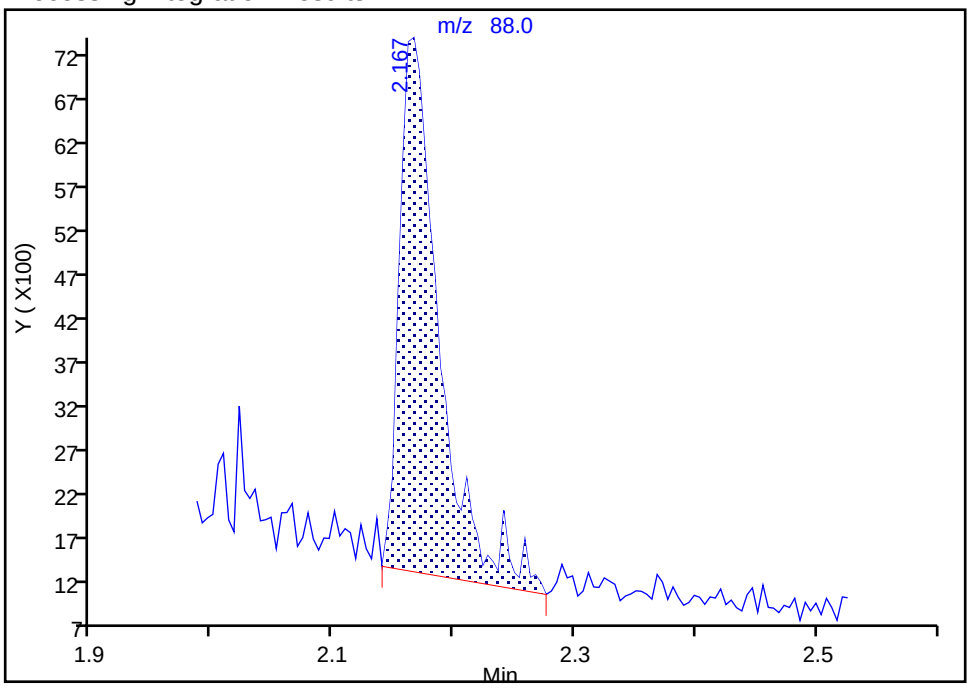
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Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

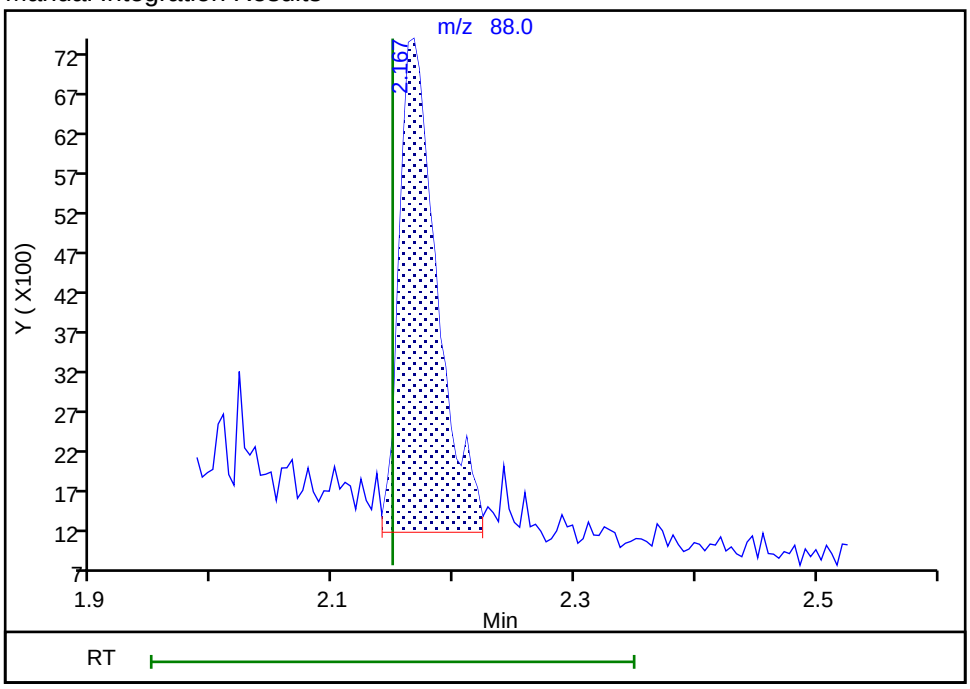
Processing Integration Results

RT: 2.17
Area: 13783
Amount: 0.057314
Amount Units: ug/ml



Manual Integration Results

RT: 2.17
Area: 13387
Amount: 0.051129
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:52:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

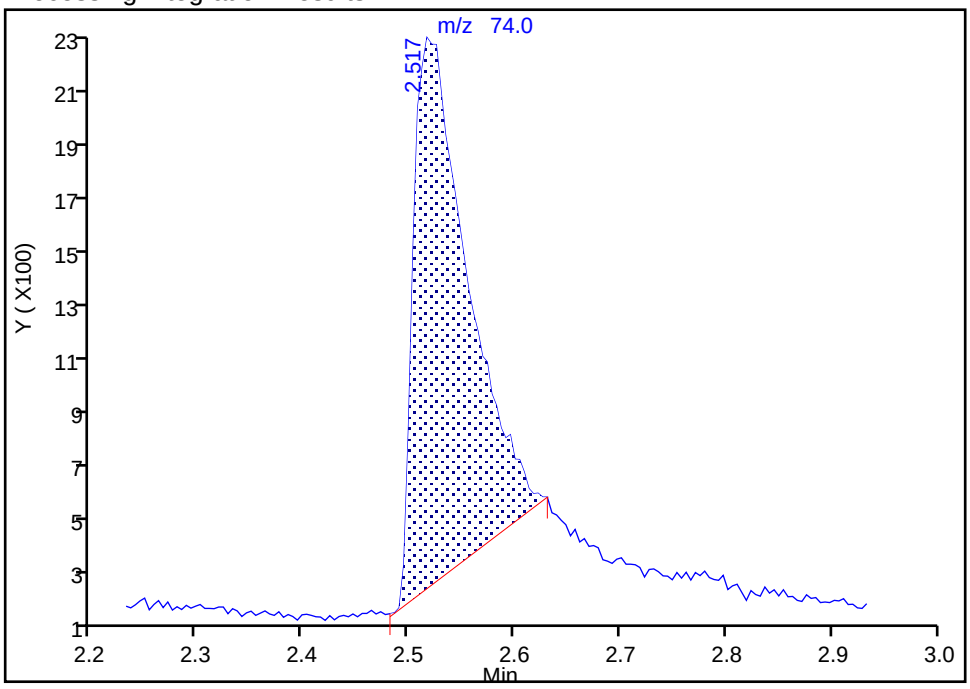
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Injection Date:	16-Dec-2021 11:09:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

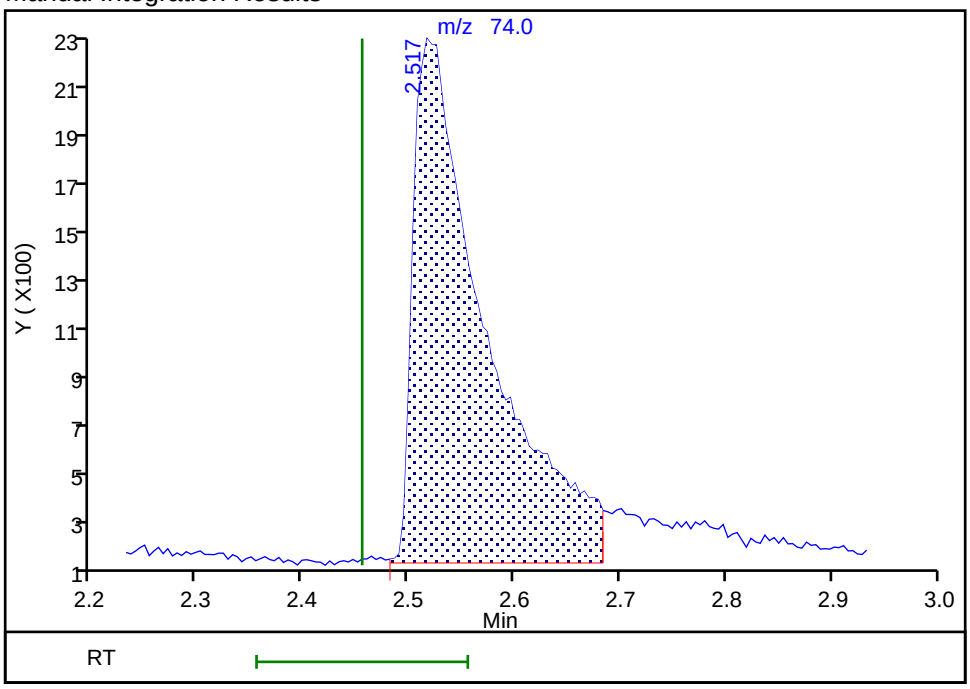
Processing Integration Results

RT: 2.52
Area: 7030
Amount: 0.035809
Amount Units: ug/ml



Manual Integration Results

RT: 2.52
Area: 9958
Amount: 0.043540
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:51:36

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

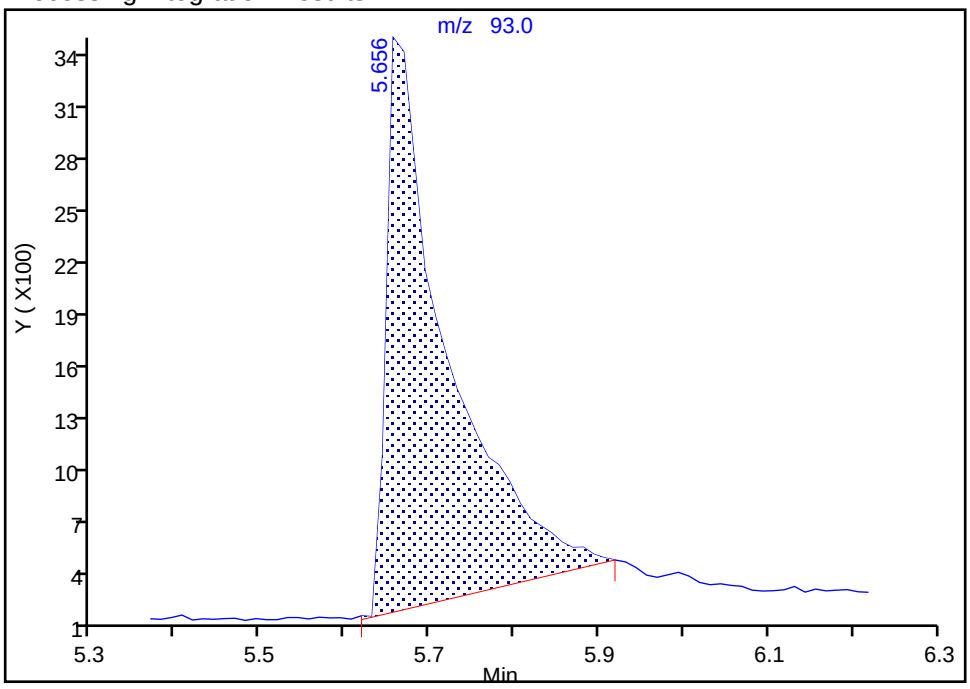
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Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

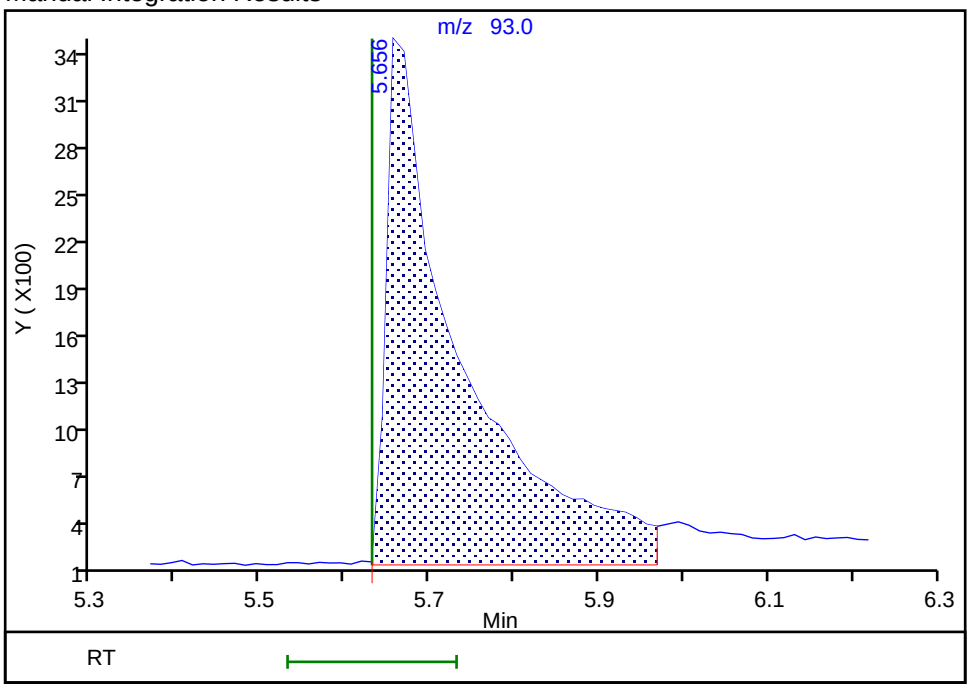
Processing Integration Results

RT: 5.66
Area: 16280
Amount: 0.049447
Amount Units: ug/ml



Manual Integration Results

RT: 5.66
Area: 20219
Amount: 0.045738
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:51:44
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

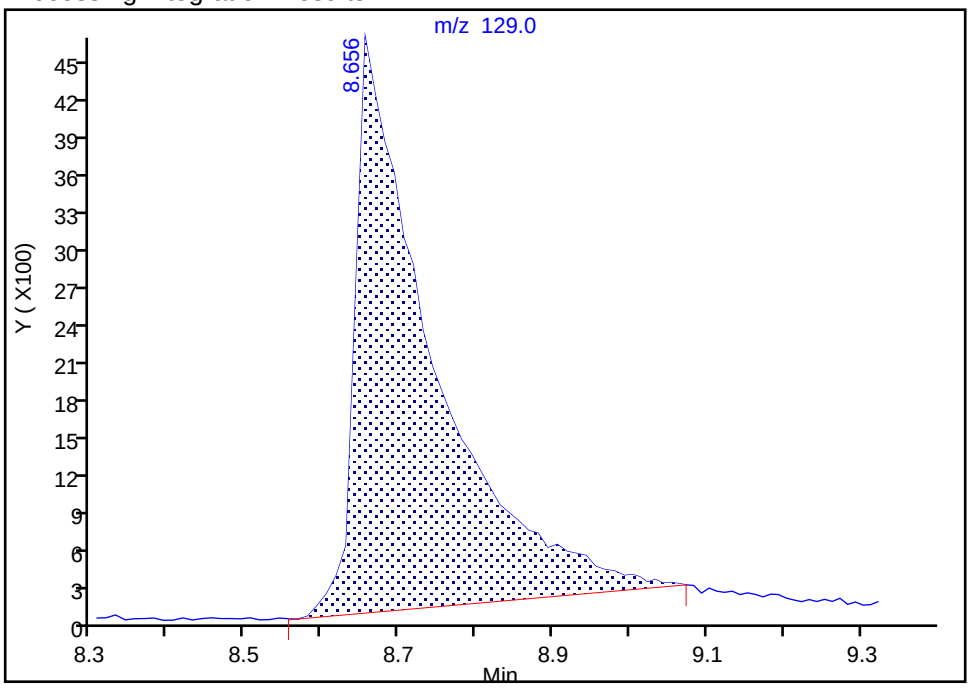
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Injection Date: 16-Dec-2021 11:09:30 Instrument ID: HP23263
Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

7 Quinoline, CAS: 91-22-5

Signal: 1

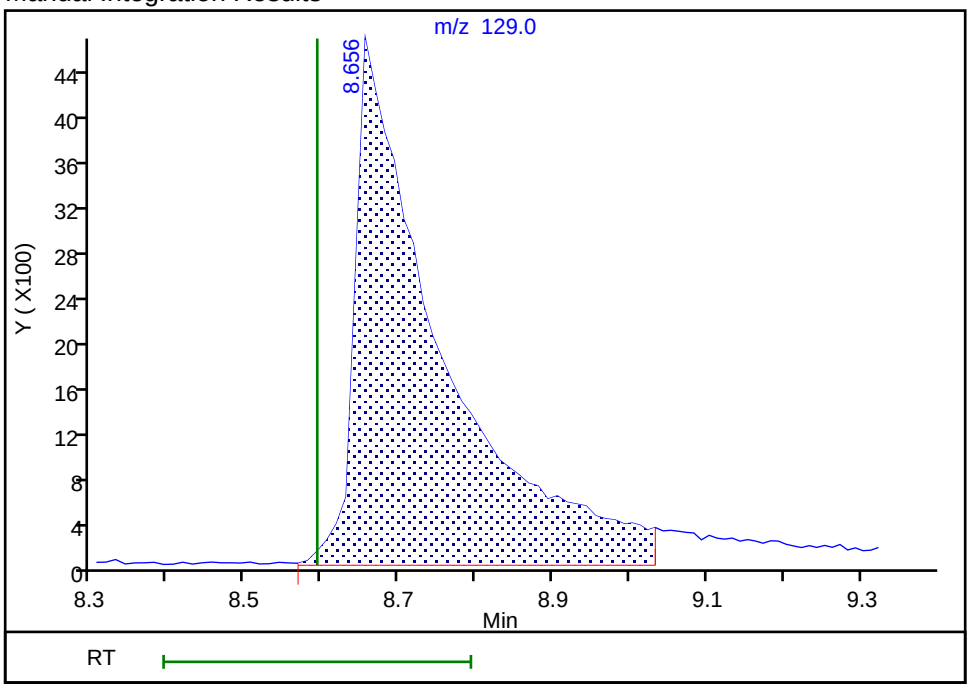
Processing Integration Results

RT: 8.66
Area: 31412
Amount: 0.042585
Amount Units: ug/ml



Manual Integration Results

RT: 8.66
Area: 35232
Amount: 0.046095
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:52:21
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

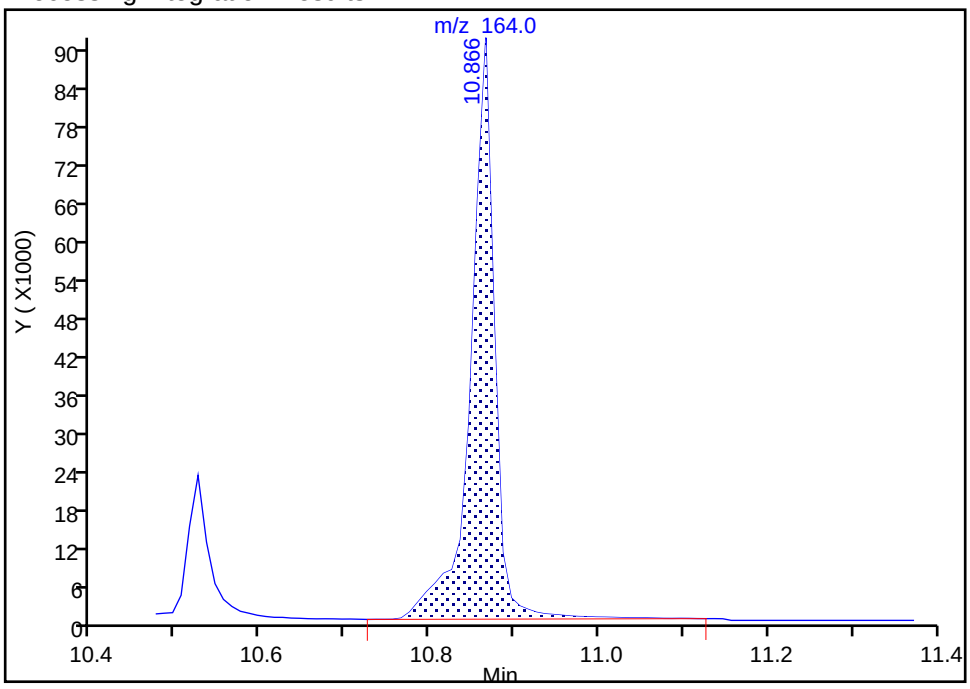
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Injection Date: 16-Dec-2021 11:09:30 Instrument ID: HP23263
Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

* 13 Acenaphthene-d10, CAS: 15067-26-2

Signal: 1

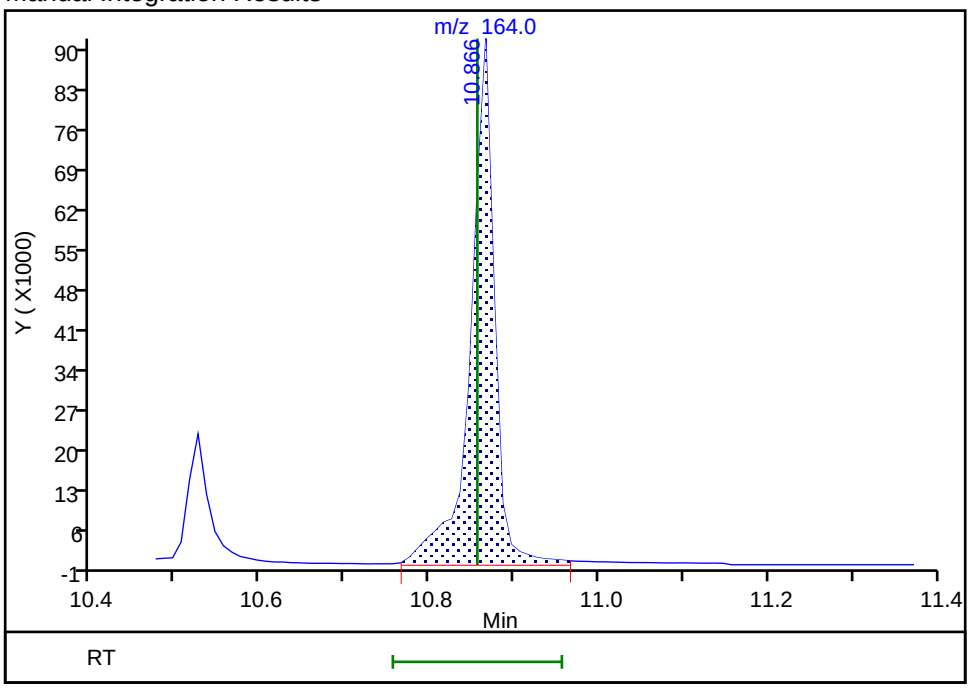
Processing Integration Results

RT: 10.87
Area: 179827
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 10.87
Area: 181541
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:52:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

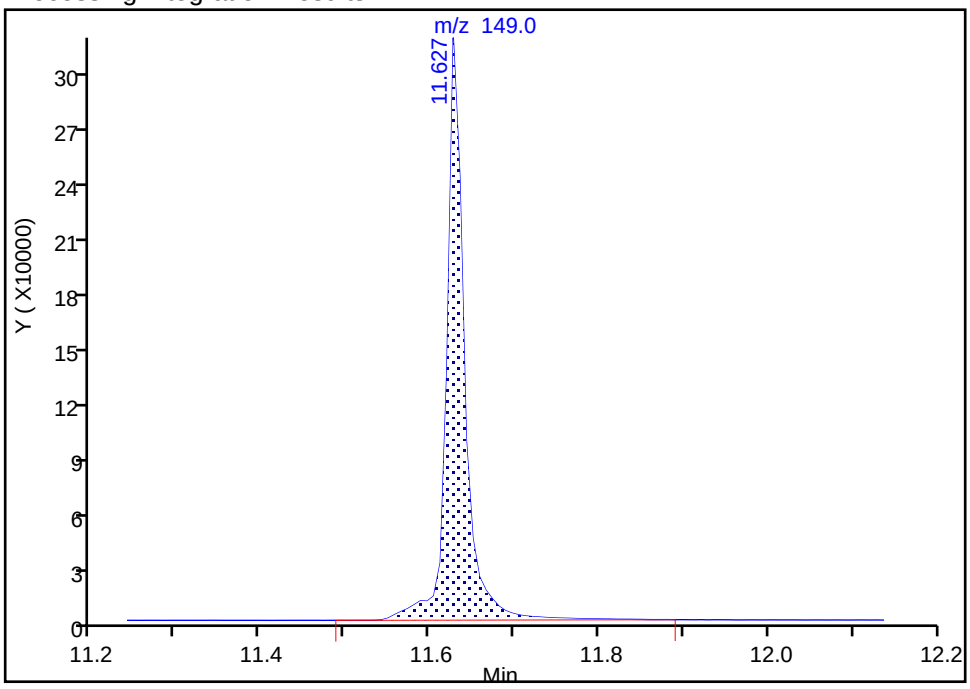
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Injection Date:	16-Dec-2021 11:09:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

16 Diethyl phthalate, CAS: 84-66-2

Signal: 1

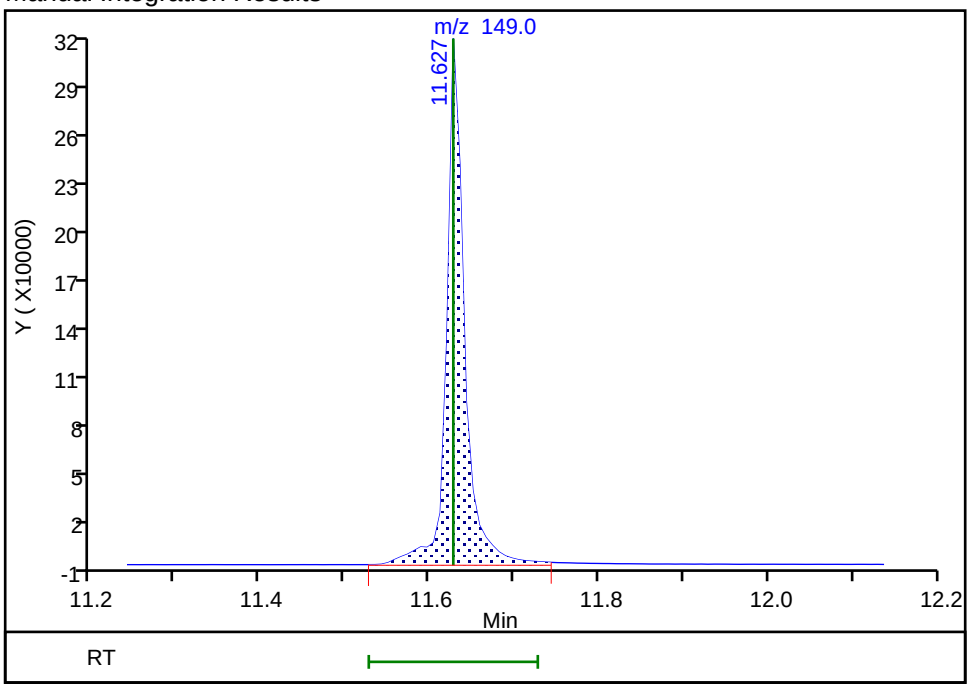
Processing Integration Results

RT: 11.63
Area: 459139
Amount: 0.509131
Amount Units: ug/ml



Manual Integration Results

RT: 11.63
Area: 461314
Amount: 0.508220
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:52:53

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

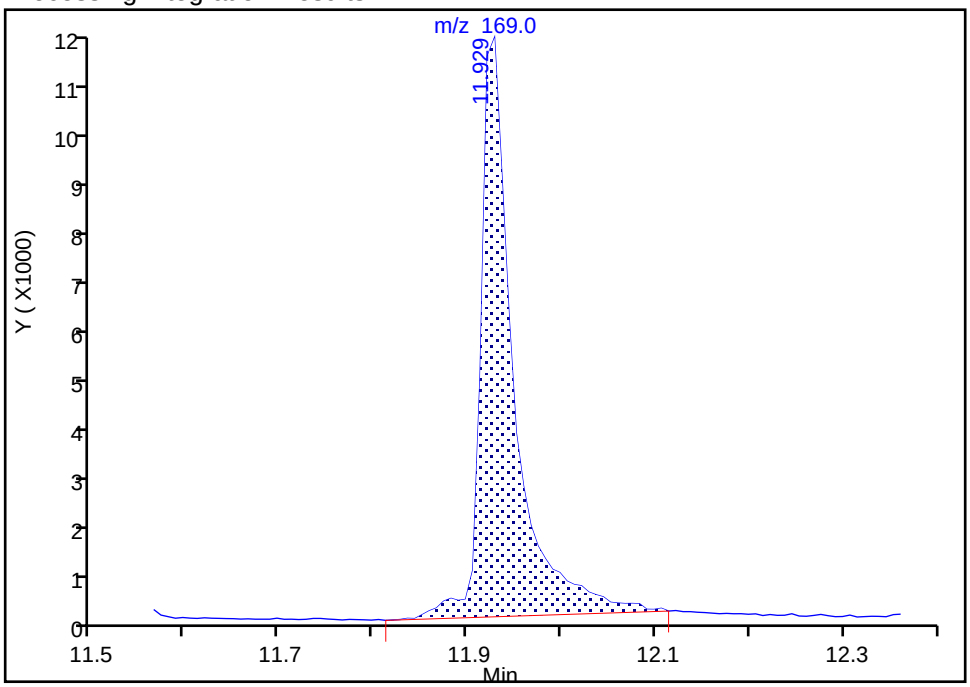
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Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

18 N-Nitrosodiphenylamine, CAS: 86-30-6

Signal: 1

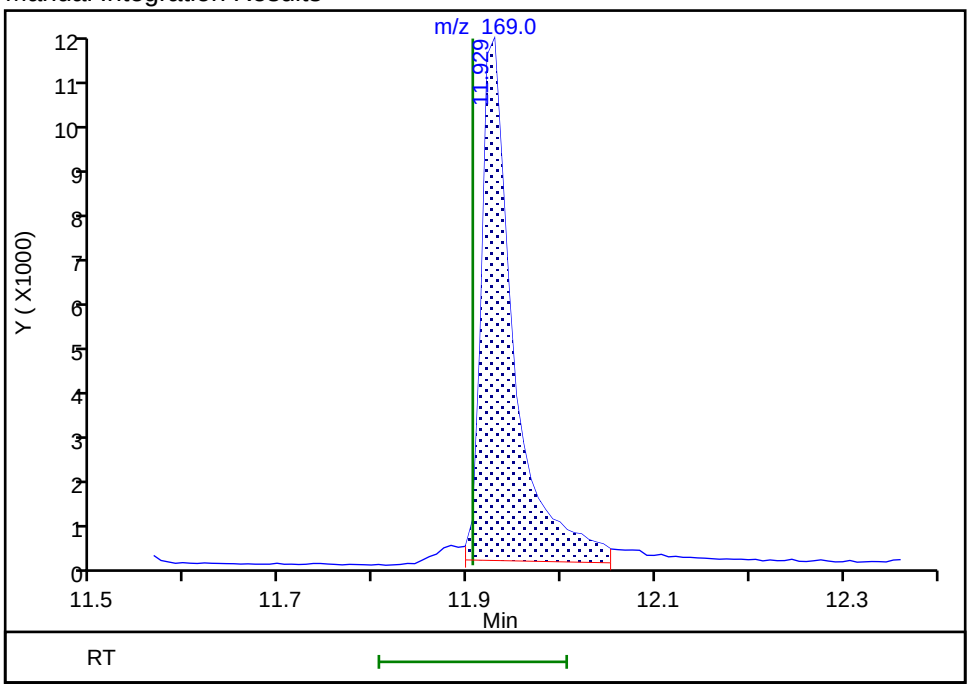
Processing Integration Results

RT: 11.93
Area: 27838
Amount: 0.051067
Amount Units: ug/ml



Manual Integration Results

RT: 11.93
Area: 26725
Amount: 0.045153
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:53:10
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

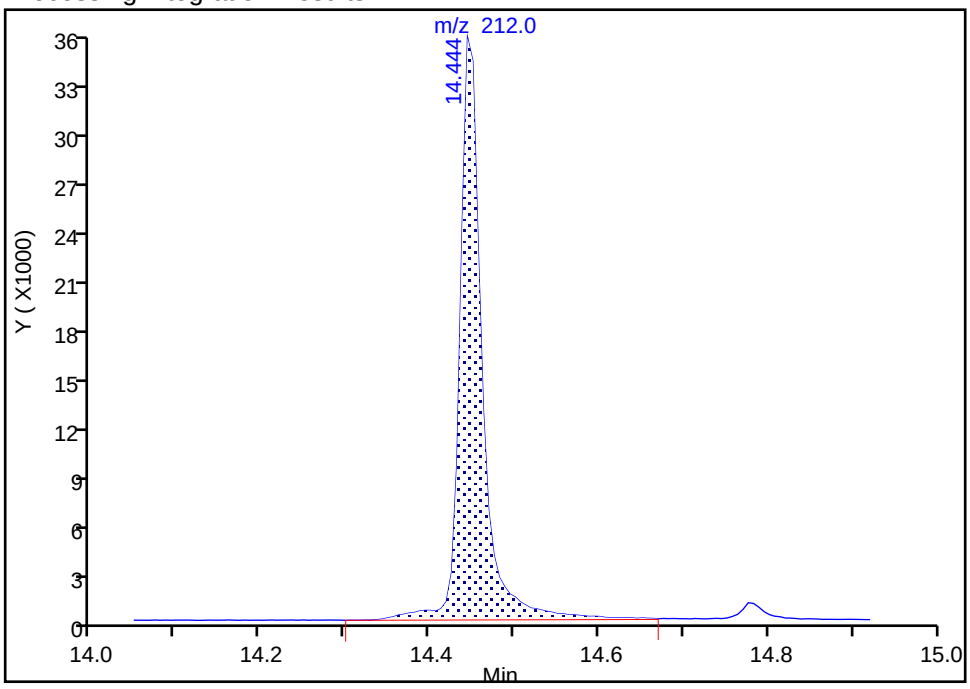
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0605.D
Injection Date: 16-Dec-2021 11:09:30 Instrument ID: HP23263
Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

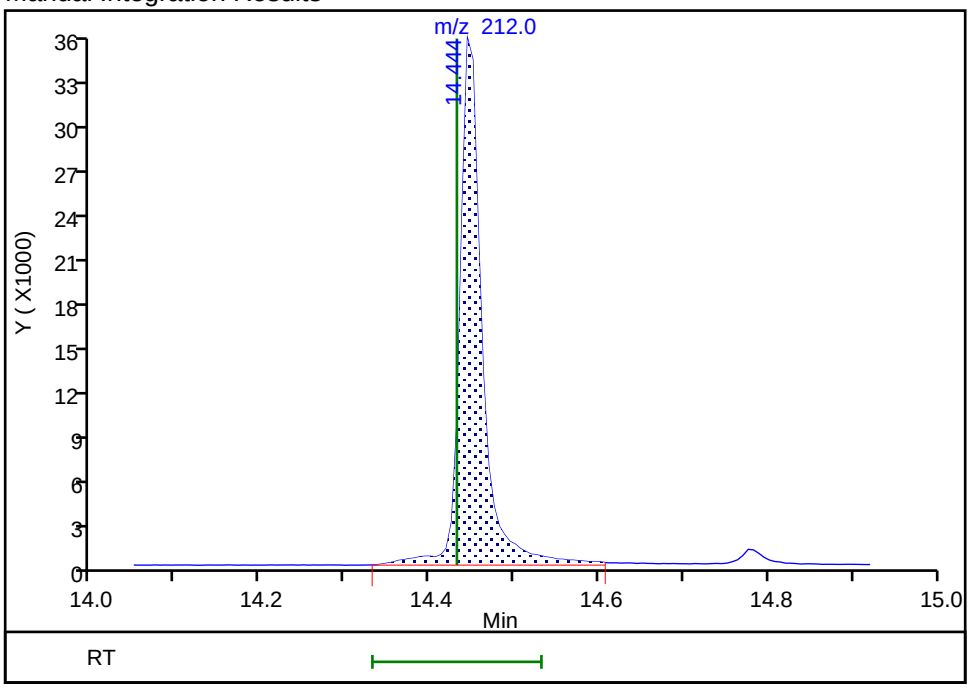
Processing Integration Results

RT: 14.44
Area: 64750
Amount: 0.053664
Amount Units: ug/ml



Manual Integration Results

RT: 14.44
Area: 64696
Amount: 0.052674
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:38:47
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

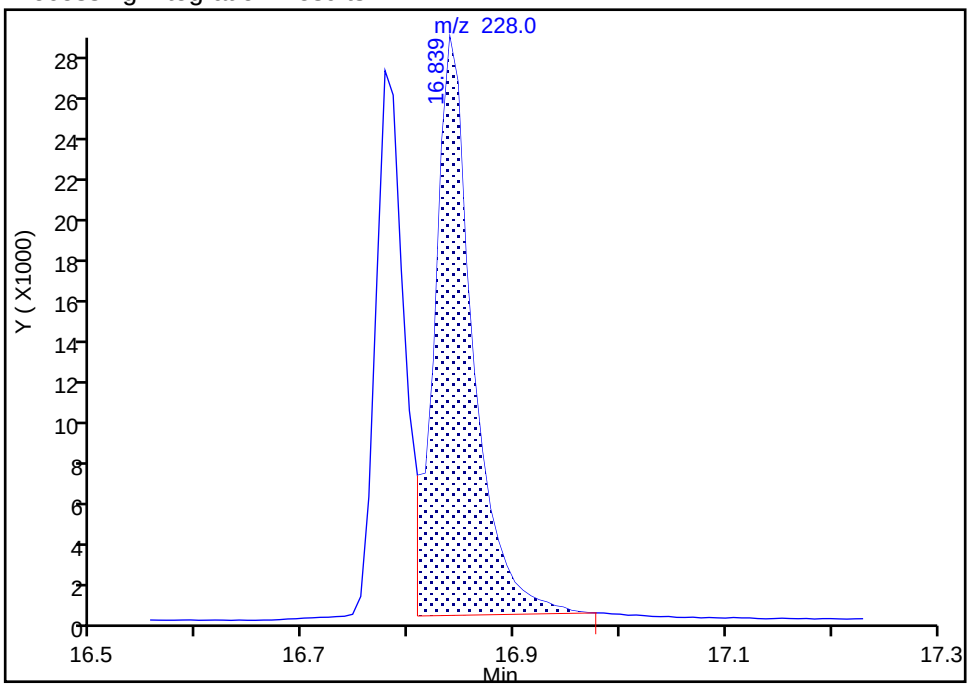
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0605.D
Injection Date: 16-Dec-2021 11:09:30 Instrument ID: HP23263
Lims ID: IC L2
Client ID:
Operator ID: jmg00346 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

30 Chrysene, CAS: 218-01-9

Signal: 1

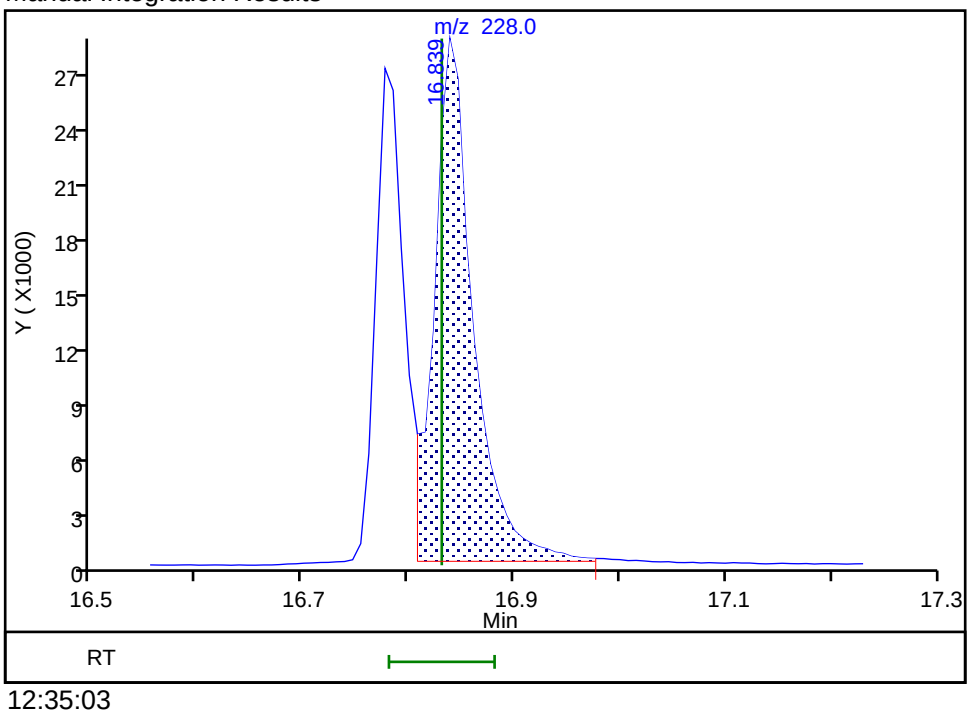
Processing Integration Results

RT: 16.84
Area: 70178
Amount: 0.052383
Amount Units: ug/ml



Manual Integration Results

RT: 16.84
Area: 70947
Amount: 0.052795
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:35:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

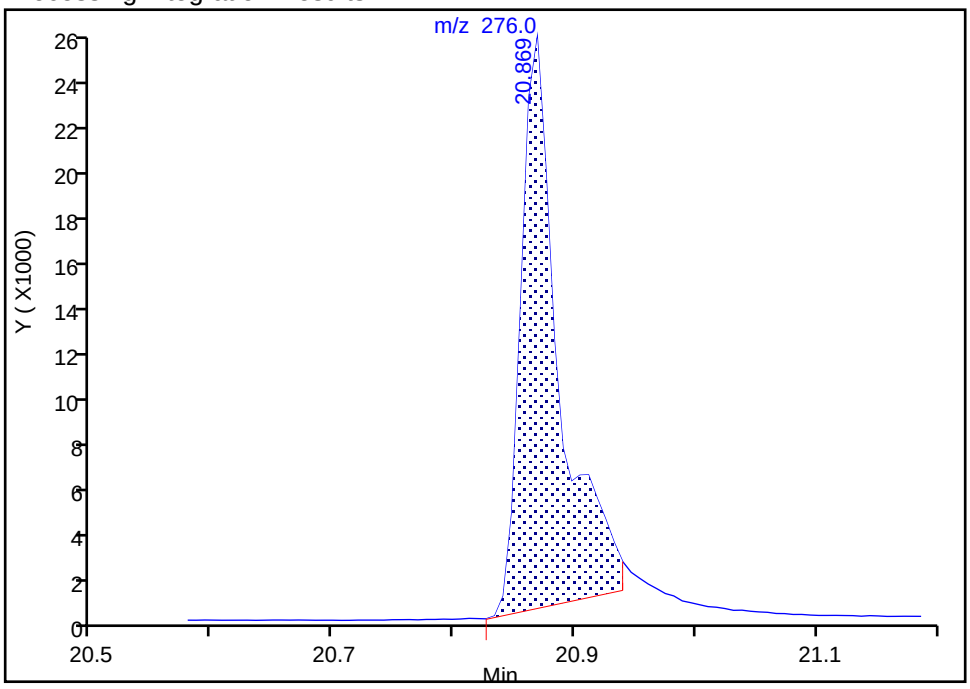
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0605.D				
Injection Date:	16-Dec-2021 11:09:30	Instrument ID:	HP23263		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

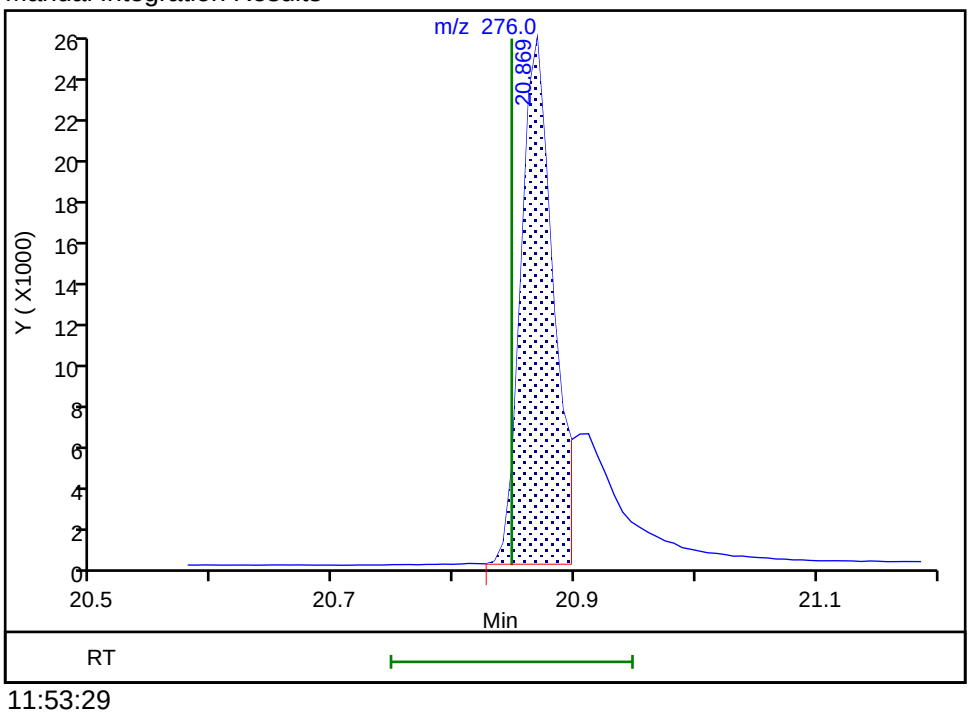
Processing Integration Results

RT: 20.87
Area: 54878
Amount: 0.050710
Amount Units: ug/ml



Manual Integration Results

RT: 20.87
Area: 46471
Amount: 0.045616
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 11:53:29

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Dec-2021 11:36:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0046502-007
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:15:04 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: transuea Date: 16-Dec-2021 12:27:33

	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	2.171	2.171	0.000	98	3227	0.0100	0.0135	M
	2 N-Nitrosodimethylamine	74	2.569	2.569	0.000	74	1555	0.0100	0.007449	M
	3 Bis(2-chloroethyl)ether	93	5.794	5.794	0.000	92	2669	0.0100	0.006682	M
*	4 1,4-Dichlorobenzene-d4	152	5.994	5.994	0.000	93	83865	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.018	8.018	0.000	100	297253	0.2500	0.2500	
	6 Naphthalene	128	8.043	8.043	0.000	28	13938	0.0100	0.0112	
	7 Quinoline	129	8.780	8.780	0.000	92	6248	0.0100	0.009048	M
	8 2-Methylnaphthalene	142	9.213	9.213	0.000	98	8840	0.0100	0.0111	M
$	9 1-Methylnaphthalene-d10	152	9.293	9.293	0.000	100	7440	0.0100	0.0118	
	10 1-Methylnaphthalene	142	9.353	9.353	0.000	97	8749	0.0100	0.0110	M
	11 Dimethyl phthalate	163	10.535	10.535	0.000	100	230914	0.2500	0.2844	
	12 Acenaphthylene	152	10.635	10.635	0.000	96	13466	0.0100	0.0112	
*	13 Acenaphthene-d10	164	10.866	10.866	0.000	95	168944	0.2500	0.2500	
	14 Acenaphthene	154	10.916	10.916	0.000	94	8188	0.0100	0.0109	
	15 Dibenzofuran	168	11.233	11.233	0.000	99	11399	0.0100	0.0104	
	16 Diethyl phthalate	149	11.635	11.635	0.000	99	237579	0.2500	0.2813	
	17 Fluorene	166	11.720	11.720	0.000	98	10110	0.0100	0.0115	
	18 N-Nitrosodiphenylamine	169	11.944	11.944	0.000	99	8310	0.0100	0.0101	
	19 Hexachlorobenzene	284	12.376	12.376	0.000	96	4120	0.0100	0.0125	
*	20 Phenanthrene-d10	188	12.847	12.847	0.000	100	290221	0.2500	0.2500	
	21 Phenanthrene	178	12.871	12.871	0.000	39	15053	0.0100	0.0118	
	22 Anthracene	178	12.963	12.963	0.000	100	14696	0.0100	0.0123	
	23 Di-n-butyl phthalate	149	13.667	13.667	0.000	100	330289	0.2500	0.2757	
$	24 Fluoranthene-d10 (Surr)	212	14.463	14.463	0.000	99	15244	0.0100	0.0137	M
	25 Fluoranthene	202	14.488	14.488	0.000	98	15153	0.0100	0.0121	
	26 Pyrene	202	14.820	14.820	0.000	98	16572	0.0100	0.0122	
	27 Butyl benzyl phthalate	149	15.934	15.934	0.000	100	140647	0.2500	0.2610	
	28 Benzo[a]anthracene	228	16.785	16.785	0.000	8	11020	0.0100	0.0106	
*	29 Chrysene-d12	240	16.800	16.800	0.000	83	216272	0.2500	0.2500	
	30 Chrysene	228	16.839	16.839	0.000	100	17715	0.0100	0.009870	M

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	16.992	16.992	0.000	99	187333	0.2500	0.2589	
32 Di-n-octyl phthalate	149	18.158	18.158	0.000	100	306254	0.2500	0.2641	
33 Benzo[b]fluoranthene	252	18.641	18.641	0.000	100	11426	0.0100	0.0112	
34 Benzo[k]fluoranthene	252	18.687	18.687	0.000	99	15832	0.0100	0.0136	
35 Benzo[e]pyrene	252	19.078	19.078	0.000	100	12165	0.0100	0.0117	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.124	19.124	0.000	97	11972	0.0100	0.0101	
37 Benzo[a]pyrene	252	19.155	19.155	0.000	100	11443	0.0100	0.0116	
* 38 Perylene-d12	264	19.247	19.247	0.000	97	207739	0.2500	0.2500	
39 Perylene	252	19.293	19.293	0.000	100	11423	0.0100	0.0114	
40 Indeno[1,2,3-cd]pyrene	276	20.897	20.897	0.000	96	8916	0.0100	0.0099	M
41 Dibenz(a,h)anthracene	278	20.939	20.939	0.000	97	11696	0.0100	0.0113	
42 Benzo[g,h,i]perylene	276	21.264	21.264	0.000	98	14089	0.0100	0.0124	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00014 Amount Added: 1.00 Units: mL

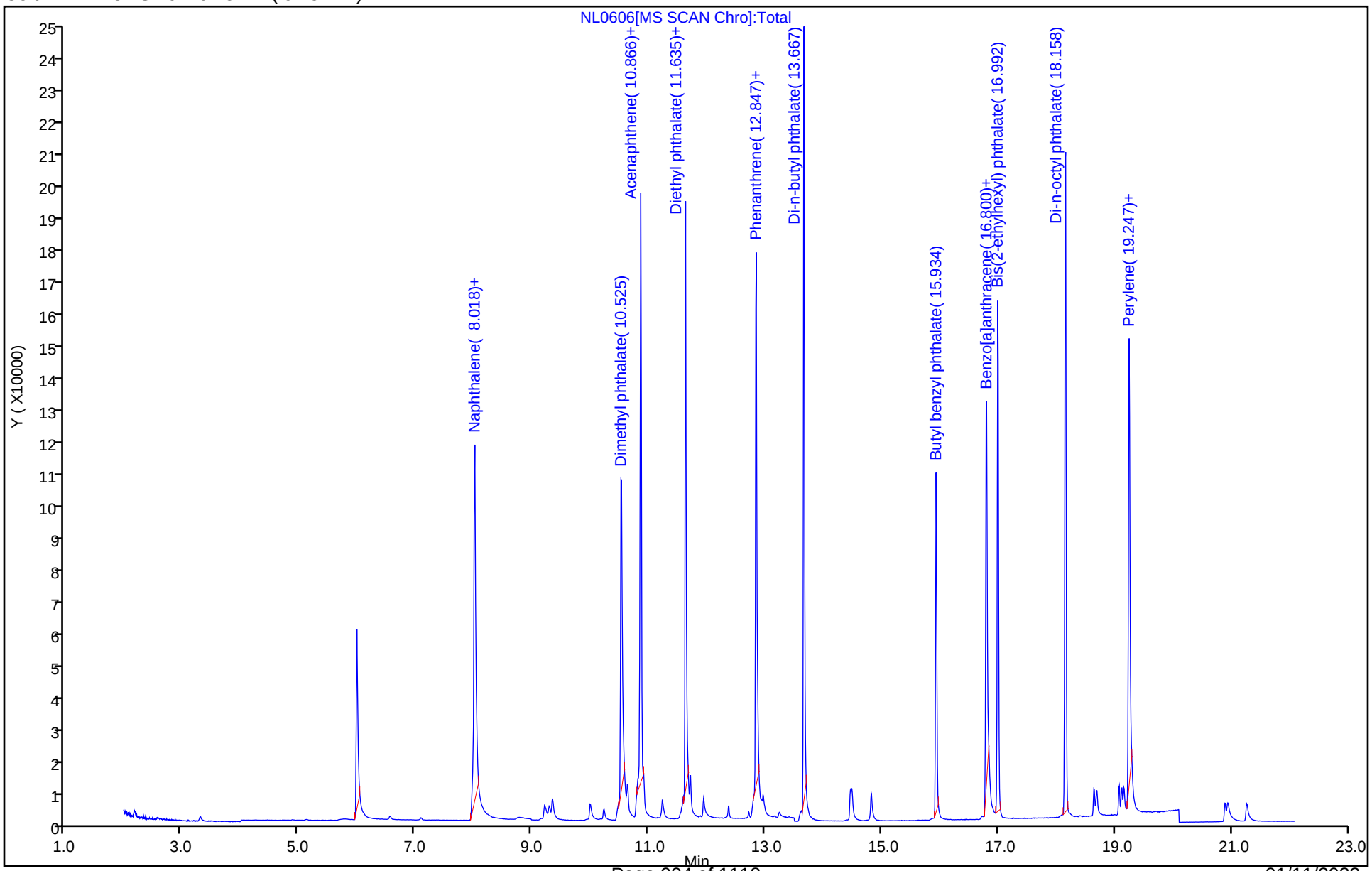
Report Date: 16-Dec-2021 14:15:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Injection Date:	16-Dec-2021 11:36:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

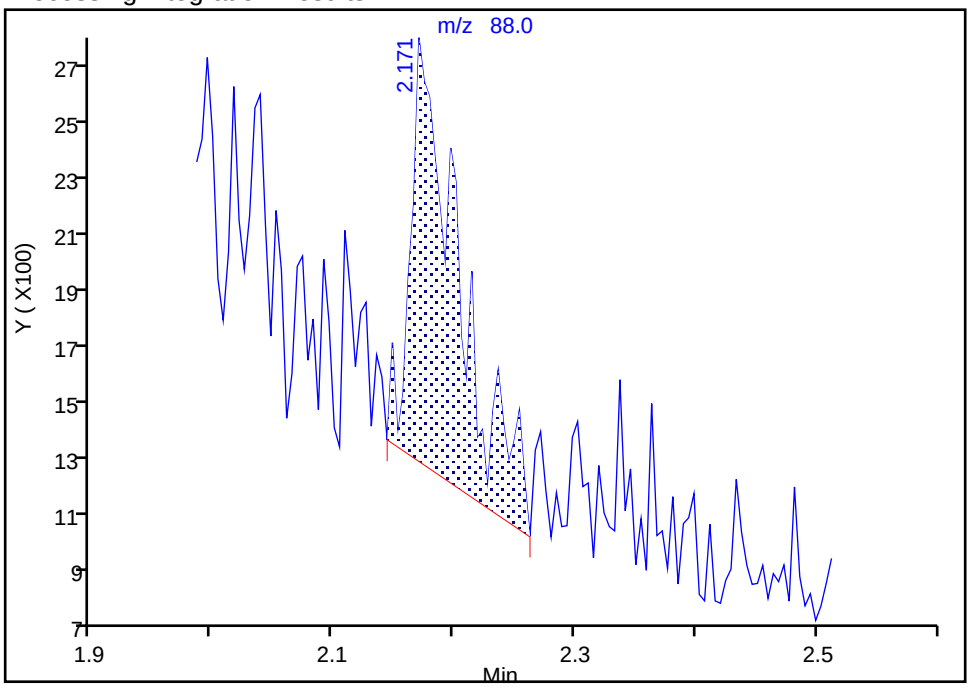
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Injection Date:	16-Dec-2021 11:36:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

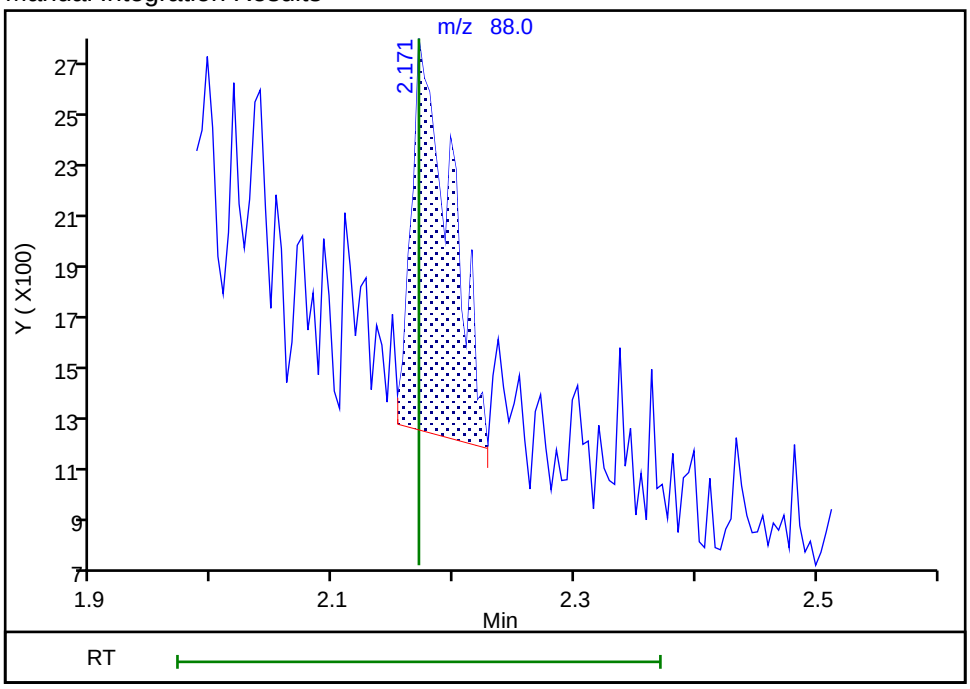
Processing Integration Results

RT: 2.17
Area: 3893
Amount: 0.009967
Amount Units: ug/ml



Manual Integration Results

RT: 2.17
Area: 3227
Amount: 0.013503
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:31:48
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

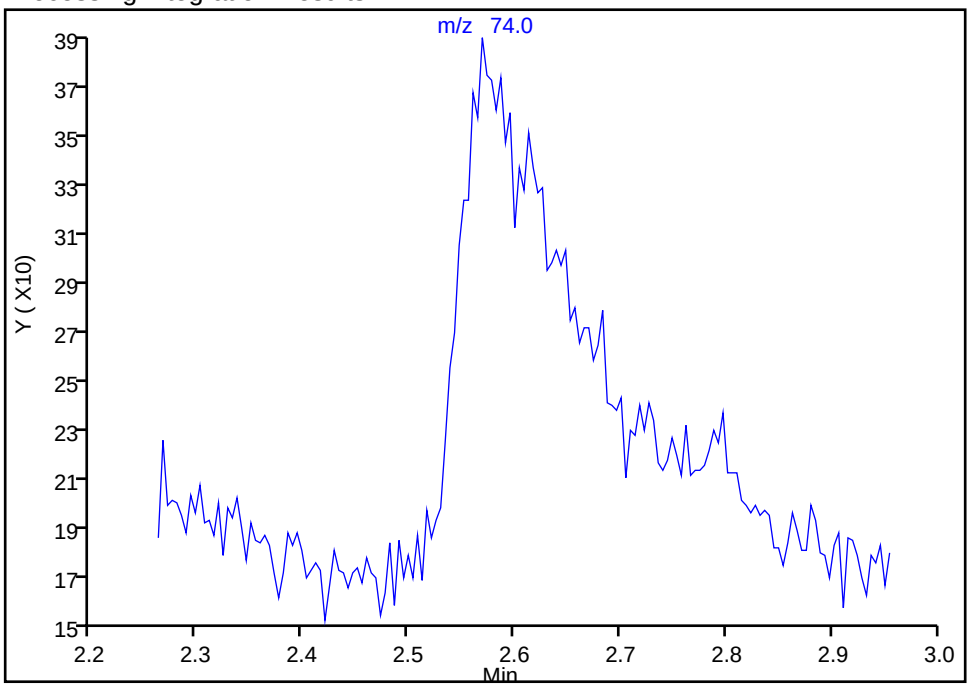
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Injection Date:	16-Dec-2021 11:36:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

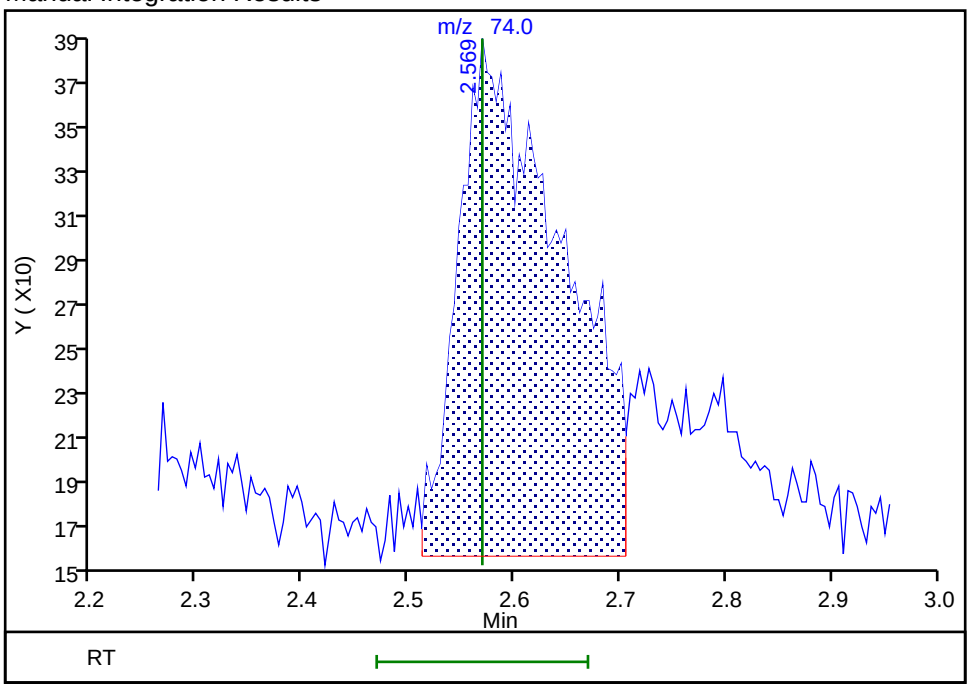
Not Detected
Expected RT: 2.57

Processing Integration Results



Manual Integration Results

RT: 2.57
Area: 1555
Amount: 0.007449
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:20:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

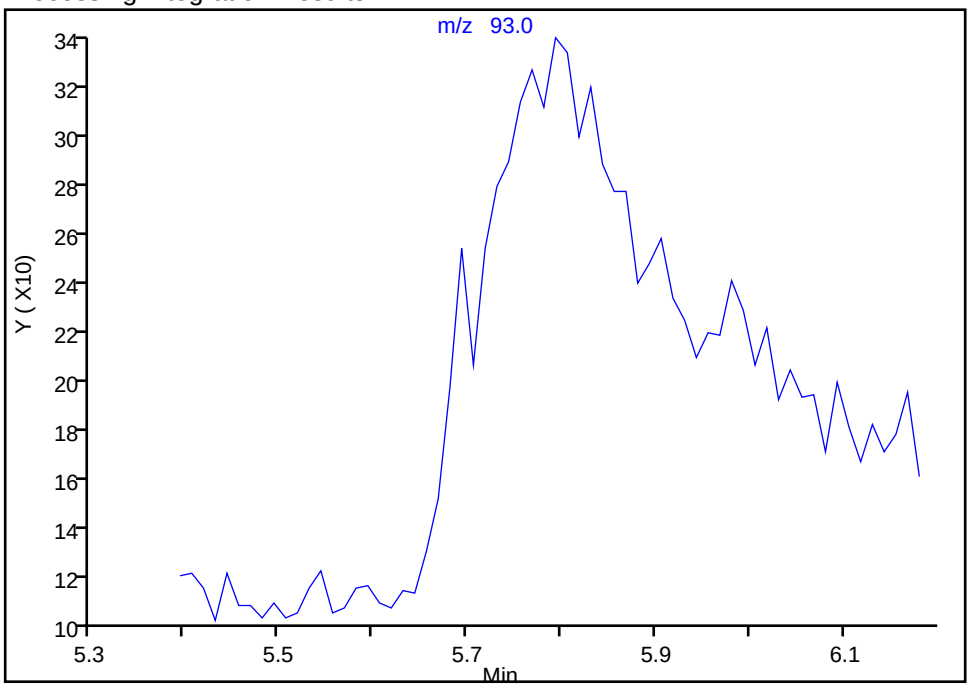
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Injection Date: 16-Dec-2021 11:36:30 Instrument ID: HP23263
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

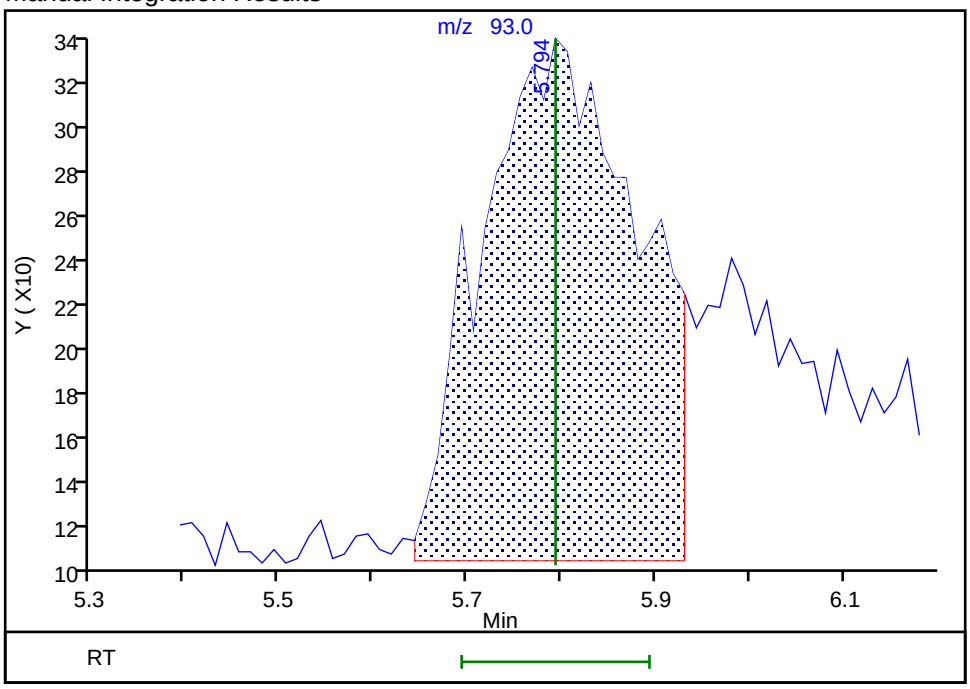
Not Detected
Expected RT: 5.79

Processing Integration Results



Manual Integration Results

RT: 5.79
Area: 2669
Amount: 0.006682
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:20:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

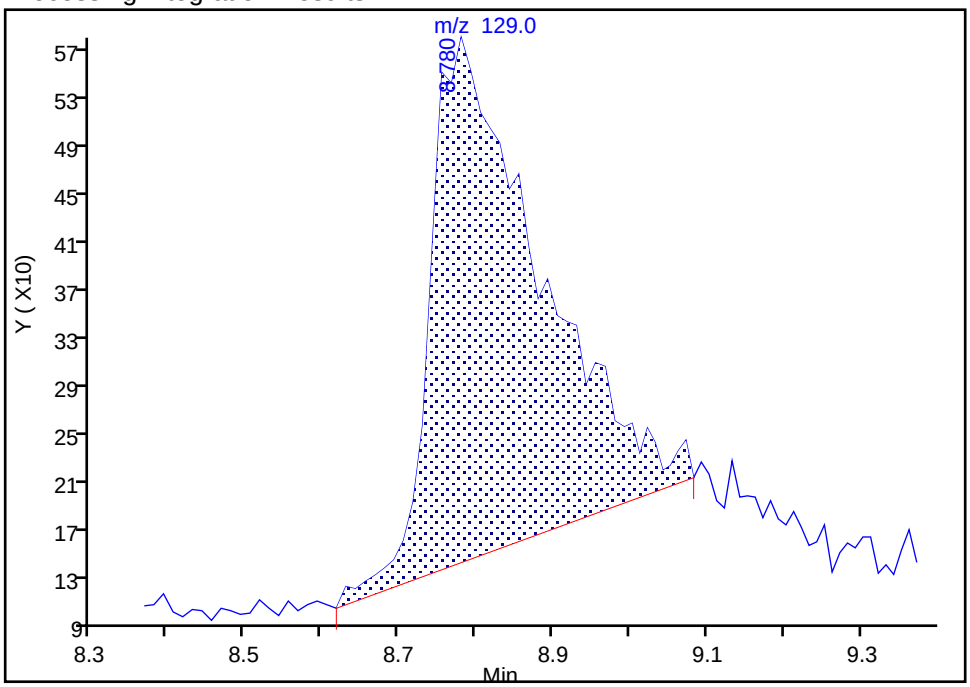
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D
Injection Date: 16-Dec-2021 11:36:30 Instrument ID: HP23263
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

7 Quinoline, CAS: 91-22-5

Signal: 1

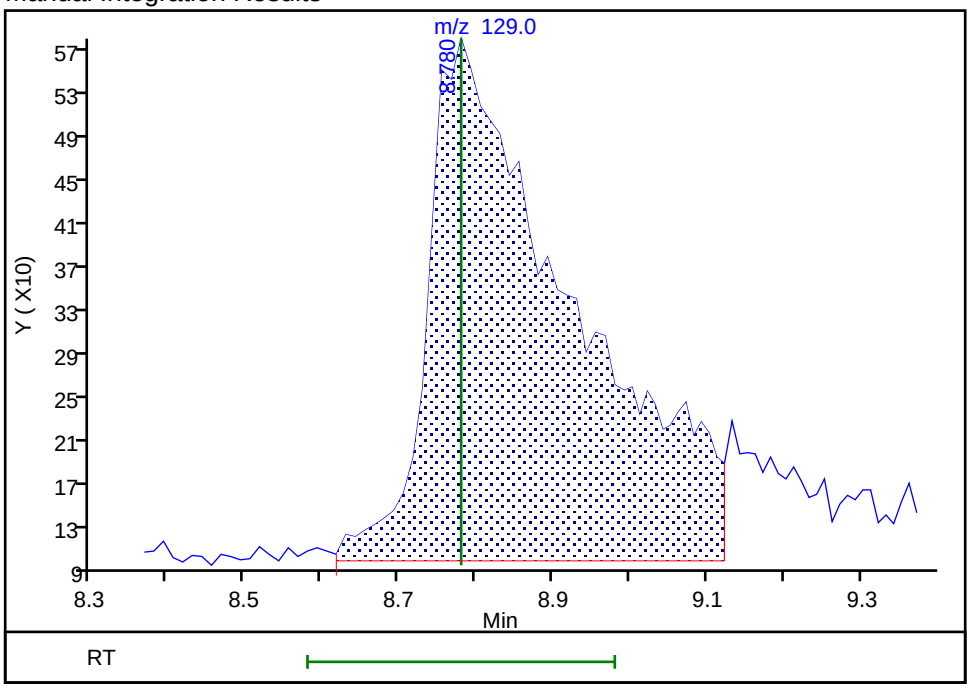
Processing Integration Results

RT: 8.78
Area: 4309
Amount: 0.006546
Amount Units: ug/ml



Manual Integration Results

RT: 8.78
Area: 6248
Amount: 0.009048
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:20:25
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

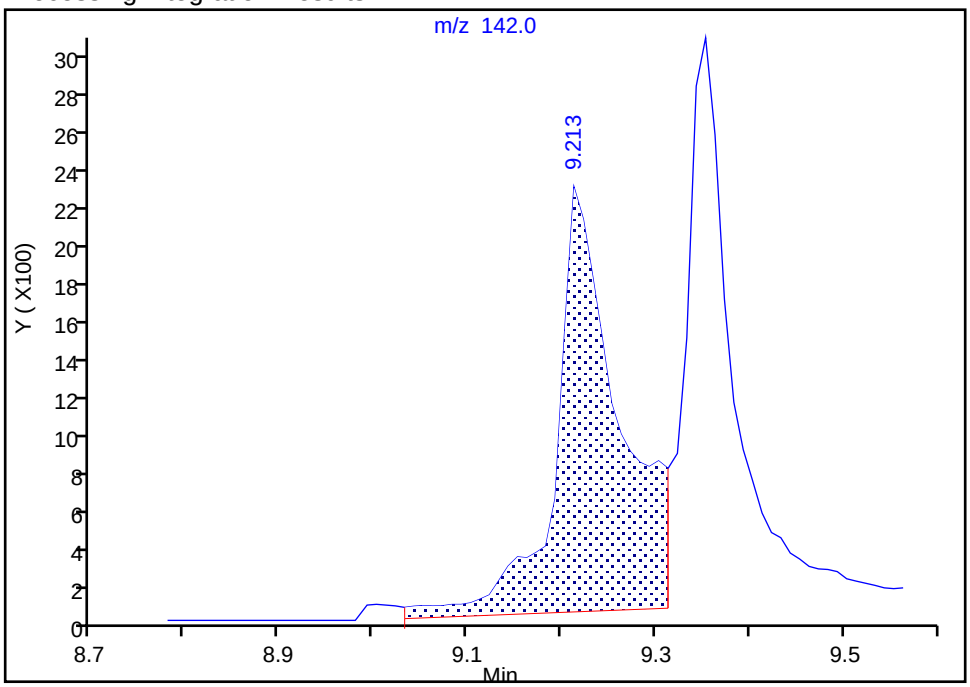
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Injection Date: 16-Dec-2021 11:36:30 Instrument ID: HP23263
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

8 2-Methylnaphthalene, CAS: 91-57-6

Signal: 1

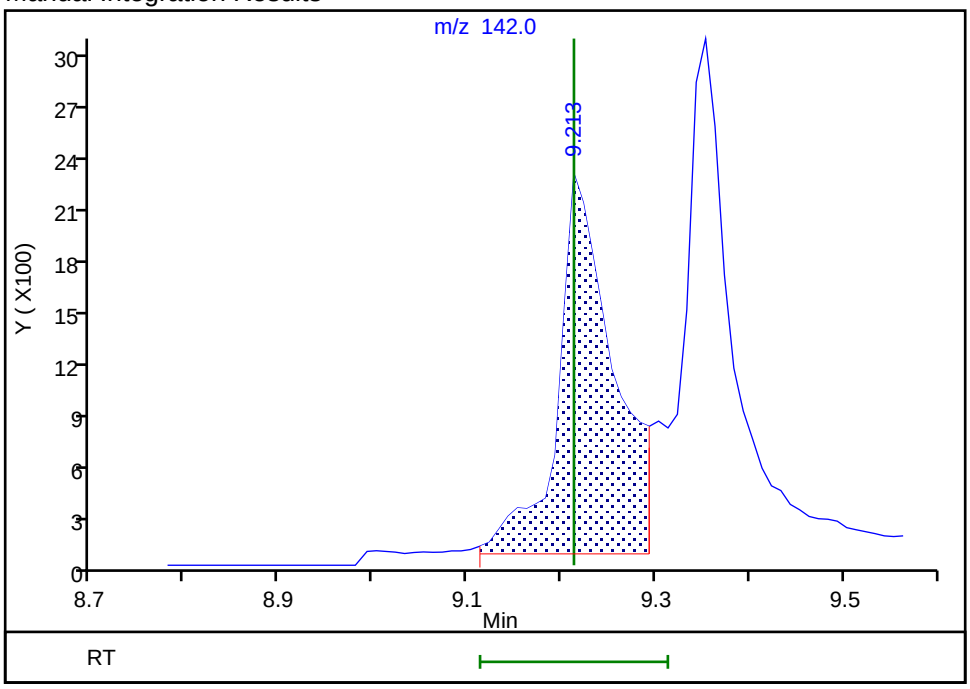
Processing Integration Results

RT: 9.21
Area: 10292
Amount: 0.012590
Amount Units: ug/ml



Manual Integration Results

RT: 9.21
Area: 8840
Amount: 0.011144
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:20:34
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

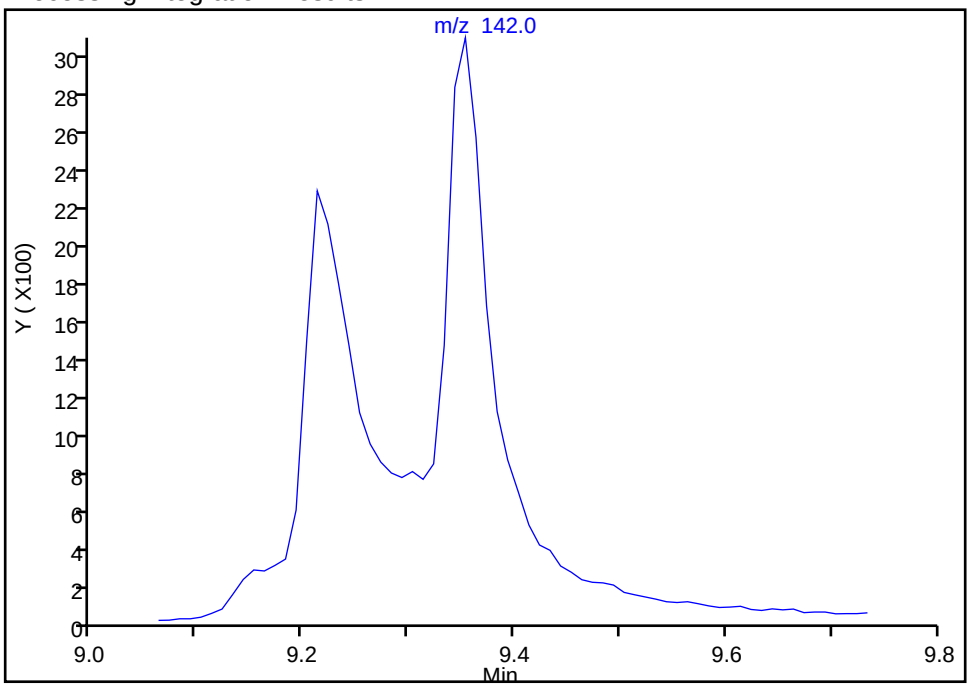
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Injection Date: 16-Dec-2021 11:36:30 Instrument ID: HP23263
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

10 1-Methylnaphthalene, CAS: 90-12-0

Signal: 1

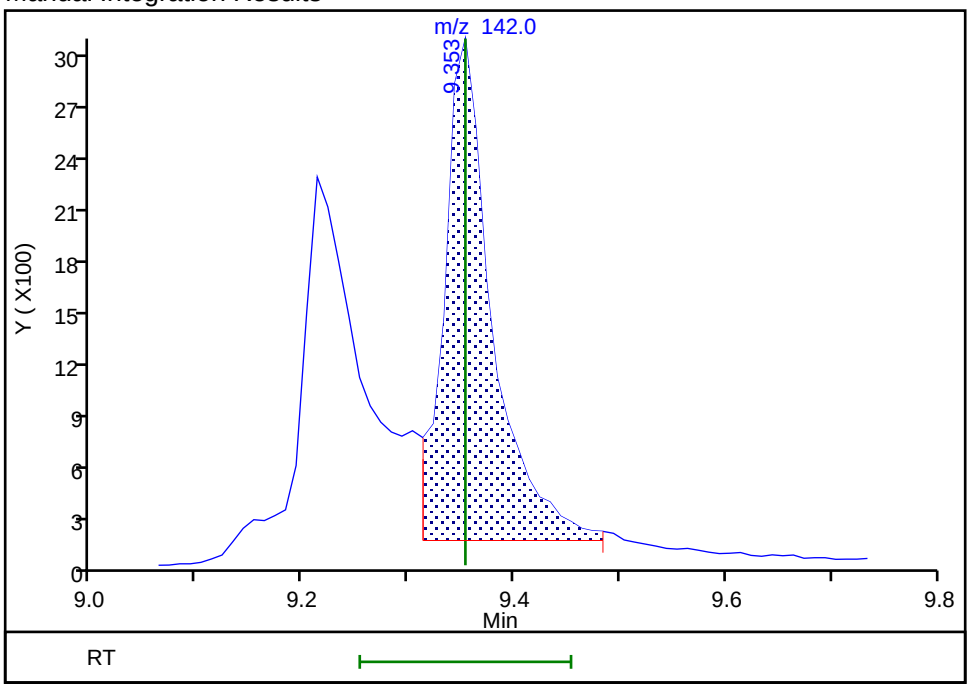
Not Detected
Expected RT: 9.35

Processing Integration Results



Manual Integration Results

RT: 9.35
Area: 8749
Amount: 0.010991
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:20:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

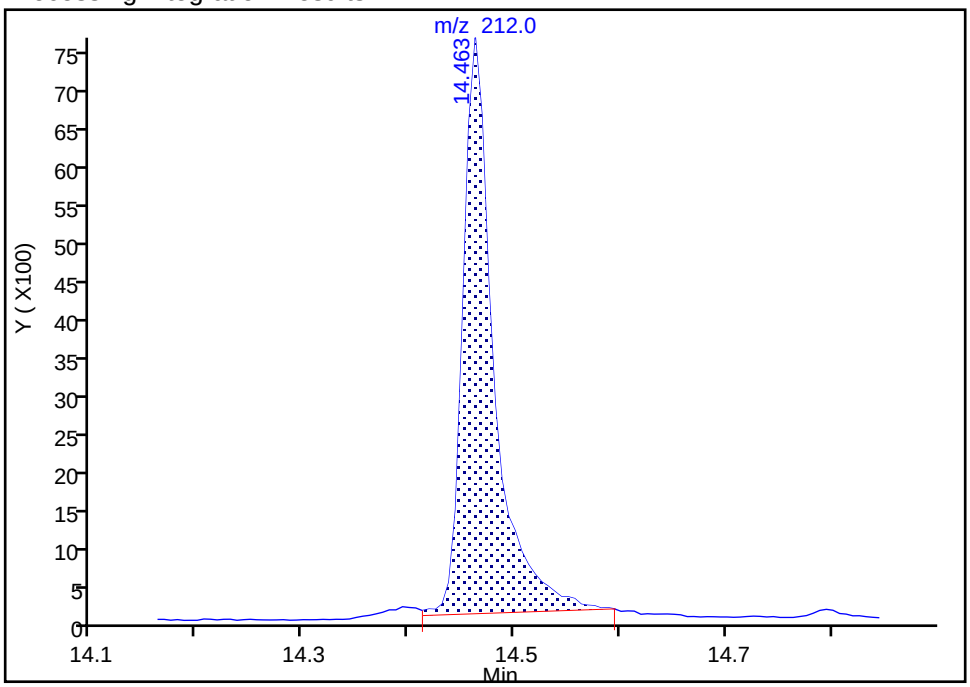
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D
Injection Date: 16-Dec-2021 11:36:30 Instrument ID: HP23263
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

$ 24 Fluoranthene-d10 (Surr), CAS: 93951-69-0

Signal: 1

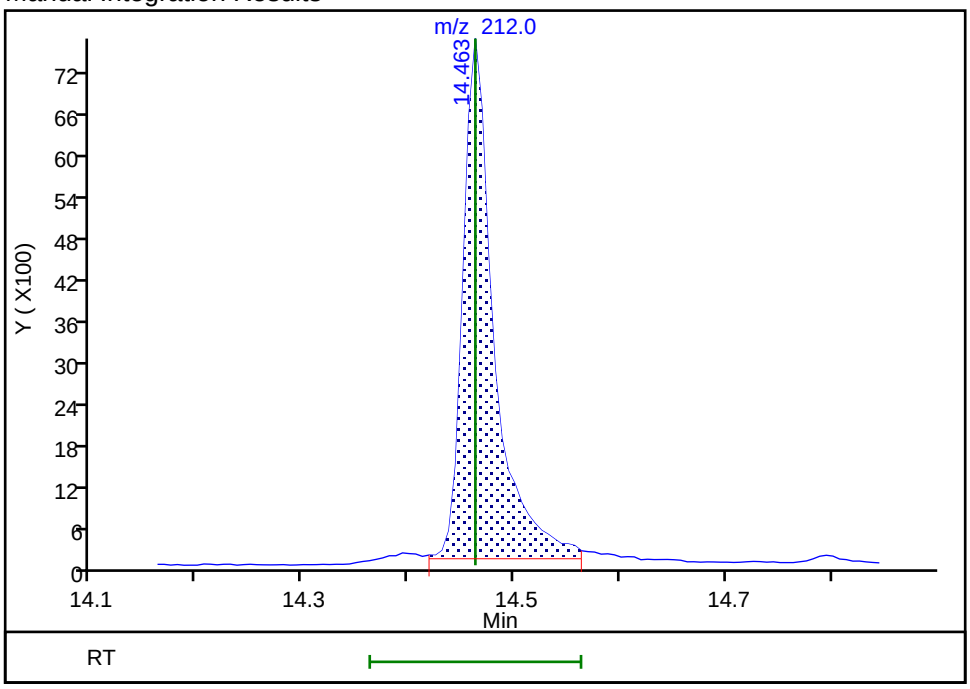
Processing Integration Results

RT: 14.46
Area: 15282
Amount: 0.009856
Amount Units: ug/ml



Manual Integration Results

RT: 14.46
Area: 15244
Amount: 0.013705
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:35:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

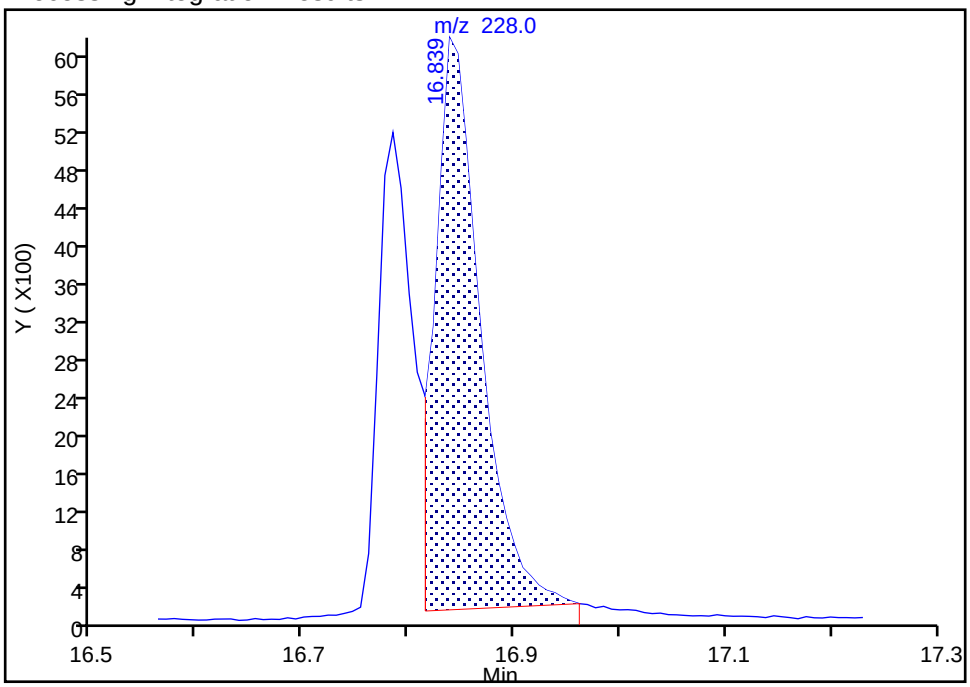
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D
Injection Date: 16-Dec-2021 11:36:30 Instrument ID: HP23263
Lims ID: IC L1
Client ID:
Operator ID: jmg00346 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

30 Chrysene, CAS: 218-01-9

Signal: 1

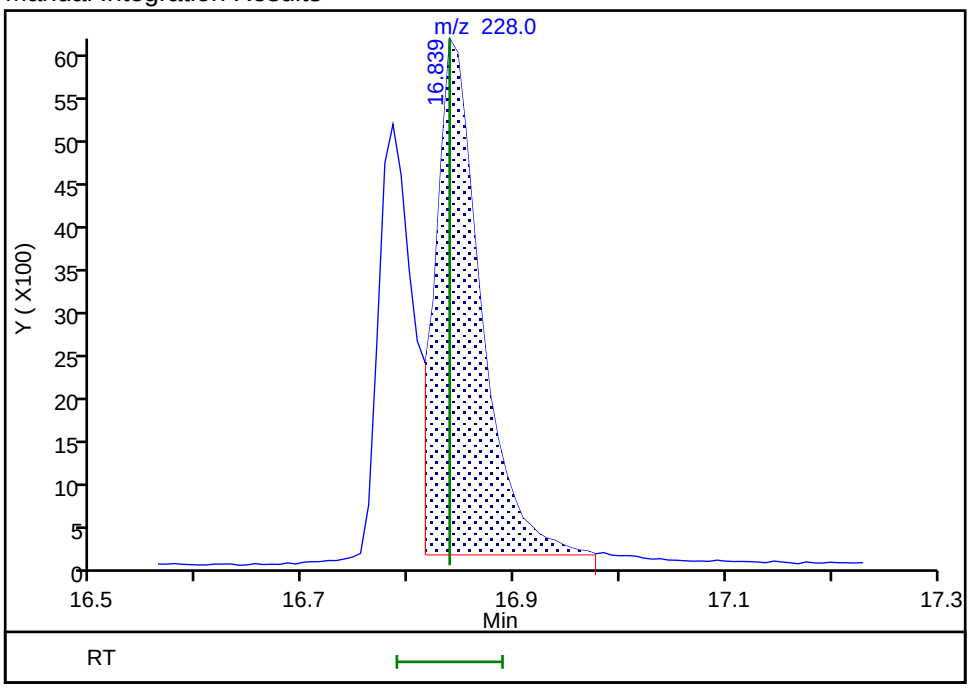
Processing Integration Results

RT: 16.84
Area: 17534
Amount: 0.009865
Amount Units: ug/ml



Manual Integration Results

RT: 16.84
Area: 17715
Amount: 0.009870
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:35:25
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

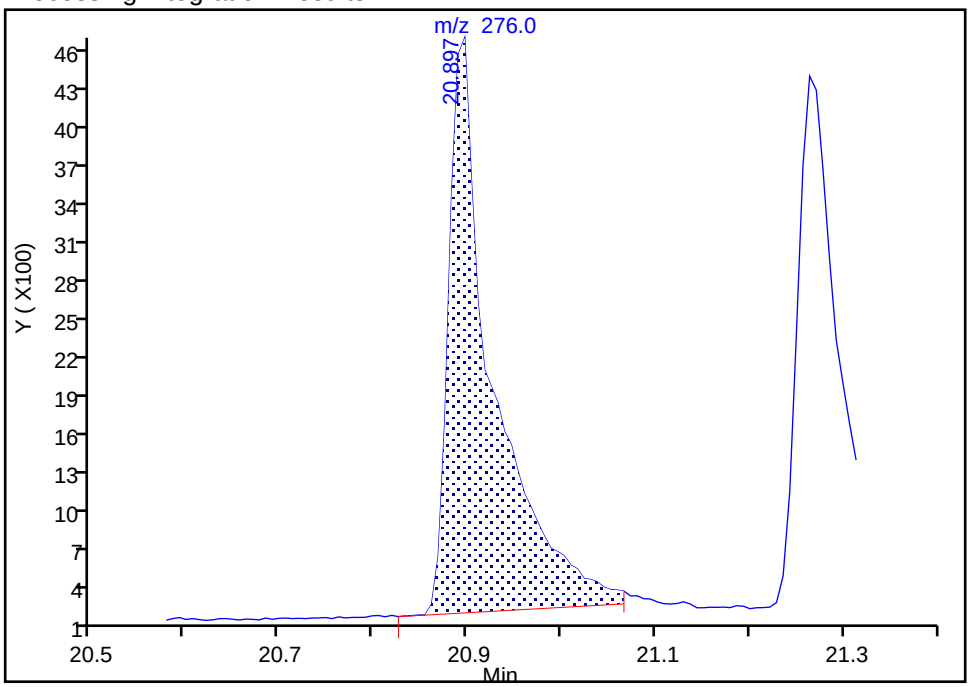
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D				
Injection Date:	16-Dec-2021 11:36:30	Instrument ID:	HP23263		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit 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

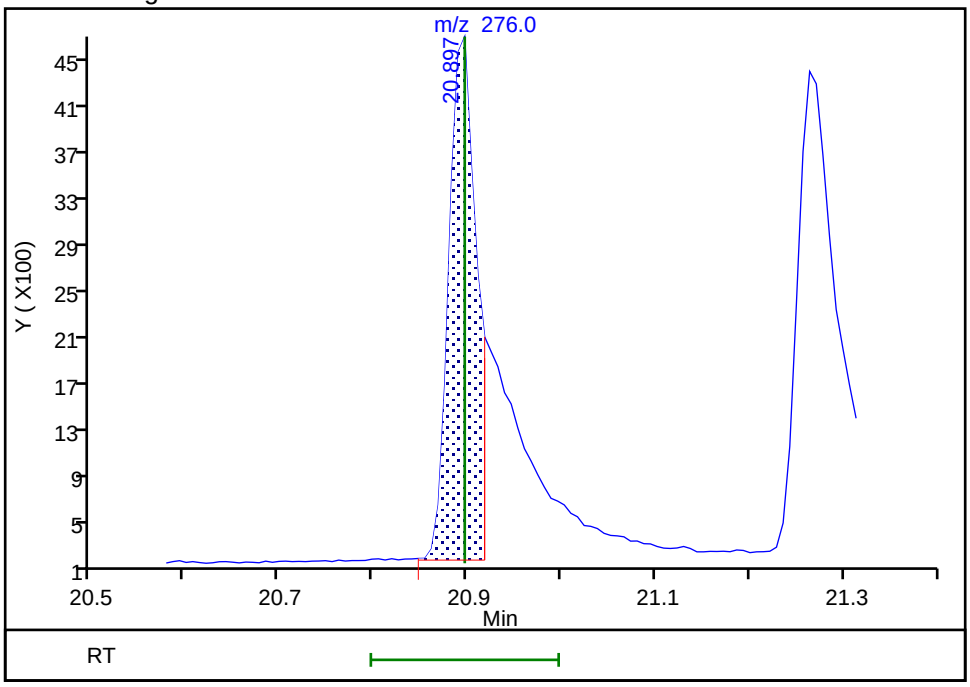
Processing Integration Results

RT: 20.90
Area: 14705
Amount: 0.013392
Amount Units: ug/ml



Manual Integration Results

RT: 20.90
Area: 8916
Amount: 0.009904
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 12:21:22

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

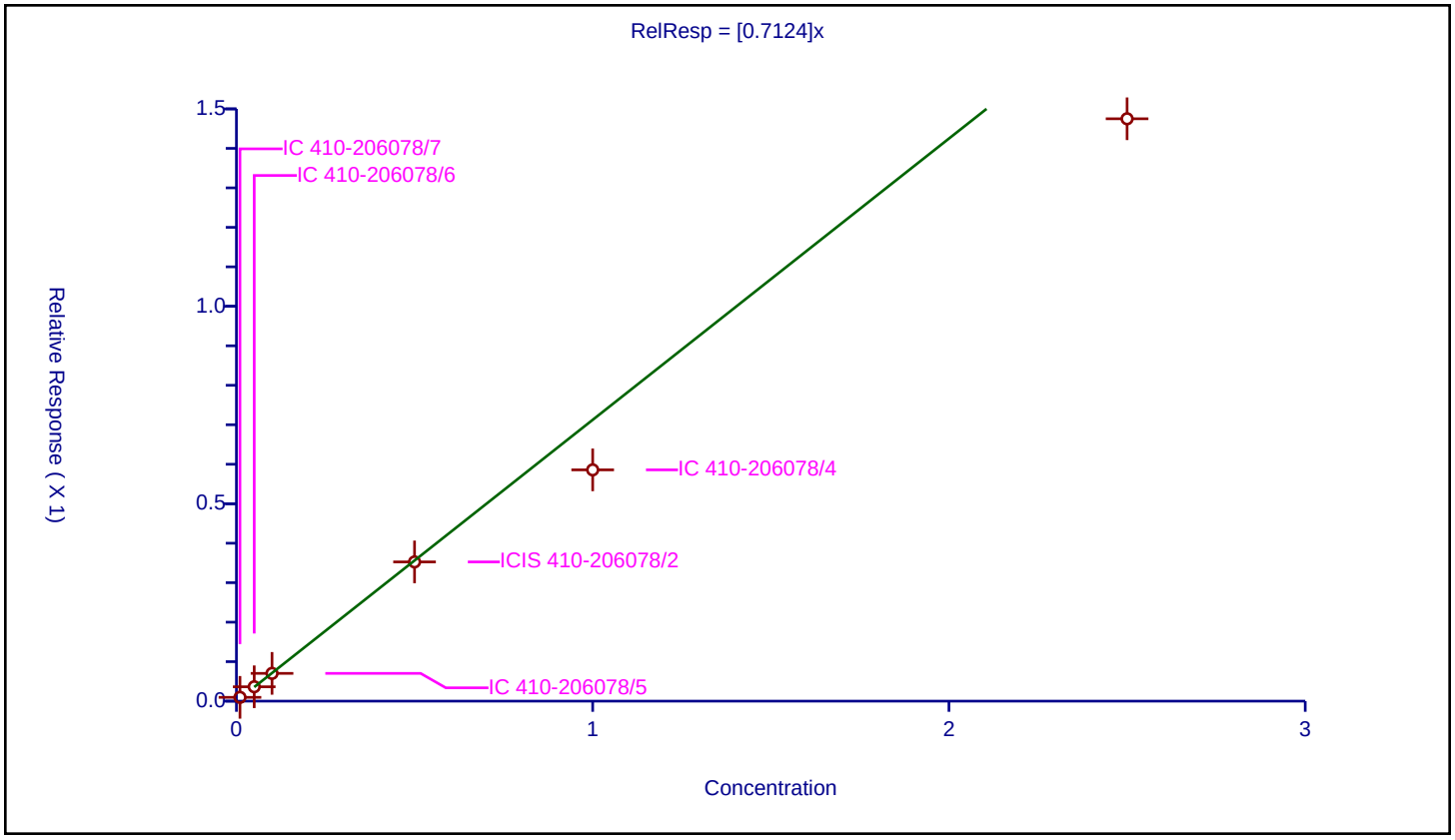
Curve Coefficients

Intercept:	0
Slope:	0.7124

Error Coefficients

Standard Error:	275000
Relative Standard Error:	19.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.947

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.00962	0.25	83865.0	0.961963	Y
2	IC 410-206078/6	0.05	0.036425	0.25	91880.0	0.728505	Y
3	IC 410-206078/5	0.1	0.070307	0.25	94952.0	0.703066	Y
4	ICIS 410-206078/2	0.5	0.352629	0.25	92306.0	0.705258	Y
5	IC 410-206078/4	1.0	0.585735	0.25	96789.0	0.585735	Y
6	IC 410-206078/3	2.5	1.47496	0.25	94148.0	0.589984	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

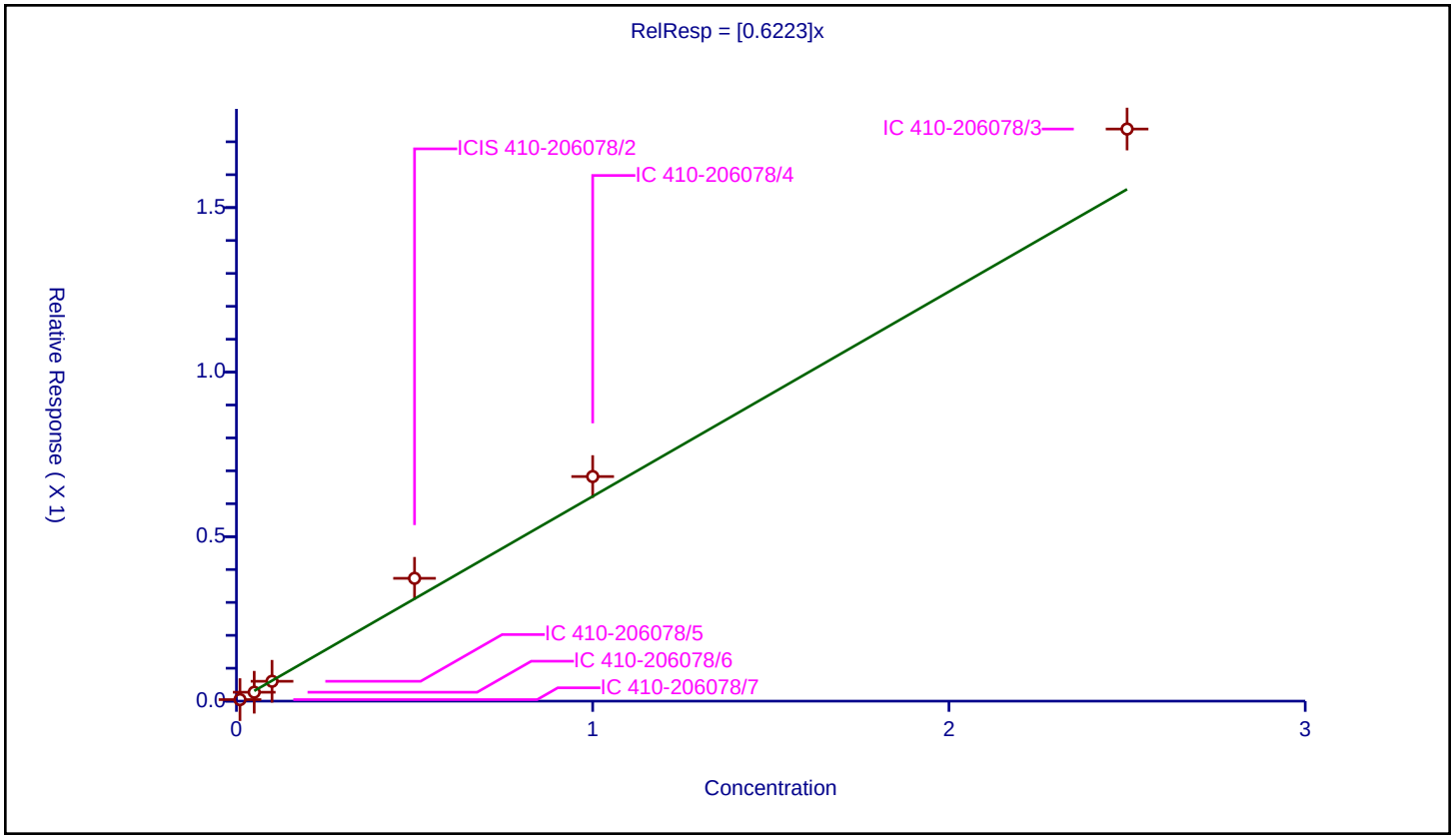
Curve Coefficients

Intercept:	0
Slope:	0.6223

Error Coefficients

Standard Error:	322000
Relative Standard Error:	17.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.004635	0.25	83865.0	0.463543	Y
2	IC 410-206078/6	0.05	0.027095	0.25	91880.0	0.541902	Y
3	IC 410-206078/5	0.1	0.060362	0.25	94952.0	0.603621	Y
4	ICIS 410-206078/2	0.5	0.373329	0.25	92306.0	0.746658	Y
5	IC 410-206078/4	1.0	0.682557	0.25	96789.0	0.682557	Y
6	IC 410-206078/3	2.5	1.738842	0.25	94148.0	0.695537	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

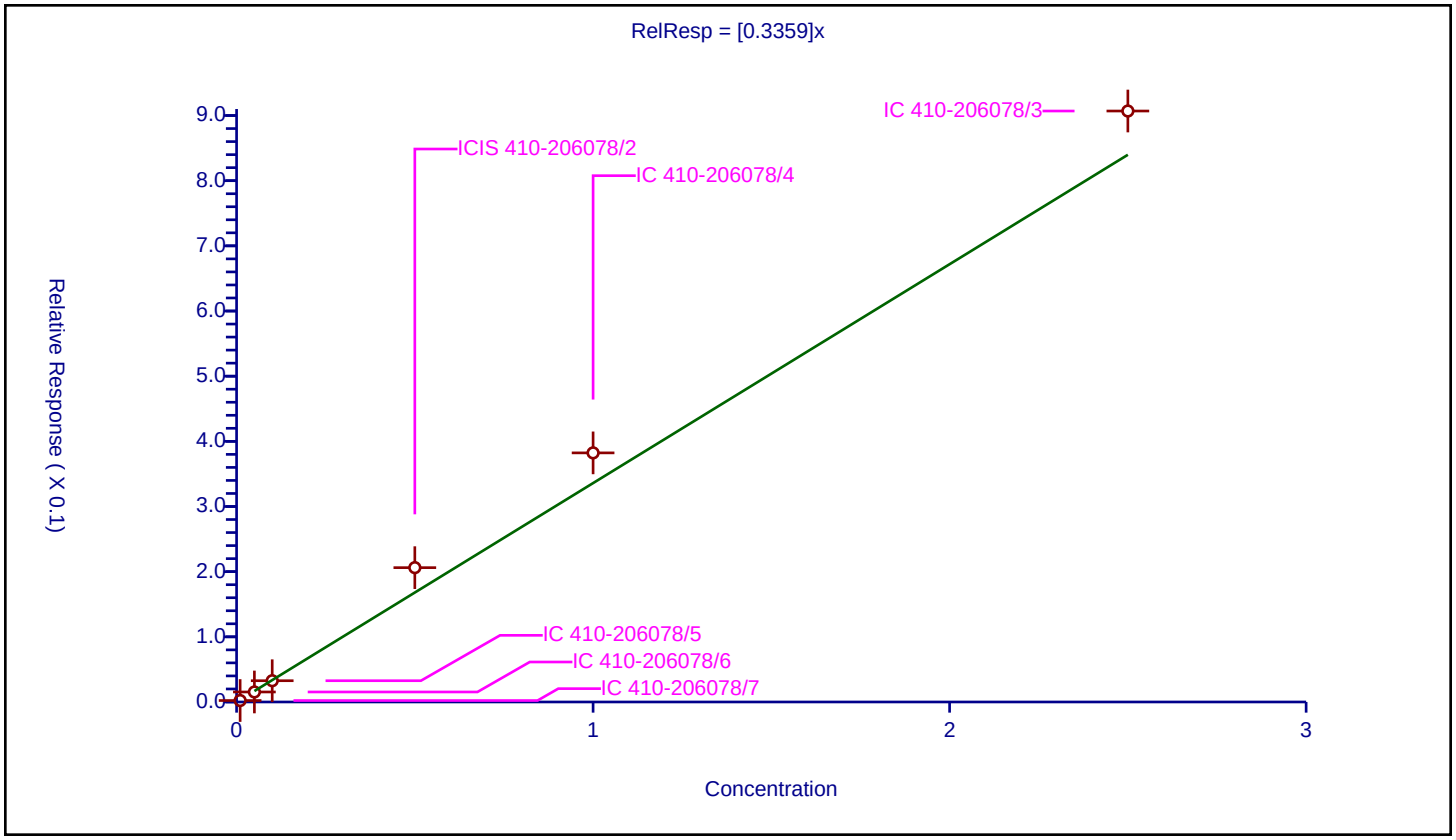
Curve Coefficients

Intercept:	0
Slope:	0.3359

Error Coefficients

Standard Error:	610000
Relative Standard Error:	19.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.002245	0.25	297253.0	0.224472	Y
2	IC 410-206078/6	0.05	0.015364	0.25	329002.0	0.307278	Y
3	IC 410-206078/5	0.1	0.032634	0.25	336136.0	0.326341	Y
4	ICIS 410-206078/2	0.5	0.20616	0.25	318012.0	0.412319	Y
5	IC 410-206078/4	1.0	0.382282	0.25	341379.0	0.382282	Y
6	IC 410-206078/3	2.5	0.906925	0.25	339193.0	0.36277	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

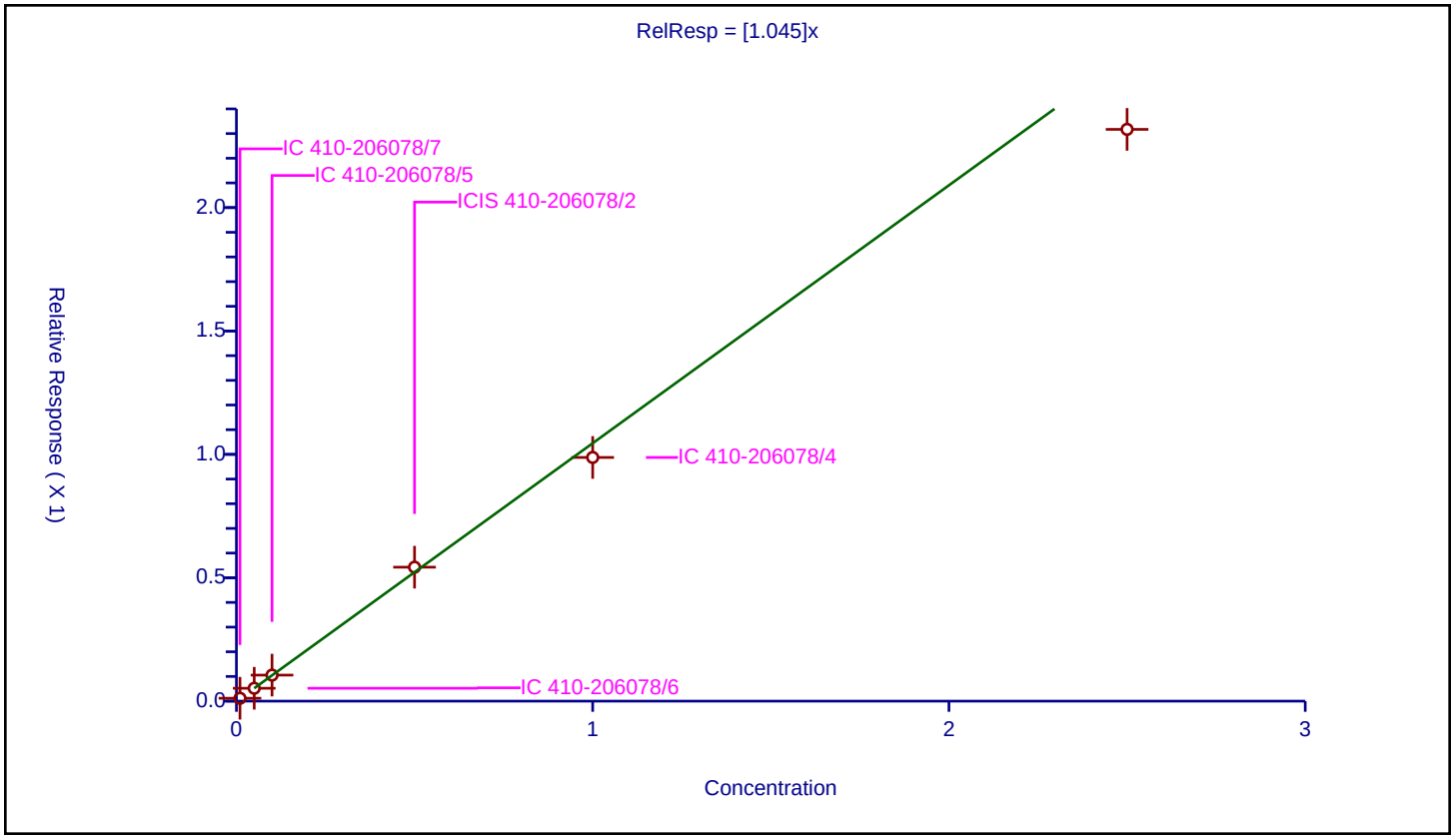
Curve Coefficients

Intercept:	0
Slope:	1.045

Error Coefficients

Standard Error:	1560000
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 410-206078/7	0.01	0.011722	0.25	297253.0	1.172234	Y
2	IC 410-206078/6	0.05	0.052216	0.25	329002.0	1.044325	Y
3	IC 410-206078/5	0.1	0.105457	0.25	336136.0	1.054573	Y
4	ICIS 410-206078/2	0.5	0.542829	0.25	318012.0	1.085657	Y
5	IC 410-206078/4	1.0	0.987517	0.25	341379.0	0.987517	Y
6	IC 410-206078/3	2.5	2.317034	0.25	339193.0	0.926814	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

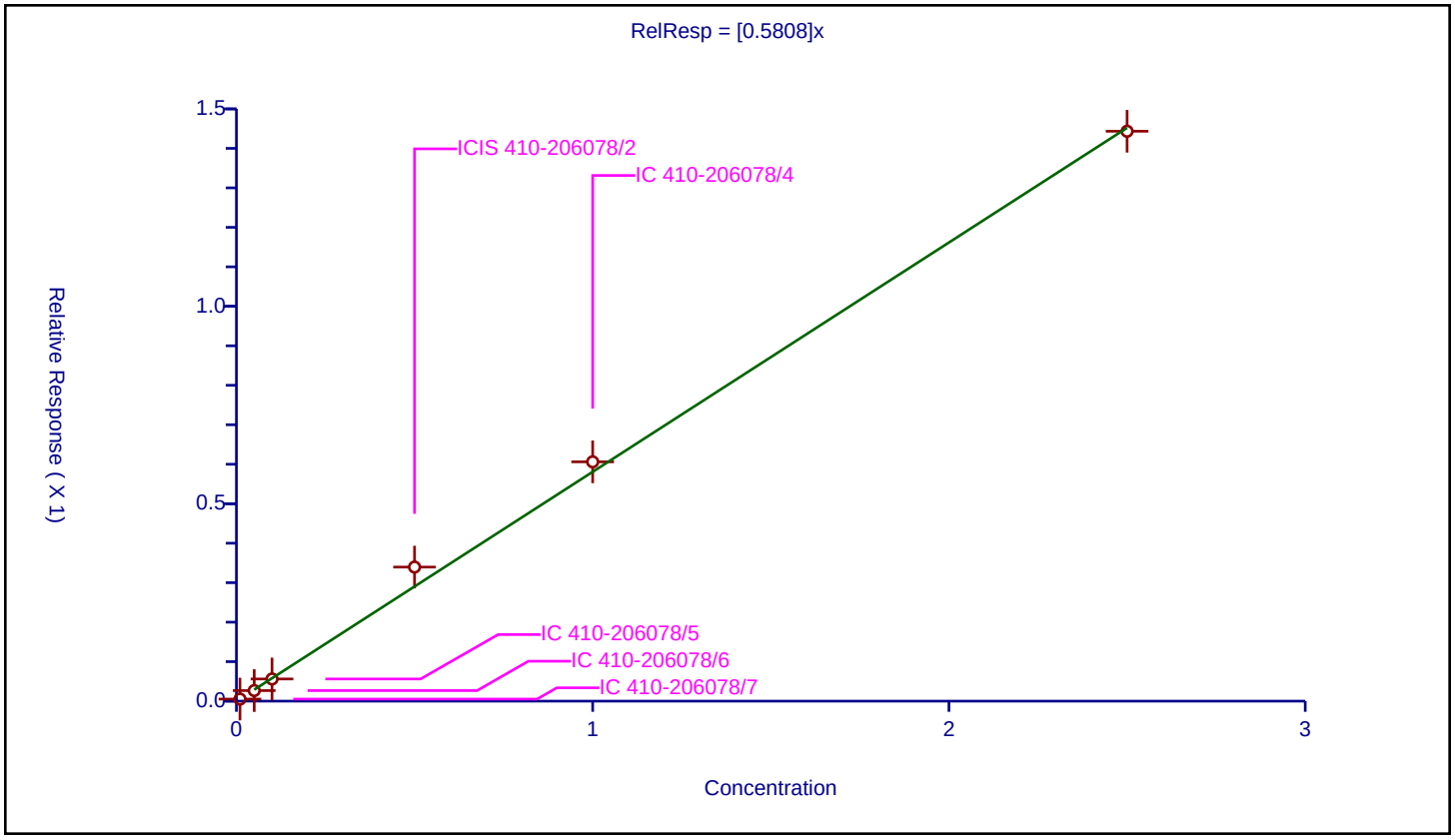
Curve Coefficients

Intercept:	0
Slope:	0.5808

Error Coefficients

Standard Error:	971000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.005255	0.25	297253.0	0.525478	Y
2	IC 410-206078/6	0.05	0.026772	0.25	329002.0	0.535437	Y
3	IC 410-206078/5	0.1	0.056126	0.25	336136.0	0.561261	Y
4	ICIS 410-206078/2	0.5	0.339538	0.25	318012.0	0.679075	Y
5	IC 410-206078/4	1.0	0.606163	0.25	341379.0	0.606163	Y
6	IC 410-206078/3	2.5	1.443402	0.25	339193.0	0.577361	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

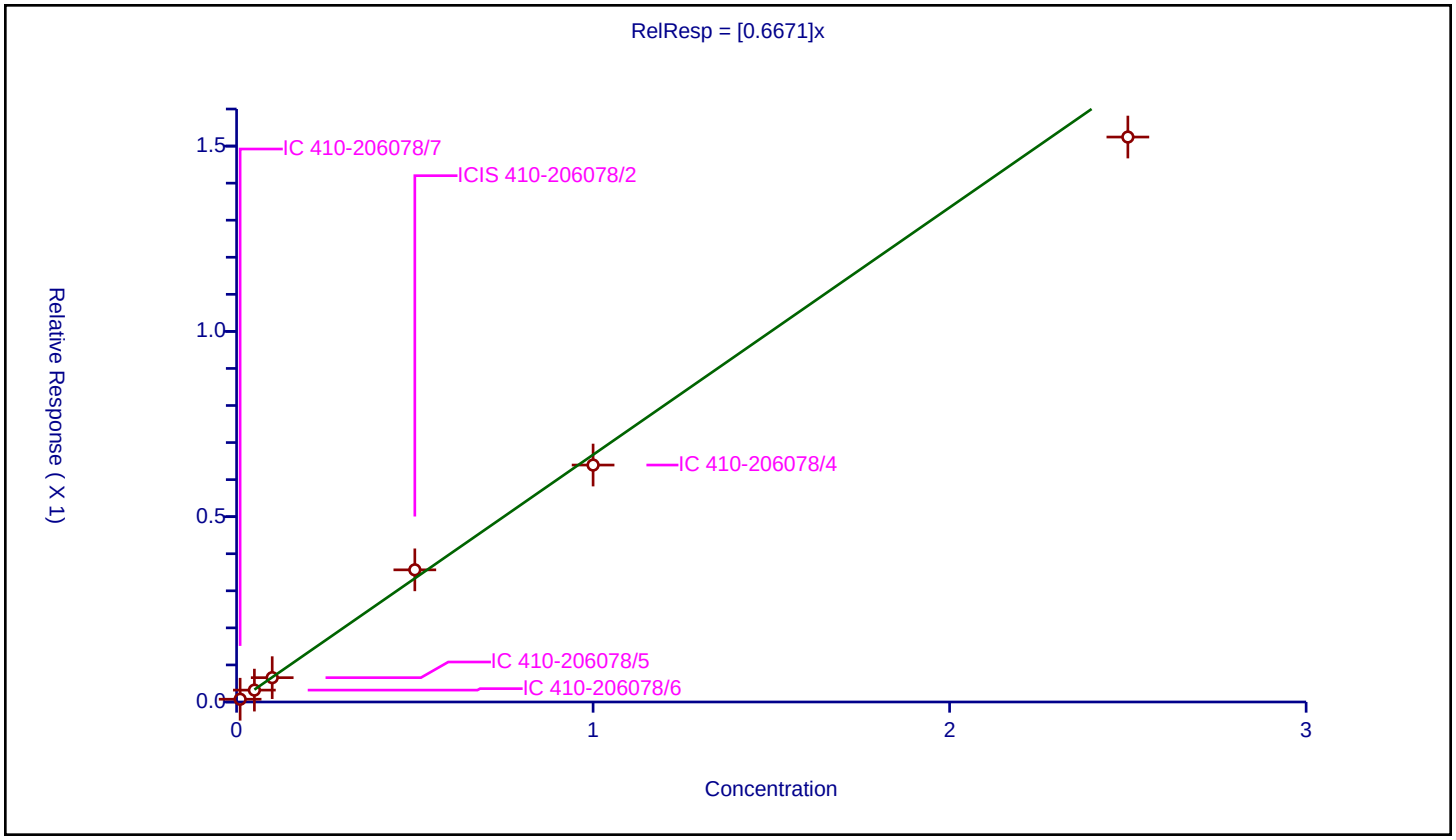
Curve Coefficients

Intercept:	0
Slope:	0.6671

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.007435	0.25	297253.0	0.743474	Y
2	IC 410-206078/6	0.05	0.032048	0.25	329002.0	0.640969	Y
3	IC 410-206078/5	0.1	0.065622	0.25	336136.0	0.656222	Y
4	ICIS 410-206078/2	0.5	0.356541	0.25	318012.0	0.713082	Y
5	IC 410-206078/4	1.0	0.639372	0.25	341379.0	0.639372	Y
6	IC 410-206078/3	2.5	1.524359	0.25	339193.0	0.609744	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

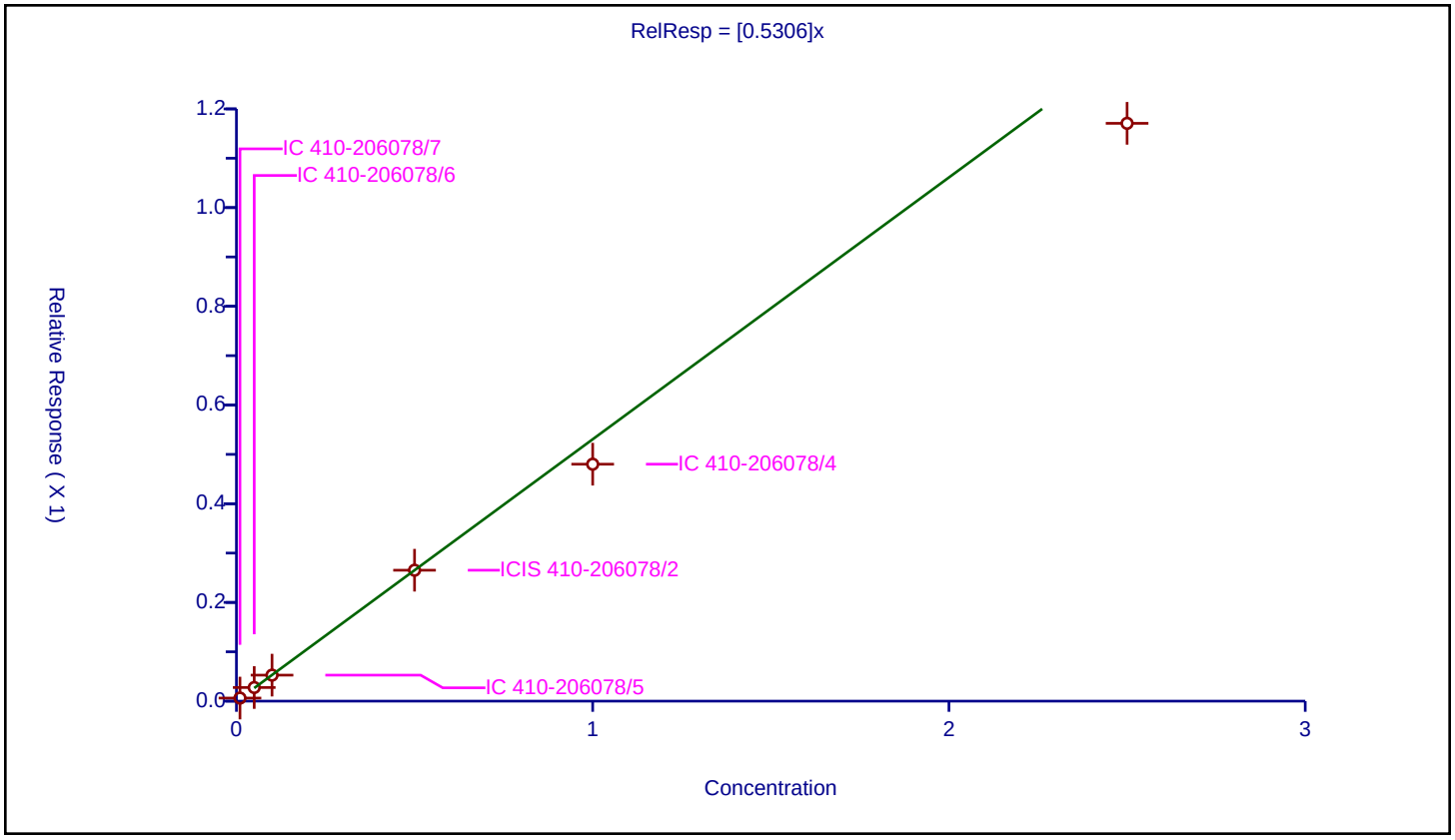
Curve Coefficients

Intercept:	0
Slope:	0.5306

Error Coefficients

Standard Error:	784000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.006257	0.25	297253.0	0.62573	Y
2	IC 410-206078/6	0.05	0.027599	0.25	329002.0	0.551972	Y
3	IC 410-206078/5	0.1	0.052674	0.25	336136.0	0.526736	Y
4	ICIS 410-206078/2	0.5	0.265242	0.25	318012.0	0.530483	Y
5	IC 410-206078/4	1.0	0.480093	0.25	341379.0	0.480093	Y
6	IC 410-206078/3	2.5	1.17076	0.25	339193.0	0.468304	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

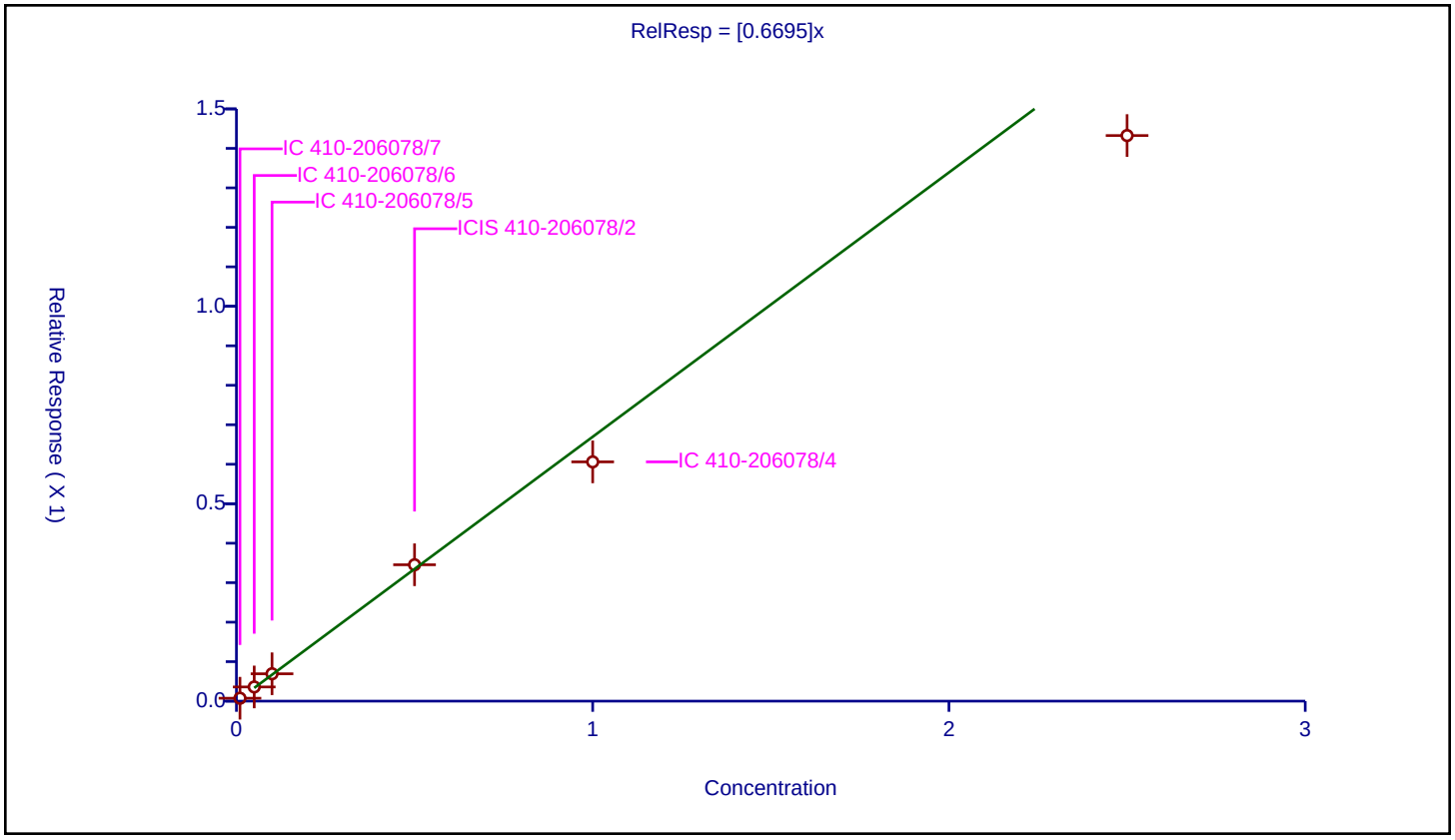
Curve Coefficients

Intercept:	0
Slope:	0.6695

Error Coefficients

Standard Error:	966000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.007358	0.25	297253.0	0.735821	Y
2	IC 410-206078/6	0.05	0.035912	0.25	329002.0	0.718233	Y
3	IC 410-206078/5	0.1	0.069313	0.25	336136.0	0.693127	Y
4	ICIS 410-206078/2	0.5	0.345412	0.25	318012.0	0.690825	Y
5	IC 410-206078/4	1.0	0.605993	0.25	341379.0	0.605993	Y
6	IC 410-206078/3	2.5	1.432505	0.25	339193.0	0.573002	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

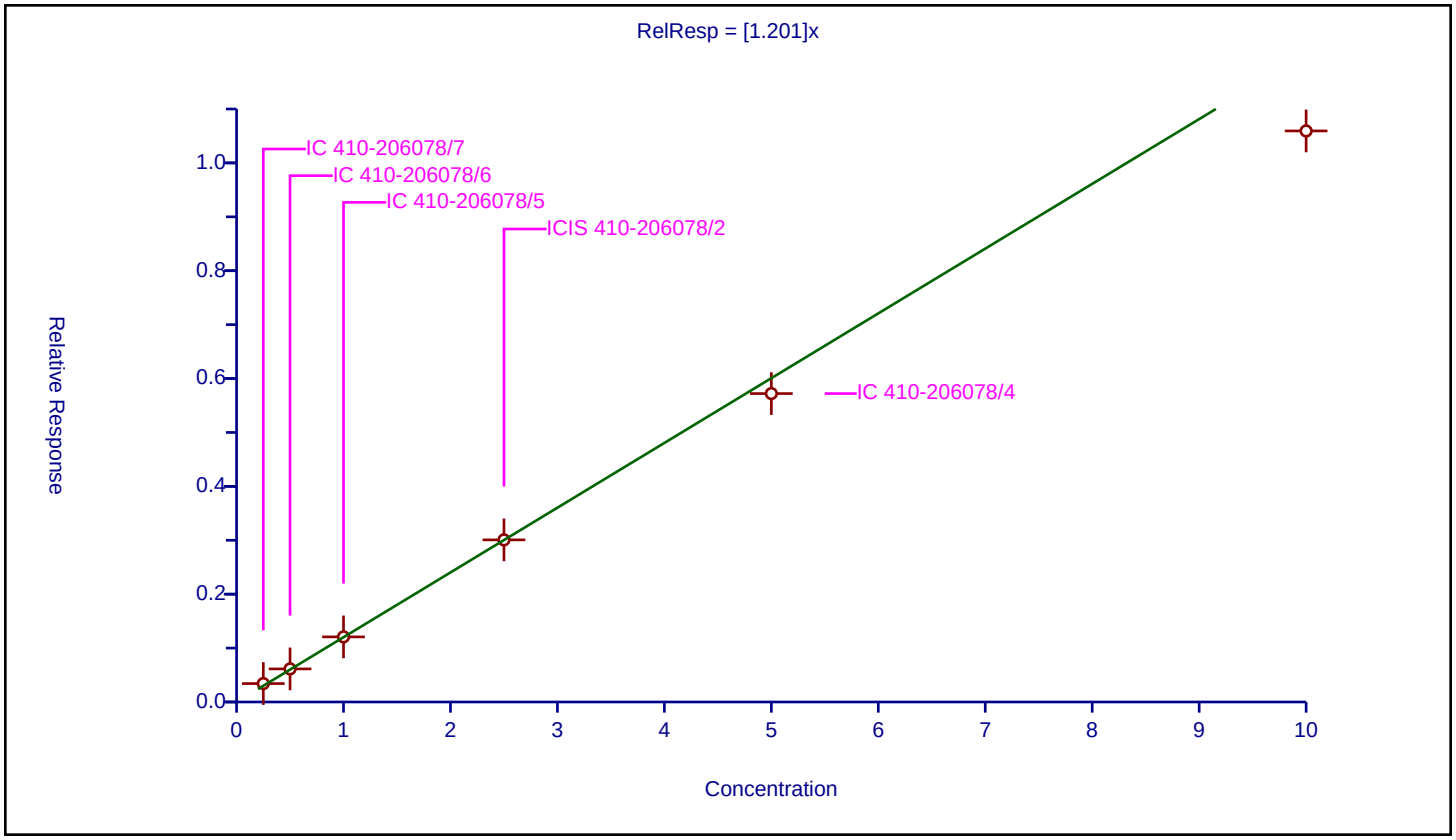
Curve Coefficients

Intercept:	0
Slope:	1.201

Error Coefficients

Standard Error:	4020000
Relative Standard Error:	8.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.25	0.341702	0.25	168944.0	1.366808	Y
2	IC 410-206078/6	0.5	0.613546	0.25	181541.0	1.227092	Y
3	IC 410-206078/5	1.0	1.207978	0.25	188697.0	1.207978	Y
4	ICIS 410-206078/2	2.5	3.007553	0.25	169229.0	1.203021	Y
5	IC 410-206078/4	5.0	5.721024	0.25	186527.0	1.144205	Y
6	IC 410-206078/3	10.0	10.593224	0.25	178836.0	1.059322	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

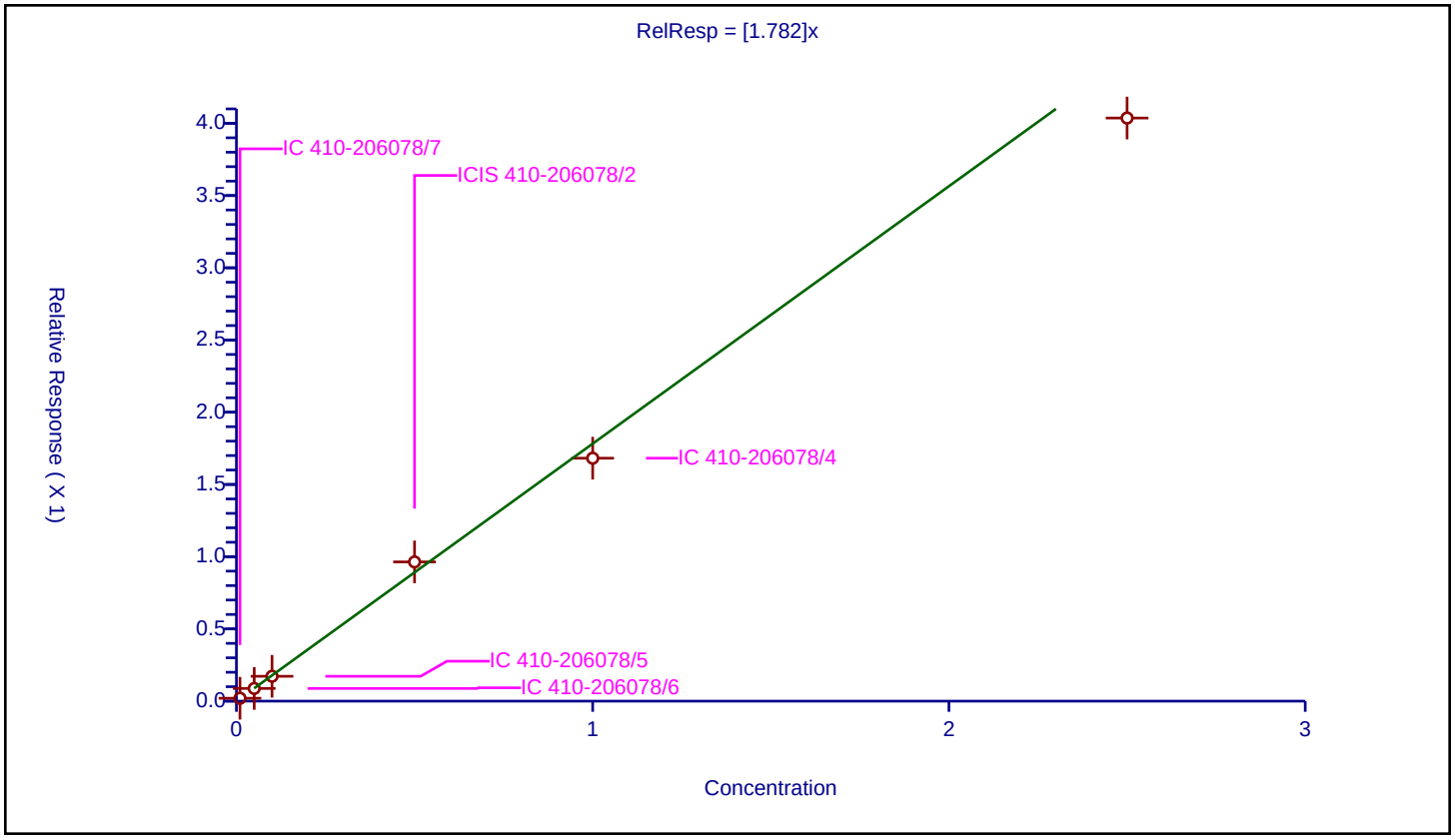
Curve Coefficients

Intercept:	0
Slope:	1.782

Error Coefficients

Standard Error:	1440000
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 410-206078/7	0.01	0.019927	0.25	168944.0	1.992672	Y
2	IC 410-206078/6	0.05	0.087805	0.25	181541.0	1.756105	Y
3	IC 410-206078/5	0.1	0.172116	0.25	188697.0	1.721159	Y
4	ICIS 410-206078/2	0.5	0.96382	0.25	169229.0	1.927639	Y
5	IC 410-206078/4	1.0	1.681753	0.25	186527.0	1.681753	Y
6	IC 410-206078/3	2.5	4.036697	0.25	178836.0	1.614679	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

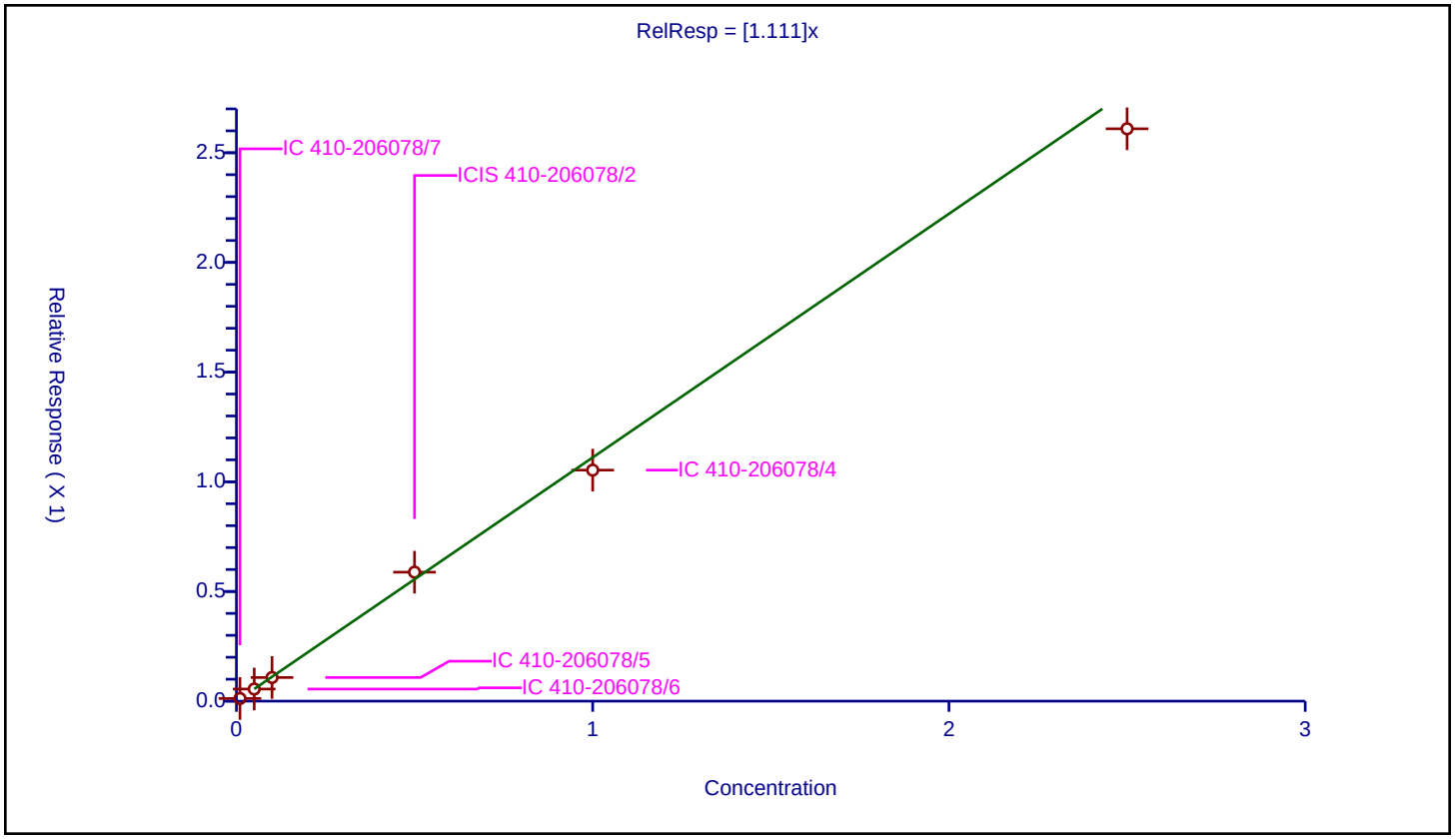
Curve Coefficients

Intercept:	0
Slope:	1.111

Error Coefficients

Standard Error:	924000
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 410-206078/7	0.01	0.012116	0.25	168944.0	1.211644	Y
2	IC 410-206078/6	0.05	0.055161	0.25	181541.0	1.103222	Y
3	IC 410-206078/5	0.1	0.107735	0.25	188697.0	1.077349	Y
4	ICIS 410-206078/2	0.5	0.587941	0.25	169229.0	1.175883	Y
5	IC 410-206078/4	1.0	1.053149	0.25	186527.0	1.053149	Y
6	IC 410-206078/3	2.5	2.609301	0.25	178836.0	1.043721	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

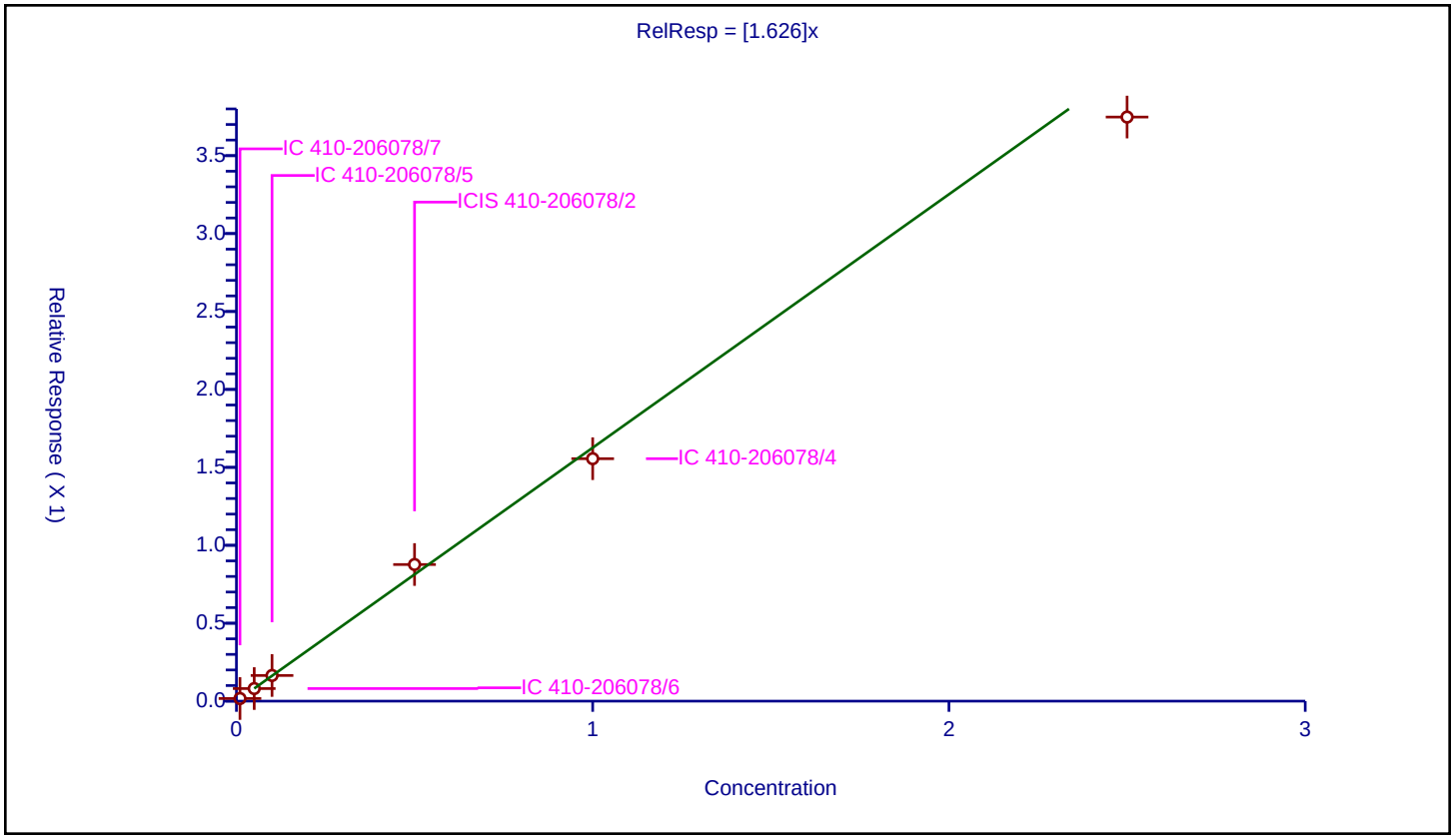
Curve Coefficients

Intercept:	0
Slope:	1.626

Error Coefficients

Standard Error:	1330000
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 410-206078/7	0.01	0.016868	0.25	168944.0	1.686802	Y
2	IC 410-206078/6	0.05	0.080695	0.25	181541.0	1.613905	Y
3	IC 410-206078/5	0.1	0.164735	0.25	188697.0	1.64735	Y
4	ICIS 410-206078/2	0.5	0.876584	0.25	169229.0	1.753169	Y
5	IC 410-206078/4	1.0	1.555716	0.25	186527.0	1.555716	Y
6	IC 410-206078/3	2.5	3.747675	0.25	178836.0	1.49907	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

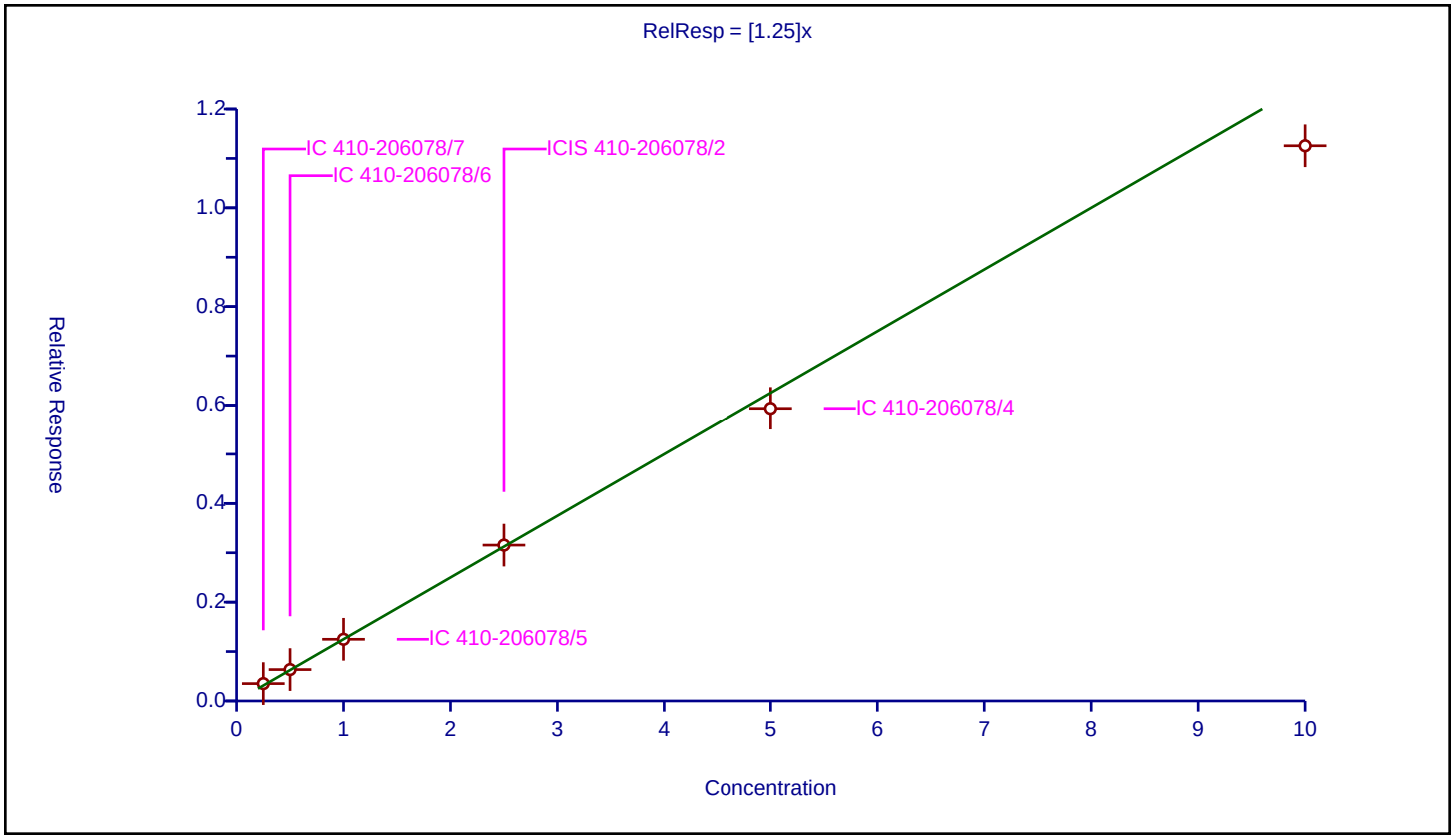
Curve Coefficients

Intercept:	0
Slope:	1.25

Error Coefficients

Standard Error:	4250000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.25	0.351565	0.25	168944.0	1.406259	Y
2	IC 410-206078/6	0.5	0.635275	0.25	181541.0	1.27055	Y
3	IC 410-206078/5	1.0	1.248317	0.25	188697.0	1.248317	Y
4	ICIS 410-206078/2	2.5	3.155604	0.25	169229.0	1.262242	Y
5	IC 410-206078/4	5.0	5.935098	0.25	186527.0	1.18702	Y
6	IC 410-206078/3	10.0	11.256152	0.25	178836.0	1.125615	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

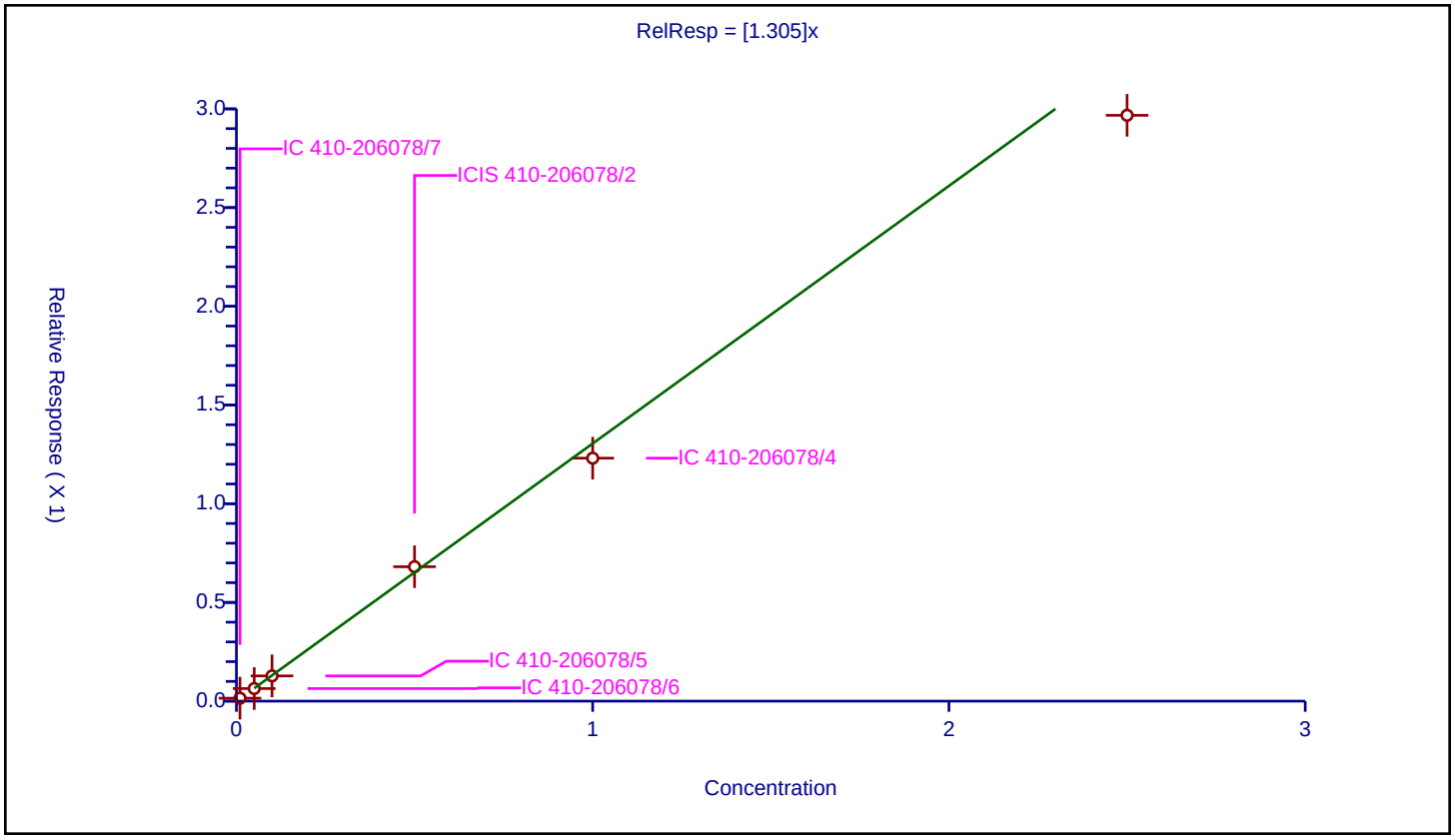
Curve Coefficients

Intercept:	0
Slope:	1.305

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	8.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.014961	0.25	168944.0	1.496058	Y
2	IC 410-206078/6	0.05	0.063775	0.25	181541.0	1.275497	Y
3	IC 410-206078/5	0.1	0.127844	0.25	188697.0	1.278438	Y
4	ICIS 410-206078/2	0.5	0.680869	0.25	169229.0	1.361738	Y
5	IC 410-206078/4	1.0	1.230694	0.25	186527.0	1.230694	Y
6	IC 410-206078/3	2.5	2.967493	0.25	178836.0	1.186997	Y



Calibration / N-Nitrosodiphenylamine

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

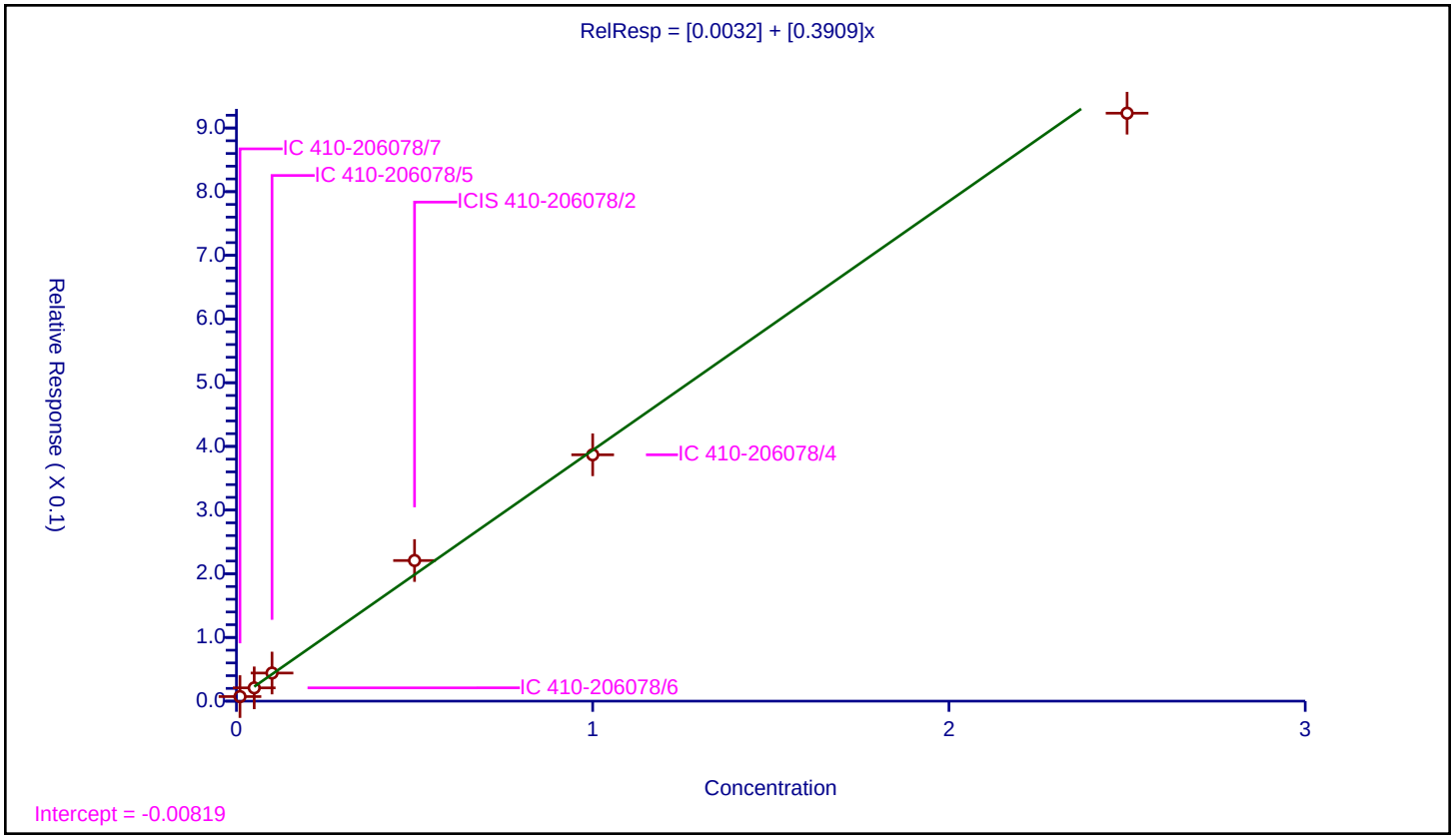
Curve Coefficients

Intercept:	0.0032
Slope:	0.3909

Error Coefficients

Standard Error:	643000
Relative Standard Error:	8.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.007158	0.25	290221.0	0.715834	Y
2	IC 410-206078/6	0.05	0.020848	0.25	320468.0	0.416968	Y
3	IC 410-206078/5	0.1	0.04415	0.25	339007.0	0.441495	Y
4	ICIS 410-206078/2	0.5	0.220784	0.25	312153.0	0.441569	Y
5	IC 410-206078/4	1.0	0.386844	0.25	326827.0	0.386844	Y
6	IC 410-206078/3	2.5	0.92328	0.25	310768.0	0.369312	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

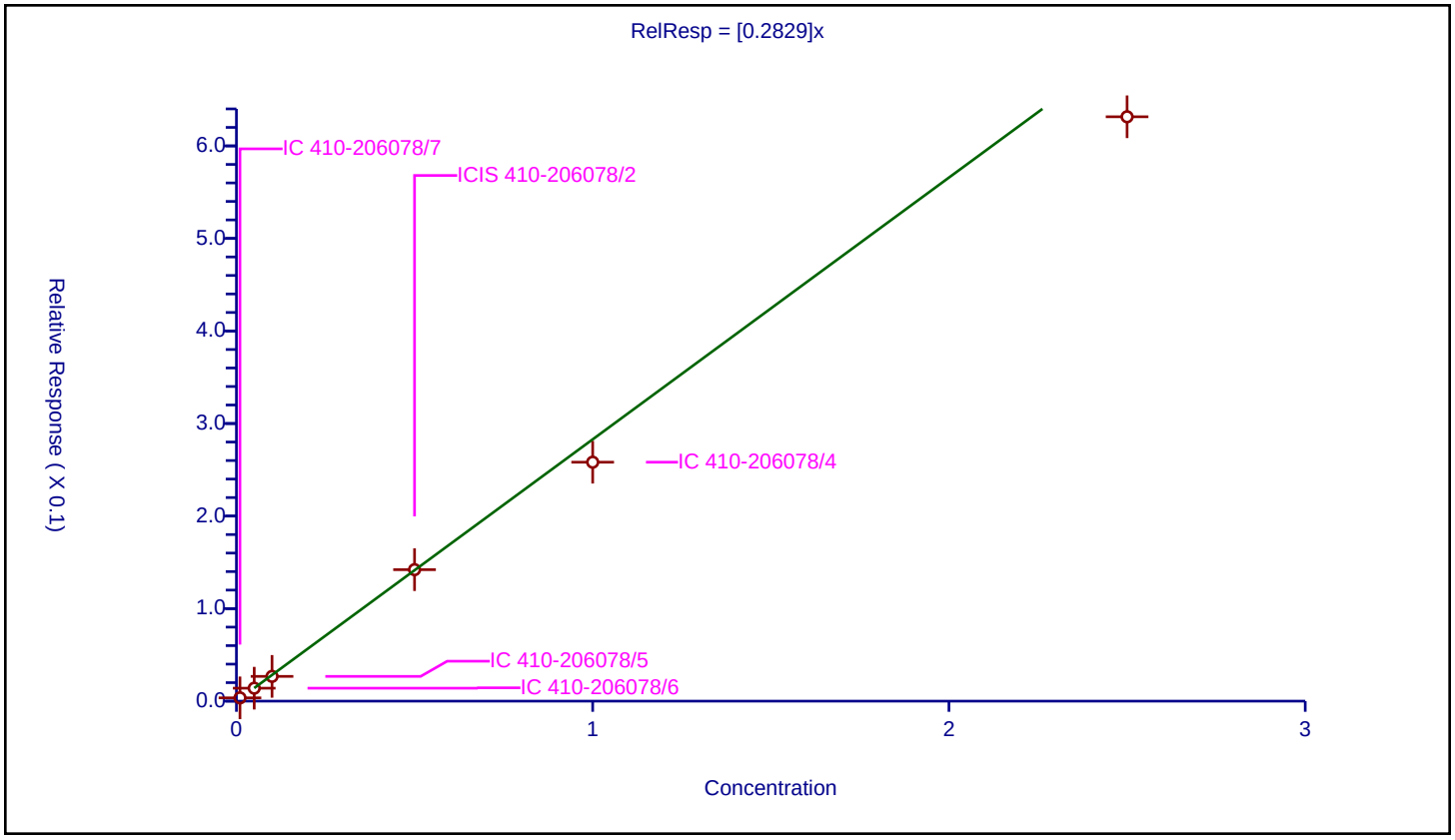
Curve Coefficients

Intercept:	0
Slope:	0.2829

Error Coefficients

Standard Error:	391000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.003549	0.25	290221.0	0.354902	Y
2	IC 410-206078/6	0.05	0.014	0.25	320468.0	0.279997	Y
3	IC 410-206078/5	0.1	0.02674	0.25	339007.0	0.267399	Y
4	ICIS 410-206078/2	0.5	0.142083	0.25	312153.0	0.284165	Y
5	IC 410-206078/4	1.0	0.258227	0.25	326827.0	0.258227	Y
6	IC 410-206078/3	2.5	0.631483	0.25	310768.0	0.252593	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

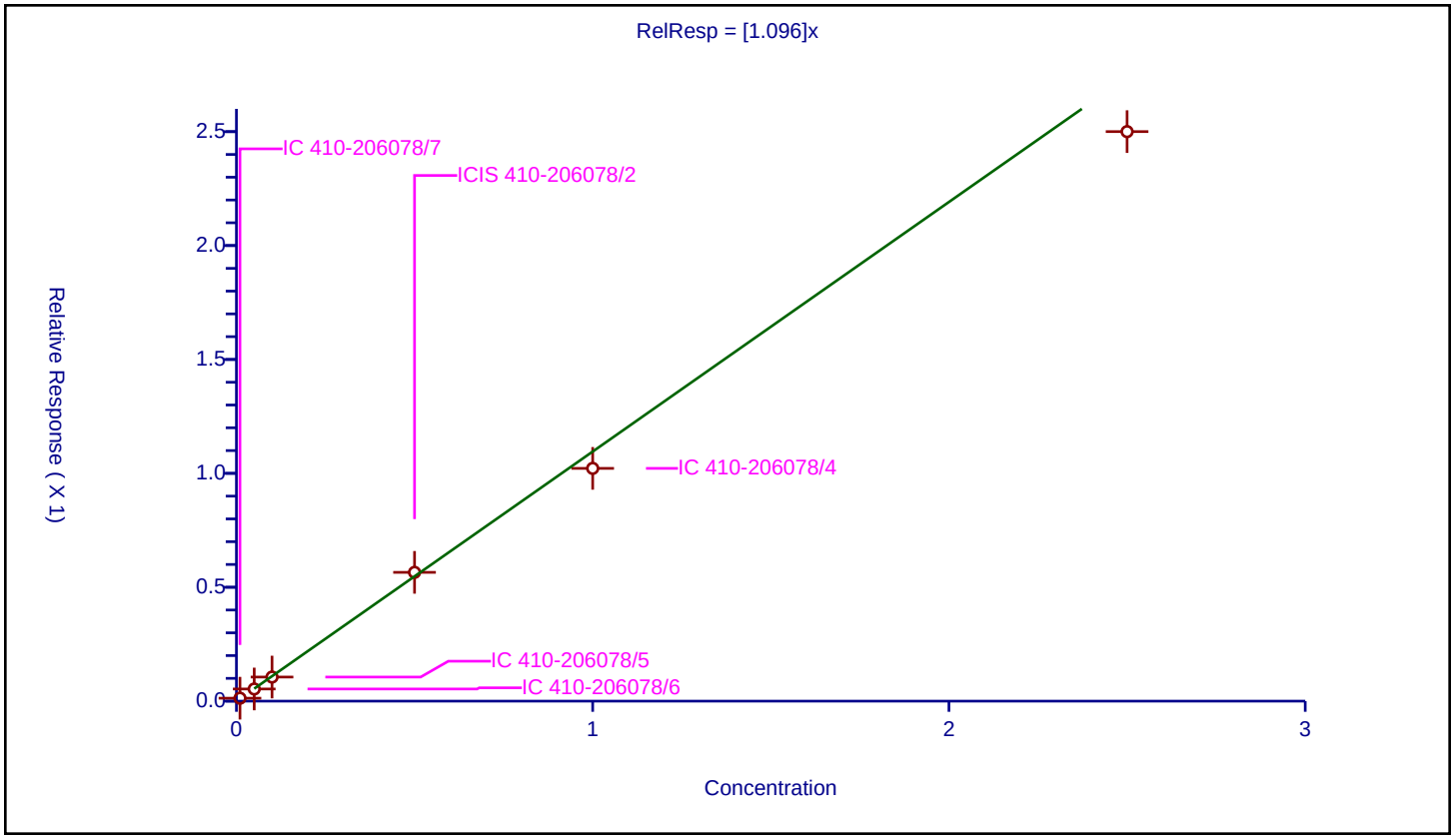
Curve Coefficients

Intercept:	0
Slope:	1.096

Error Coefficients

Standard Error:	1550000
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 410-206078/7	0.01	0.012967	0.25	290221.0	1.296684	Y
2	IC 410-206078/6	0.05	0.053329	0.25	320468.0	1.066581	Y
3	IC 410-206078/5	0.1	0.105784	0.25	339007.0	1.05784	Y
4	ICIS 410-206078/2	0.5	0.565381	0.25	312153.0	1.130763	Y
5	IC 410-206078/4	1.0	1.021863	0.25	326827.0	1.021863	Y
6	IC 410-206078/3	2.5	2.500228	0.25	310768.0	1.000091	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

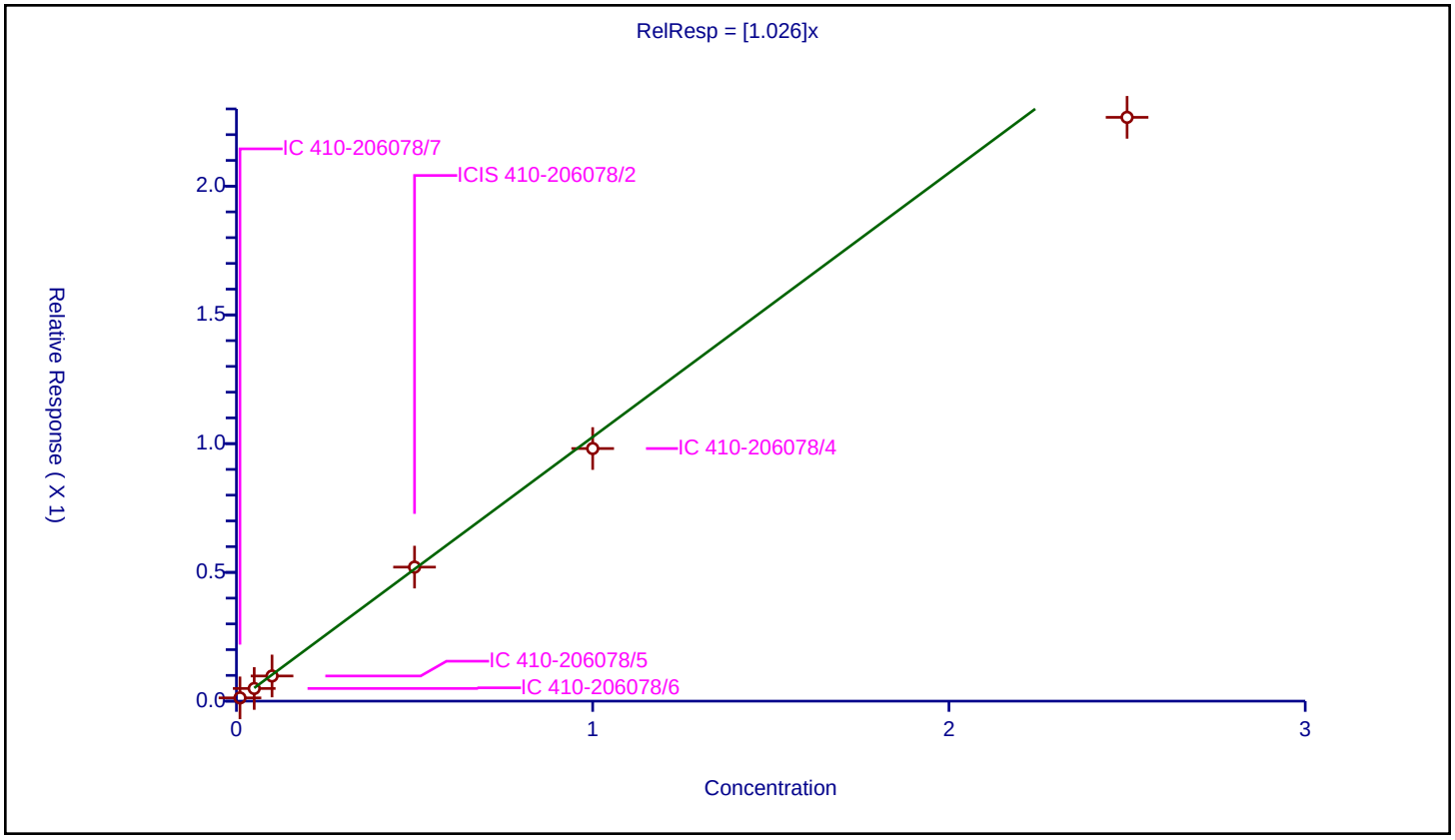
Curve Coefficients

Intercept:	0
Slope:	1.026

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	12.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.012659	0.25	290221.0	1.265932	Y
2	IC 410-206078/6	0.05	0.049146	0.25	320468.0	0.982922	Y
3	IC 410-206078/5	0.1	0.09765	0.25	339007.0	0.976499	Y
4	ICIS 410-206078/2	0.5	0.520572	0.25	312153.0	1.041143	Y
5	IC 410-206078/4	1.0	0.981029	0.25	326827.0	0.981029	Y
6	IC 410-206078/3	2.5	2.26724	0.25	310768.0	0.906896	Y



Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

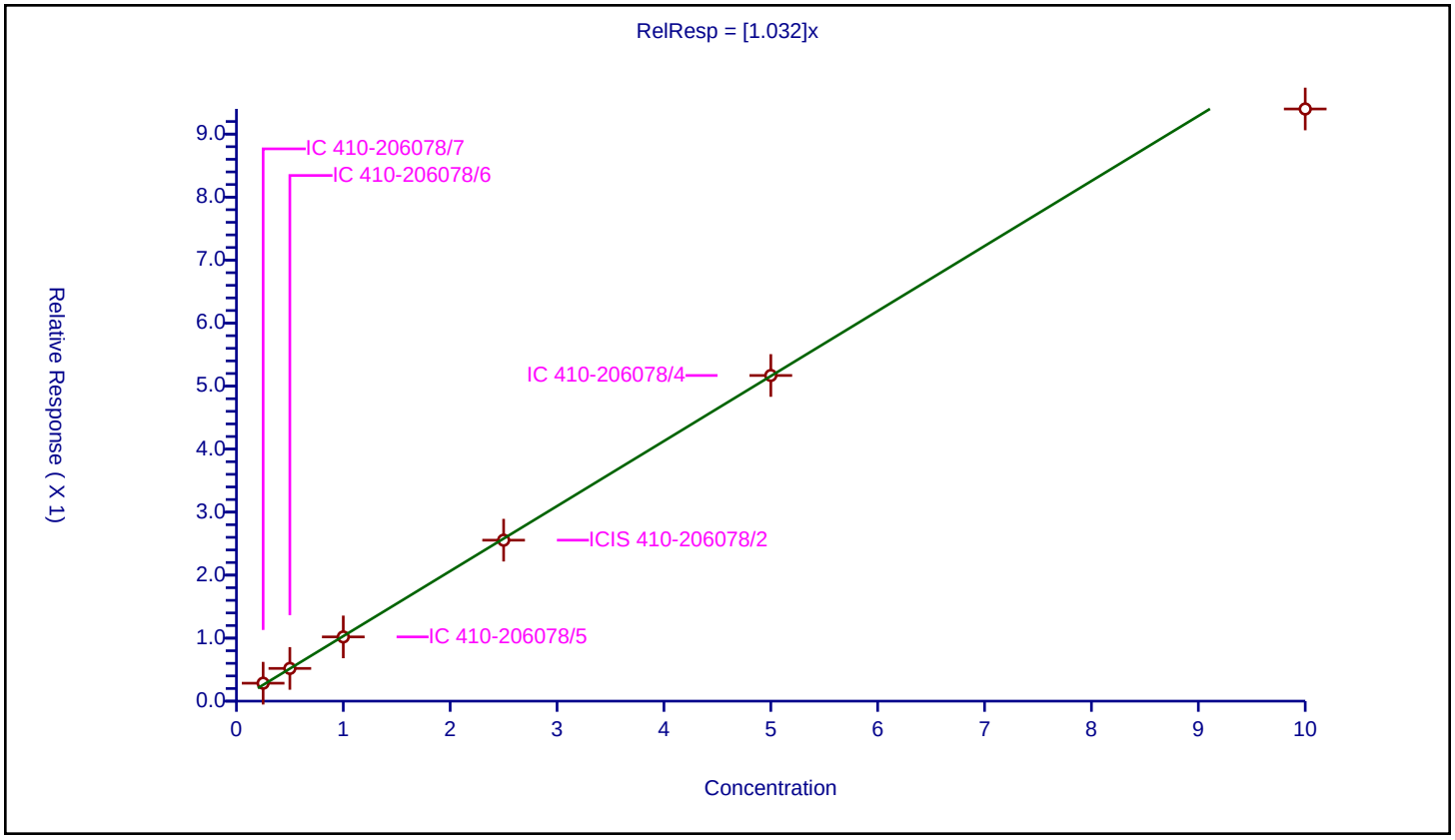
Curve Coefficients

Intercept:	0
Slope:	1.032

Error Coefficients

Standard Error:	6240000
Relative Standard Error:	6.1
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.25	0.284515	0.25	290221.0	1.13806	Y
2	IC 410-206078/6	0.5	0.519477	0.25	320468.0	1.038954	Y
3	IC 410-206078/5	1.0	1.019266	0.25	339007.0	1.019266	Y
4	ICIS 410-206078/2	2.5	2.554609	0.25	312153.0	1.021844	Y
5	IC 410-206078/4	5.0	5.168723	0.25	326827.0	1.033745	Y
6	IC 410-206078/3	10.0	9.39855	0.25	310768.0	0.939855	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

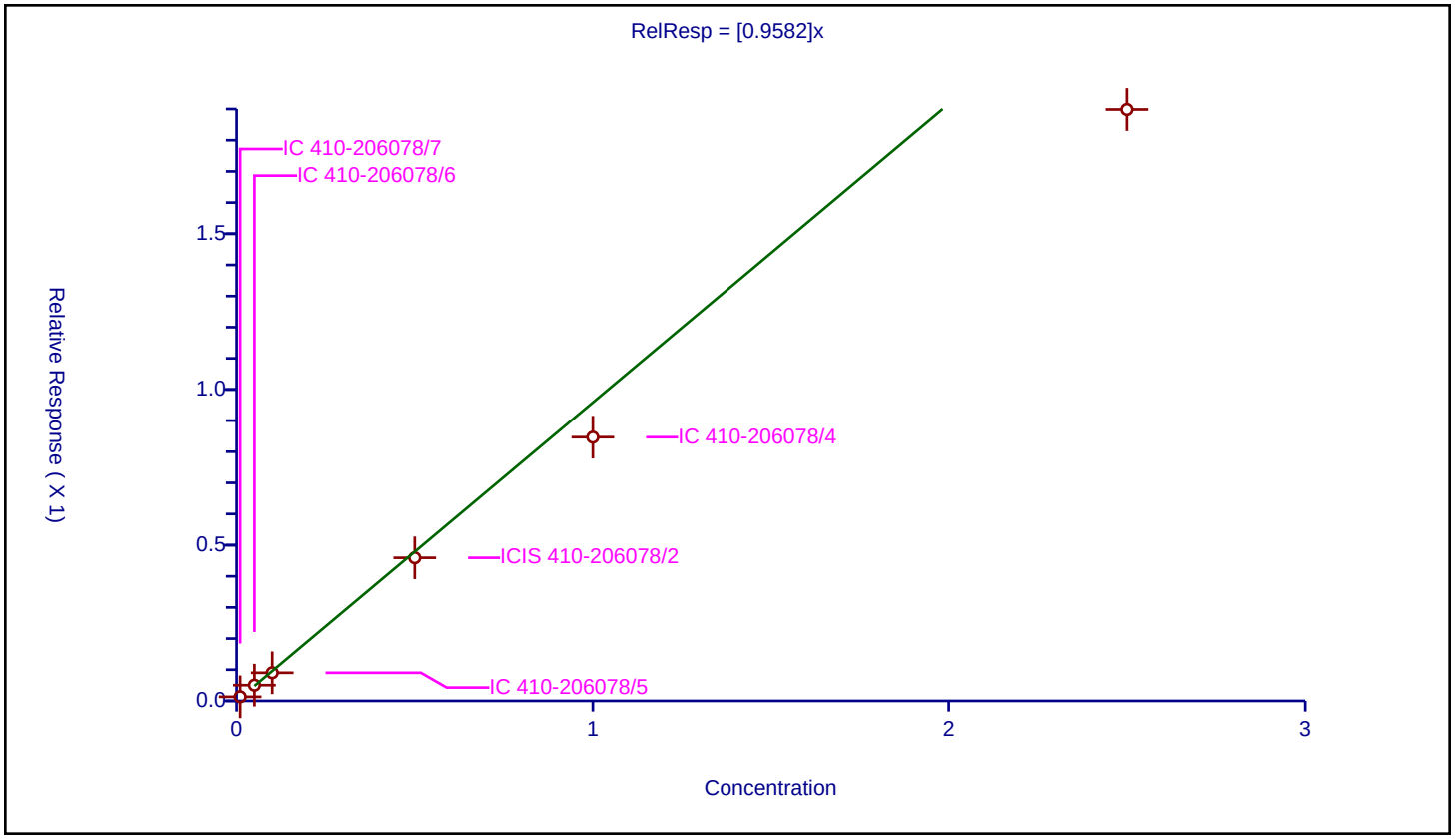
Curve Coefficients

Intercept:	0
Slope:	0.9582

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	20.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.941

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.013131	0.25	290221.0	1.313137	Y
2	IC 410-206078/6	0.05	0.05047	0.25	320468.0	1.009399	Y
3	IC 410-206078/5	0.1	0.090162	0.25	339007.0	0.901619	Y
4	ICIS 410-206078/2	0.5	0.459385	0.25	312153.0	0.918769	Y
5	IC 410-206078/4	1.0	0.846677	0.25	326827.0	0.846677	Y
6	IC 410-206078/3	2.5	1.898448	0.25	310768.0	0.759379	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

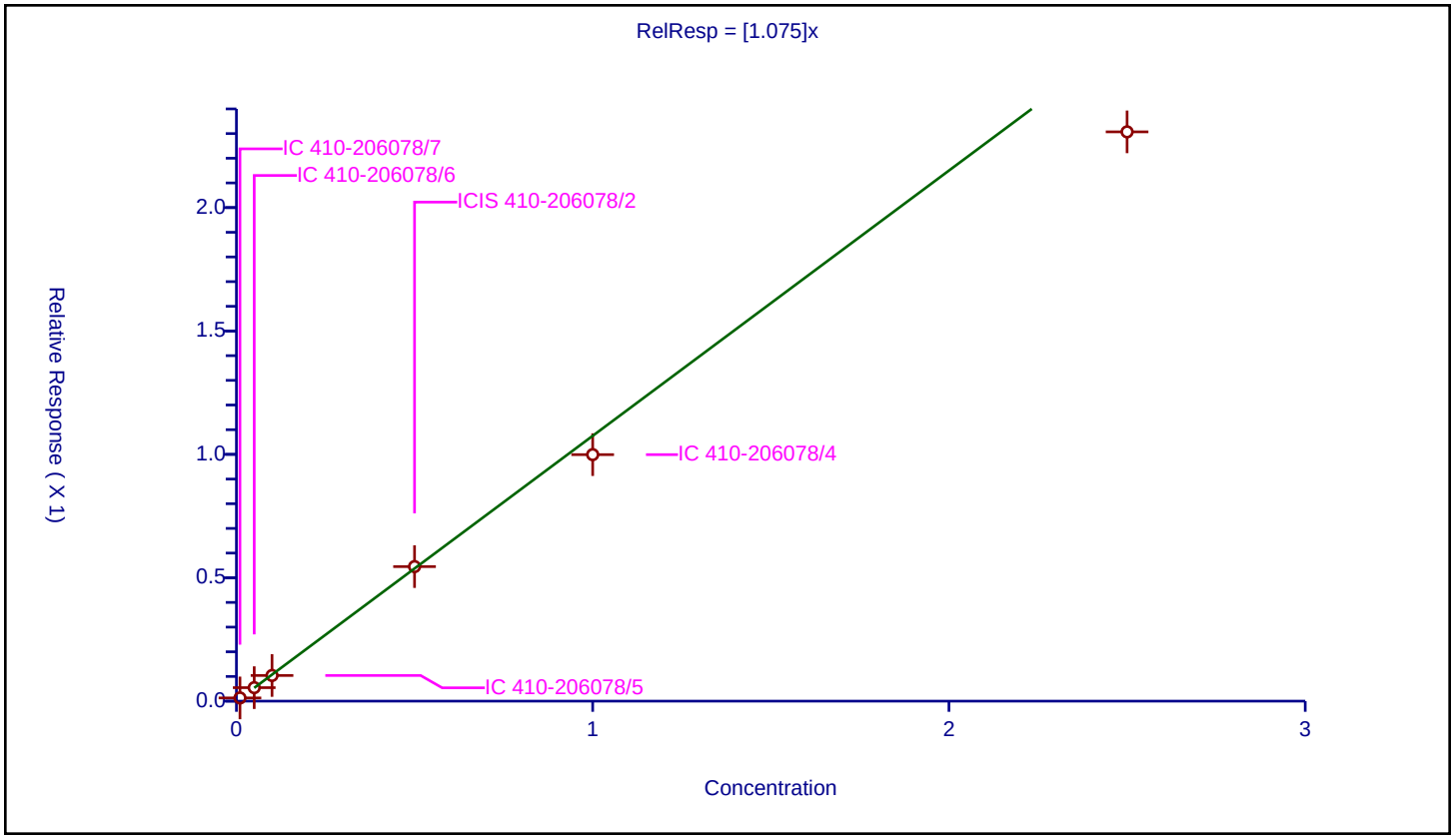
Curve Coefficients

Intercept:	0
Slope:	1.075

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	12.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.013053	0.25	290221.0	1.305298	Y
2	IC 410-206078/6	0.05	0.054626	0.25	320468.0	1.092527	Y
3	IC 410-206078/5	0.1	0.103993	0.25	339007.0	1.039927	Y
4	ICIS 410-206078/2	0.5	0.54526	0.25	312153.0	1.09052	Y
5	IC 410-206078/4	1.0	0.998939	0.25	326827.0	0.998939	Y
6	IC 410-206078/3	2.5	2.306977	0.25	310768.0	0.922791	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

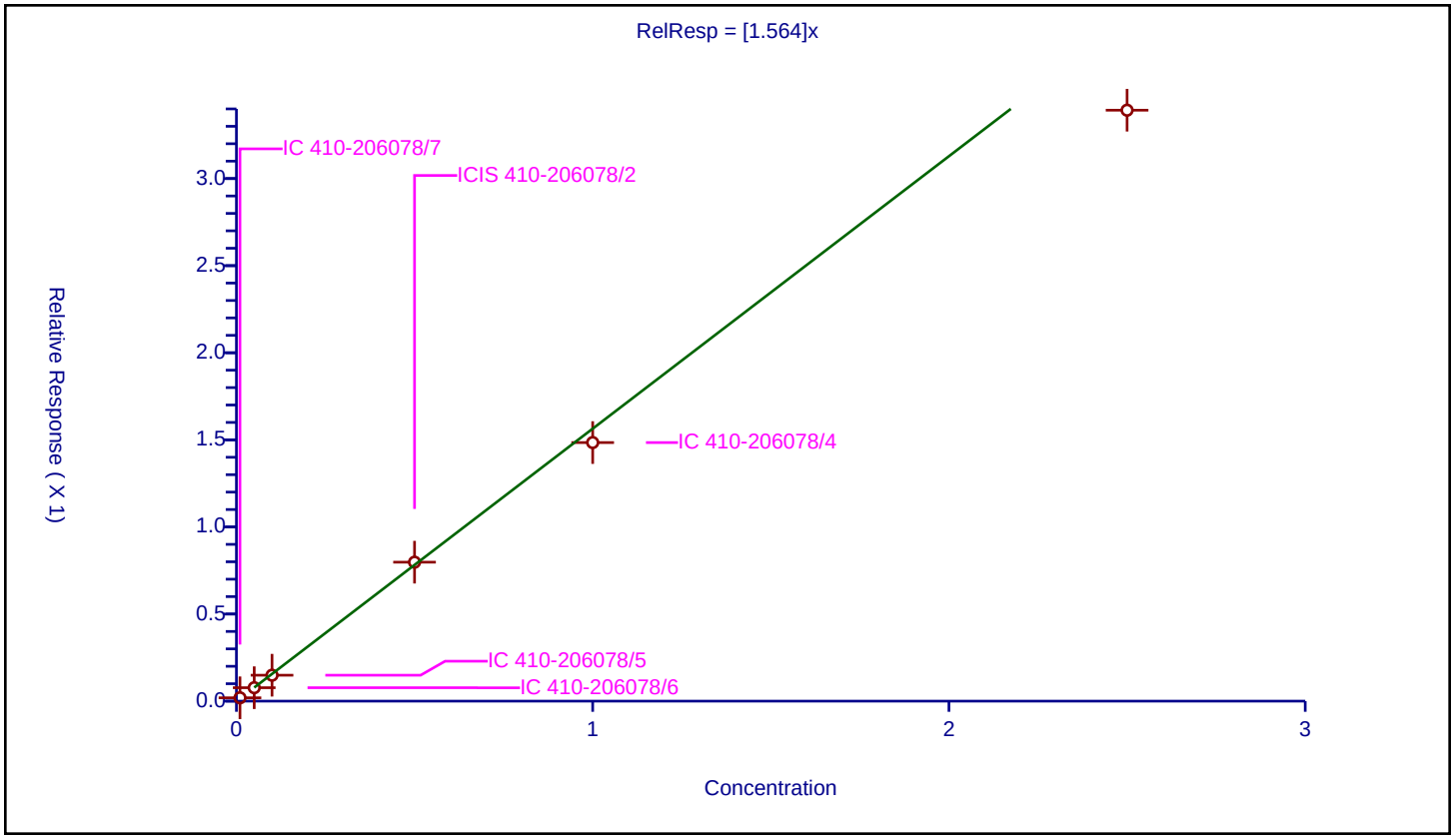
Curve Coefficients

Intercept:	0
Slope:	1.564

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	12.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.019156	0.25	216272.0	1.915643	Y
2	IC 410-206078/6	0.05	0.077168	0.25	238189.0	1.543354	Y
3	IC 410-206078/5	0.1	0.148906	0.25	253206.0	1.489064	Y
4	ICIS 410-206078/2	0.5	0.797782	0.25	229531.0	1.595564	Y
5	IC 410-206078/4	1.0	1.484378	0.25	234777.0	1.484378	Y
6	IC 410-206078/3	2.5	3.392508	0.25	223495.0	1.357003	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

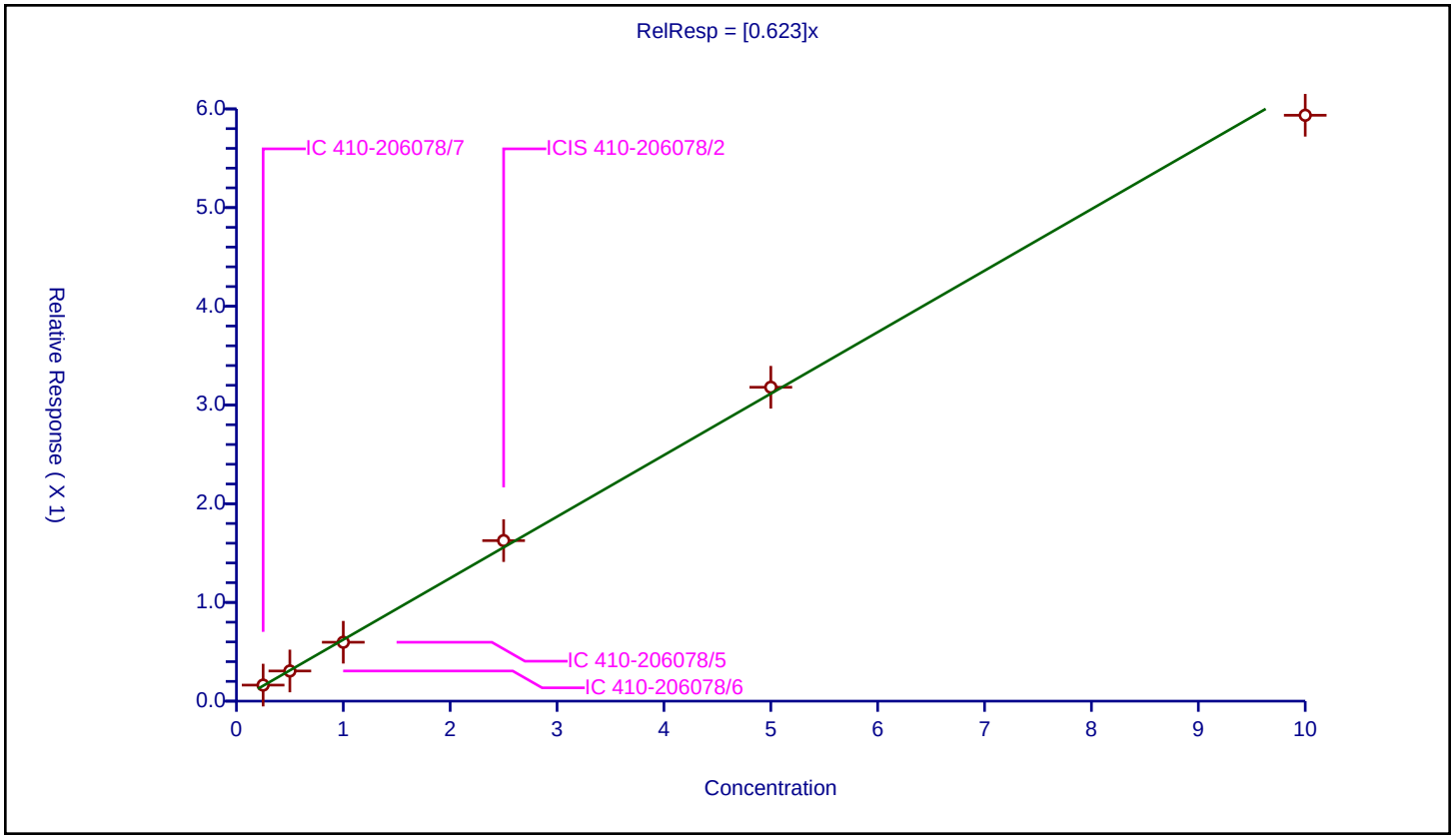
Curve Coefficients

Intercept:	0
Slope:	0.623

Error Coefficients

Standard Error:	2820000
Relative Standard Error:	4.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.25	0.162581	0.25	216272.0	0.650325	Y
2	IC 410-206078/6	0.5	0.305515	0.25	238189.0	0.611029	Y
3	IC 410-206078/5	1.0	0.596699	0.25	253206.0	0.596699	Y
4	ICIS 410-206078/2	2.5	1.626308	0.25	229531.0	0.650523	Y
5	IC 410-206078/4	5.0	3.180055	0.25	234777.0	0.636011	Y
6	IC 410-206078/3	10.0	5.935533	0.25	223495.0	0.593553	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

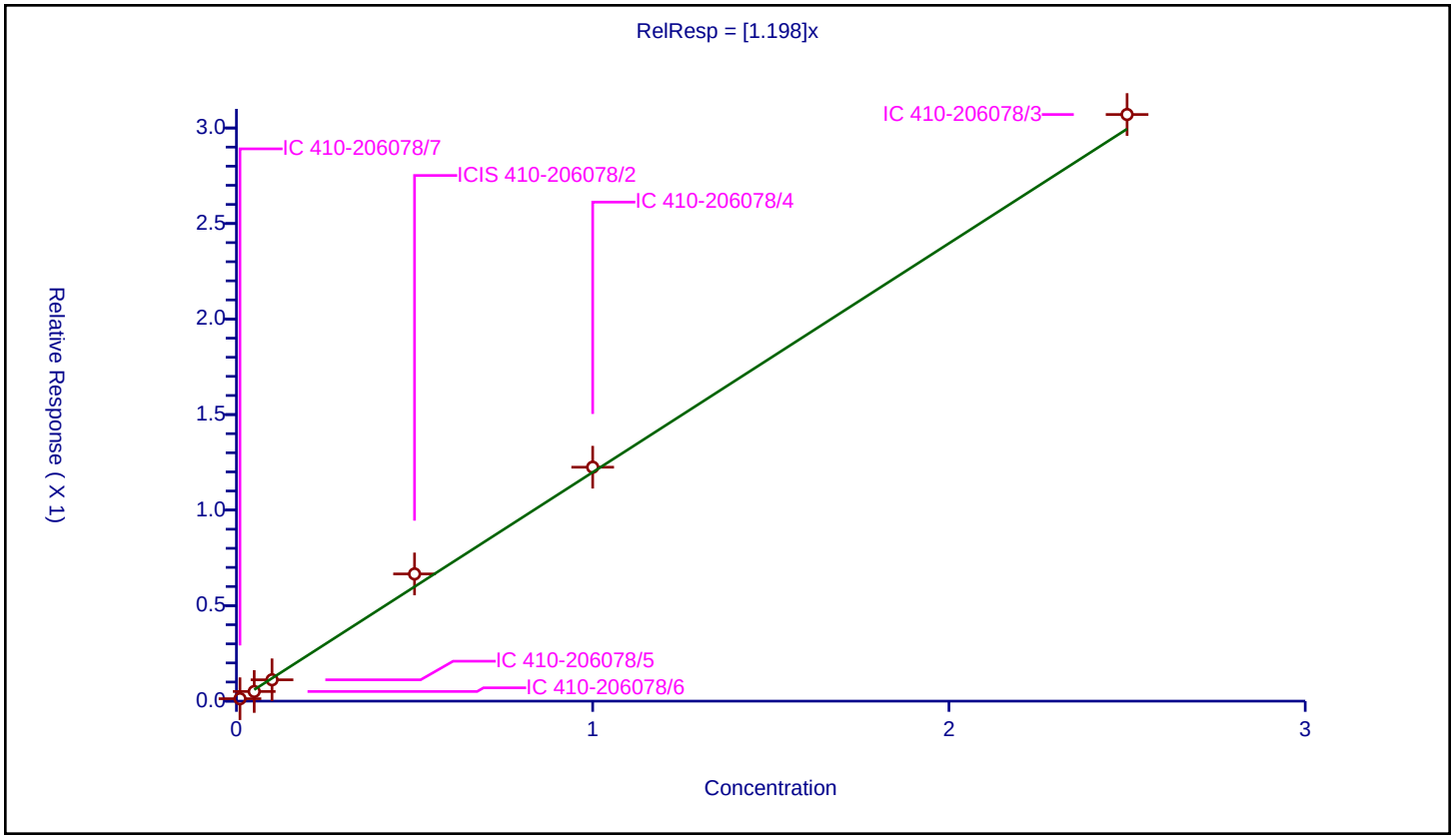
Curve Coefficients

Intercept:	0
Slope:	1.198

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.012739	0.25	216272.0	1.273859	Y
2	IC 410-206078/6	0.05	0.050603	0.25	238189.0	1.012053	Y
3	IC 410-206078/5	0.1	0.111785	0.25	253206.0	1.117855	Y
4	ICIS 410-206078/2	0.5	0.665829	0.25	229531.0	1.331659	Y
5	IC 410-206078/4	1.0	1.224543	0.25	234777.0	1.224543	Y
6	IC 410-206078/3	2.5	3.070606	0.25	223495.0	1.228242	Y



Calibration / Chrysene

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

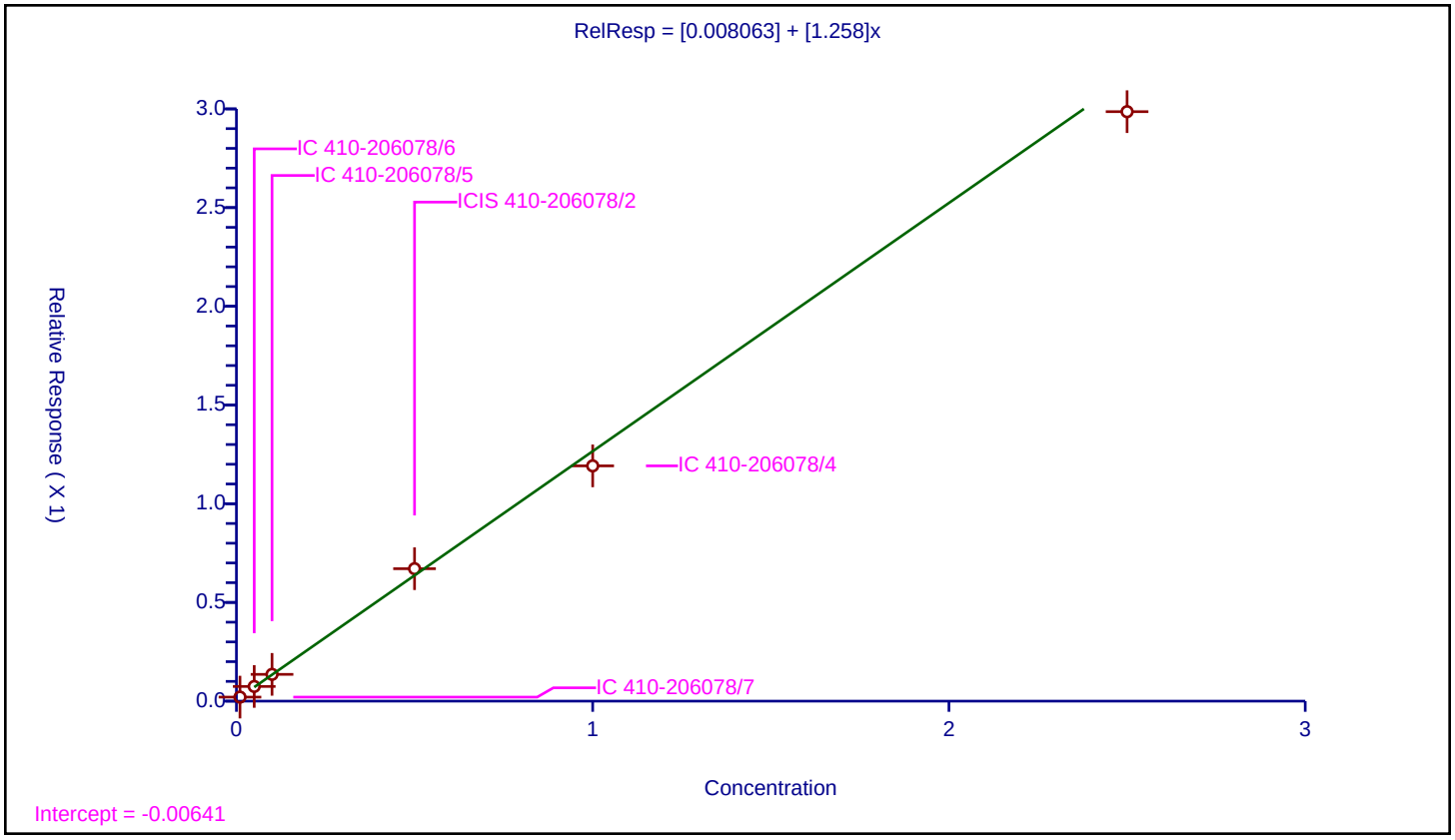
Curve Coefficients

Intercept:	0.008063
Slope:	1.258

Error Coefficients

Standard Error:	1480000
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 410-206078/7	0.01	0.020478	0.25	216272.0	2.047769	Y
2	IC 410-206078/6	0.05	0.074465	0.25	238189.0	1.489301	Y
3	IC 410-206078/5	0.1	0.135713	0.25	253206.0	1.357126	Y
4	ICIS 410-206078/2	0.5	0.670854	0.25	229531.0	1.341708	Y
5	IC 410-206078/4	1.0	1.191713	0.25	234777.0	1.191713	Y
6	IC 410-206078/3	2.5	2.985967	0.25	223495.0	1.194387	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

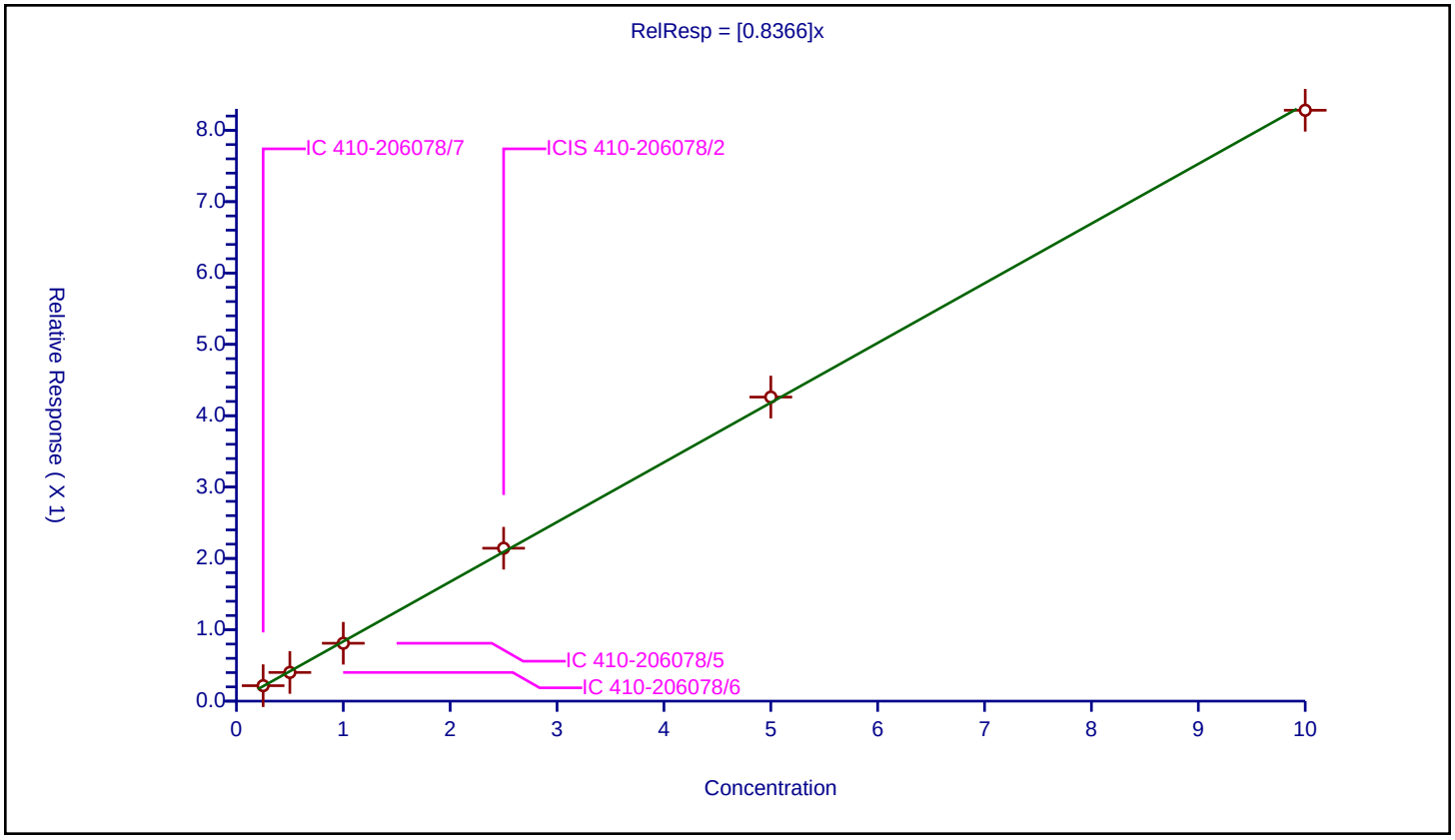
Curve Coefficients

Intercept:	0
Slope:	0.8366

Error Coefficients

Standard Error:	3890000
Relative Standard Error:	3.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.25	0.216548	0.25	216272.0	0.866192	Y
2	IC 410-206078/6	0.5	0.402158	0.25	238189.0	0.804315	Y
3	IC 410-206078/5	1.0	0.811117	0.25	253206.0	0.811117	Y
4	ICIS 410-206078/2	2.5	2.143253	0.25	229531.0	0.857301	Y
5	IC 410-206078/4	5.0	4.261506	0.25	234777.0	0.852301	Y
6	IC 410-206078/3	10.0	8.281094	0.25	223495.0	0.828109	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

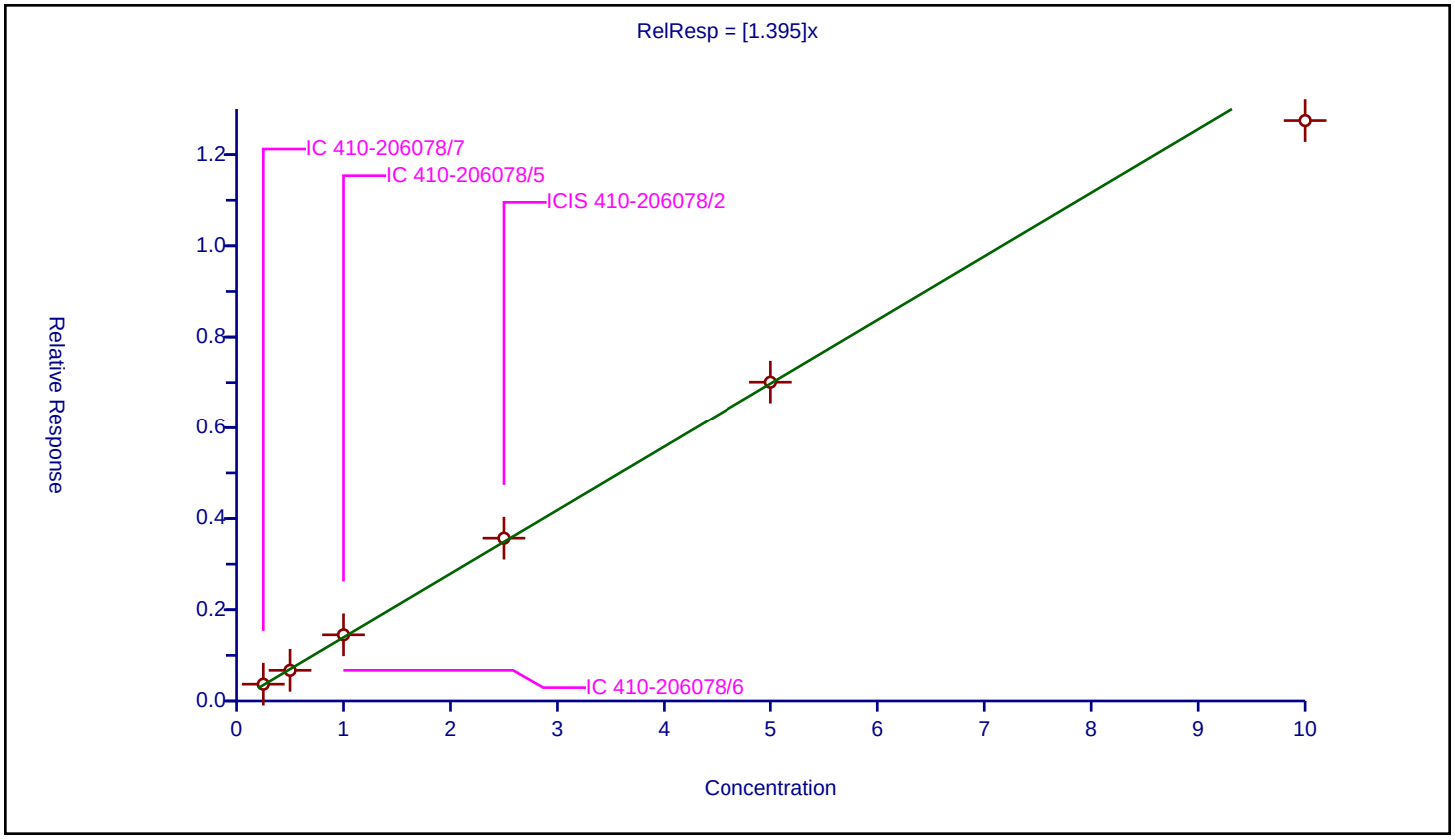
Curve Coefficients

Intercept:	0
Slope:	1.395

Error Coefficients

Standard Error:	6600000
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.25	0.368556	0.25	207739.0	1.474225	Y
2	IC 410-206078/6	0.5	0.671924	0.25	235074.0	1.343847	Y
3	IC 410-206078/5	1.0	1.450488	0.25	233375.0	1.450488	Y
4	ICIS 410-206078/2	2.5	3.569175	0.25	228872.0	1.42767	Y
5	IC 410-206078/4	5.0	7.01033	0.25	233298.0	1.402066	Y
6	IC 410-206078/3	10.0	12.746609	0.25	249521.0	1.274661	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

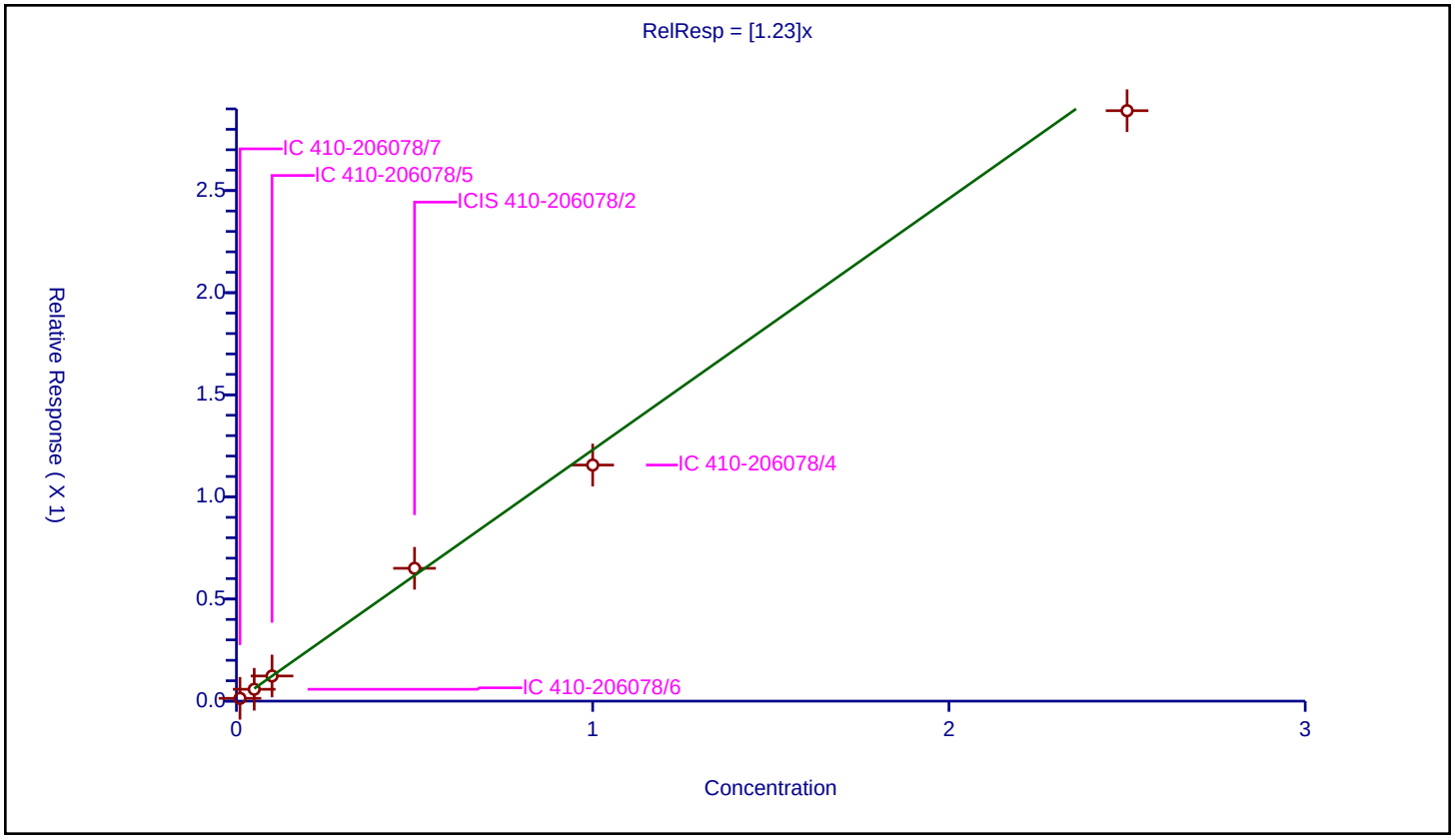
Curve Coefficients

Intercept:	0
Slope:	1.23

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.01375	0.25	207739.0	1.375043	Y
2	IC 410-206078/6	0.05	0.058094	0.25	235074.0	1.161889	Y
3	IC 410-206078/5	0.1	0.123233	0.25	233375.0	1.23233	Y
4	ICIS 410-206078/2	0.5	0.650386	0.25	228872.0	1.300773	Y
5	IC 410-206078/4	1.0	1.156031	0.25	233298.0	1.156031	Y
6	IC 410-206078/3	2.5	2.891293	0.25	249521.0	1.156517	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

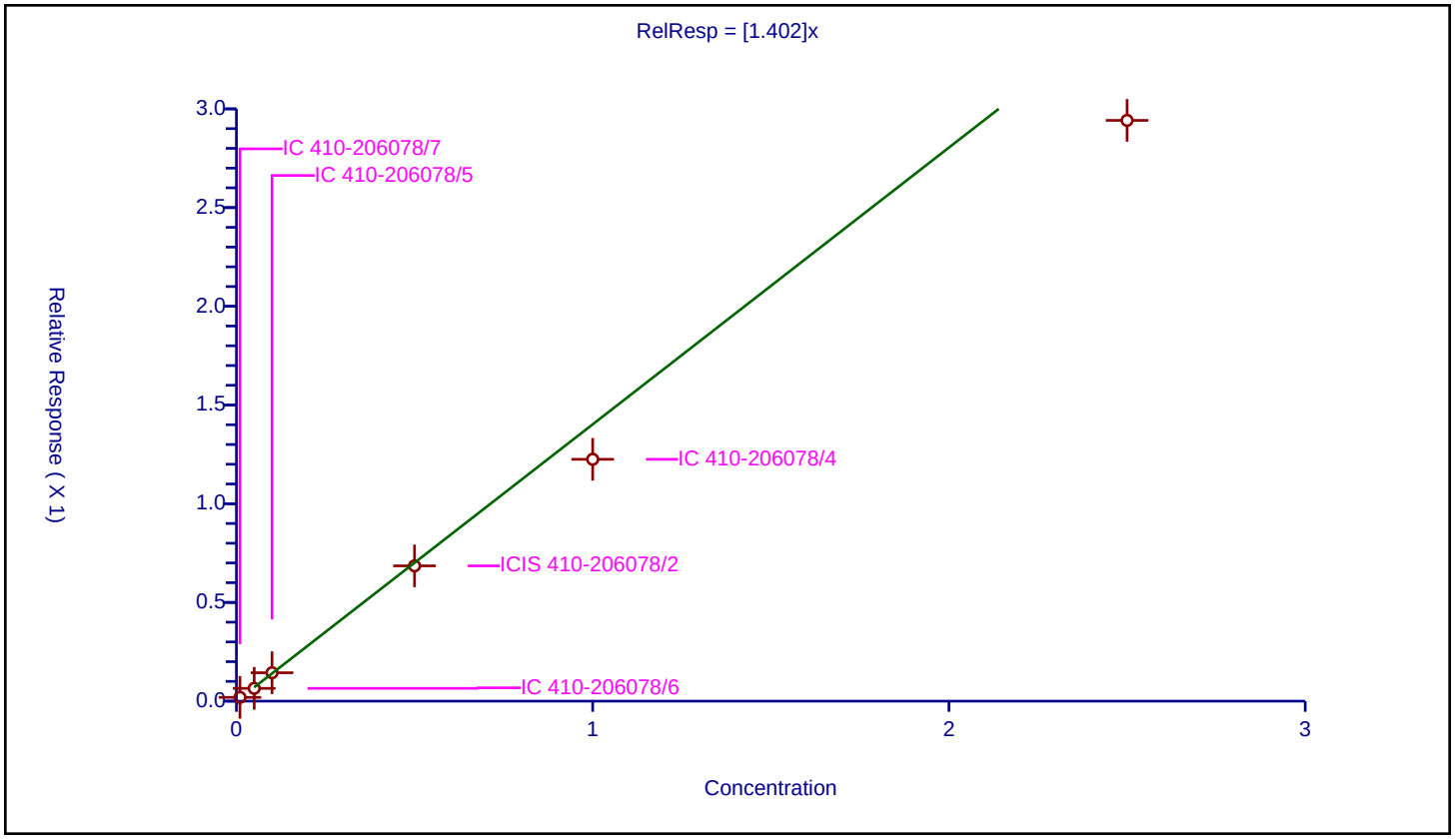
Curve Coefficients

Intercept:	0
Slope:	1.402

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	18.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.949

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.019053	0.25	207739.0	1.905275	Y
2	IC 410-206078/6	0.05	0.064831	0.25	235074.0	1.296613	Y
3	IC 410-206078/5	0.1	0.143831	0.25	233375.0	1.438307	Y
4	ICIS 410-206078/2	0.5	0.685226	0.25	228872.0	1.370452	Y
5	IC 410-206078/4	1.0	1.225078	0.25	233298.0	1.225078	Y
6	IC 410-206078/3	2.5	2.941661	0.25	249521.0	1.176664	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

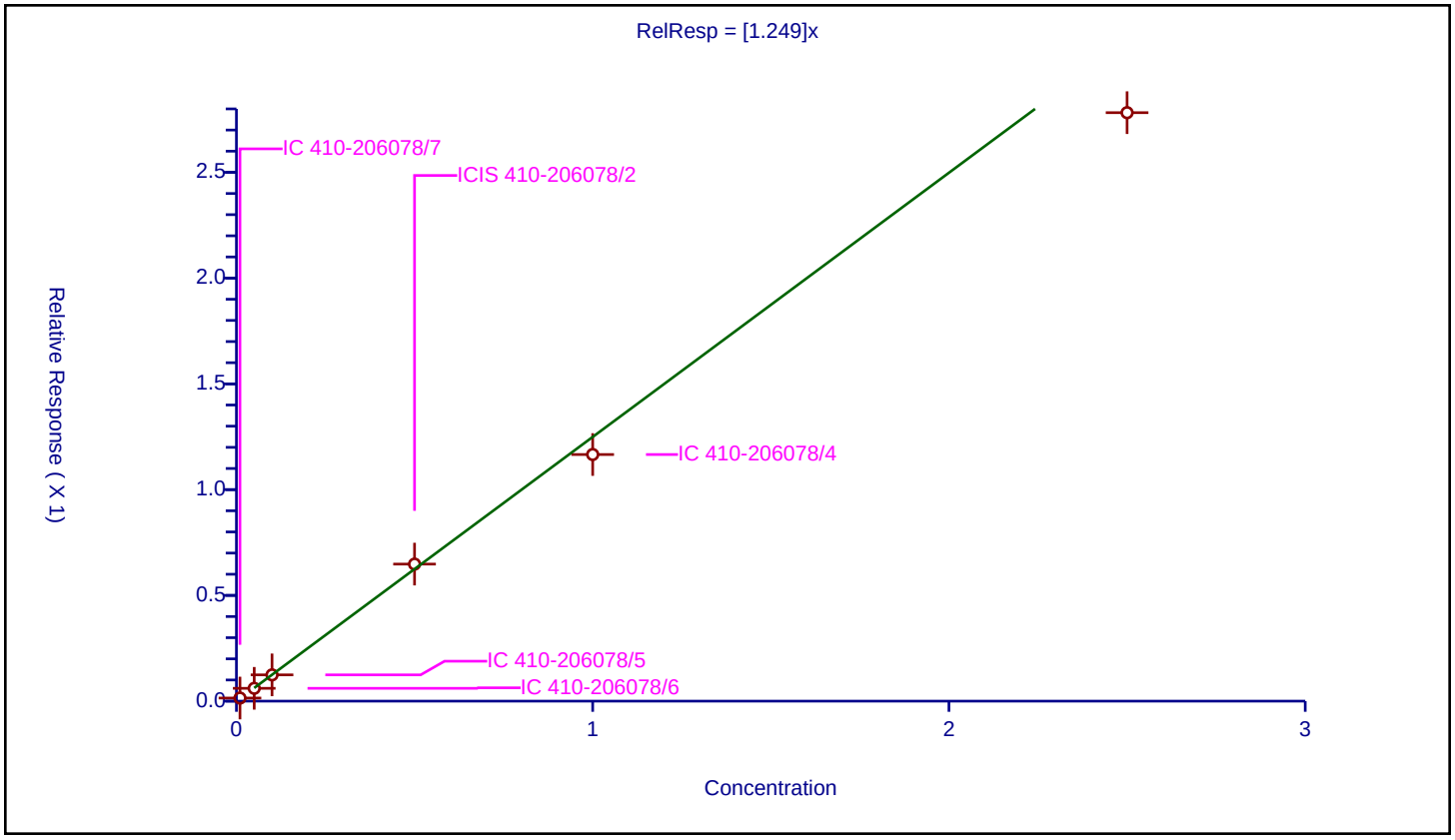
Curve Coefficients

Intercept:	0
Slope:	1.249

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.01464	0.25	207739.0	1.463976	Y
2	IC 410-206078/6	0.05	0.06069	0.25	235074.0	1.213809	Y
3	IC 410-206078/5	0.1	0.124167	0.25	233375.0	1.241671	Y
4	ICIS 410-206078/2	0.5	0.647865	0.25	228872.0	1.295731	Y
5	IC 410-206078/4	1.0	1.165958	0.25	233298.0	1.165958	Y
6	IC 410-206078/3	2.5	2.782153	0.25	249521.0	1.112861	Y



Calibration / Benzo(a)pyrene-d12 (Surr)

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

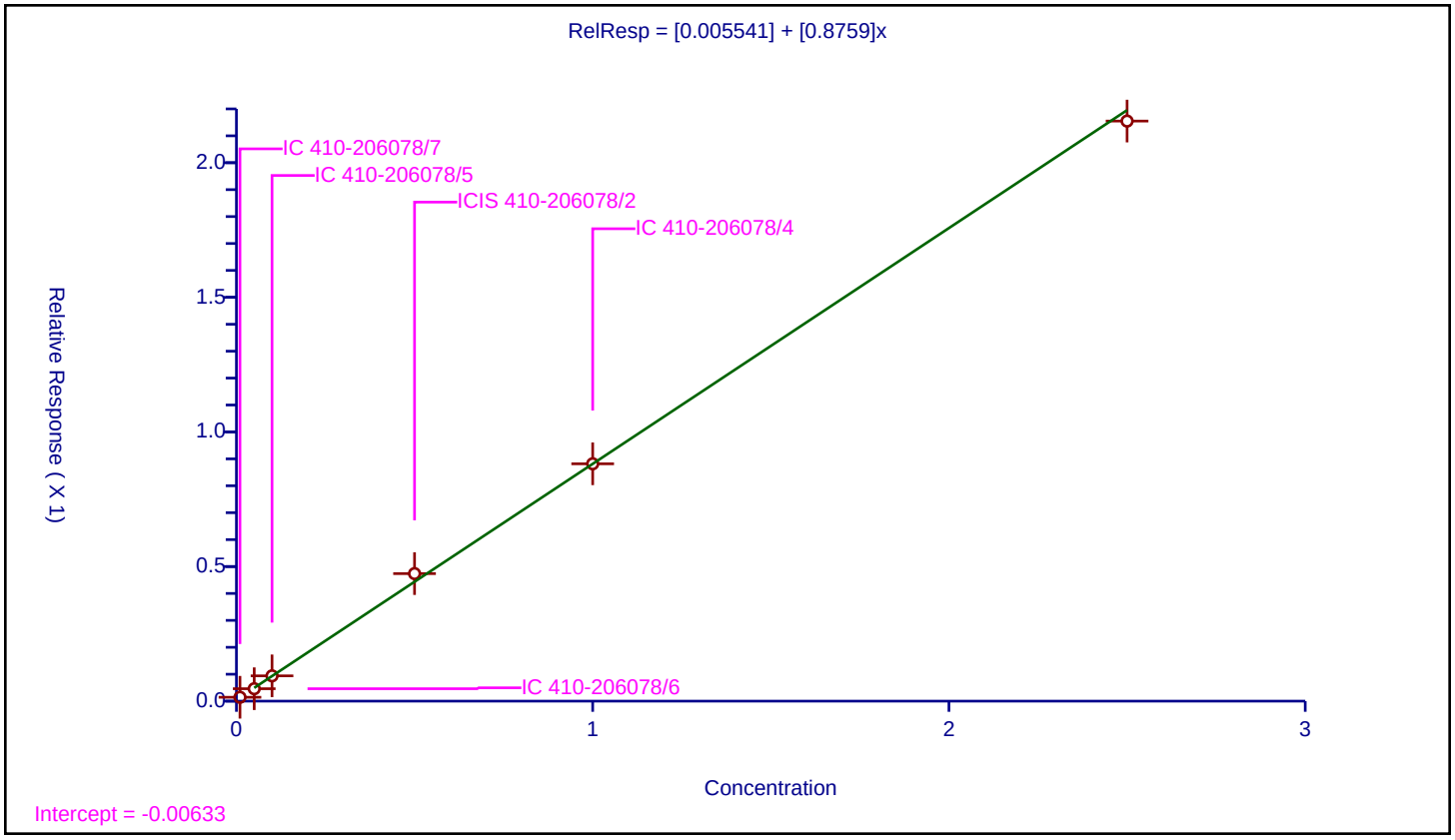
Curve Coefficients

Intercept:	0.005541
Slope:	0.8759

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.014408	0.25	207739.0	1.44075	Y
2	IC 410-206078/6	0.05	0.046133	0.25	235074.0	0.922667	Y
3	IC 410-206078/5	0.1	0.093989	0.25	233375.0	0.939893	Y
4	ICIS 410-206078/2	0.5	0.473728	0.25	228872.0	0.947455	Y
5	IC 410-206078/4	1.0	0.881707	0.25	233298.0	0.881707	Y
6	IC 410-206078/3	2.5	2.154757	0.25	249521.0	0.861903	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

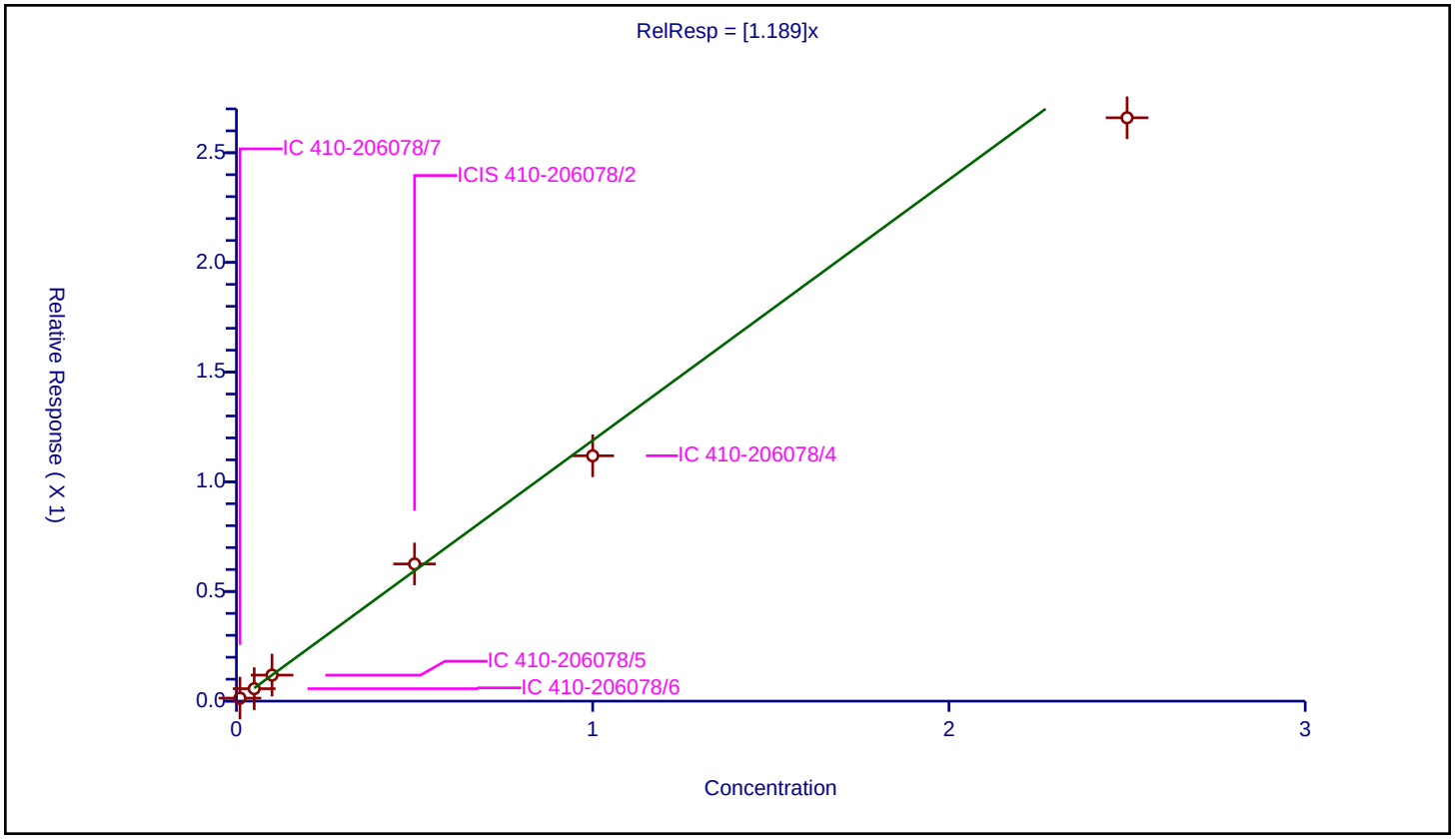
Curve Coefficients

Intercept:	0
Slope:	1.189

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.013771	0.25	207739.0	1.377089	Y
2	IC 410-206078/6	0.05	0.056761	0.25	235074.0	1.135217	Y
3	IC 410-206078/5	0.1	0.1187	0.25	233375.0	1.186995	Y
4	ICIS 410-206078/2	0.5	0.625367	0.25	228872.0	1.250734	Y
5	IC 410-206078/4	1.0	1.118533	0.25	233298.0	1.118533	Y
6	IC 410-206078/3	2.5	2.659529	0.25	249521.0	1.063811	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

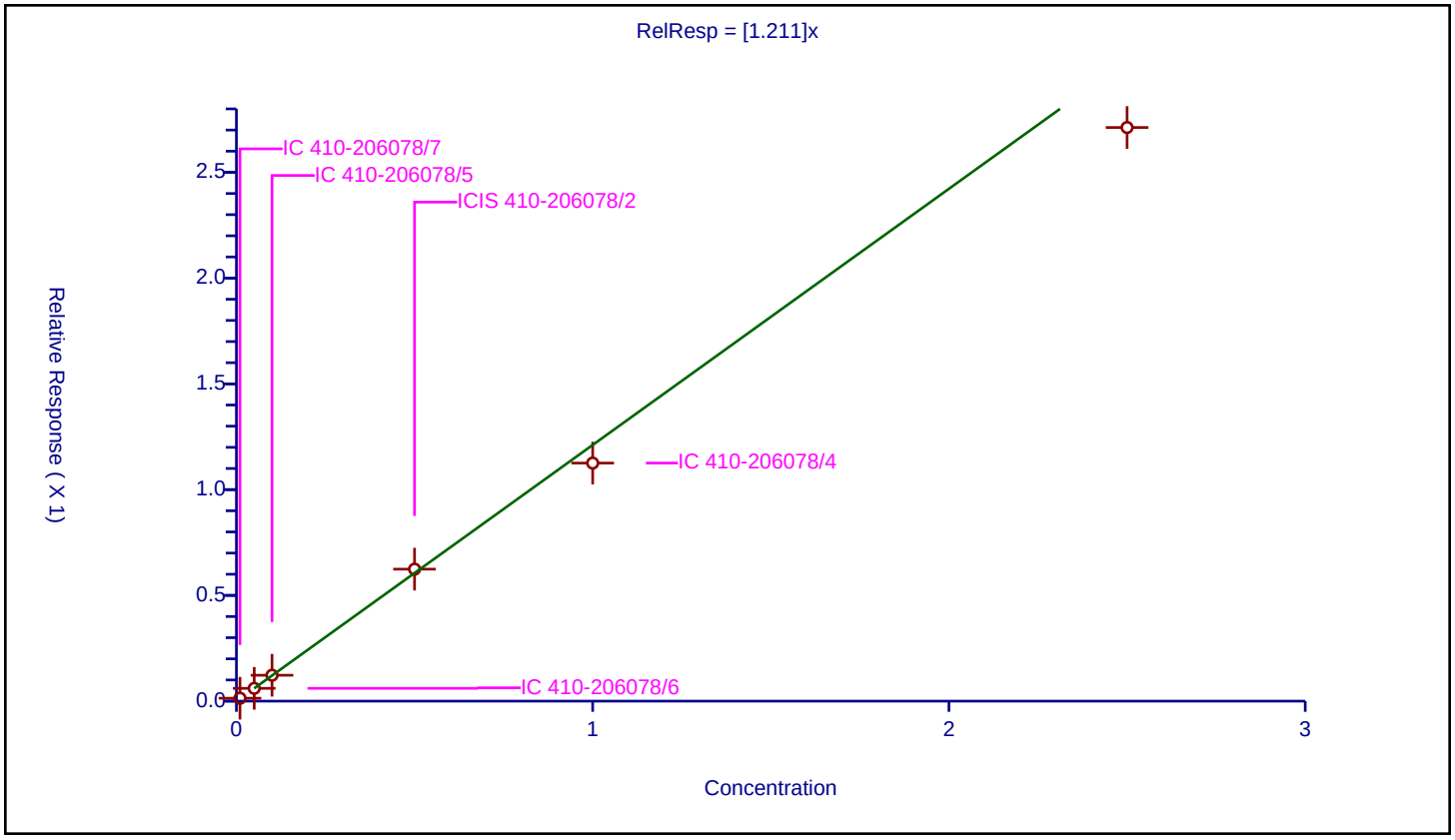
Curve Coefficients

Intercept:	0
Slope:	1.211

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.013747	0.25	207739.0	1.374682	Y
2	IC 410-206078/6	0.05	0.060463	0.25	235074.0	1.209258	Y
3	IC 410-206078/5	0.1	0.122448	0.25	233375.0	1.224478	Y
4	ICIS 410-206078/2	0.5	0.624029	0.25	228872.0	1.248058	Y
5	IC 410-206078/4	1.0	1.125474	0.25	233298.0	1.125474	Y
6	IC 410-206078/3	2.5	2.712043	0.25	249521.0	1.084817	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

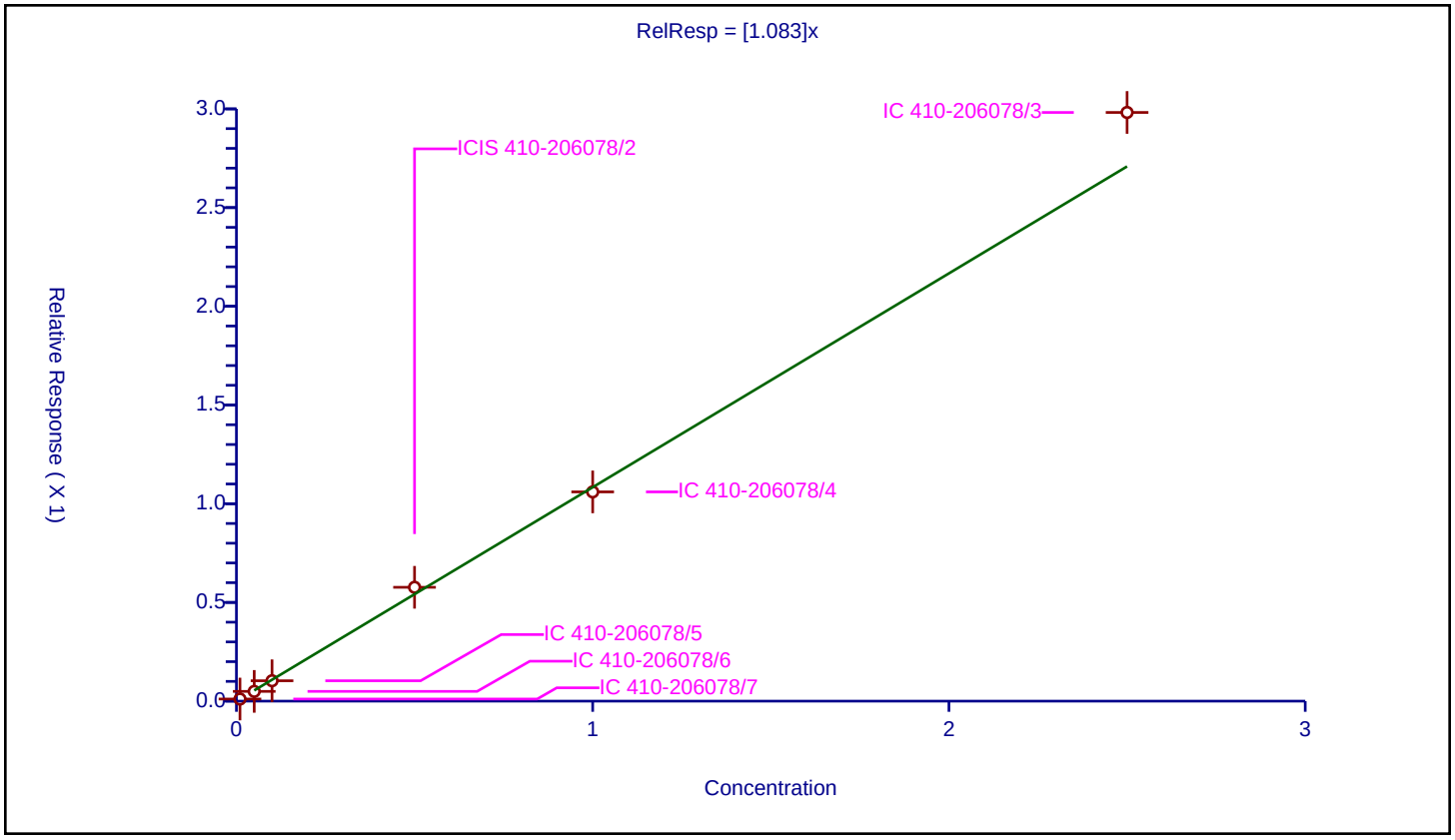
Curve Coefficients

Intercept:	0
Slope:	1.083

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	7.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.01073	0.25	207739.0	1.072981	Y
2	IC 410-206078/6	0.05	0.049422	0.25	235074.0	0.988433	Y
3	IC 410-206078/5	0.1	0.103308	0.25	233375.0	1.03308	Y
4	ICIS 410-206078/2	0.5	0.576667	0.25	228872.0	1.153335	Y
5	IC 410-206078/4	1.0	1.059916	0.25	233298.0	1.059916	Y
6	IC 410-206078/3	2.5	2.981945	0.25	249521.0	1.192778	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

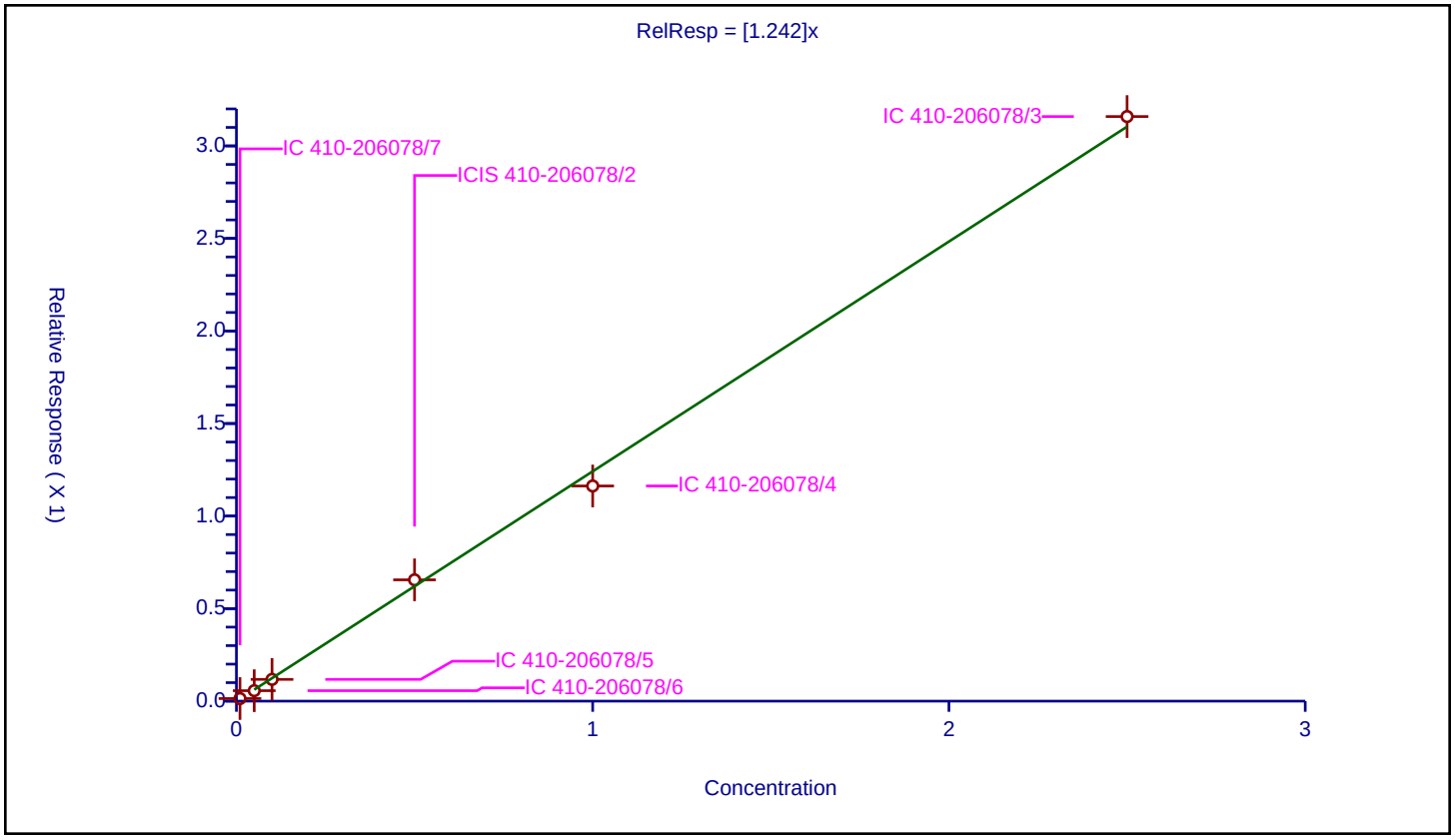
Curve Coefficients

Intercept:	0
Slope:	1.242

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	8.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.014075	0.25	207739.0	1.407535	Y
2	IC 410-206078/6	0.05	0.056502	0.25	235074.0	1.130048	Y
3	IC 410-206078/5	0.1	0.117486	0.25	233375.0	1.174858	Y
4	ICIS 410-206078/2	0.5	0.655473	0.25	228872.0	1.310947	Y
5	IC 410-206078/4	1.0	1.162564	0.25	233298.0	1.162564	Y
6	IC 410-206078/3	2.5	3.158668	0.25	249521.0	1.263467	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

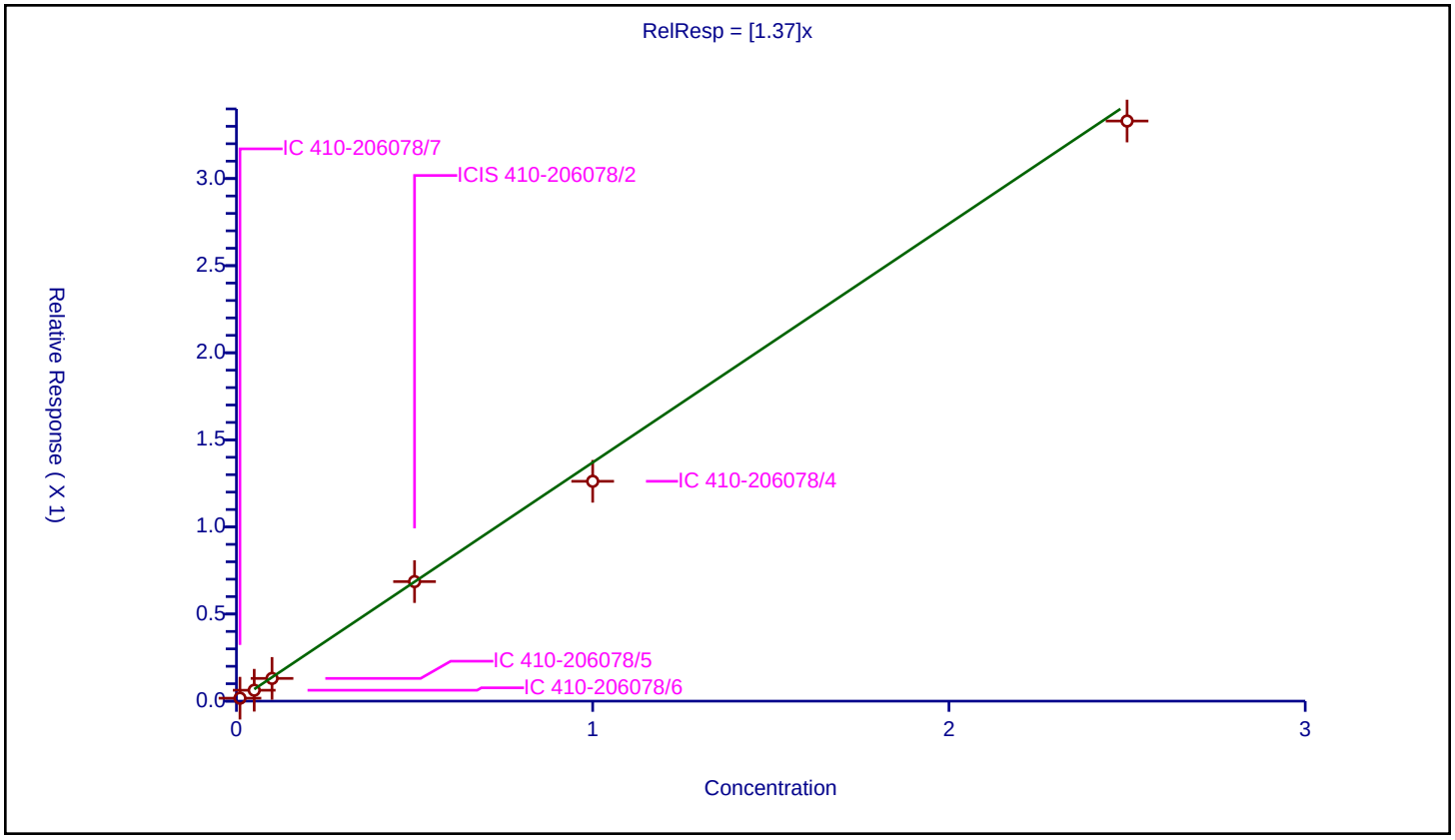
Curve Coefficients

Intercept:	0
Slope:	1.37

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	12.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-206078/7	0.01	0.016955	0.25	207739.0	1.695517	Y
2	IC 410-206078/6	0.05	0.062681	0.25	235074.0	1.253627	Y
3	IC 410-206078/5	0.1	0.130535	0.25	233375.0	1.305345	Y
4	ICIS 410-206078/2	0.5	0.686333	0.25	228872.0	1.372667	Y
5	IC 410-206078/4	1.0	1.262113	0.25	233298.0	1.262113	Y
6	IC 410-206078/3	2.5	3.330469	0.25	249521.0	1.332188	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Lab Sample ID (1): ICIS 410-206078/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/16/2021 09:13

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.62	19.60

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Lab Sample ID (1): ICIS 410-207883/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/21/2021 09:55

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.62	21.40

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Lab Sample ID (1): CCVIS 410-209113/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/27/2021 13:26

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.55	26.50

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Lab Sample ID (1): CCVIS 410-209501/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/28/2021 08:17

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.58	19.60

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Lab Sample ID (1): CCVIS 410-210397/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/30/2021 05:41

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.53	25.40

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Lab Sample ID (1): CCVIS 410-210855/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 12/31/2021 12:55

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.54	18.20

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-68043-1

SDG No.:

Lab Sample ID (1): CCVIS 410-210939/2 Instrument ID (1): HP23263

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 01/03/2022 06:06

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	18.51	22.60

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: ICV 410-207883/9 Calibration Date: 12/21/2021 13:24

Instrument ID: HP21585 Calib Start Date: 12/21/2021 09:55

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/21/2021 12:24

Lab File ID: ML1108.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6360	0.6533		0.514	0.500	2.7	30.0
Bis(2-chloroethyl)ether	Ave	0.3579	0.3948		0.552	0.500	10.3	30.0
Naphthalene	Ave	1.100	1.127		0.512	0.500	2.4	30.0
2-Methylnaphthalene	Ave	0.7316	0.7441		0.509	0.500	1.7	30.0
1-Methylnaphthalene	Ave	0.6999	0.7160		0.512	0.500	2.3	30.0
Dimethylphthalate	Ave	1.245	1.237		0.497	0.500	-0.6	30.0
Acenaphthylene	Ave	1.729	1.721		0.498	0.500	-0.5	30.0
Acenaphthene	Ave	1.166	1.065		0.457	0.500	-8.7	30.0
Dibenzofuran	Ave	1.748	1.730		0.495	0.500	-1.0	30.0
Diethylphthalate	Ave	1.150	1.143		0.497	0.500	-0.6	30.0
Fluorene	Ave	1.395	1.369		0.491	0.500	-1.8	30.0
Hexachlorobenzene	Ave	0.2534	0.2576		0.508	0.500	1.7	30.0
Phenanthrene	Ave	1.115	1.071		0.480	0.500	-4.0	30.0
Anthracene	Ave	1.041	1.069		0.513	0.500	2.7	30.0
Di-n-butyl phthalate	Ave	0.9652	0.9313		0.482	0.500	-3.5	30.0
Fluoranthene	Ave	1.338	1.285		0.480	0.500	-4.0	30.0
Pyrene	Ave	1.286	1.224		0.476	0.500	-4.8	30.0
Butylbenzylphthalate	Ave	0.3920	0.3665		0.468	0.500	-6.5	30.0
Benzo[a]anthracene	Ave	1.247	1.224		0.491	0.500	-1.8	30.0
Chrysene	Ave	1.346	1.275		0.474	0.500	-5.3	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.5644	0.5054		0.448	0.500	-10.5	30.0
Di-n-octyl phthalate	Ave	0.8270	0.7939		0.480	0.500	-4.0	30.0
Benzo[b]fluoranthene	Ave	1.199	1.187		0.495	0.500	-1.0	30.0
Benzo[k]fluoranthene	Ave	1.267	1.316		0.519	0.500	3.8	30.0
Benzo[a]pyrene	Ave	1.144	1.152		0.504	0.500	0.7	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.217	1.297		0.533	0.500	6.6	30.0
Dibenz(a,h)anthracene	Ave	1.423	1.433		0.504	0.500	0.7	30.0
Benzo[g,h,i]perylene	Ave	1.451	1.444		0.498	0.500	-0.5	30.0
N-Nitrosodimethylamine	Ave	0.6748				0.500		
N-Nitrosodiphenylamine	Lin2					0.425	-100.0*	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1108.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 21-Dec-2021 13:24:38 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0046894-009
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:53:47 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:44:58

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	3.272	3.295	-0.023	97	79620	0.5000	0.5136	
3 Bis(2-chloroethyl)ether	93	6.725	6.725	0.000	97	157817	0.5000	0.5516	
* 4 1,4-Dichlorobenzene-d4	152	7.096	7.096	0.000	83	60940	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.992	9.013	-0.021	92	199860	0.2500	0.2500	
6 Naphthalene	128	9.033	9.033	0.000	93	450439	0.5000	0.5121	
8 2-Methylnaphthalene	142	10.129	10.141	-0.012	96	297438	0.5000	0.5086	
10 1-Methylnaphthalene	142	10.288	10.288	0.000	96	286212	0.5000	0.5115	
11 Dimethyl phthalate	163	11.413	11.412	0.000	81	334713	0.5000	0.4968	
12 Acenaphthylene	152	11.559	11.559	0.000	99	465498	0.5000	0.4977	
* 13 Acenaphthene-d10	164	11.755	11.767	-0.012	92	135258	0.2500	0.2500	
14 Acenaphthene	154	11.804	11.804	0.000	93	288070	0.5000	0.4565	
15 Dibenzofuran	168	12.043	12.043	0.000	100	468117	0.5000	0.4949	
16 Diethyl phthalate	149	12.363	12.363	0.000	99	309174	0.5000	0.4970	
17 Fluorene	166	12.465	12.472	-0.007	96	370290	0.5000	0.4908	
19 Hexachlorobenzene	284	13.144	13.144	0.000	91	138284	0.5000	0.5085	
* 20 Phenanthrene-d10	188	13.651	13.651	0.000	99	268368	0.2500	0.2500	
21 Phenanthrene	178	13.682	13.682	0.000	100	574659	0.5000	0.4800	
22 Anthracene	178	13.745	13.752	-0.007	100	573736	0.5000	0.5134	
23 Di-n-butyl phthalate	149	14.468	14.468	0.000	100	499877	0.5000	0.4825	
25 Fluoranthene	202	15.364	15.370	-0.006	99	689537	0.5000	0.4800	
26 Pyrene	202	15.715	15.721	-0.006	97	714194	0.5000	0.4760	
27 Butyl benzyl phthalate	149	16.839	16.839	0.000	100	213808	0.5000	0.4676	
28 Benzo[a]anthracene	228	17.744	17.752	-0.008	100	713915	0.5000	0.4908	
* 29 Chrysene-d12	240	17.767	17.767	0.000	71	291650	0.2500	0.2500	
30 Chrysene	228	17.806	17.813	-0.007	100	743851	0.5000	0.4737	
31 Bis(2-ethylhexyl) phthalate	149	17.898	17.898	0.000	97	294803	0.5000	0.4477	
32 Di-n-octyl phthalate	149	19.071	19.071	0.000	100	524434	0.5000	0.4800	
33 Benzo[b]fluoranthene	252	19.616	19.623	-0.007	100	784350	0.5000	0.4952	
34 Benzo[k]fluoranthene	252	19.662	19.669	-0.007	100	869198	0.5000	0.5192	
37 Benzo[a]pyrene	252	20.153	20.153	0.000	100	761071	0.5000	0.5036	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 38 Perylene-d12	264	20.245	20.245	0.000	98	330293	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.942	21.949	-0.007	98	856596	0.5000	0.5328	M
41 Dibenz(a,h)anthracene	278	21.991	21.998	-0.007	96	946413	0.5000	0.5035	
42 Benzo[g,h,i]perylene	276	22.408	22.415	-0.007	95	953885	0.5000	0.4977	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00029 Amount Added: 1.00 Units: mL

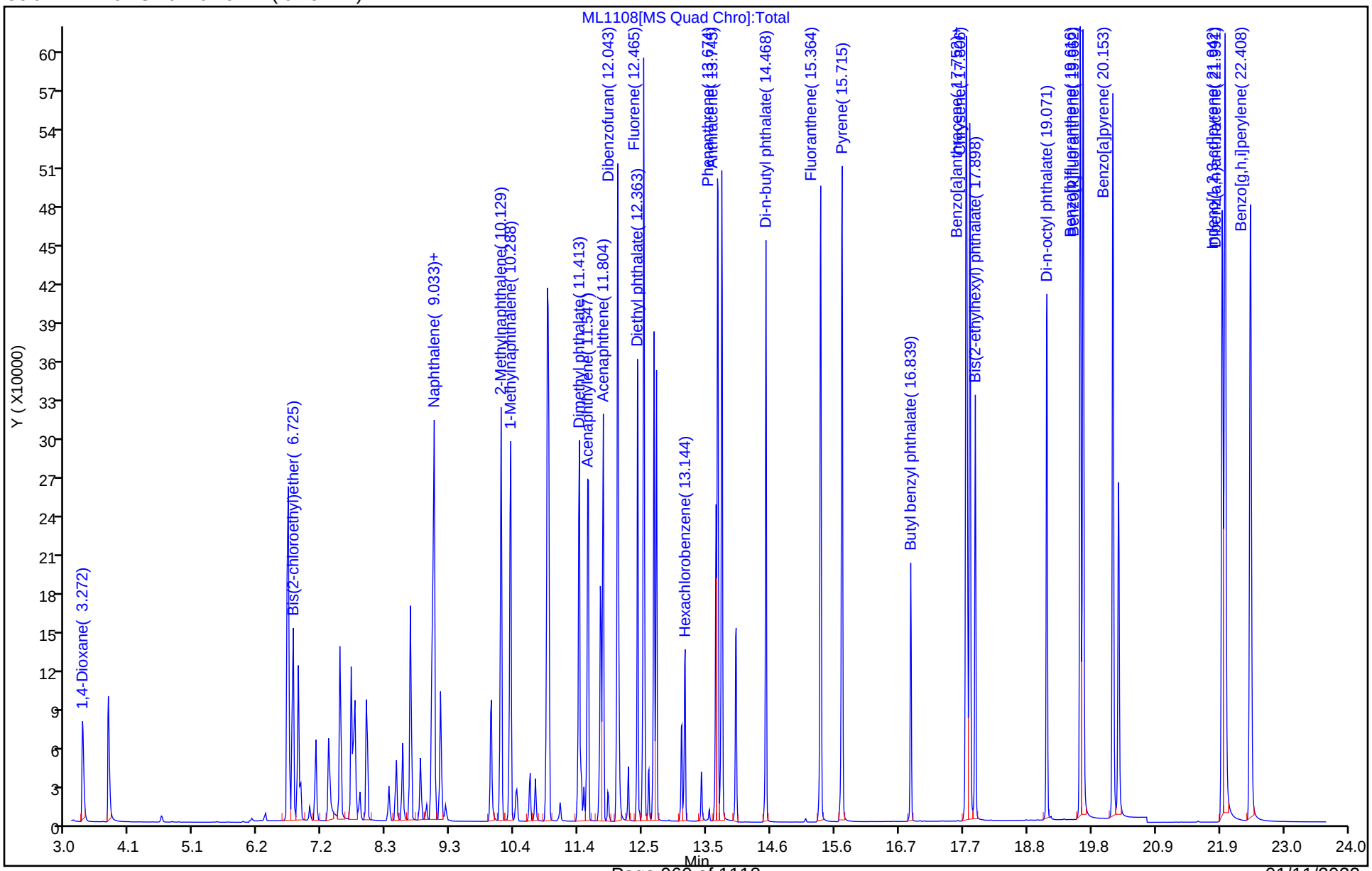
Report Date: 21-Dec-2021 17:53:56 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1108.D

Injection Date:	21-Dec-2021 13:24:38	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV			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 Env, LLC

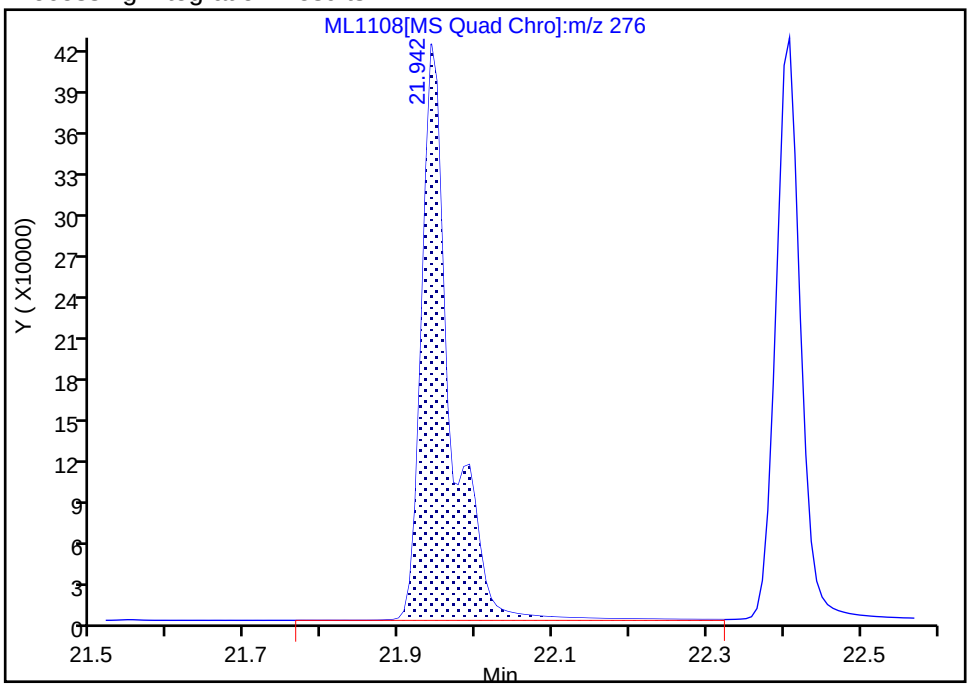
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Injection Date:	21-Dec-2021 13:24:38	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
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

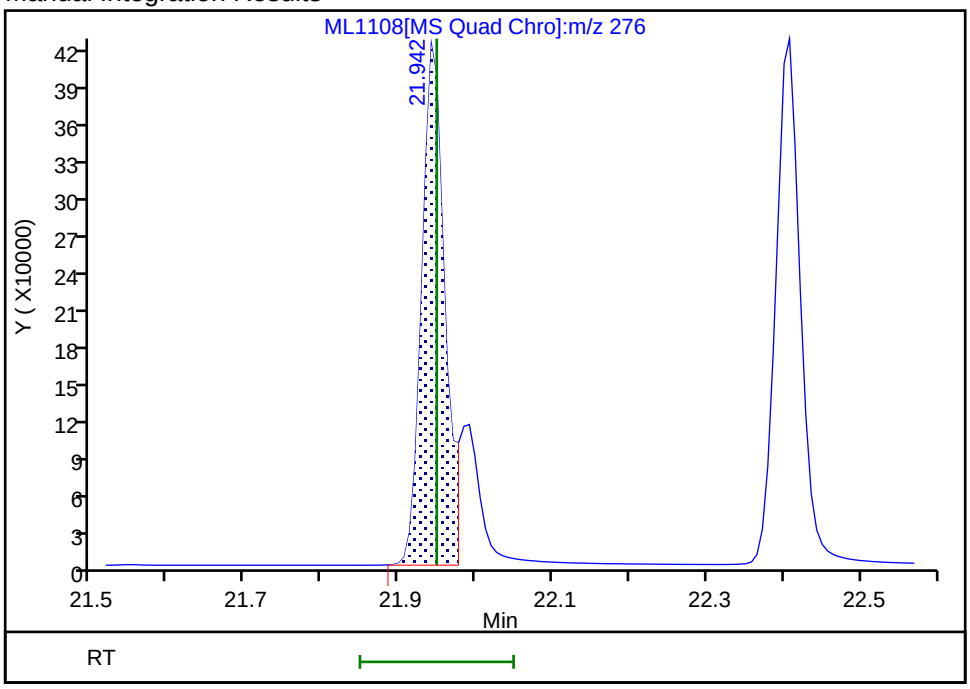
Processing Integration Results

RT: 21.94
Area: 1090698
Amount: 0.678429
Amount Units: ug/ml



Manual Integration Results

RT: 21.94
Area: 856596
Amount: 0.532814
Amount Units: ug/ml



Reviewer: transuea, 21-Dec-2021 17:50:24

Audit Action: Manually Integrated Audit Reason: Split Peak

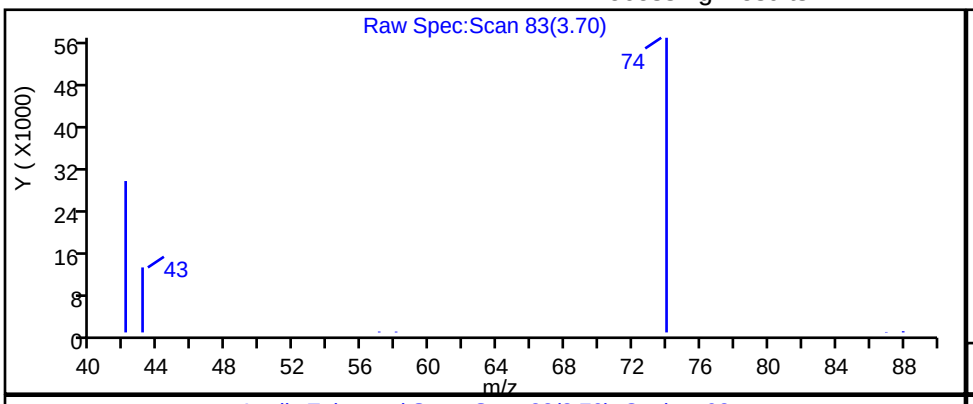
User Disabled Compound Report

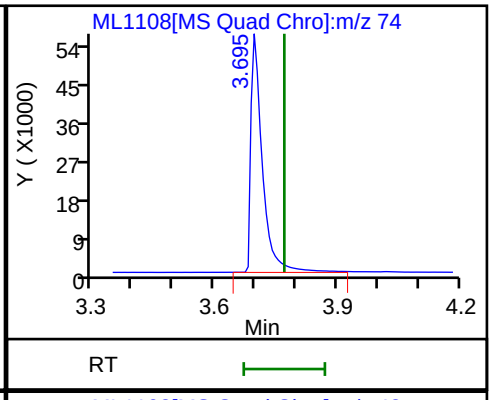
Eurofins Lancaster Laboratories Env, LLC

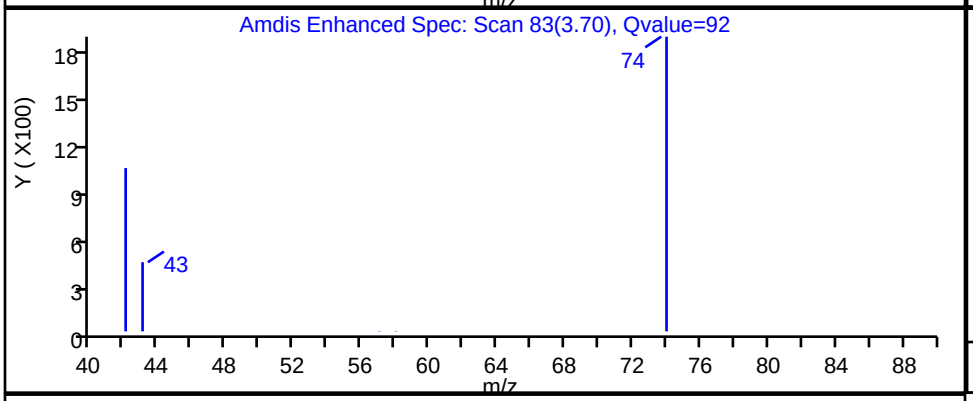
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1108.D				
Injection Date:	21-Dec-2021 13:24:38	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

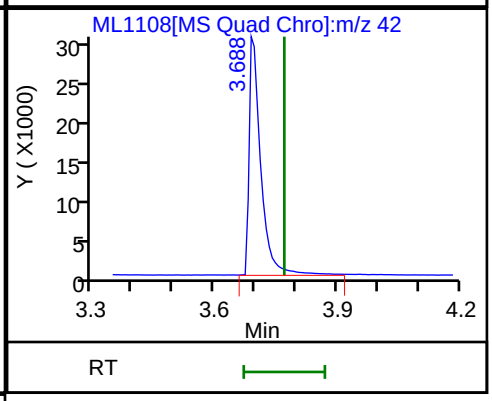
2 N-Nitrosodimethylamine, CAS: 62-75-9

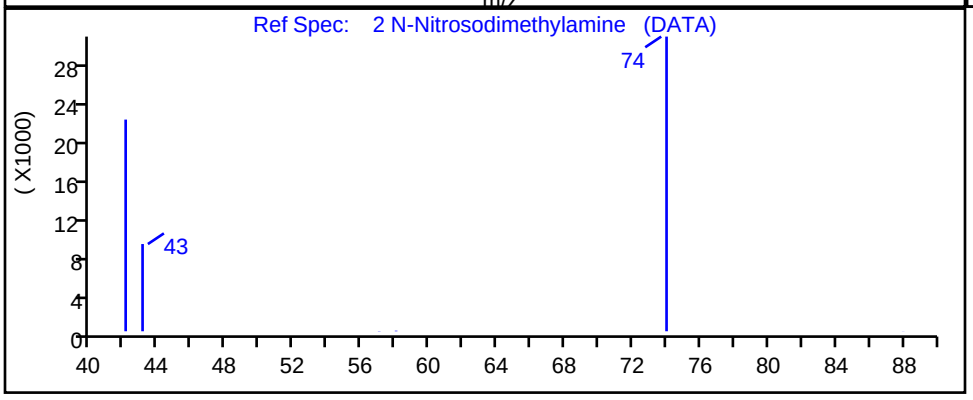
Processing Results











RT	Mass	Response	Amount
3.70	74.00	111170	0.675868
3.69	42.00	60604	

Reviewer: transuea, 21-Dec-2021 17:50:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

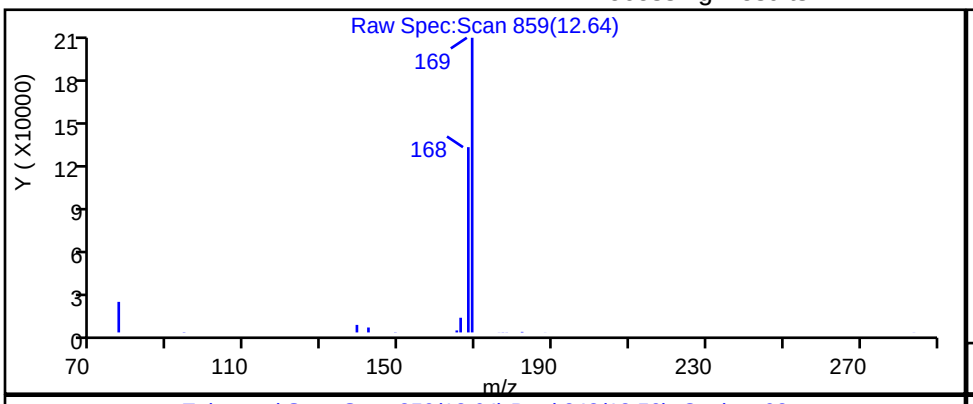
User Disabled Compound Report

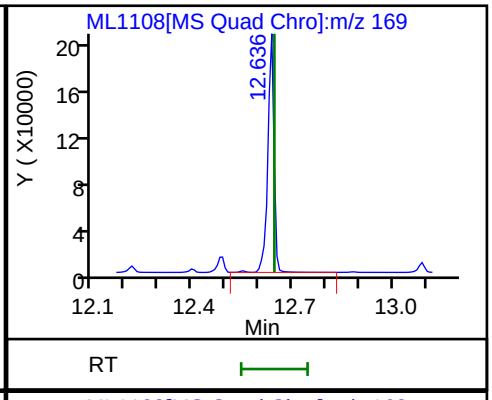
Eurofins Lancaster Laboratories Env, LLC

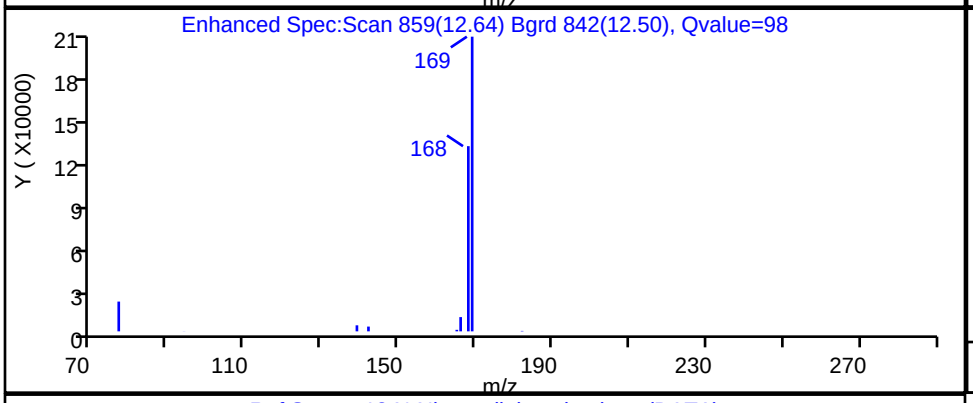
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1108.D				
Injection Date:	21-Dec-2021 13:24:38	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

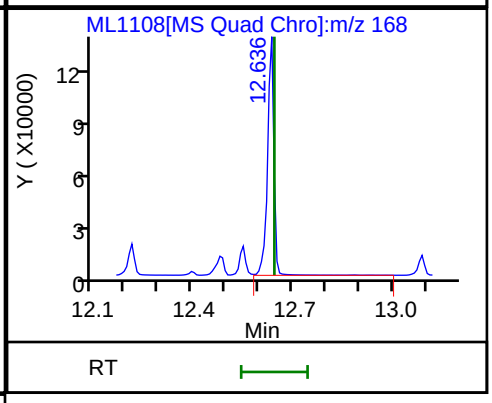
18 N-Nitrosodiphenylamine, CAS: 86-30-6

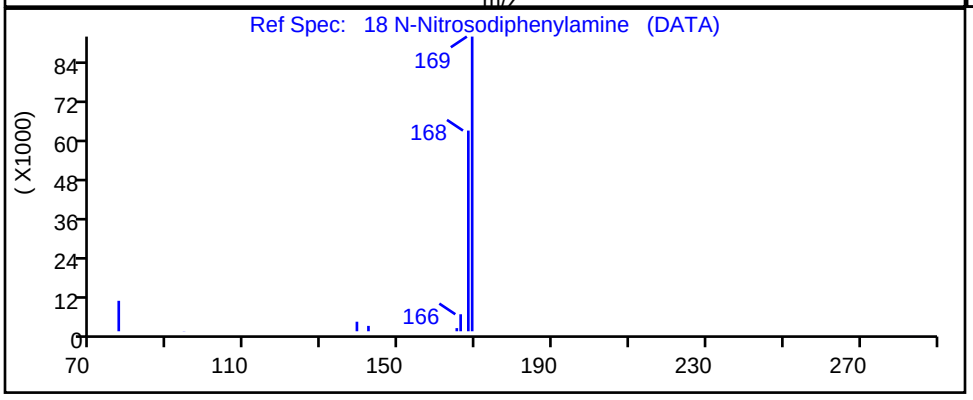
Processing Results











RT	Mass	Response	Amount
12.64	169.00	267459	0.571665
12.64	168.00	172829	

Reviewer: transuea, 21-Dec-2021 17:50:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: ICV 410-207883/11 Calibration Date: 12/21/2021 14:24

Instrument ID: HP21585 Calib Start Date: 12/21/2021 09:55

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/21/2021 12:24

Lab File ID: ML1110.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1-Methylnaphthalene-d10 (Surr)	Ave	0.5805	0.6581		0.227	0.200	13.4	30.0
Fluoranthene-d10 (Surr)	Ave	1.099	1.156		0.210	0.200	5.2	30.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9051	0.9400		0.208	0.200	3.9	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1110.D
Lims ID: ICV SS
Client ID:
Sample Type: ICV
Inject. Date: 21-Dec-2021 14:24:37 ALS Bottle#: 0 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV SS
Misc. Info.: 410-0046894-011
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:53:47 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:49:47

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	7.117	7.096	0.021	84	59225	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.013	9.013	0.000	92	199630	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.227	10.227	0.000	99	105097	0.2000	0.2267	
* 13 Acenaphthene-d10	164	11.767	11.767	0.000	88	133578	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.651	13.651	0.000	95	260431	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.333	15.339	-0.006	97	240778	0.2000	0.2104	
* 29 Chrysene-d12	240	17.767	17.767	0.000	55	284661	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.114	20.114	0.000	98	255929	0.2000	0.2077	
* 38 Perylene-d12	264	20.245	20.245	0.000	98	340339	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_ICV_00027 Amount Added: 1.00 Units: mL

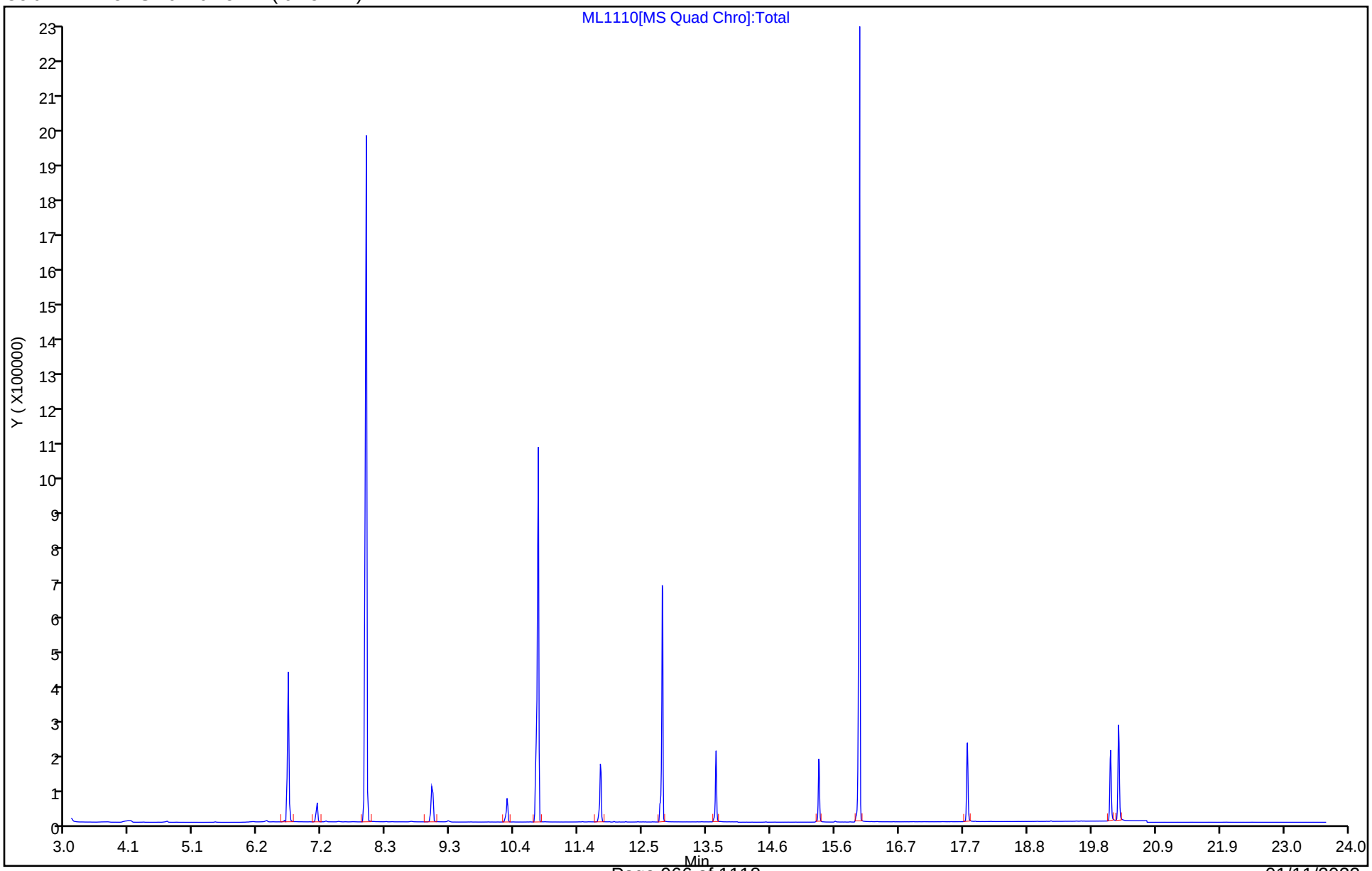
Report Date: 21-Dec-2021 17:54:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1110.D

Injection Date:	21-Dec-2021 14:24:37	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	ICV SS			Worklist Smp#:	11
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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-210855/2 Calibration Date: 12/31/2021 12:55

Instrument ID: HP21585 Calib Start Date: 12/21/2021 09:55

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/21/2021 12:24

Lab File ID: ML1801.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6360	0.6584		0.518	0.500	3.5	20.0
N-Nitrosodimethylamine	Ave	0.6748	0.6868		0.509	0.500	1.8	20.0
Bis(2-chloroethyl)ether	Ave	0.3579	0.3620		0.506	0.500	1.2	20.0
Naphthalene	Ave	1.100	1.004		0.456	0.500	-8.8	20.0
Quinoline	Ave	0.5617	0.5434		0.484	0.500	-3.3	20.0
2-Methylnaphthalene	Ave	0.7316	0.7564		0.517	0.500	3.4	20.0
1-Methylnaphthalene	Ave	0.6999	0.7006		0.501	0.500	0.1	20.0
Dimethylphthalate	Ave	1.245	1.332		2.67	2.50	7.0	20.0
Acenaphthylene	Ave	1.729	1.739		0.503	0.500	0.6	20.0
Acenaphthene	Ave	1.166	1.143		0.490	0.500	-2.0	20.0
Dibenzofuran	Ave	1.748	1.870		0.535	0.500	7.0	20.0
Diethylphthalate	Ave	1.150	1.201		2.61	2.50	4.5	20.0
Fluorene	Ave	1.395	1.485		0.532	0.500	6.5	20.0
N-Nitrosodiphenylamine	Lin2		0.4346		0.497	0.500	-0.5	20.0
Hexachlorobenzene	Ave	0.2534	0.3058		0.604	0.500	20.7*	20.0
Phenanthrene	Ave	1.115	1.102		0.494	0.500	-1.2	20.0
Anthracene	Ave	1.041	1.086		0.522	0.500	4.3	20.0
Di-n-butyl phthalate	Ave	0.9652	0.9375		2.43	2.50	-2.9	20.0
Fluoranthene	Ave	1.338	1.464		0.547	0.500	9.4	20.0
Pyrene	Ave	1.286	1.259		0.490	0.500	-2.1	20.0
Butylbenzylphthalate	Ave	0.3920	0.3470		2.21	2.50	-11.5	20.0
Benzo[a]anthracene	Ave	1.247	1.266		0.508	0.500	1.6	20.0
Chrysene	Ave	1.346	1.348		0.501	0.500	0.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5644	0.4950		2.19	2.50	-12.3	20.0
Di-n-octyl phthalate	Ave	0.8270	0.7404		2.24	2.50	-10.5	20.0
Benzo[b]fluoranthene	Ave	1.199	1.251		0.522	0.500	4.4	20.0
Benzo[k]fluoranthene	Ave	1.267	1.341		0.529	0.500	5.8	20.0
Benzo[e]pyrene	Ave	1.124	1.188		0.529	0.500	5.7	20.0
Benzo[a]pyrene	Ave	1.144	1.192		0.521	0.500	4.2	20.0
Perylene	Ave	1.171	1.195		0.510	0.500	2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.217	1.254		0.515	0.500	3.1	20.0
Dibenz(a,h)anthracene	Ave	1.423	1.434		0.504	0.500	0.8	20.0
Benzo[g,h,i]perylene	Ave	1.451	1.460		0.503	0.500	0.6	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5805	0.6140		0.529	0.500	5.8	20.0
Fluoranthene-d10 (Surr)	Ave	1.099	1.226		0.558	0.500	11.6	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.9051	0.9458		0.522	0.500	4.5	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1801.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Dec-2021 12:55:02 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0047541-002, 4
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:18:44 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 14:18:35

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	3.132	3.132	0.000	93	56475	0.5000	0.5176	
2 N-Nitrosodimethylamine	74	3.570	3.570	0.000	93	58912	0.5000	0.5089	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	97	97272	0.5000	0.5058	
* 4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	84	42891	0.2500	0.2500	a
* 5 Naphthalene-d8	136	8.931	8.931	0.000	96	134339	0.2500	0.2500	
6 Naphthalene	128	8.972	8.972	0.000	93	269647	0.5000	0.4561	
7 Quinoline	129	9.493	9.493	0.000	84	146003	0.5000	0.4837	
8 2-Methylnaphthalene	142	10.068	10.068	0.000	95	203215	0.5000	0.5169	a
$ 9 1-Methylnaphthalene-d10	152	10.166	10.166	0.000	99	164960	0.5000	0.5289	
10 1-Methylnaphthalene	142	10.215	10.215	0.000	96	188247	0.5000	0.5005	
11 Dimethyl phthalate	163	11.352	11.352	0.000	90	1225523	2.50	2.67	
12 Acenaphthylene	152	11.499	11.499	0.000	98	319974	0.5000	0.5030	
* 13 Acenaphthene-d10	164	11.706	11.706	0.000	91	92009	0.2500	0.2500	
14 Acenaphthene	154	11.755	11.755	0.000	92	210336	0.5000	0.4900	
15 Dibenzofuran	168	11.997	11.997	0.000	99	344147	0.5000	0.5349	
16 Diethyl phthalate	149	12.332	12.332	0.000	97	1105077	2.50	2.61	
17 Fluorene	166	12.426	12.426	0.000	96	273204	0.5000	0.5323	
18 N-Nitrosodiphenylamine	169	12.598	12.598	0.000	99	170841	0.5000	0.4974	
19 Hexachlorobenzene	284	13.097	13.097	0.000	88	120228	0.5000	0.6036	
* 20 Phenanthrene-d10	188	13.597	13.597	0.000	99	196553	0.2500	0.2500	
21 Phenanthrene	178	13.628	13.628	0.000	100	433019	0.5000	0.4938	
22 Anthracene	178	13.698	13.698	0.000	100	426911	0.5000	0.5216	
23 Di-n-butyl phthalate	149	14.423	14.423	0.000	100	1842670	2.50	2.43	
$ 24 Fluoranthene-d10 (Surr)	212	15.275	15.275	0.000	96	481875	0.5000	0.5579	
25 Fluoranthene	202	15.300	15.300	0.000	99	575488	0.5000	0.5470	
26 Pyrene	202	15.651	15.651	0.000	96	594722	0.5000	0.4896	
27 Butyl benzyl phthalate	149	16.783	16.783	0.000	100	819452	2.50	2.21	
28 Benzo[a]anthracene	228	17.673	17.673	0.000	100	598086	0.5000	0.5078	a
* 29 Chrysene-d12	240	17.696	17.696	0.000	55	236138	0.2500	0.2500	a
30 Chrysene	228	17.742	17.742	0.000	100	636407	0.5000	0.5006	

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	17.842	17.842	0.000	96	1168831	2.50	2.19	
32 Di-n-octyl phthalate	149	19.007	19.007	0.000	100	2044882	2.50	2.24	
33 Benzo[b]fluoranthene	252	19.544	19.544	0.000	100	691079	0.5000	0.5218	
34 Benzo[k]fluoranthene	252	19.590	19.590	0.000	100	740693	0.5000	0.5291	
35 Benzo[e]pyrene	252	19.997	19.997	0.000	100	656461	0.5000	0.5286	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.043	20.043	0.000	98	522422	0.5000	0.5225	
37 Benzo[a]pyrene	252	20.081	20.081	0.000	100	658166	0.5000	0.5208	
* 38 Perylene-d12	264	20.173	20.173	0.000	97	276181	0.2500	0.2500	
39 Perylene	252	20.212	20.212	0.000	100	660091	0.5000	0.5102	
40 Indeno[1,2,3-cd]pyrene	276	21.847	21.847	0.000	98	692887	0.5000	0.5154	M
41 Dibenz(a,h)anthracene	278	21.897	21.897	0.000	94	792243	0.5000	0.5041	
42 Benzo[g,h,i]perylene	276	22.299	22.299	0.000	93	806176	0.5000	0.5030	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

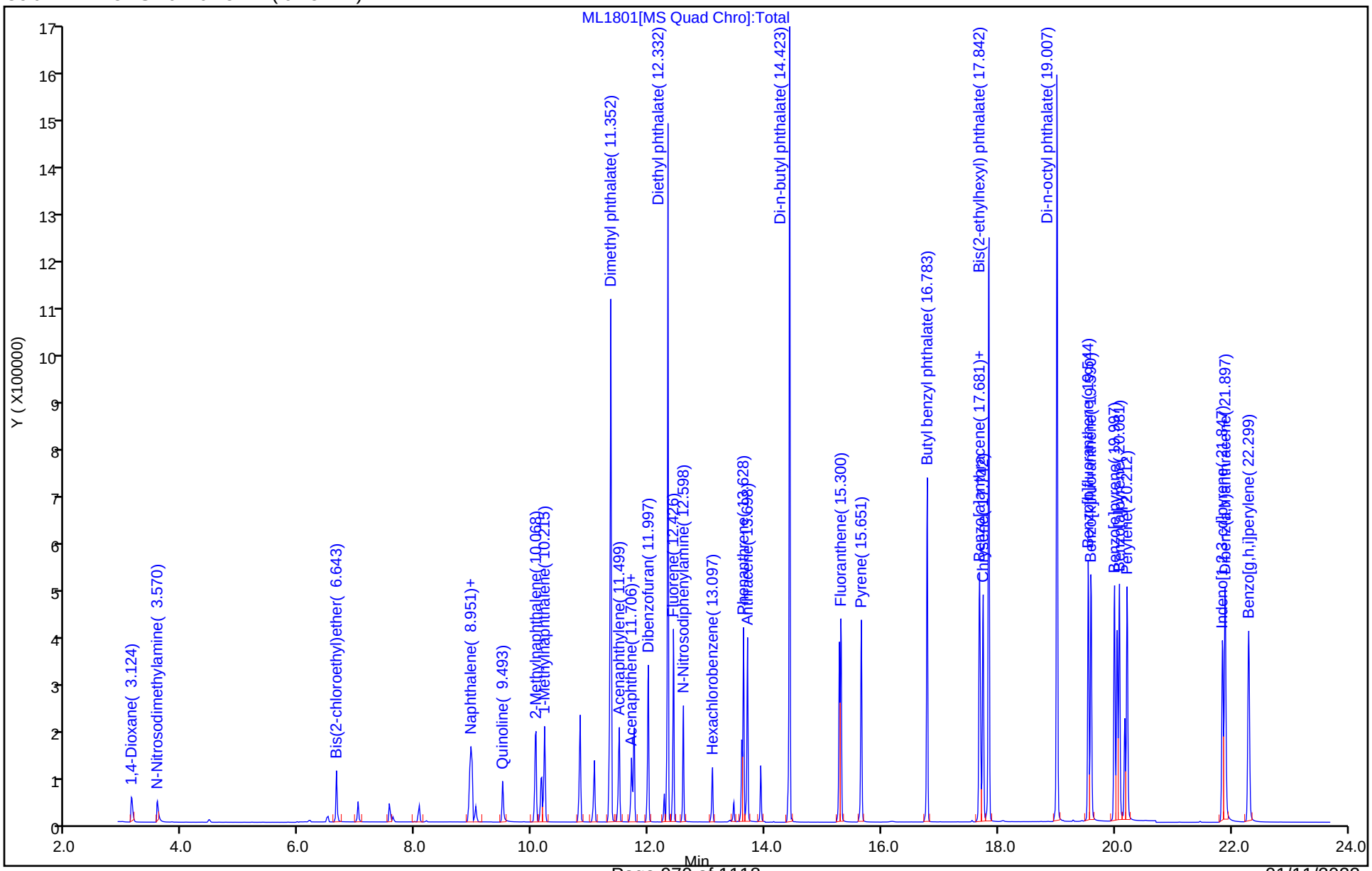
Report Date: 31-Dec-2021 14:18:45 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1801.D

Injection Date:	31-Dec-2021 12:55:02	Instrument ID:	HP21585	Operator ID:	art12405
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 Env, LLC

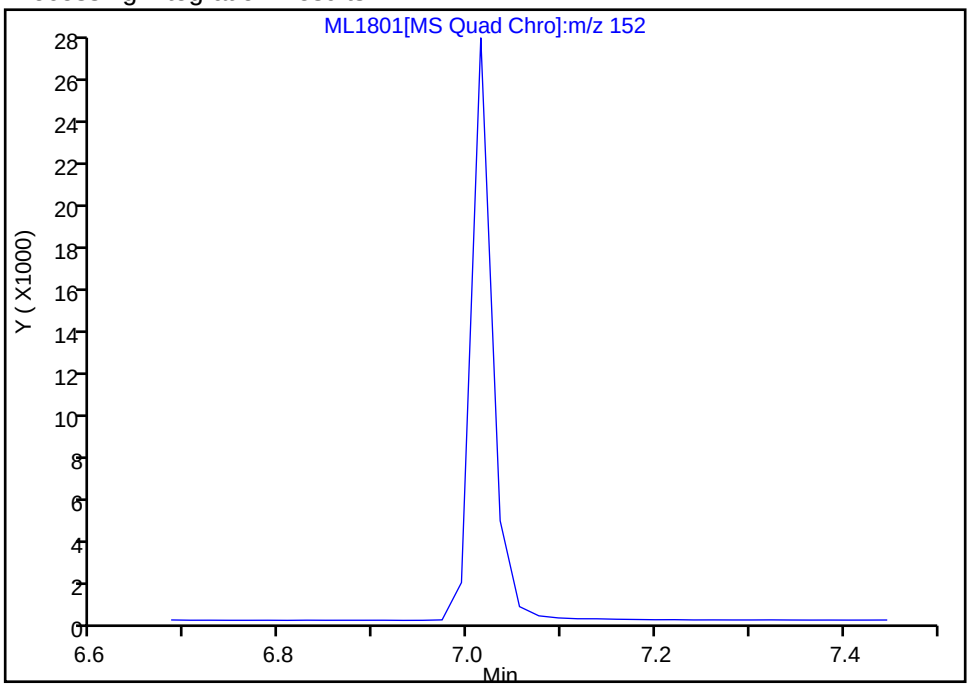
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Injection Date:	31-Dec-2021 12:55:02	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

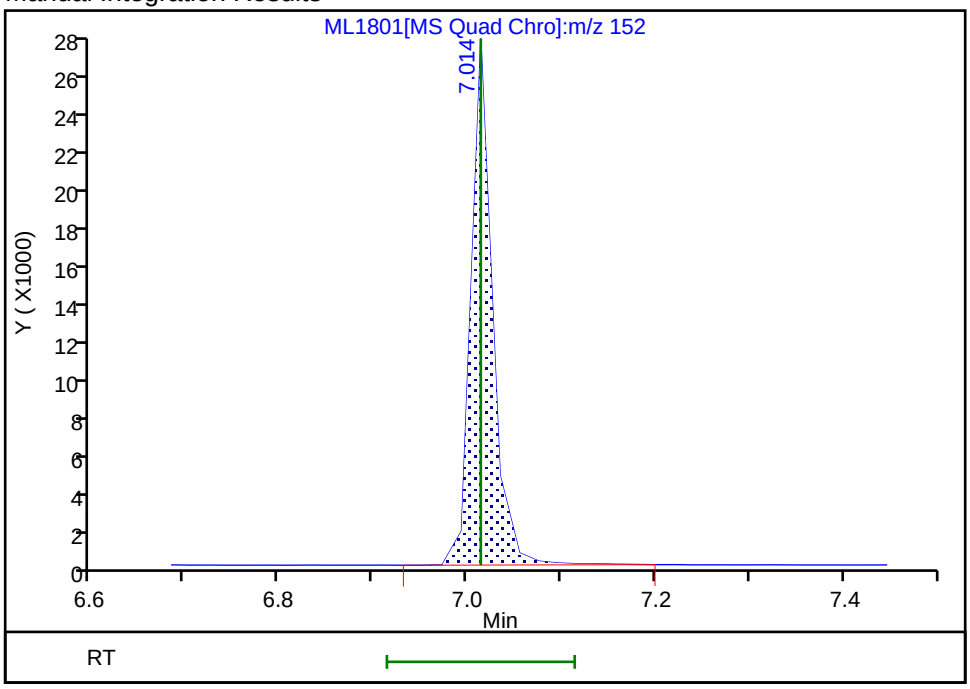
Processing Integration Results

Not Detected
Expected RT: 7.01



Manual Integration Results

RT: 7.01
Area: 42891
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 14:05:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

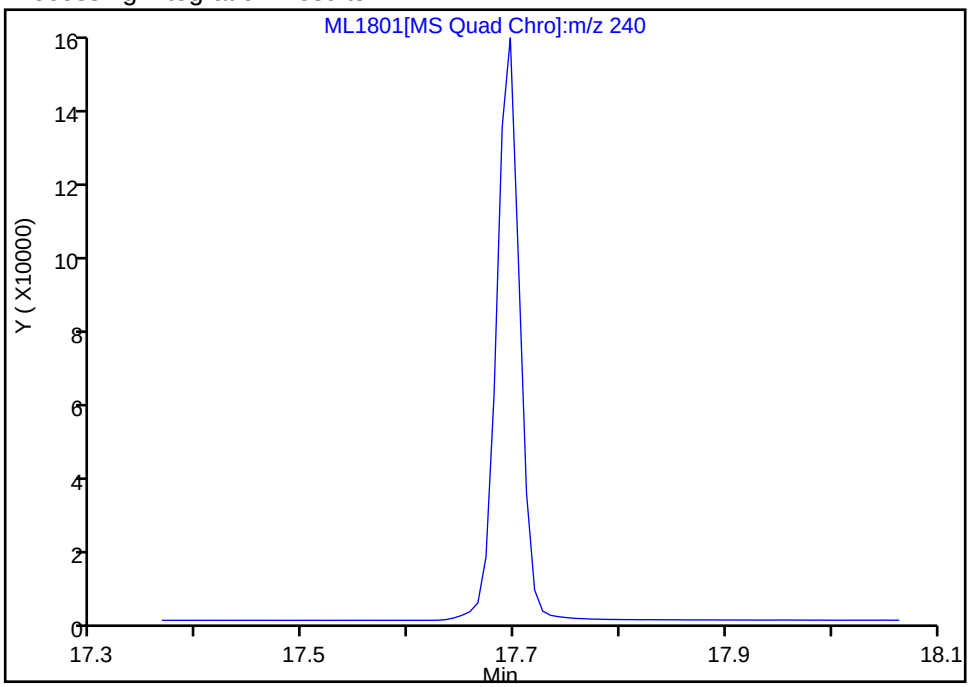
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Injection Date:	31-Dec-2021 12:55:02	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 29 Chrysene-d12, CAS: 1719-03-5

Signal: 1

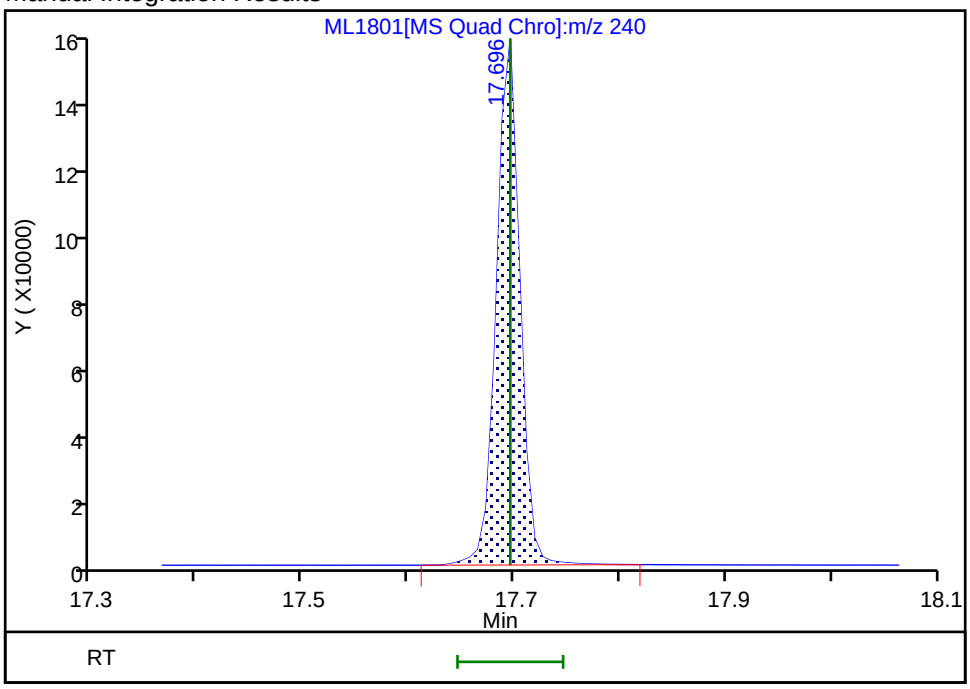
Not Detected
Expected RT: 17.70

Processing Integration Results



Manual Integration Results

RT: 17.70
Area: 236138
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 14:05:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

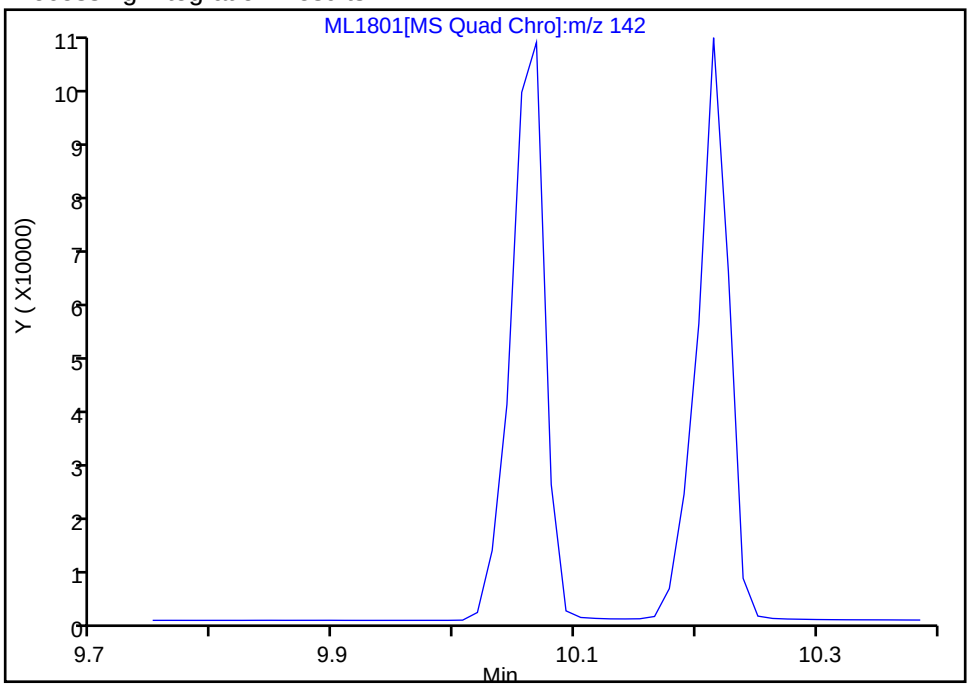
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Injection Date:	31-Dec-2021 12:55:02	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

8 2-Methylnaphthalene, CAS: 91-57-6

Signal: 1

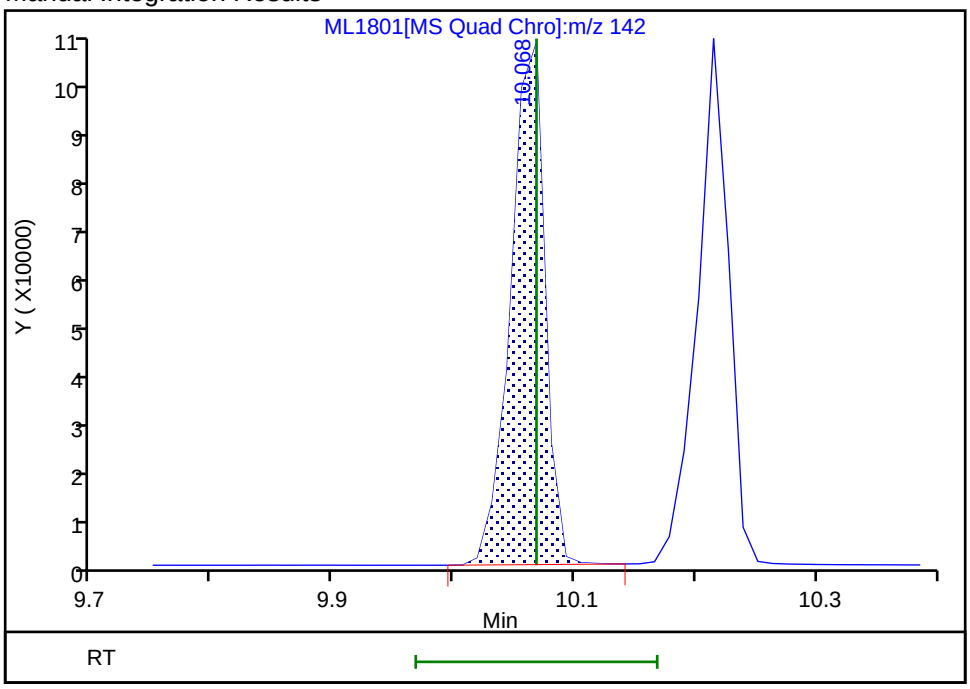
Not Detected
Expected RT: 10.07

Processing Integration Results



Manual Integration Results

RT: 10.07
Area: 203215
Amount: 0.516942
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 14:05:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

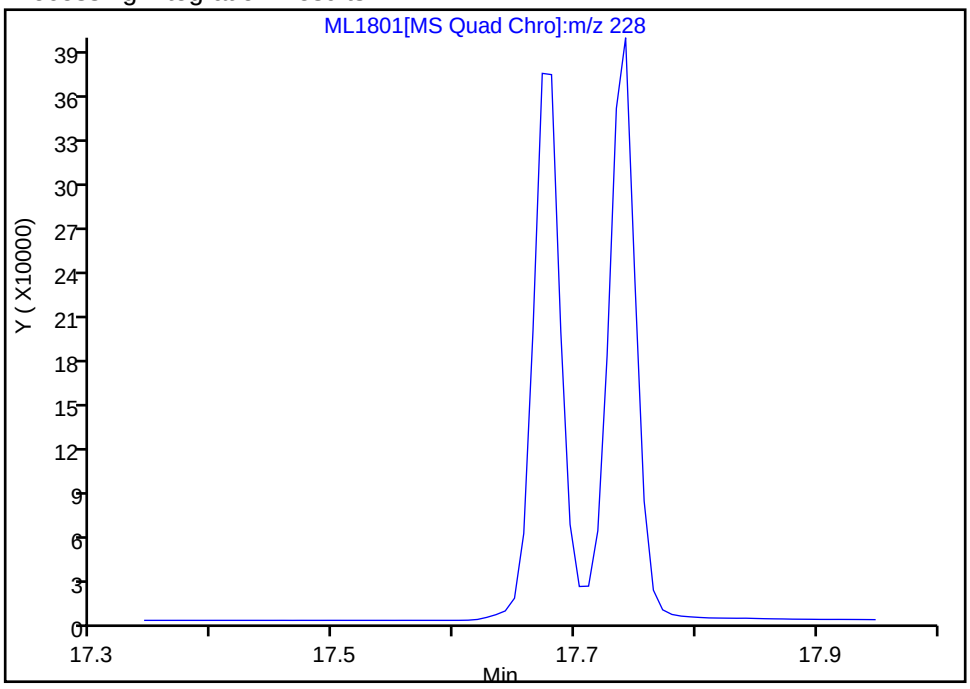
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1801.D				
Injection Date:	31-Dec-2021 12:55:02	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

28 Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

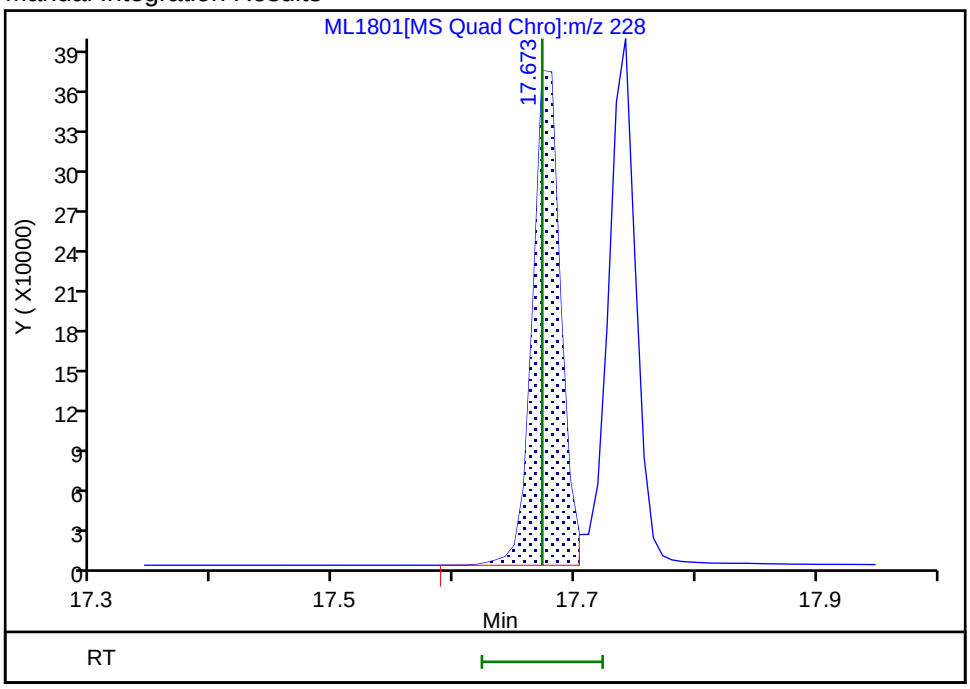
Not Detected
Expected RT: 17.67

Processing Integration Results



Manual Integration Results

RT: 17.67
Area: 598086
Amount: 0.507804
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 14:05:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

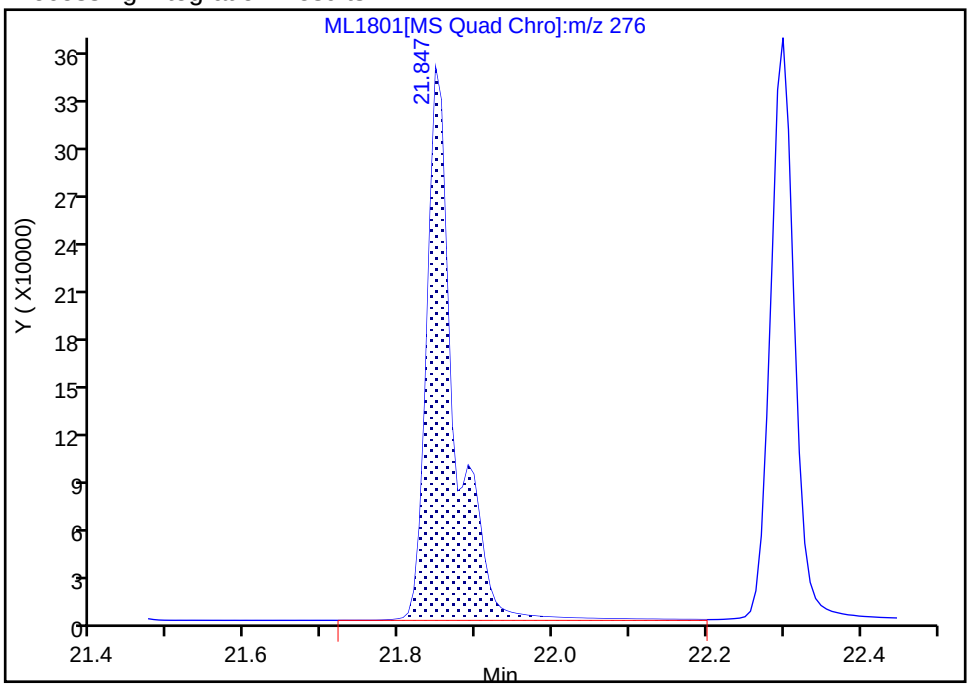
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1801.D				
Injection Date:	31-Dec-2021 12:55:02	Instrument ID:	HP21585		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

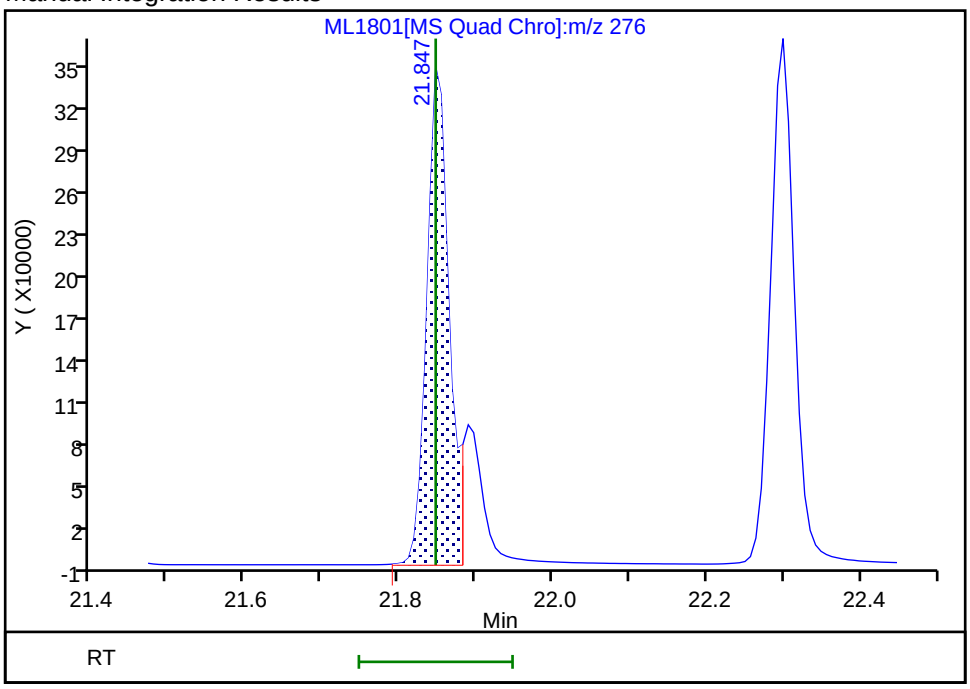
Processing Integration Results

RT: 21.85
Area: 877085
Amount: 0.652450
Amount Units: ug/ml



Manual Integration Results

RT: 21.85
Area: 692887
Amount: 0.515428
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 14:06:18

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: ICV 410-206078/9 Calibration Date: 12/16/2021 12:32

Instrument ID: HP23263 Calib Start Date: 12/16/2021 09:13

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/16/2021 11:36

Lab File ID: NL0608.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7124	0.6906		0.485	0.500	-3.1	30.0
Bis(2-chloroethyl)ether	Ave	0.3359	0.4142		0.617	0.500	23.3	30.0
Naphthalene	Ave	1.045	1.072		0.513	0.500	2.6	30.0
2-Methylnaphthalene	Ave	0.6671	0.6953		0.521	0.500	4.2	30.0
1-Methylnaphthalene	Ave	0.6695	0.9192		0.687	0.500	37.3*	30.0
Dimethylphthalate	Ave	1.201	1.304		0.543	0.500	8.5	30.0
Acenaphthylene	Ave	1.782	1.892		0.531	0.500	6.2	30.0
Acenaphthene	Ave	1.111	1.087		0.489	0.500	-2.2	30.0
Dibenzofuran	Ave	1.626	1.717		0.528	0.500	5.6	30.0
Diethylphthalate	Ave	1.250	1.336		0.534	0.500	6.9	30.0
Fluorene	Ave	1.305	1.322		0.506	0.500	1.3	30.0
Hexachlorobenzene	Ave	0.2829	0.2768		0.489	0.500	-2.2	30.0
Phenanthrene	Ave	1.096	1.114		0.508	0.500	1.6	30.0
Anthracene	Ave	1.026	1.011		0.493	0.500	-1.4	30.0
Di-n-butyl phthalate	Ave	1.032	1.099		0.532	0.500	6.5	30.0
Fluoranthene	Ave	1.075	1.070		0.497	0.500	-0.5	30.0
Pyrene	Ave	1.564	1.486		0.475	0.500	-5.0	30.0
Butylbenzylphthalate	Ave	0.6230	0.6735		0.540	0.500	8.1	30.0
Benzo[a]anthracene	Ave	1.198	1.264		0.527	0.500	5.5	30.0
Chrysene	Lin2		1.347		0.529	0.500	5.8	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.8366	0.8682		0.519	0.500	3.8	30.0
Di-n-octyl phthalate	Ave	1.395	1.422		0.509	0.500	1.9	30.0
Benzo[b]fluoranthene	Ave	1.230	1.255		0.510	0.500	2.0	30.0
Benzo[k]fluoranthene	Ave	1.402	1.364		0.486	0.500	-2.7	30.0
Benzo[a]pyrene	Ave	1.189	1.233		0.518	0.500	3.7	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.083	1.199		0.553	0.500	10.7	30.0
Dibenz(a,h)anthracene	Ave	1.242	1.190		0.479	0.500	-4.2	30.0
Benzo[g,h,i]perylene	Ave	1.370	1.304		0.476	0.500	-4.8	30.0
N-Nitrosodimethylamine	Ave	0.6223				0.500		
N-Nitrosodiphenylamine	Lin2					0.425	-100.0*	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0608.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 16-Dec-2021 12:32:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0046502-009
Operator ID: jmg00346 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:15:04 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: transuea Date: 16-Dec-2021 14:11:28

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	2.175	2.171	0.004	99	123748	0.5000	0.4847	M
3 Bis(2-chloroethyl)ether	93	5.631	5.794	-0.163	98	258713	0.5000	0.6166	M
* 4 1,4-Dichlorobenzene-d4	152	5.994	5.994	0.000	99	89596	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.006	8.018	-0.012	100	312295	0.2500	0.2500	
6 Naphthalene	128	8.031	8.043	-0.012	99	669532	0.5000	0.5128	
8 2-Methylnaphthalene	142	9.173	9.213	-0.040	100	434283	0.5000	0.5211	
10 1-Methylnaphthalene	142	9.323	9.353	-0.030	92	574140	0.5000	0.6865	
11 Dimethyl phthalate	163	10.525	10.535	-0.010	100	446023	0.5000	0.5426	
12 Acenaphthylene	152	10.625	10.635	-0.010	100	647213	0.5000	0.5308	
* 13 Acenaphthene-d10	164	10.866	10.866	0.000	97	171041	0.2500	0.2500	
14 Acenaphthene	154	10.916	10.916	0.000	97	371766	0.5000	0.4892	
15 Dibenzofuran	168	11.203	11.233	-0.030	100	587474	0.5000	0.5281	
16 Diethyl phthalate	149	11.627	11.635	-0.008	100	456922	0.5000	0.5343	
17 Fluorene	166	11.697	11.720	-0.023	100	452100	0.5000	0.5064	
19 Hexachlorobenzene	284	12.361	12.376	-0.015	98	167288	0.5000	0.4892	
* 20 Phenanthrene-d10	188	12.840	12.847	-0.007	100	302192	0.2500	0.2500	
21 Phenanthrene	178	12.863	12.871	-0.008	100	673098	0.5000	0.5082	
22 Anthracene	178	12.932	12.963	-0.031	100	611069	0.5000	0.4928	
23 Di-n-butyl phthalate	149	13.661	13.667	-0.006	100	663938	0.5000	0.5323	
25 Fluoranthene	202	14.463	14.488	-0.025	97	646454	0.5000	0.4975	
26 Pyrene	202	14.795	14.820	-0.025	98	666528	0.5000	0.4752	
27 Butyl benzyl phthalate	149	15.934	15.934	0.000	100	301991	0.5000	0.5405	
28 Benzo[a]anthracene	228	16.777	16.785	-0.008	99	566679	0.5000	0.5274	
* 29 Chrysene-d12	240	16.793	16.800	-0.007	92	224203	0.2500	0.2500	
30 Chrysene	228	16.831	16.839	-0.008	100	604151	0.5000	0.5292	
31 Bis(2-ethylhexyl) phthalate	149	16.992	16.992	0.000	100	389315	0.5000	0.5189	
32 Di-n-octyl phthalate	149	18.150	18.158	-0.008	100	643534	0.5000	0.5095	
33 Benzo[b]fluoranthene	252	18.626	18.641	-0.015	100	568123	0.5000	0.5101	
34 Benzo[k]fluoranthene	252	18.672	18.687	-0.015	100	617288	0.5000	0.4864	
37 Benzo[a]pyrene	252	19.147	19.155	-0.008	100	557846	0.5000	0.5184	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 38 Perylene-d12	264	19.247	19.247	0.000	97	226290	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.855	20.897	-0.042	96	542758	0.5000	0.5535	
41 Dibenz(a,h)anthracene	278	20.897	20.939	-0.042	96	538441	0.5000	0.4791	
42 Benzo[g,h,i]perylene	276	21.229	21.264	-0.035	98	590153	0.5000	0.4758	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00029 Amount Added: 1.00 Units: mL

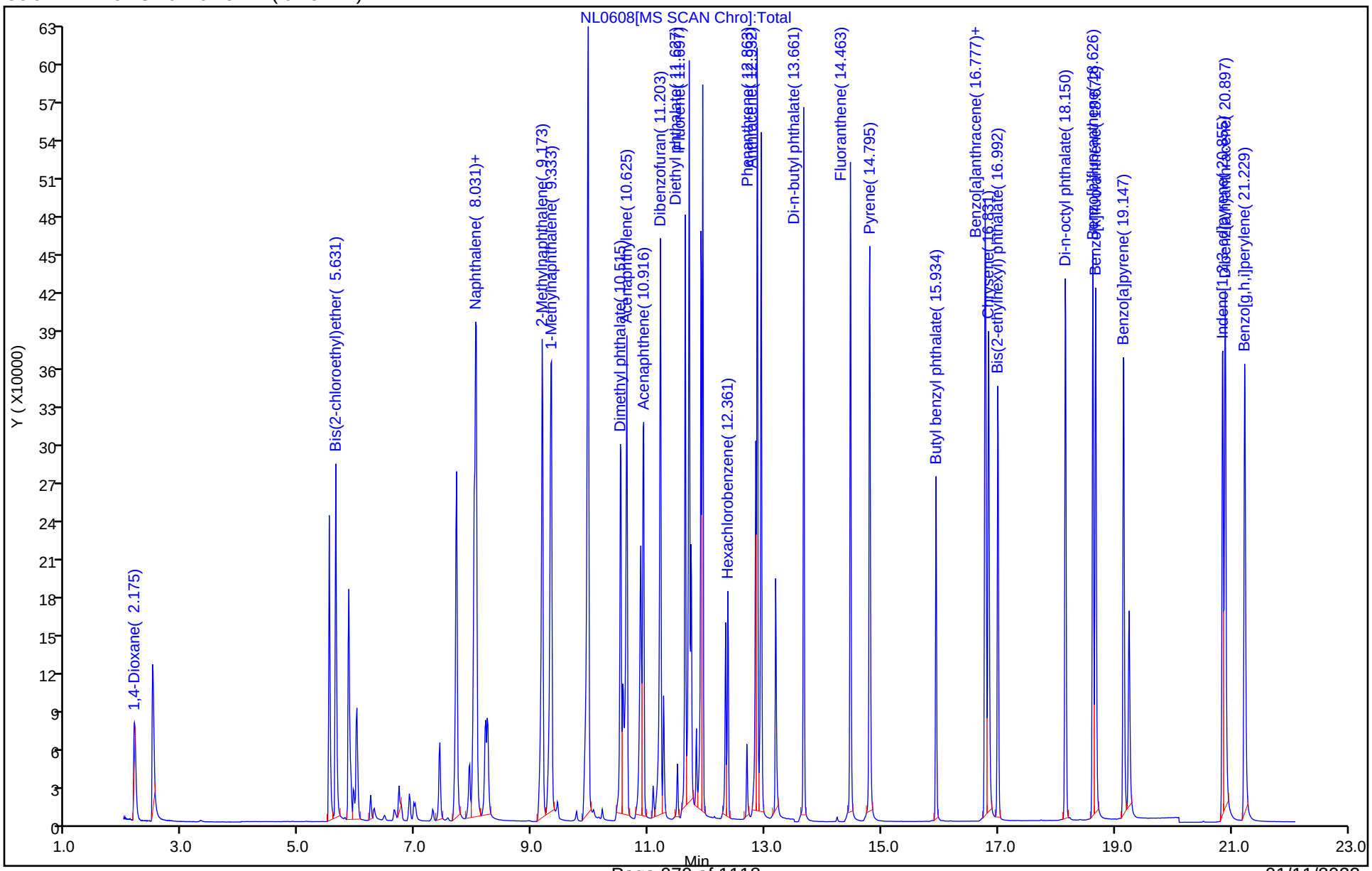
Report Date: 16-Dec-2021 14:16:13 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0608.D

Injection Date:	16-Dec-2021 12:32:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

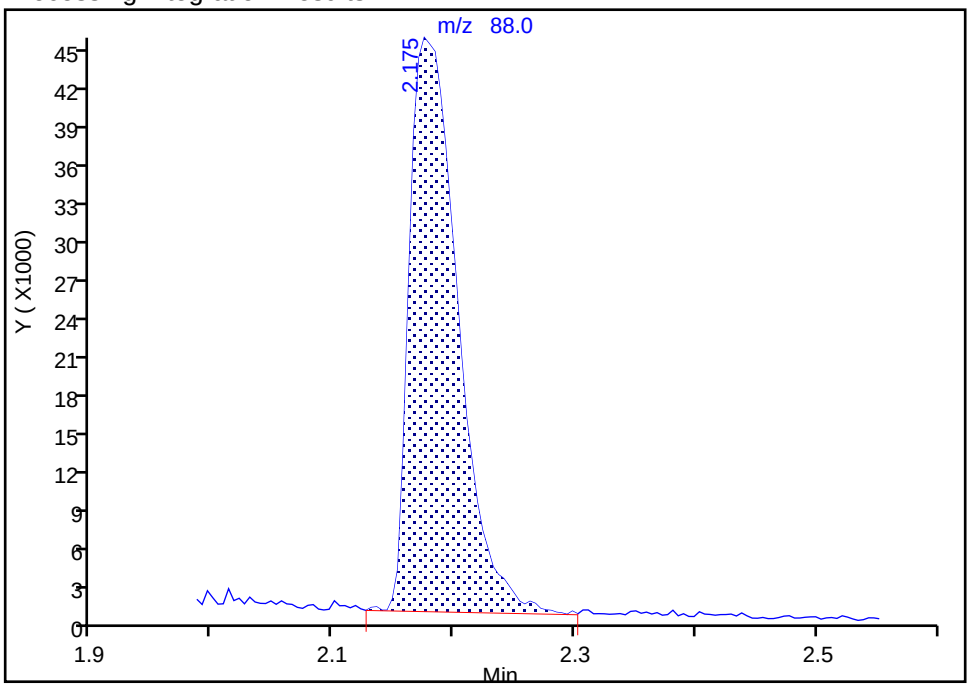
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0608.D
Injection Date: 16-Dec-2021 12:32:30 Instrument ID: HP23263
Lims ID: ICV
Client ID:
Operator ID: jmg00346 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

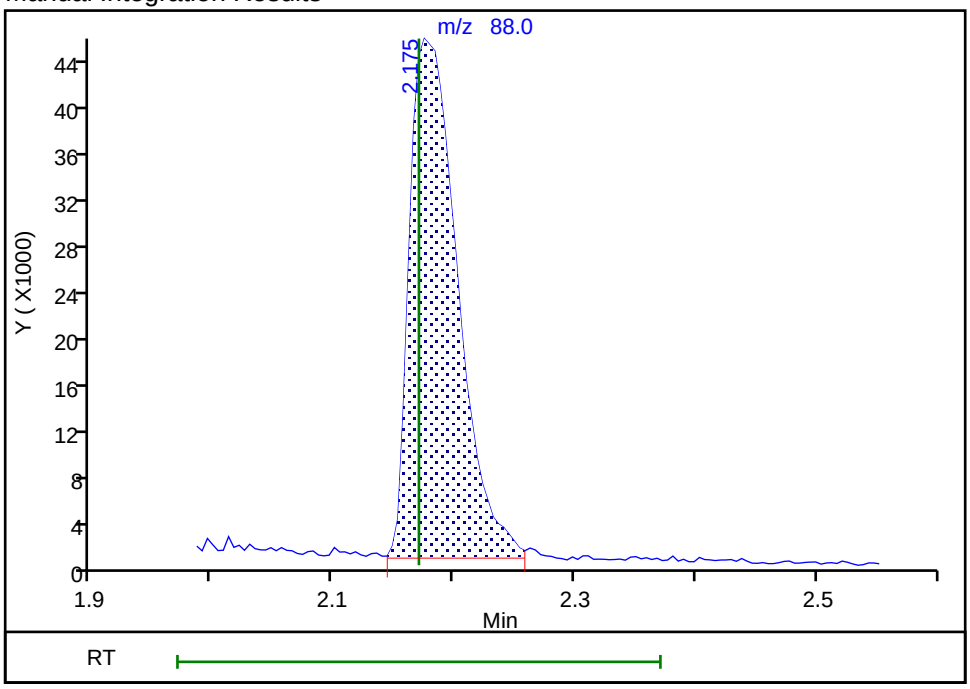
Processing Integration Results

RT: 2.18
Area: 124768
Amount: 0.539874
Amount Units: ug/ml



Manual Integration Results

RT: 2.18
Area: 123748
Amount: 0.484679
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 14:10:22
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

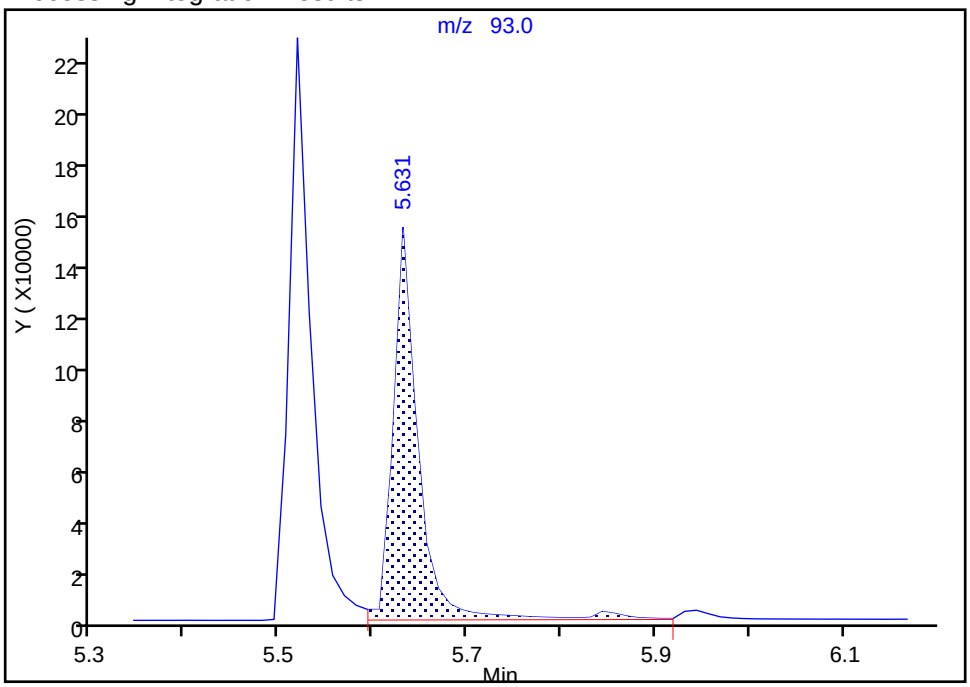
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0608.D
Injection Date: 16-Dec-2021 12:32:30 Instrument ID: HP23263
Lims ID: ICV
Client ID:
Operator ID: jmg00346 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

3 Bis(2-chloroethyl)ether, CAS: 111-44-4

Signal: 1

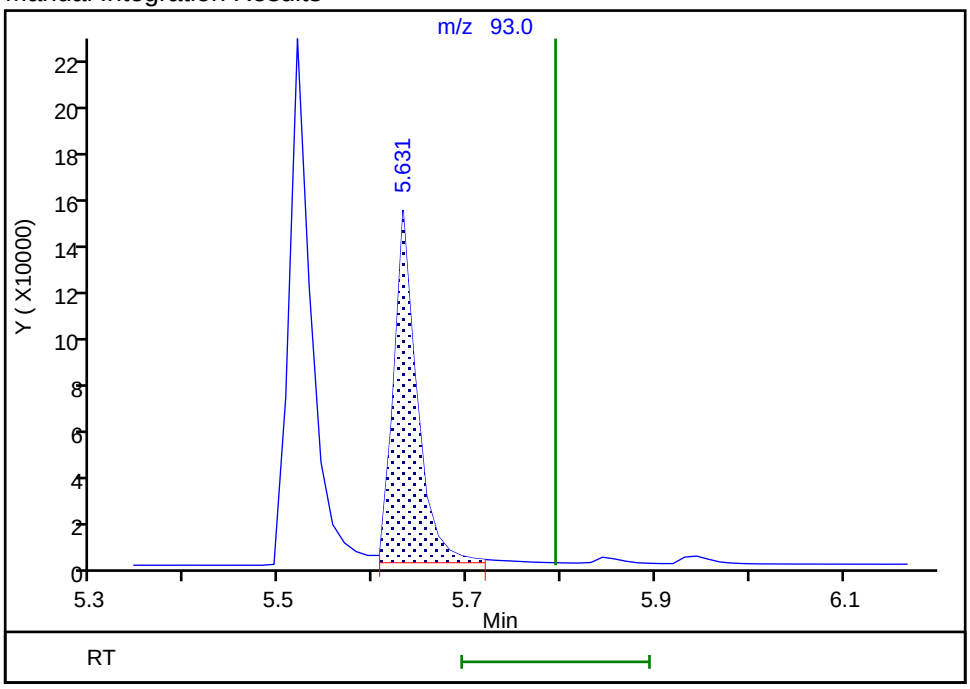
Processing Integration Results

RT: 5.63
Area: 282654
Amount: 0.673607
Amount Units: ug/ml



Manual Integration Results

RT: 5.63
Area: 258713
Amount: 0.616552
Amount Units: ug/ml



Reviewer: transuea, 16-Dec-2021 14:11:04
Audit Action: Manually Integrated Audit Reason: Baseline

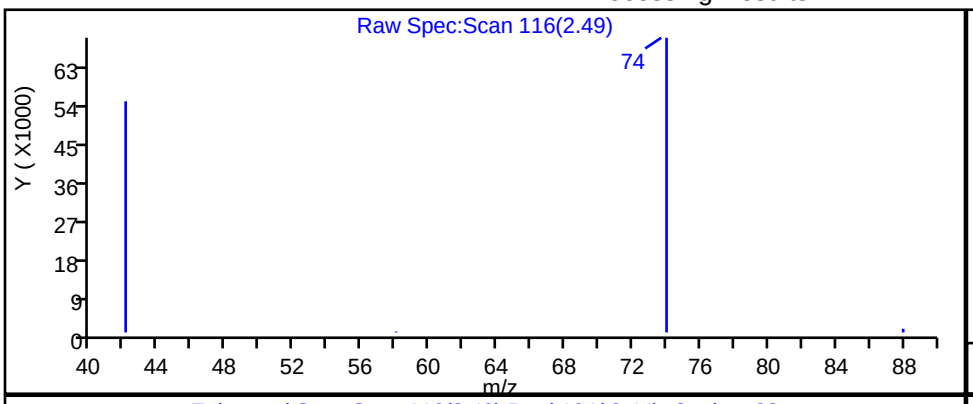
User Disabled Compound Report

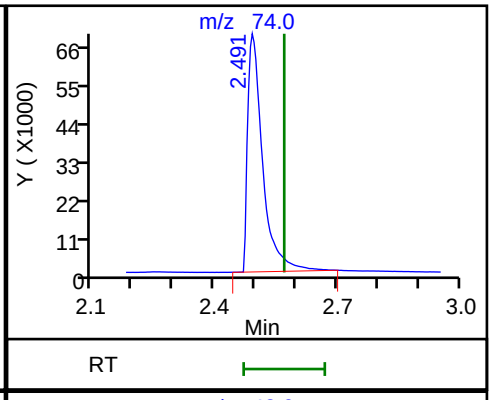
Eurofins Lancaster Laboratories Env, LLC

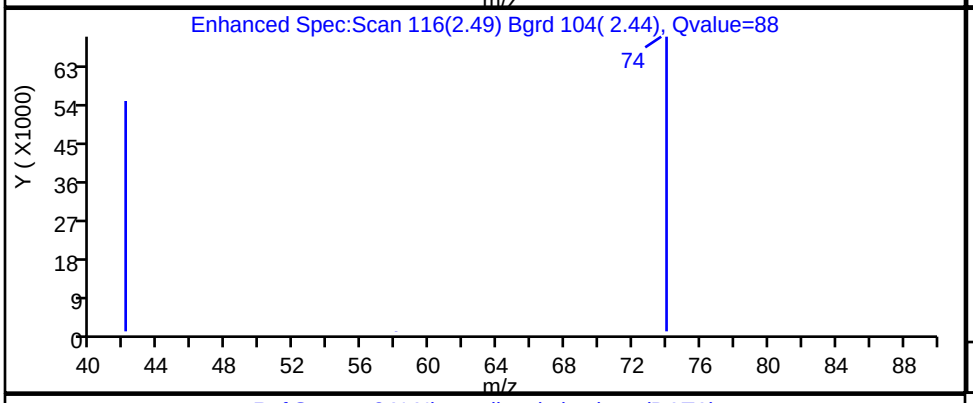
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0608.D
Injection Date: 16-Dec-2021 12:32:30 Instrument ID: HP23263
Lims ID: ICV
Client ID:
Operator ID: jmg00346 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

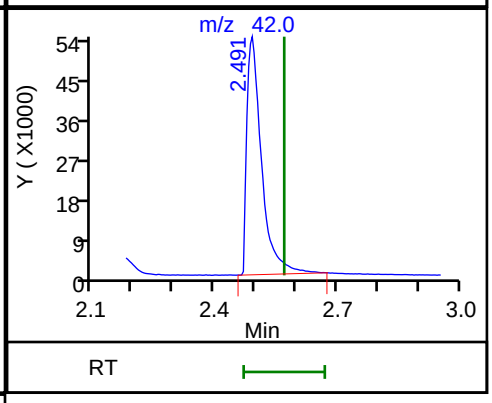
2 N-Nitrosodimethylamine, CAS: 62-75-9

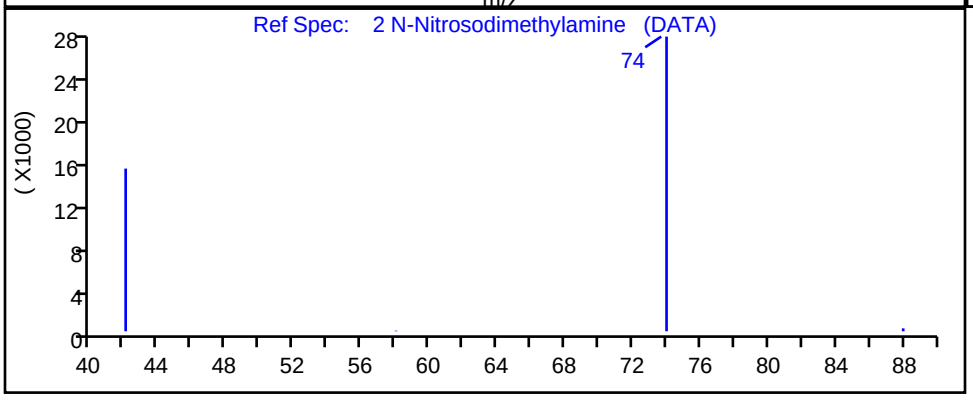
Processing Results











RT	Mass	Response	Amount
2.49	74.00	177838	0.797396
2.49	42.00	136597	

Reviewer: transuea, 16-Dec-2021 14:12:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

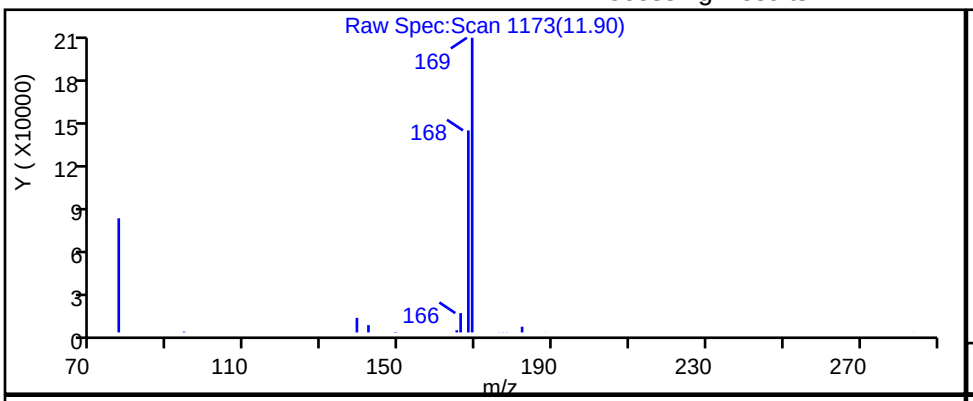
User Disabled Compound Report

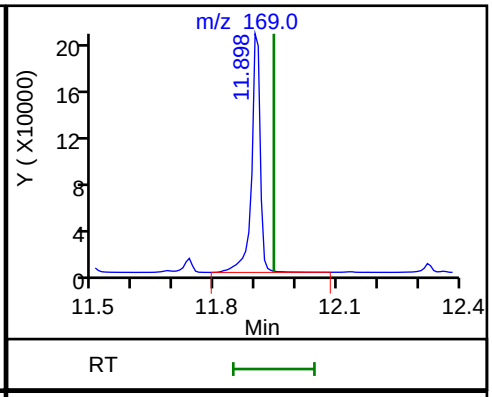
Eurofins Lancaster Laboratories Env, LLC

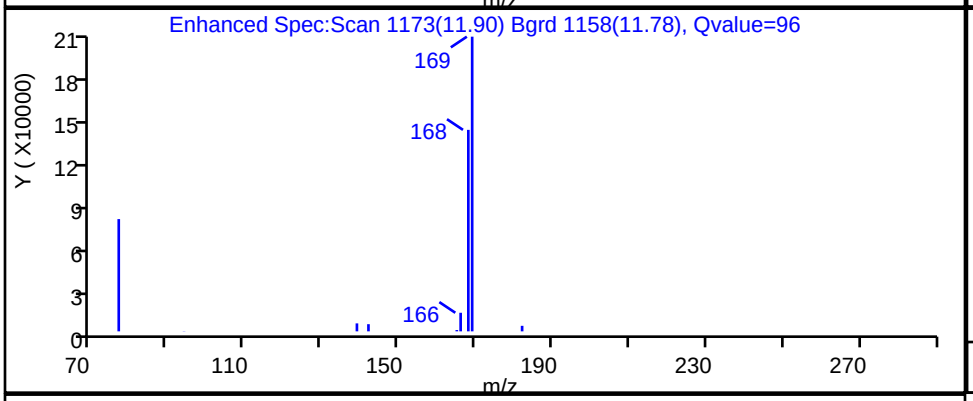
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0608.D				
Injection Date:	16-Dec-2021 12:32:30	Instrument ID:	HP23263		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

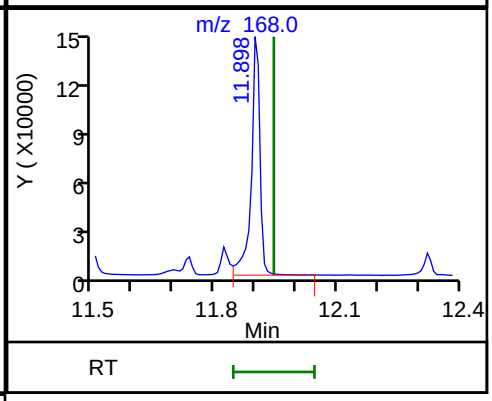
18 N-Nitrosodiphenylamine, CAS: 86-30-6

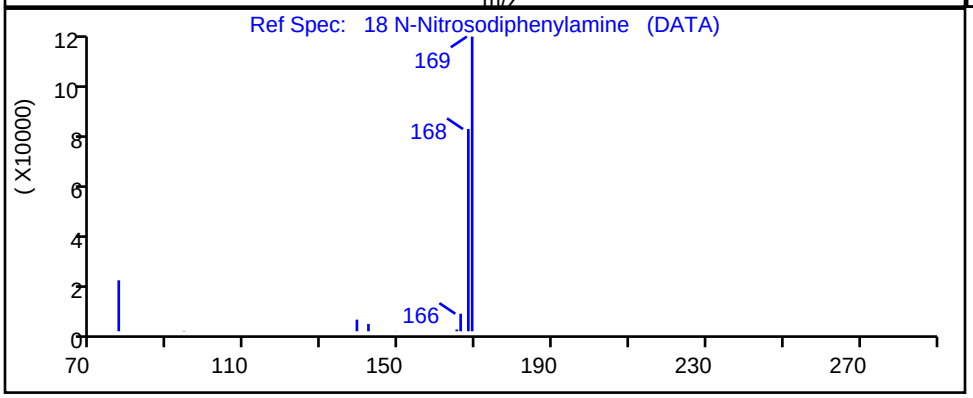
Processing Results











RT	Mass	Response	Amount
11.90	169.00	310736	0.649511
11.90	168.00	208932	

Reviewer: transuea, 16-Dec-2021 14:14:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: ICV 410-206078/11 Calibration Date: 12/16/2021 13:27

Instrument ID: HP23263 Calib Start Date: 12/16/2021 09:13

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/16/2021 11:36

Lab File ID: NL0610.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1-Methylnaphthalene-d10 (Surr)	Ave	0.5306	0.6077		0.229	0.200	14.5	30.0
Fluoranthene-d10 (Surr)	Ave	0.9582	0.995		0.208	0.200	3.9	30.0
Benzo(a)pyrene-d12 (Surr)	Lin2		0.9671		0.215	0.200	7.3	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0610.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 16-Dec-2021 13:27:30 ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0046502-011
Operator ID: jmg00346 Instrument ID: HP23263
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:15:04 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: transuea Date: 16-Dec-2021 14:12:01

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	6.031	5.994	0.037	96	93924	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.006	8.018	-0.012	100	322391	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.273	9.293	-0.020	100	156725	0.2000	0.2291	
* 13 Acenaphthene-d10	164	10.866	10.866	0.000	99	184946	0.2500	0.2500	
* 20 Phenanthrene-d10	188	12.840	12.847	-0.007	99	319696	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.438	14.463	-0.025	99	254581	0.2000	0.2078	
* 29 Chrysene-d12	240	16.800	16.800	0.000	82	253214	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.117	19.124	-0.007	98	192998	0.2000	0.2145	
* 38 Perylene-d12	264	19.247	19.247	0.000	97	249451	0.2500	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_ICV_00027 Amount Added: 1.00 Units: mL

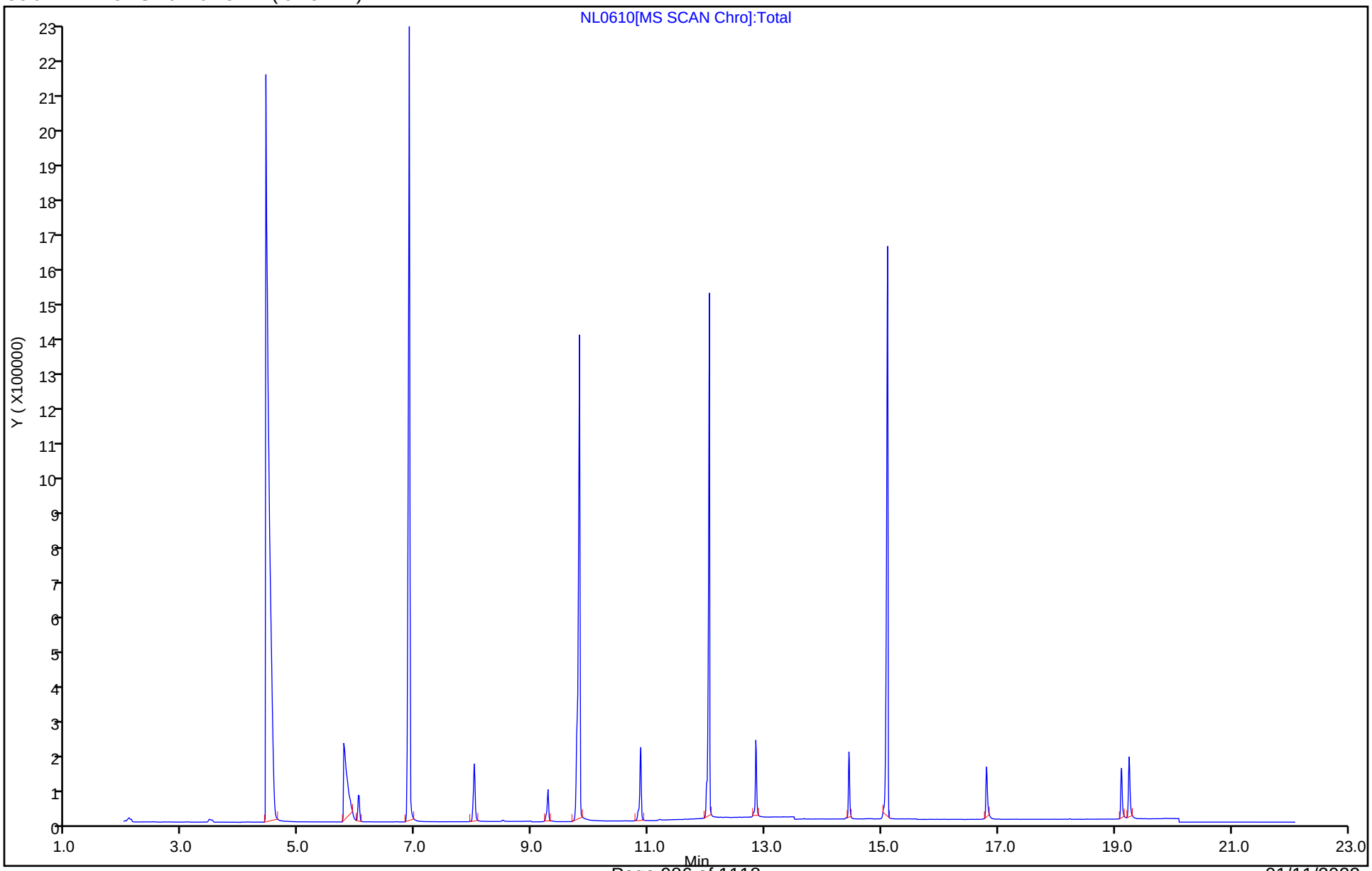
Report Date: 16-Dec-2021 14:16:17 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0610.D

Injection Date:	16-Dec-2021 13:27:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	ICV			Worklist Smp#:	11
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-209113/2 Calibration Date: 12/27/2021 13:26

Instrument ID: HP23263 Calib Start Date: 12/16/2021 09:13

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/16/2021 11:36

Lab File ID: NL1201.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7124	0.7510		0.527	0.500	5.4	20.0
N-Nitrosodimethylamine	Ave	0.6223	0.7533		0.605	0.500	21.0*	20.0
Bis(2-chloroethyl)ether	Ave	0.3359	0.3838		0.571	0.500	14.3	20.0
Naphthalene	Ave	1.045	1.050		0.502	0.500	0.5	20.0
Quinoline	Ave	0.5808	0.5609		0.483	0.500	-3.4	20.0
2-Methylnaphthalene	Ave	0.6671	0.7034		0.527	0.500	5.4	20.0
1-Methylnaphthalene	Ave	0.6695	0.6713		0.501	0.500	0.3	20.0
Dimethylphthalate	Ave	1.201	1.176		2.45	2.50	-2.1	20.0
Acenaphthylene	Ave	1.782	1.849		0.519	0.500	3.7	20.0
Acenaphthene	Ave	1.111	1.183		0.532	0.500	6.5	20.0
Dibenzofuran	Ave	1.626	1.773		0.545	0.500	9.1	20.0
Diethylphthalate	Ave	1.250	1.237		2.47	2.50	-1.0	20.0
Fluorene	Ave	1.305	1.378		0.528	0.500	5.6	20.0
N-Nitrosodiphenylamine	Lin2		0.4644		0.586	0.500	17.2	20.0
Hexachlorobenzene	Ave	0.2829	0.2861		0.506	0.500	1.1	20.0
Phenanthrene	Ave	1.096	1.118		0.510	0.500	2.0	20.0
Anthracene	Ave	1.026	1.069		0.521	0.500	4.2	20.0
Di-n-butyl phthalate	Ave	1.032	1.107		2.68	2.50	7.3	20.0
Fluoranthene	Ave	1.075	1.126		0.524	0.500	4.7	20.0
Pyrene	Ave	1.564	1.547		0.494	0.500	-1.1	20.0
Butylbenzylphthalate	Ave	0.6230	0.6700		2.69	2.50	7.5	20.0
Benzo[a]anthracene	Ave	1.198	1.402		0.585	0.500	17.0	20.0
Chrysene	Lin2		1.350		0.530	0.500	6.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8366	0.9485		2.83	2.50	13.4	20.0
Di-n-octyl phthalate	Ave	1.395	1.531		2.74	2.50	9.7	20.0
Benzo[b]fluoranthene	Ave	1.230	1.302		0.529	0.500	5.8	20.0
Benzo[k]fluoranthene	Ave	1.402	1.441		0.514	0.500	2.8	20.0
Benzo[e]pyrene	Ave	1.249	1.348		0.540	0.500	8.0	20.0
Benzo[a]pyrene	Ave	1.189	1.285		0.540	0.500	8.1	20.0
Perylene	Ave	1.211	1.241		0.512	0.500	2.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.083	1.193		0.550	0.500	10.1	20.0
Dibenz(a,h)anthracene	Ave	1.242	1.327		0.535	0.500	6.9	20.0
Benzo[g,h,i]perylene	Ave	1.370	1.425		0.520	0.500	4.0	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5306	0.5092		0.480	0.500	-4.0	20.0
Fluoranthene-d10 (Surr)	Ave	0.9582	0.9689		0.506	0.500	1.1	20.0
Benzo(a)pyrene-d12 (Surr)	Lin2		0.9920		0.560	0.500	12.0	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1201.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Dec-2021 13:26:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L4
Misc. Info.: 410-0047167-002
Operator ID: whs02991 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 07:07:55 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 07:07:55

	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	1.986	1.986	0.000	98	124202	0.5000	0.5271	
	2 N-Nitrosodimethylamine	74	2.284	2.284	0.000	89	124576	0.5000	0.6052	
	3 Bis(2-chloroethyl)ether	93	5.580	5.580	0.000	100	219494	0.5000	0.5713	
*	4 1,4-Dichlorobenzene-d4	152	5.943	5.943	0.000	94	82688	0.2500	0.2500	
*	5 Naphthalene-d8	136	7.980	7.980	0.000	100	285941	0.2500	0.2500	
	6 Naphthalene	128	8.005	8.005	0.000	99	600575	0.5000	0.5024	
	7 Quinoline	129	8.580	8.580	0.000	97	320781	0.5000	0.4829	
	8 2-Methylnaphthalene	142	9.152	9.152	0.000	99	402266	0.5000	0.5272	
$	9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	291225	0.5000	0.4799	
	10 1-Methylnaphthalene	142	9.302	9.302	0.000	100	383923	0.5000	0.5014	
	11 Dimethyl phthalate	163	10.504	10.504	0.000	100	1823082	2.50	2.45	
	12 Acenaphthylene	152	10.594	10.594	0.000	100	573421	0.5000	0.5187	
*	13 Acenaphthene-d10	164	10.835	10.835	0.000	96	155057	0.2500	0.2500	
	14 Acenaphthene	154	10.885	10.885	0.000	98	366829	0.5000	0.5324	
	15 Dibenzofuran	168	11.178	11.178	0.000	100	549982	0.5000	0.5454	
	16 Diethyl phthalate	149	11.626	11.626	0.000	100	1918034	2.50	2.47	
	17 Fluorene	166	11.696	11.696	0.000	100	427472	0.5000	0.5282	
	18 N-Nitrosodiphenylamine	169	11.912	11.912	0.000	97	256739	0.5000	0.5859	
	19 Hexachlorobenzene	284	12.375	12.375	0.000	93	158142	0.5000	0.5056	
*	20 Phenanthrene-d10	188	12.831	12.831	0.000	99	276421	0.2500	0.2500	
	21 Phenanthrene	178	12.862	12.862	0.000	100	617811	0.5000	0.5100	
	22 Anthracene	178	12.924	12.924	0.000	100	590980	0.5000	0.5211	
	23 Di-n-butyl phthalate	149	13.653	13.653	0.000	100	3060975	2.50	2.68	
$	24 Fluoranthene-d10 (Surr)	212	14.406	14.406	0.000	99	535622	0.5000	0.5056	
	25 Fluoranthene	202	14.431	14.431	0.000	99	622435	0.5000	0.5237	
	26 Pyrene	202	14.757	14.757	0.000	98	675695	0.5000	0.4945	
	27 Butyl benzyl phthalate	149	15.893	15.893	0.000	100	1463183	2.50	2.69	
	28 Benzo[a]anthracene	228	16.721	16.721	0.000	99	612438	0.5000	0.5852	
*	29 Chrysene-d12	240	16.737	16.737	0.000	90	218398	0.2500	0.2500	
	30 Chrysene	228	16.783	16.783	0.000	100	589789	0.5000	0.5304	

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	16.951	16.951	0.000	100	2071464	2.50	2.83	
32 Di-n-octyl phthalate	149	18.102	18.102	0.000	100	3532475	2.50	2.74	
33 Benzo[b]fluoranthene	252	18.554	18.554	0.000	100	600796	0.5000	0.5292	
34 Benzo[k]fluoranthene	252	18.600	18.600	0.000	100	664931	0.5000	0.5140	
35 Benzo[e]pyrene	252	18.991	18.991	0.000	100	622065	0.5000	0.5398	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.045	19.045	0.000	97	457651	0.5000	0.5600	
37 Benzo[a]pyrene	252	19.076	19.076	0.000	100	592626	0.5000	0.5403	
* 38 Perylene-d12	264	19.175	19.175	0.000	96	230675	0.2500	0.2500	
39 Perylene	252	19.214	19.214	0.000	100	572557	0.5000	0.5124	
40 Indeno[1,2,3-cd]pyrene	276	20.775	20.775	0.000	97	550271	0.5000	0.5505	
41 Dibenz(a,h)anthracene	278	20.825	20.825	0.000	98	612357	0.5000	0.5345	
42 Benzo[g,h,i]perylene	276	21.142	21.142	0.000	97	657319	0.5000	0.5199	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

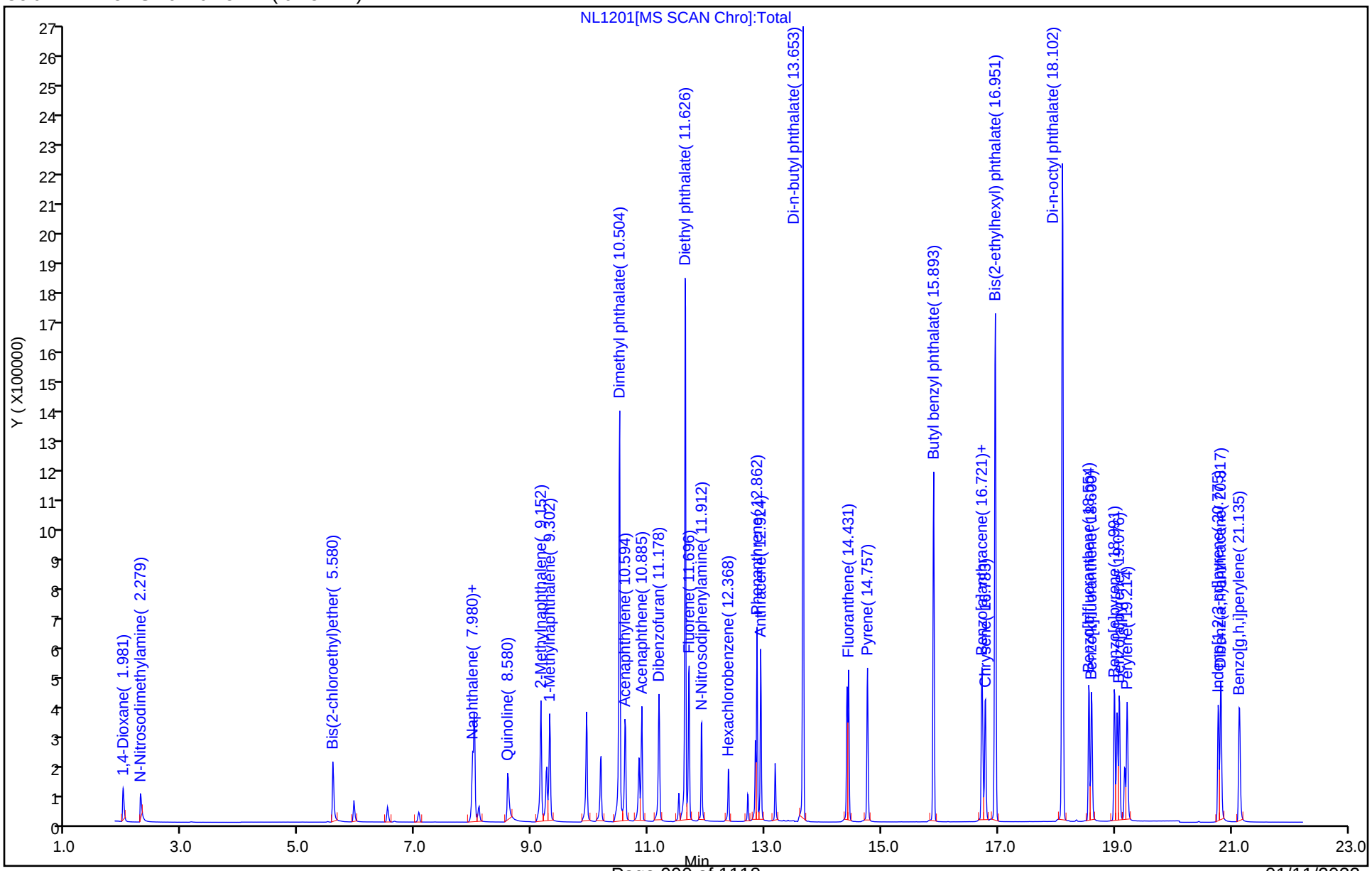
Report Date: 28-Dec-2021 07:07:55 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1201.D

Injection Date:	27-Dec-2021 13:26:30	Instrument ID:	HP23263	Operator ID:	whs02991
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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-209501/2 Calibration Date: 12/28/2021 08:17

Instrument ID: HP23263 Calib Start Date: 12/16/2021 09:13

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/16/2021 11:36

Lab File ID: NL1251.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7124	0.7843		0.550	0.500	10.1	20.0
N-Nitrosodimethylamine	Ave	0.6223	0.7675		0.617	0.500	23.3*	20.0
Bis(2-chloroethyl)ether	Ave	0.3359	0.4021		0.599	0.500	19.7	20.0
Naphthalene	Ave	1.045	1.101		0.527	0.500	5.4	20.0
Quinoline	Ave	0.5808	0.5720		0.492	0.500	-1.5	20.0
2-Methylnaphthalene	Ave	0.6671	0.7318		0.548	0.500	9.7	20.0
1-Methylnaphthalene	Ave	0.6695	0.7052		0.527	0.500	5.3	20.0
Dimethylphthalate	Ave	1.201	1.179		2.45	2.50	-1.8	20.0
Acenaphthylene	Ave	1.782	1.841		0.516	0.500	3.3	20.0
Acenaphthene	Ave	1.111	1.186		0.534	0.500	6.8	20.0
Dibenzofuran	Ave	1.626	1.788		0.550	0.500	9.9	20.0
Diethylphthalate	Ave	1.250	1.220		2.44	2.50	-2.4	20.0
Fluorene	Ave	1.305	1.341		0.514	0.500	2.8	20.0
N-Nitrosodiphenylamine	Lin2		0.4421		0.557	0.500	11.5	20.0
Hexachlorobenzene	Ave	0.2829	0.2918		0.516	0.500	3.2	20.0
Phenanthrene	Ave	1.096	1.157		0.528	0.500	5.6	20.0
Anthracene	Ave	1.026	1.018		0.496	0.500	-0.7	20.0
Di-n-butyl phthalate	Ave	1.032	1.082		2.62	2.50	4.8	20.0
Fluoranthene	Ave	1.075	1.153		0.536	0.500	7.2	20.0
Pyrene	Ave	1.564	1.488		0.476	0.500	-4.9	20.0
Butylbenzylphthalate	Ave	0.6230	0.6364		2.55	2.50	2.1	20.0
Benzo[a]anthracene	Ave	1.198	1.331		0.556	0.500	11.1	20.0
Chrysene	Lin2		1.384		0.544	0.500	8.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8366	0.8872		2.65	2.50	6.1	20.0
Di-n-octyl phthalate	Ave	1.395	1.464		2.62	2.50	4.9	20.0
Benzo[b]fluoranthene	Ave	1.230	1.334		0.542	0.500	8.4	20.0
Benzo[k]fluoranthene	Ave	1.402	1.400		0.499	0.500	-0.1	20.0
Benzo[e]pyrene	Ave	1.249	1.291		0.517	0.500	3.3	20.0
Benzo[a]pyrene	Ave	1.189	1.275		0.536	0.500	7.2	20.0
Perylene	Ave	1.211	1.228		0.507	0.500	1.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.083	1.180		0.545	0.500	8.9	20.0
Dibenz(a,h)anthracene	Ave	1.242	1.326		0.534	0.500	6.8	20.0
Benzo[g,h,i]perylene	Ave	1.370	1.382		0.504	0.500	0.9	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5306	0.5445		0.513	0.500	2.6	20.0
Fluoranthene-d10 (Surr)	Ave	0.9582	0.9697		0.506	0.500	1.2	20.0
Benzo(a)pyrene-d12 (Surr)	Lin2		0.9742		0.550	0.500	10.0	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1251.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Dec-2021 08:17:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L4
Misc. Info.: 410-0047246-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 19:29:15 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1629

First Level Reviewer: transuea Date: 28-Dec-2021 19:29:15

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	1.959	1.959	0.000	100	133203	0.5000	0.5504	
2 N-Nitrosodimethylamine	74	2.257	2.257	0.000	90	130352	0.5000	0.6167	
3 Bis(2-chloroethyl)ether	93	5.605	5.605	0.000	94	235759	0.5000	0.5985	
* 4 1,4-Dichlorobenzene-d4	152	5.968	5.968	0.000	98	84920	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.005	8.005	0.000	100	293157	0.2500	0.2500	
6 Naphthalene	128	8.042	8.042	0.000	100	645786	0.5000	0.5269	
7 Quinoline	129	8.617	8.617	0.000	100	335382	0.5000	0.4924	
8 2-Methylnaphthalene	142	9.182	9.182	0.000	99	429049	0.5000	0.5484	
$ 9 1-Methylnaphthalene-d10	152	9.282	9.282	0.000	100	319222	0.5000	0.5131	
10 1-Methylnaphthalene	142	9.332	9.332	0.000	100	413473	0.5000	0.5267	
11 Dimethyl phthalate	163	10.534	10.534	0.000	100	1928183	2.50	2.45	
12 Acenaphthylene	152	10.634	10.634	0.000	98	601962	0.5000	0.5164	
* 13 Acenaphthene-d10	164	10.865	10.865	0.000	95	163504	0.2500	0.2500	
14 Acenaphthene	154	10.915	10.915	0.000	98	387929	0.5000	0.5340	
15 Dibenzofuran	168	11.209	11.209	0.000	100	584592	0.5000	0.5497	
16 Diethyl phthalate	149	11.665	11.665	0.000	99	1994802	2.50	2.44	
17 Fluorene	166	11.727	11.727	0.000	100	438676	0.5000	0.5140	
18 N-Nitrosodiphenylamine	169	11.943	11.943	0.000	99	258244	0.5000	0.5573	
19 Hexachlorobenzene	284	12.406	12.406	0.000	98	170471	0.5000	0.5158	
* 20 Phenanthrene-d10	188	12.870	12.870	0.000	100	292077	0.2500	0.2500	
21 Phenanthrene	178	12.893	12.893	0.000	100	675761	0.5000	0.5279	
22 Anthracene	178	12.962	12.962	0.000	100	594890	0.5000	0.4964	
23 Di-n-butyl phthalate	149	13.686	13.686	0.000	100	3159882	2.50	2.62	
$ 24 Fluoranthene-d10 (Surr)	212	14.438	14.438	0.000	98	566440	0.5000	0.5060	
25 Fluoranthene	202	14.463	14.463	0.000	98	673394	0.5000	0.5362	
26 Pyrene	202	14.783	14.783	0.000	98	730845	0.5000	0.4757	
27 Butyl benzyl phthalate	149	15.919	15.919	0.000	100	1562613	2.50	2.55	
28 Benzo[a]anthracene	228	16.747	16.747	0.000	99	653872	0.5000	0.5557	
* 29 Chrysene-d12	240	16.762	16.762	0.000	98	245558	0.2500	0.2500	
30 Chrysene	228	16.801	16.801	0.000	100	679583	0.5000	0.5437	

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	16.977	16.977	0.000	100	2178528	2.50	2.65	
32 Di-n-octyl phthalate	149	18.135	18.135	0.000	100	3811977	2.50	2.62	
33 Benzo[b]fluoranthene	252	18.580	18.580	0.000	100	694453	0.5000	0.5419	
34 Benzo[k]fluoranthene	252	18.626	18.626	0.000	100	729134	0.5000	0.4993	
35 Benzo[e]pyrene	252	19.017	19.017	0.000	100	672180	0.5000	0.5167	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.063	19.063	0.000	98	507325	0.5000	0.5498	
37 Benzo[a]pyrene	252	19.101	19.101	0.000	100	663829	0.5000	0.5362	
* 38 Perylene-d12	264	19.194	19.194	0.000	97	260382	0.2500	0.2500	
39 Perylene	252	19.240	19.240	0.000	100	639504	0.5000	0.5070	
40 Indeno[1,2,3-cd]pyrene	276	20.798	20.798	0.000	97	614446	0.5000	0.5445	
41 Dibenz(a,h)anthracene	278	20.841	20.841	0.000	98	690432	0.5000	0.5339	
42 Benzo[g,h,i]perylene	276	21.159	21.159	0.000	98	719828	0.5000	0.5044	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_4_00019 Amount Added: 1.00 Units: mL

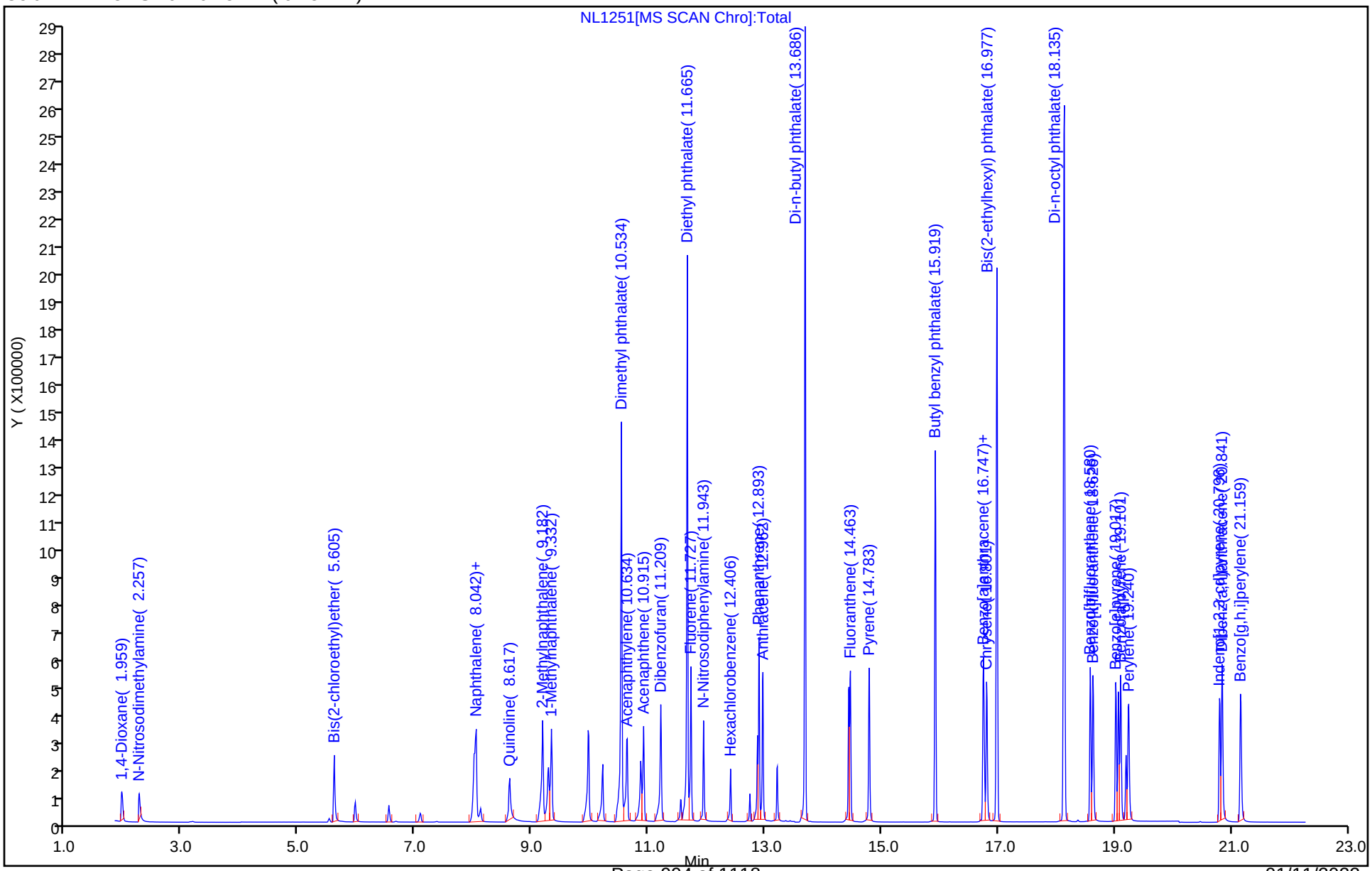
Report Date: 28-Dec-2021 19:29:16 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1251.D

Injection Date:	28-Dec-2021 08:17:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-210397/2 Calibration Date: 12/30/2021 05:41

Instrument ID: HP23263 Calib Start Date: 12/16/2021 09:13

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/16/2021 11:36

Lab File ID: NL1471.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7124	0.3694		0.519	1.00	-48.1*	20.0
N-Nitrosodimethylamine	Ave	0.6223	0.3430		0.551	1.00	-44.9*	20.0
Bis(2-chloroethyl)ether	Ave	0.3359	0.2504		0.746	1.00	-25.4*	20.0
Naphthalene	Ave	1.045	0.9877		0.945	1.00	-5.5	20.0
Quinoline	Ave	0.5808	0.6360		1.10	1.00	9.5	20.0
2-Methylnaphthalene	Ave	0.6671	0.6904		1.03	1.00	3.5	20.0
1-Methylnaphthalene	Ave	0.6695	0.6353		0.949	1.00	-5.1	20.0
Dimethylphthalate	Ave	1.201	1.432		5.96	5.00	19.2	20.0
Acenaphthylene	Ave	1.782	1.899		1.07	1.00	6.6	20.0
Acenaphthene	Ave	1.111	1.159		1.04	1.00	4.4	20.0
Dibenzofuran	Ave	1.626	1.804		1.11	1.00	10.9	20.0
Diethylphthalate	Ave	1.250	1.513		6.05	5.00	21.0*	20.0
Fluorene	Ave	1.305	1.454		1.11	1.00	11.4	20.0
N-Nitrosodiphenylamine	Lin2		0.4670		1.19	1.00	18.7	20.0
Hexachlorobenzene	Ave	0.2829	0.4699		1.66	1.00	66.1*	20.0
Phenanthrene	Ave	1.096	1.131		1.03	1.00	3.2	20.0
Anthracene	Ave	1.026	1.050		1.02	1.00	2.4	20.0
Di-n-butyl phthalate	Ave	1.032	1.250		6.05	5.00	21.1*	20.0
Fluoranthene	Ave	1.075	1.226		1.14	1.00	14.1	20.0
Pyrene	Ave	1.564	1.386		0.886	1.00	-11.4	20.0
Butylbenzylphthalate	Ave	0.6230	0.6436		5.16	5.00	3.3	20.0
Benzo[a]anthracene	Ave	1.198	1.389		1.16	1.00	15.9	20.0
Chrysene	Lin2		1.309		1.03	1.00	3.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8366	0.9151		5.47	5.00	9.4	20.0
Di-n-octyl phthalate	Ave	1.395	1.364		4.89	5.00	-2.2	20.0
Benzo[b]fluoranthene	Ave	1.230	1.393		1.13	1.00	13.2	20.0
Benzo[k]fluoranthene	Ave	1.402	1.292		0.921	1.00	-7.9	20.0
Benzo[e]pyrene	Ave	1.249	1.270		1.02	1.00	1.7	20.0
Benzo[a]pyrene	Ave	1.189	1.236		1.04	1.00	4.0	20.0
Perylene	Ave	1.211	1.219		1.01	1.00	0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.083	1.291		1.19	1.00	19.2	20.0
Dibenz(a,h)anthracene	Ave	1.242	1.362		1.10	1.00	9.7	20.0
Benzo[g,h,i]perylene	Ave	1.370	1.440		1.05	1.00	5.1	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5306	0.4649		0.876	1.00	-12.4	20.0
Fluoranthene-d10 (Surr)	Ave	0.9582	0.9398		0.981	1.00	-1.9	20.0
Benzo(a)pyrene-d12 (Surr)	Lin2		0.8798		0.998	1.00	-0.2	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1471.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Dec-2021 05:41:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L4
Misc. Info.: 410-0047435-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:05:06 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 14:05:06

	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	1.886	1.886	0.000	96	83709	1.00	0.5186	
	2 N-Nitrosodimethylamine	74	2.175	2.175	0.000	65	77730	1.00	0.5512	
	3 Bis(2-chloroethyl)ether	93	5.556	5.556	0.000	87	172766	1.00	0.7455	
*	4 1,4-Dichlorobenzene-d4	152	5.919	5.919	0.000	100	56648	0.2500	0.2500	
*	5 Naphthalene-d8	136	7.956	7.956	0.000	100	172469	0.2500	0.2500	
	6 Naphthalene	128	7.993	7.993	0.000	100	681418	1.00	0.9450	
	7 Quinoline	129	8.555	8.555	0.000	99	438781	1.00	1.10	
	8 2-Methylnaphthalene	142	9.133	9.133	0.000	99	476302	1.00	1.03	
$	9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	99	320736	1.00	0.8763	
	10 1-Methylnaphthalene	142	9.283	9.283	0.000	98	438270	1.00	0.9489	
	11 Dimethyl phthalate	163	10.495	10.495	0.000	98	2639811	5.00	5.96	
	12 Acenaphthylene	152	10.585	10.585	0.000	96	700093	1.00	1.07	
*	13 Acenaphthene-d10	164	10.816	10.816	0.000	90	92146	0.2500	0.2500	
	14 Acenaphthene	154	10.866	10.866	0.000	95	427275	1.00	1.04	
	15 Dibenzofuran	168	11.164	11.164	0.000	100	664892	1.00	1.11	
	16 Diethyl phthalate	149	11.627	11.627	0.000	99	2787917	5.00	6.05	
	17 Fluorene	166	11.681	11.681	0.000	99	535831	1.00	1.11	
	18 N-Nitrosodiphenylamine	169	11.905	11.905	0.000	97	331270	1.00	1.19	
	19 Hexachlorobenzene	284	12.369	12.369	0.000	94	333340	1.00	1.66	
*	20 Phenanthrene-d10	188	12.832	12.832	0.000	100	177334	0.2500	0.2500	
	21 Phenanthrene	178	12.855	12.855	0.000	100	802348	1.00	1.03	
	22 Anthracene	178	12.917	12.917	0.000	100	744873	1.00	1.02	
	23 Di-n-butyl phthalate	149	13.648	13.648	0.000	100	4432114	5.00	6.05	
$	24 Fluoranthene-d10 (Surr)	212	14.388	14.388	0.000	96	666612	1.00	0.9808	
	25 Fluoranthene	202	14.413	14.413	0.000	96	869709	1.00	1.14	
	26 Pyrene	202	14.732	14.732	0.000	95	913242	1.00	0.8863	
	27 Butyl benzyl phthalate	149	15.872	15.872	0.000	100	2119701	5.00	5.16	
	28 Benzo[a]anthracene	228	16.685	16.685	0.000	99	914723	1.00	1.16	
*	29 Chrysene-d12	240	16.700	16.700	0.000	41	164688	0.2500	0.2500	
	30 Chrysene	228	16.746	16.746	0.000	100	862453	1.00	1.03	

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	16.931	16.931	0.000	99	3014169	5.00	5.47	
32 Di-n-octyl phthalate	149	18.081	18.081	0.000	100	5257096	5.00	4.89	
33 Benzo[b]fluoranthene	252	18.526	18.526	0.000	100	1073432	1.00	1.13	
34 Benzo[k]fluoranthene	252	18.572	18.572	0.000	99	995573	1.00	0.9214	
35 Benzo[e]pyrene	252	18.963	18.963	0.000	100	978430	1.00	1.02	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.009	19.009	0.000	96	677983	1.00	1.00	
37 Benzo[a]pyrene	252	19.047	19.047	0.000	100	952855	1.00	1.04	
* 38 Perylene-d12	264	19.139	19.139	0.000	94	192663	0.2500	0.2500	
39 Perylene	252	19.178	19.178	0.000	100	939382	1.00	1.01	
40 Indeno[1,2,3-cd]pyrene	276	20.741	20.741	0.000	93	994840	1.00	1.19	
41 Dibenz(a,h)anthracene	278	20.784	20.784	0.000	95	1049341	1.00	1.10	
42 Benzo[g,h,i]perylene	276	21.102	21.102	0.000	93	1109830	1.00	1.05	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_5_00014 Amount Added: 1.00 Units: mL

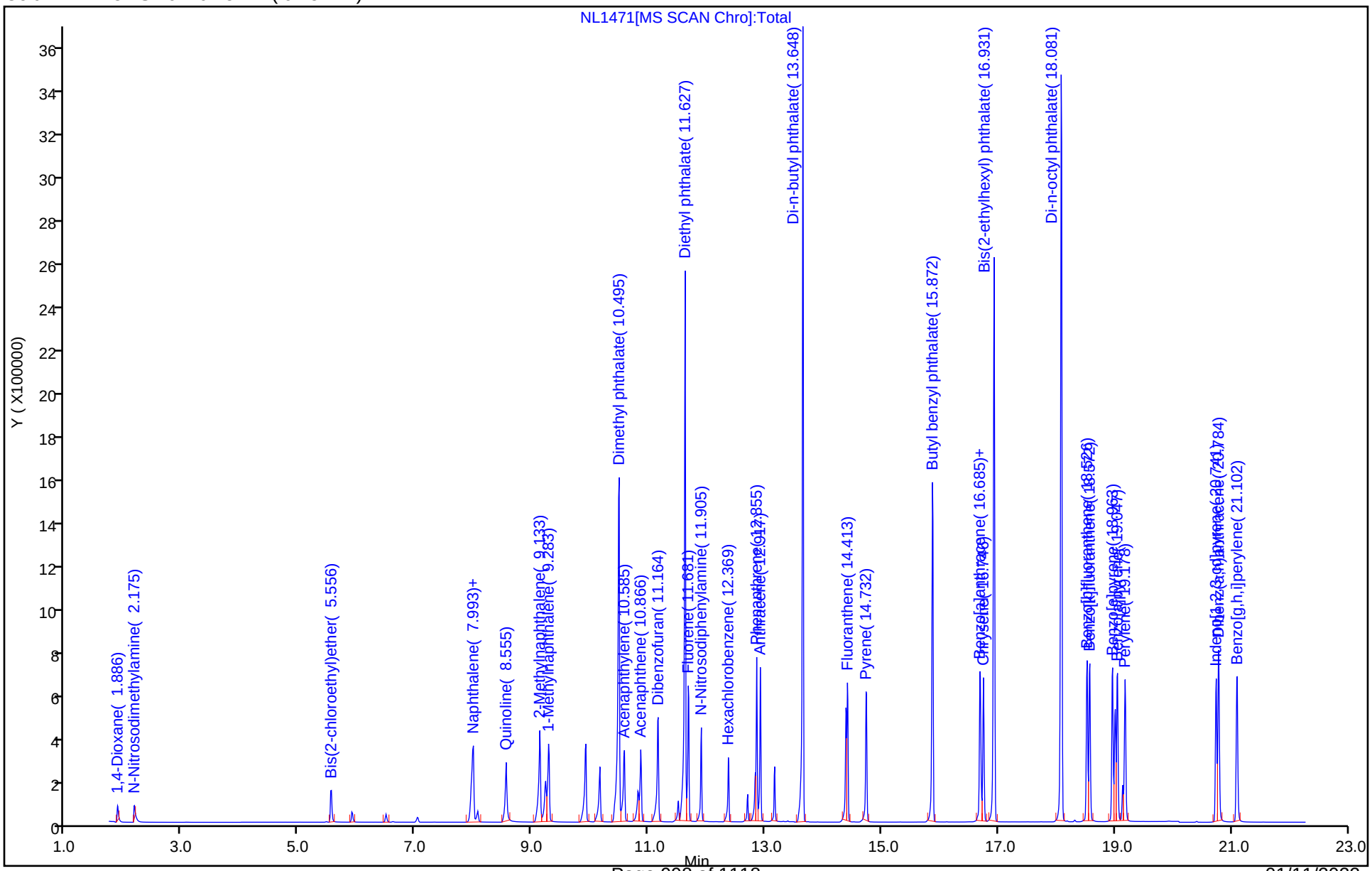
Report Date: 31-Dec-2021 14:05:07 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1471.D

Injection Date:	30-Dec-2021 05:41:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Lab Sample ID: CCVIS 410-210939/2 Calibration Date: 01/03/2022 06:06

Instrument ID: HP23263 Calib Start Date: 12/16/2021 09:13

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 12/16/2021 11:36

Lab File ID: NA0001.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7124	0.4591		0.644	1.00	-35.6*	20.0
N-Nitrosodimethylamine	Ave	0.6223	0.3793		0.609	1.00	-39.1*	20.0
Bis(2-chloroethyl)ether	Ave	0.3359	0.2474		0.736	1.00	-26.4*	20.0
Naphthalene	Ave	1.045	1.020		0.976	1.00	-2.4	20.0
Quinoline	Ave	0.5808	0.6347		1.09	1.00	9.3	20.0
2-Methylnaphthalene	Ave	0.6671	0.6816		1.02	1.00	2.2	20.0
1-Methylnaphthalene	Ave	0.6695	0.6311		0.943	1.00	-5.7	20.0
Dimethylphthalate	Ave	1.201	1.435		5.97	5.00	19.5	20.0
Acenaphthylene	Ave	1.782	1.944		1.09	1.00	9.1	20.0
Acenaphthene	Ave	1.111	1.164		1.05	1.00	4.8	20.0
Dibenzofuran	Ave	1.626	1.733		1.07	1.00	6.6	20.0
Diethylphthalate	Ave	1.250	1.549		6.19	5.00	23.9*	20.0
Fluorene	Ave	1.305	1.454		1.11	1.00	11.5	20.0
N-Nitrosodiphenylamine	Lin2		0.4538		1.15	1.00	15.3	20.0
Hexachlorobenzene	Ave	0.2829	0.4638		1.64	1.00	64.0*	20.0
Phenanthrene	Ave	1.096	1.144		1.04	1.00	4.4	20.0
Anthracene	Ave	1.026	1.016		0.990	1.00	-1.0	20.0
Di-n-butyl phthalate	Ave	1.032	1.262		6.11	5.00	22.3*	20.0
Fluoranthene	Ave	1.075	1.251		1.16	1.00	16.4	20.0
Pyrene	Ave	1.564	1.361		0.870	1.00	-13.0	20.0
Butylbenzylphthalate	Ave	0.6230	0.6656		5.34	5.00	6.8	20.0
Benzo[a]anthracene	Ave	1.198	1.369		1.14	1.00	14.3	20.0
Chrysene	Lin2		1.301		1.03	1.00	2.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.8366	0.9394		5.61	5.00	12.3	20.0
Di-n-octyl phthalate	Ave	1.395	1.357		4.86	5.00	-2.8	20.0
Benzo[b]fluoranthene	Ave	1.230	1.334		1.08	1.00	8.4	20.0
Benzo[k]fluoranthene	Ave	1.402	1.291		0.920	1.00	-8.0	20.0
Benzo[e]pyrene	Ave	1.249	1.237		0.991	1.00	-0.9	20.0
Benzo[a]pyrene	Ave	1.189	1.164		0.979	1.00	-2.1	20.0
Perylene	Ave	1.211	1.200		0.991	1.00	-0.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.083	1.165		1.08	1.00	7.6	20.0
Dibenz(a,h)anthracene	Ave	1.242	1.239		0.998	1.00	-0.2	20.0
Benzo[g,h,i]perylene	Ave	1.370	1.348		0.984	1.00	-1.6	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5306	0.4718		0.889	1.00	-11.1	20.0
Fluoranthene-d10 (Surr)	Ave	0.9582	0.9472		0.989	1.00	-1.1	20.0
Benzo(a)pyrene-d12 (Surr)	Lin2		0.8522		0.967	1.00	-3.3	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0001.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Jan-2022 06:06:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS L5
Misc. Info.: 410-0047551-002
Operator ID: jmg00346 Instrument ID: HP23263
Sublist: chrom-8270_SIM_HP23263*sub3

Method: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jan-2022 06:49:00 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1670

First Level Reviewer: gamblerj Date: 03-Jan-2022 06:48:55

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	1.864	1.864	0.000	96	95861	1.00	0.6444	
2 N-Nitrosodimethylamine	74	2.149	2.149	0.000	67	79198	1.00	0.6094	
3 Bis(2-chloroethyl)ether	93	5.531	5.531	0.000	92	158658	1.00	0.7365	
* 4 1,4-Dichlorobenzene-d4	152	5.893	5.893	0.000	92	52206	0.2500	0.2500	
* 5 Naphthalene-d8	136	7.943	7.943	0.000	99	160333	0.2500	0.2500	
6 Naphthalene	128	7.968	7.968	0.000	99	654271	1.00	0.9761	
7 Quinoline	129	8.543	8.543	0.000	100	407080	1.00	1.09	
8 2-Methylnaphthalene	142	9.123	9.123	0.000	99	437139	1.00	1.02	
$ 9 1-Methylnaphthalene-d10	152	9.213	9.213	0.000	99	302600	1.00	0.8893	
10 1-Methylnaphthalene	142	9.273	9.273	0.000	100	404721	1.00	0.9426	
11 Dimethyl phthalate	163	10.475	10.475	0.000	100	2488095	5.00	5.97	
12 Acenaphthylene	152	10.565	10.565	0.000	96	673980	1.00	1.09	
* 13 Acenaphthene-d10	164	10.806	10.806	0.000	96	86672	0.2500	0.2500	
14 Acenaphthene	154	10.856	10.856	0.000	92	403475	1.00	1.05	
15 Dibenzofuran	168	11.146	11.146	0.000	77	600677	1.00	1.07	
16 Diethyl phthalate	149	11.612	11.612	0.000	100	2684435	5.00	6.19	
17 Fluorene	166	11.673	11.673	0.000	100	504224	1.00	1.11	
18 N-Nitrosodiphenylamine	169	11.890	11.890	0.000	98	313207	1.00	1.15	
19 Hexachlorobenzene	284	12.361	12.361	0.000	90	320127	1.00	1.64	
* 20 Phenanthrene-d10	188	12.816	12.816	0.000	100	172563	0.2500	0.2500	
21 Phenanthrene	178	12.840	12.840	0.000	100	789327	1.00	1.04	
22 Anthracene	178	12.909	12.909	0.000	100	701201	1.00	0.99	
23 Di-n-butyl phthalate	149	13.635	13.635	0.000	100	4354905	5.00	6.11	
$ 24 Fluoranthene-d10 (Surr)	212	14.375	14.375	0.000	96	653792	1.00	0.9885	
25 Fluoranthene	202	14.400	14.400	0.000	96	863561	1.00	1.16	
26 Pyrene	202	14.720	14.720	0.000	95	919679	1.00	0.8699	
27 Butyl benzyl phthalate	149	15.857	15.857	0.000	100	2249376	5.00	5.34	
28 Benzo[a]anthracene	228	16.677	16.677	0.000	100	925630	1.00	1.14	
* 29 Chrysene-d12	240	16.693	16.693	0.000	84	168982	0.2500	0.2500	
30 Chrysene	228	16.731	16.731	0.000	100	879665	1.00	1.03	

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	16.915	16.915	0.000	99	3174697	5.00	5.61	
32 Di-n-octyl phthalate	149	18.066	18.066	0.000	100	5519167	5.00	4.86	
33 Benzo[b]fluoranthene	252	18.510	18.510	0.000	100	1084969	1.00	1.08	
34 Benzo[k]fluoranthene	252	18.556	18.556	0.000	100	1049875	1.00	0.9205	
35 Benzo[e]pyrene	252	18.948	18.948	0.000	100	1006432	1.00	0.99	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	18.994	18.994	0.000	96	693247	1.00	0.9666	
37 Benzo[a]pyrene	252	19.032	19.032	0.000	100	947058	1.00	0.9793	
* 38 Perylene-d12	264	19.124	19.124	0.000	94	203376	0.2500	0.2500	
39 Perylene	252	19.162	19.162	0.000	100	976119	1.00	0.99	
40 Indeno[1,2,3-cd]pyrene	276	20.720	20.720	0.000	94	947925	1.00	1.08	
41 Dibenz(a,h)anthracene	278	20.770	20.770	0.000	93	1008032	1.00	1.00	
42 Benzo[g,h,i]perylene	276	21.080	21.080	0.000	93	1096461	1.00	0.9836	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_5_00014 Amount Added: 1.00 Units: mL

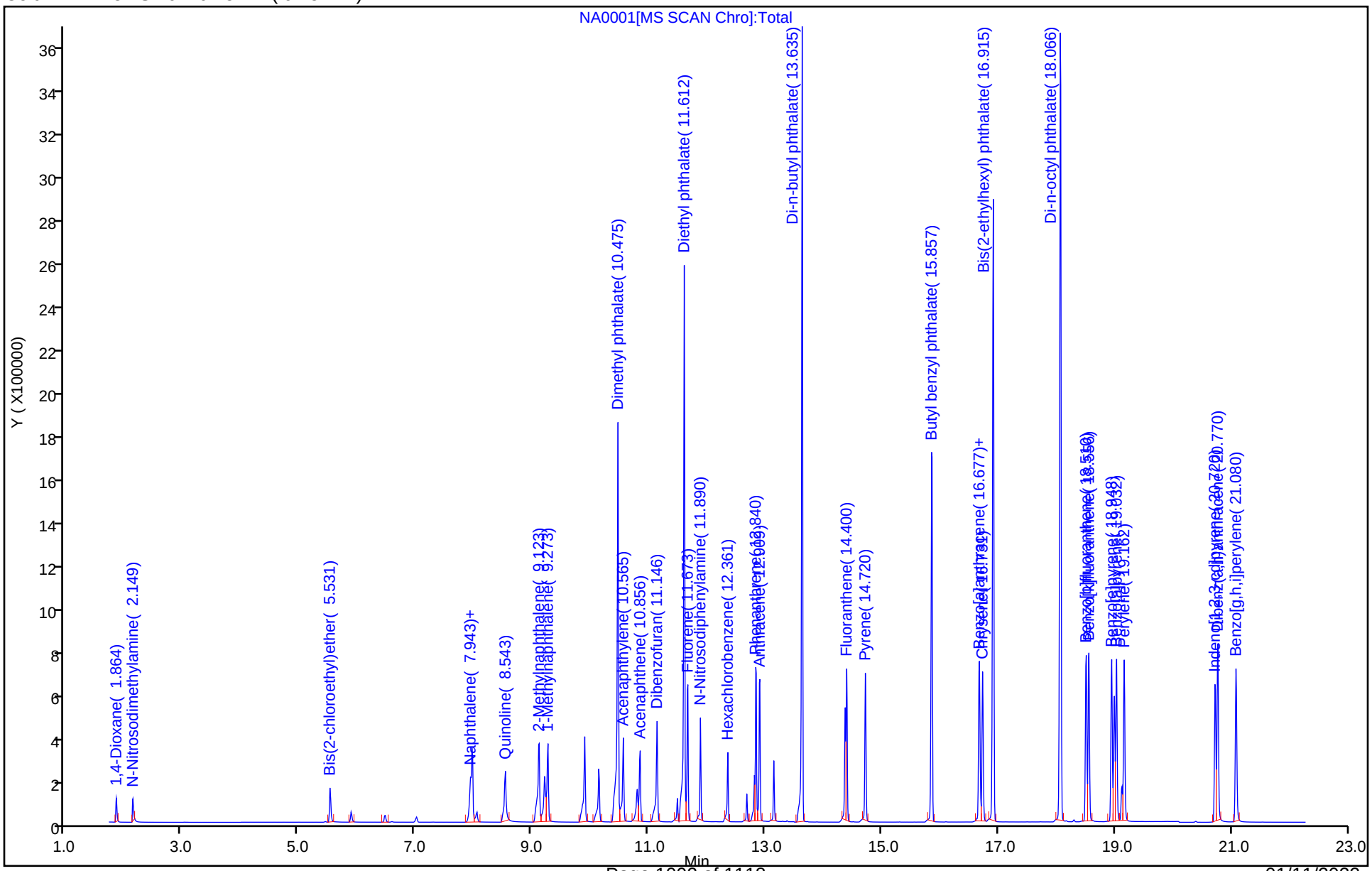
Report Date: 03-Jan-2022 06:49:00 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0001.D

Injection Date:	03-Jan-2022 06:06:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 21-Dec-2021 09:37:15 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0046894-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 21-Dec-2021 17:54:25 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1678

First Level Reviewer: transuea Date: 21-Dec-2021 17:54:25

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	2389463	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.233	6.233	0.000	0	7169911	NR	NR	
47 4,4'-DDE	246	6.376	6.376	0.000	0	12092		NR	
48 4,4'-DDD	235	6.662	6.662	0.000	0	54499		NR	
49 4,4'-DDT	235	6.919	6.919	0.000	0	4457803	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

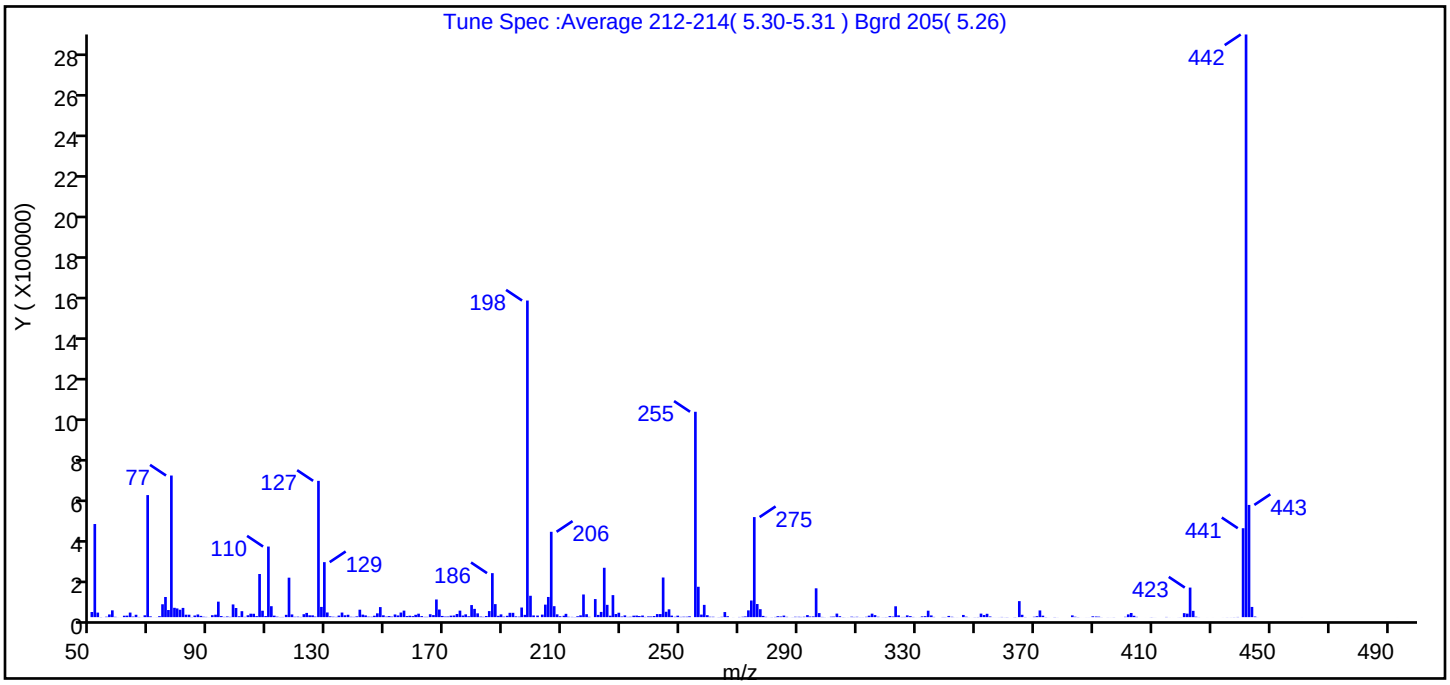
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D
Injection Date: 21-Dec-2021 09:37:15 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 (54.3)
51	10-80% of the base peak	29.4
68	<2% of mass 69	0.6 (1.5)
69	Present	38.6
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	43.0
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.7
275	10-60% of the base peak	31.6
365	>1% of mass 198	5.1
441	present but <24% of mass 442	28.1 (15.3)
442	base peak, or >50% of 198	184.0
443	15-24% of mass 442	35.4 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 21-Dec-2021 09:37:15
Spectrum: Tune Spec :Average 212-214(5.30-5.31) Bgrd 205(5.26)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 373

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	25168	144.00	2393	240.00	3272	336.00	1139
51.00	456576	145.00	1869	241.00	5272	339.00	852
52.00	22248	146.00	6942	242.00	14983	340.00	792
53.00	692	147.00	18768	243.00	15148	341.00	5936
54.00	77	148.00	49336	244.00	194368	342.00	1816
55.00	2173	149.00	8981	245.00	26368	343.00	264
56.00	13190	150.00	2569	246.00	38464	344.00	247
57.00	33344	151.00	5089	247.00	7470	345.00	125
58.00	1628	152.00	2636	248.00	1713	346.00	10763
59.00	231	153.00	13145	249.00	7318	347.00	2135
60.00	230	154.00	8295	250.00	1398	348.00	319
61.00	6968	155.00	22512	251.00	2131	349.00	73
62.00	7459	156.00	31960	252.00	2036	350.00	550
63.00	22360	157.00	5337	253.00	4033	351.00	803
64.00	2725	158.00	6872	255.00	1006976	352.00	17344
65.00	11723	159.00	5038	256.00	148928	353.00	10312
66.00	1034	160.00	11527	257.00	12492	354.00	16464
67.00	252	161.00	16896	258.00	60160	355.00	3309
68.00	9002	162.00	5032	259.00	9619	356.00	198
69.00	598464	163.00	1391	260.00	1936	357.00	172
70.00	3786	164.00	1455	261.00	1862	358.00	310
71.00	170	165.00	14281	262.00	134	359.00	977
72.00	346	166.00	10071	263.00	619	360.00	328
73.00	4780	167.00	86656	264.00	1578	361.00	634
74.00	63200	168.00	37408	265.00	24976	362.00	52
75.00	98808	169.00	5933	266.00	4423	363.00	628
76.00	34960	170.00	2755	268.00	223	364.00	319
77.00	694400	171.00	3020	269.00	20	365.00	78536
78.00	45800	172.00	7300	270.00	962	366.00	11554
79.00	42688	173.00	8128	271.00	2008	367.00	833
80.00	36288	174.00	15474	272.00	3508	368.00	84
81.00	45320	175.00	31952	273.00	33192	369.00	52
82.00	11985	176.00	7799	274.00	81624	370.00	1894

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 21-Dec-2021 09:37:15
Spectrum: Tune Spec :Average 212-214(5.30-5.31) Bgrd 205(5.26)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 373

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	11880	177.00	13700	275.00	490624	371.00	4708
84.00	804	178.00	4192	276.00	64264	372.00	32848
85.00	7986	179.00	59208	277.00	39016	373.00	7181
86.00	13064	180.00	40568	278.00	6094	374.00	765
87.00	6146	181.00	18616	279.00	1479	375.00	156
88.00	1999	182.00	2703	280.00	179	377.00	737
89.00	1259	183.00	1486	281.00	544	378.00	242
90.00	284	184.00	5467	282.00	1046	382.00	53
91.00	9461	185.00	29728	283.00	4578	383.00	8629
92.00	11992	186.00	215744	284.00	3101	384.00	2074
93.00	75944	187.00	63920	285.00	7663	385.00	693
94.00	5304	188.00	6493	286.00	1614	386.00	73
95.00	1328	189.00	13555	287.00	153	387.00	59
96.00	3324	190.00	2471	288.00	434	388.00	224
97.00	1374	191.00	6512	289.00	1899	389.00	201
98.00	62328	192.00	21256	290.00	1757	390.00	4147
99.00	44768	193.00	21144	291.00	1181	391.00	3168
100.00	3999	194.00	3761	292.00	2013	392.00	2543
101.00	29272	195.00	2412	293.00	10053	393.00	428
102.00	1445	196.00	47216	294.00	3001	395.00	286
103.00	9112	197.00	11209	295.00	3429	396.00	184
104.00	16856	198.00	1552384	296.00	141376	397.00	466
105.00	16512	199.00	104784	297.00	19896	401.00	1748
106.00	4761	200.00	8408	298.00	1128	402.00	13411
107.00	211520	201.00	7785	299.00	477	403.00	20368
108.00	31416	203.00	12375	300.00	189	404.00	6686
109.00	5164	204.00	61408	301.00	2161	405.00	1433
110.00	346176	205.00	98920	302.00	2622	408.00	62
111.00	53672	206.00	418560	303.00	17464	410.00	312
112.00	7265	207.00	53736	304.00	4566	410.00	391
113.00	2439	208.00	13793	305.00	576	411.00	158
114.00	808	209.00	4450	306.00	311	415.00	1012
115.00	981	210.00	6827	307.00	289	416.00	121
116.00	11314	211.00	16266	308.00	2212	417.00	54

Report Date: 21-Dec-2021 17:54:25 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 21-Dec-2021 09:37:15
Spectrum: Tune Spec :Average 212-214(5.30-5.31) Bgrd 205(5.26)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 373

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	193536	212.00	1854	309.00	1074	419.00	264
118.00	13265	213.00	1255	310.00	1837	420.00	382
119.00	1777	214.00	667	311.00	434	421.00	19592
120.00	2442	215.00	4334	312.00	439	422.00	17200
121.00	1092	216.00	8859	313.00	1677	423.00	145024
122.00	14447	217.00	111176	314.00	7205	424.00	30856
123.00	20712	218.00	14383	315.00	17168	425.00	2174
124.00	8995	219.00	1498	316.00	9877	426.00	408
125.00	8771	221.00	88624	317.00	1956	429.00	90
126.00	2670	222.00	10990	318.00	277	431.00	68
127.00	668288	223.00	25600	319.00	424	434.00	115
128.00	50112	224.00	242048	320.00	766	435.00	177
129.00	269696	225.00	60304	321.00	4879	436.00	190
130.00	22912	226.00	7061	322.00	2761	437.00	250
131.00	3938	227.00	108000	323.00	53272	438.00	511
132.00	2166	228.00	15288	324.00	8568	439.00	968
133.00	1210	229.00	21640	325.00	973	441.00	436032
134.00	7646	230.00	3094	326.00	1162	442.00	2856960
135.00	22536	231.00	8563	327.00	8781	443.00	550208
136.00	9132	232.00	1394	328.00	4938	444.00	50040
137.00	11690	233.00	1952	329.00	1028	445.00	2898
138.00	1817	234.00	7218	330.00	218	446.00	197
139.00	1294	235.00	7768	331.00	332	461.00	69
140.00	3726	236.00	5453	332.00	3697	493.00	56
141.00	36504	237.00	7919	333.00	4753		
142.00	12348	238.00	1139	334.00	31656		
143.00	8450	239.00	3569	335.00	8371		

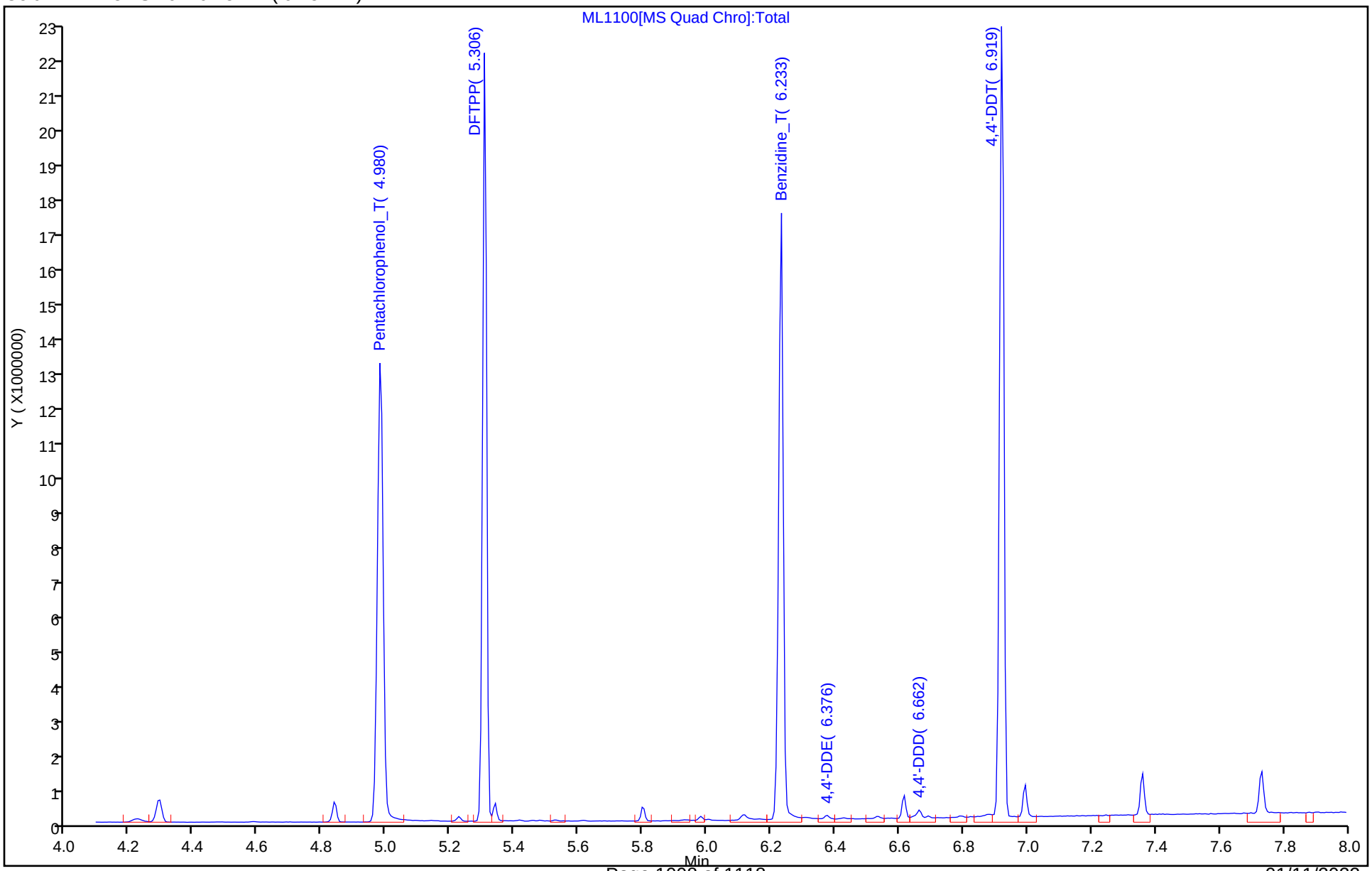
Report Date: 21-Dec-2021 17:54:25 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D

Injection Date:	21-Dec-2021 09:37:15	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)

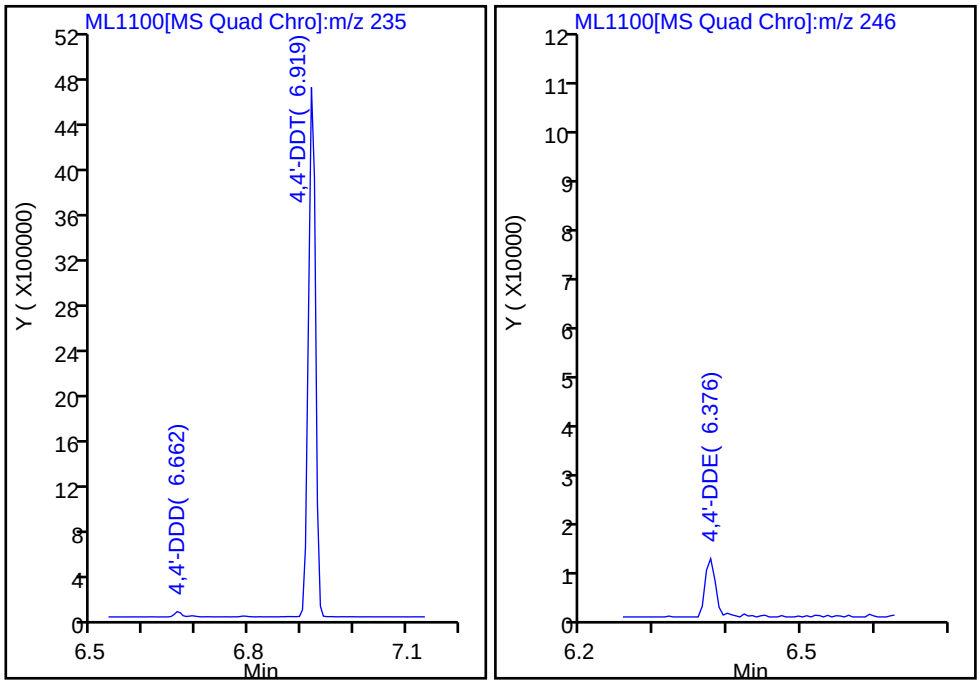


Breakdown Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D
Injection Date: 21-Dec-2021 09:37:15 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 = 4457803
47 4,4'-DDE, Area = 12092
48 4,4'-DDD, Area = 54499

%Breakdown: 1.47%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

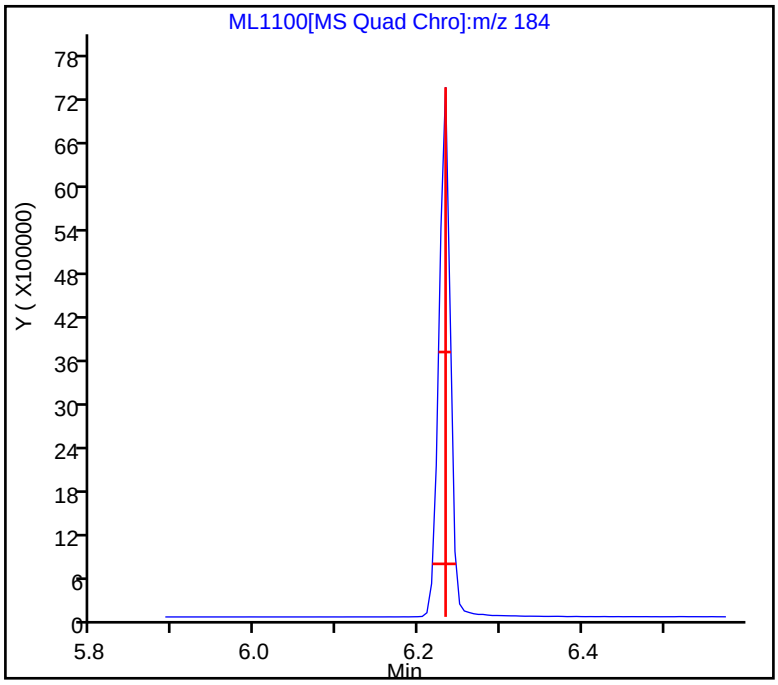
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D
Injection Date: 21-Dec-2021 09:37:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.81, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

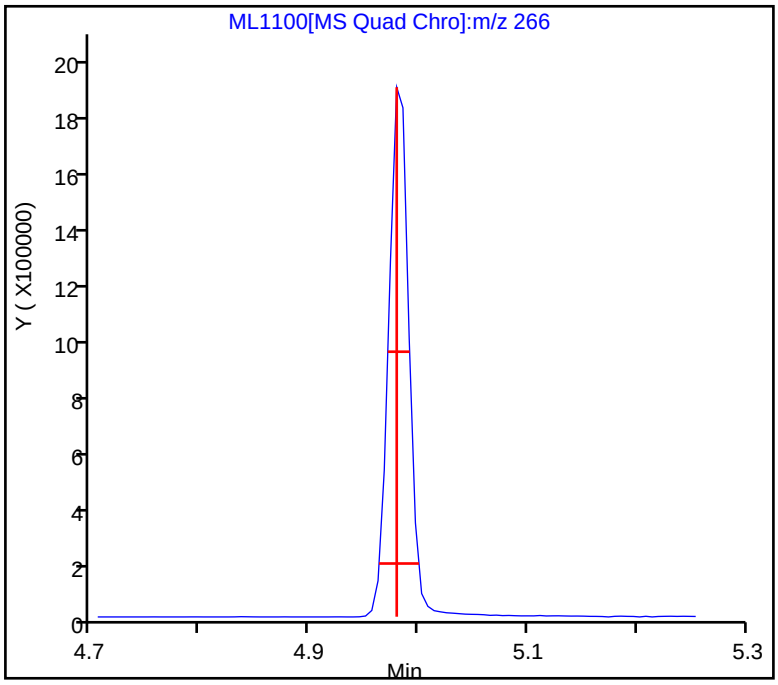
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1100.D
Injection Date: 21-Dec-2021 09:37:15 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.25, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 31-Dec-2021 12:02:55 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0047541-001
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:16:15 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 12:32:46

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	4.900	4.900	0.000	0	1276220	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.158	6.158	0.000	0	4644706	NR	NR	
47 4,4'-DDE	246	6.296	6.296	0.000	0	10335		NR	a
48 4,4'-DDD	235	6.582	6.582	0.000	0	26197		NR	a
49 4,4'-DDT	235	6.839	6.839	0.000	0	3897878	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test
Review Flags
a - User Assigned ID

Reagents:

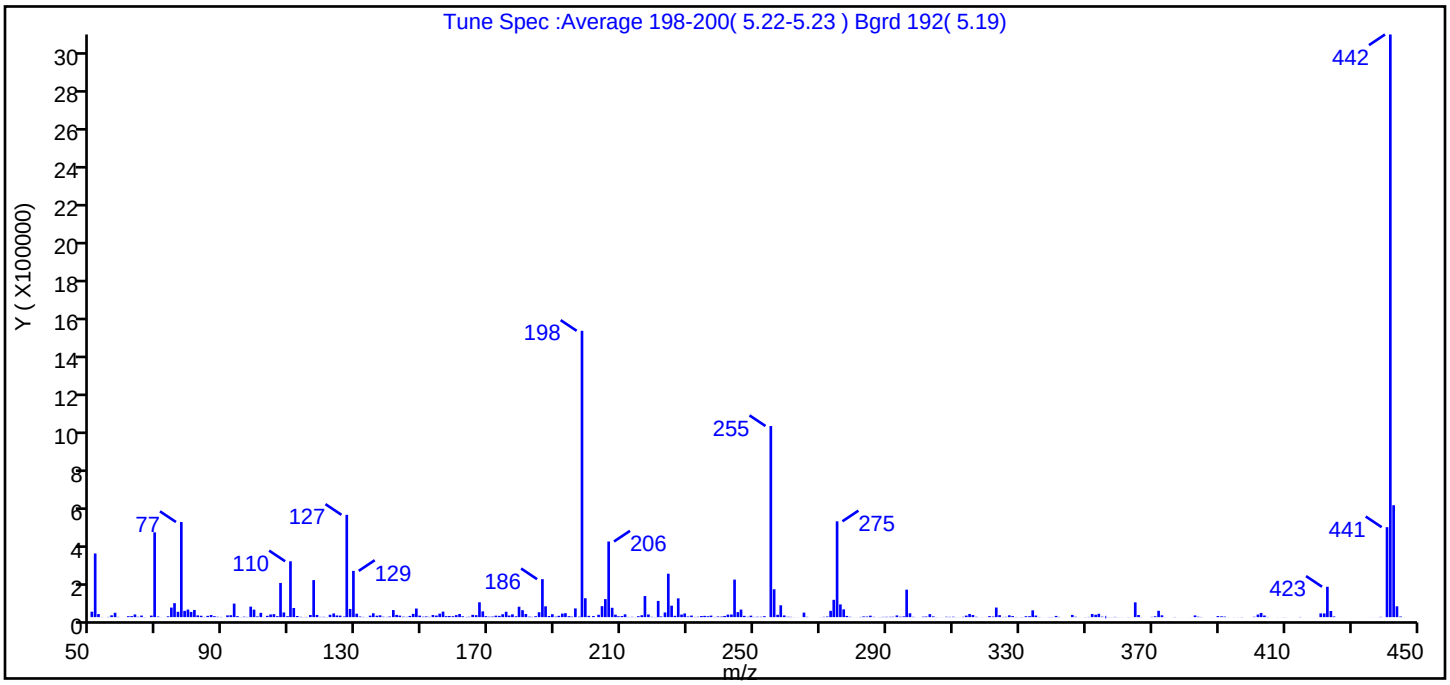
MSS_RVDFTPP_00009 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D
Injection Date: 31-Dec-2021 12:02:55 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 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 (49.1)
51	10-80% of the base peak	22.2
68	<2% of mass 69	0.5 (1.8)
69	Present	29.6
70	<2% of mass 69	0.2 (0.7)
127	10-80% of the base peak	35.7
197	<2% of mass 198	0.2
199	5-9% of mass 198	6.6
275	10-60% of the base peak	33.5
365	>1% of mass 198	5.2
441	present but <24% of mass 442	31.4 (15.4)
442	base peak, or >50% of 198	203.5
443	15-24% of mass 442	39.1 (19.2)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 31-Dec-2021 12:02:55
Spectrum: Tune Spec :Average 198-200(5.22-5.23) Bgrd 192(5.19)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	28560	144.00	2435	236.00	4828	331.00	658
51.00	332032	145.00	1449	237.00	8063	332.00	4784
52.00	16034	146.00	6430	238.00	1021	333.00	5045
53.00	583	147.00	17152	239.00	3558	334.00	35592
54.00	79	148.00	44928	240.00	2941	335.00	8213
55.00	1252	149.00	7901	241.00	6250	336.00	1033
56.00	9362	150.00	2347	242.00	13165	337.00	176
57.00	22736	151.00	3651	243.00	13787	338.00	128
58.00	1308	152.00	1532	244.00	195904	339.00	840
61.00	4954	153.00	11025	245.00	26152	340.00	828
62.00	5309	154.00	8228	246.00	39376	341.00	6397
63.00	14055	155.00	18072	247.00	6784	342.00	1384
64.00	1927	156.00	28880	248.00	1667	344.00	102
65.00	8290	157.00	5029	249.00	7781	345.00	16
66.00	668	158.00	6084	250.00	1104	346.00	11596
67.00	65	159.00	4998	251.00	2154	347.00	2067
68.00	8023	160.00	10464	252.00	1936	348.00	363
69.00	442176	161.00	16432	253.00	4830	350.00	647
70.00	3031	162.00	4328	255.00	996864	351.00	1168
71.00	322	163.00	1140	256.00	145408	352.00	16357
73.00	4201	164.00	1938	257.00	12290	353.00	12466
74.00	49968	165.00	12107	258.00	61784	354.00	17384
75.00	72856	166.00	10182	259.00	8949	355.00	2456
76.00	27864	167.00	77552	260.00	1962	356.00	6
77.00	496192	168.00	30000	261.00	1455	357.00	571
78.00	32656	169.00	5003	262.00	502	358.00	513
79.00	39392	170.00	2417	263.00	414	359.00	1377
80.00	27312	171.00	3014	265.00	23608	360.00	449
81.00	37544	172.00	7781	266.00	1790	361.00	362
82.00	9192	173.00	6719	267.00	36	363.00	240
83.00	7293	174.00	15166	270.00	441	363.00	422
84.00	829	175.00	28128	271.00	1630	364.00	231
85.00	6795	176.00	8173	272.00	3075	365.00	77208

Report Date: 31-Dec-2021 14:16:15 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 31-Dec-2021 12:02:55
Spectrum: Tune Spec :Average 198-200(5.22-5.23) Bgrd 192(5.19)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	11055	177.00	14544	273.00	32736	366.00	11139
87.00	4804	178.00	4442	274.00	90336	367.00	663
88.00	1855	179.00	54376	275.00	499840	369.00	50
89.00	1125	180.00	36408	276.00	66368	370.00	1356
90.00	116	181.00	16440	277.00	40720	371.00	4459
91.00	9213	182.00	2510	278.00	6371	372.00	33104
92.00	9971	183.00	1536	279.00	1654	373.00	9586
93.00	70616	184.00	4755	280.00	223	374.00	489
94.00	5113	185.00	25576	281.00	304	375.00	180
95.00	683	186.00	198080	282.00	1195	377.00	865
96.00	2361	187.00	56408	283.00	3657	378.00	196
97.00	1149	188.00	6045	284.00	3113	379.00	207
98.00	54848	189.00	15202	285.00	7686	382.00	213
99.00	39184	190.00	2403	286.00	1551	383.00	8945
100.00	3576	191.00	7042	287.00	328	384.00	2293
101.00	22432	192.00	18512	288.00	678	385.00	969
102.00	643	193.00	20696	289.00	1447	388.00	220
103.00	6921	194.00	4788	290.00	1769	389.00	119
104.00	13979	195.00	2685	291.00	1735	390.00	5576
105.00	15438	196.00	45376	292.00	2085	391.00	4165
106.00	4799	197.00	2432	293.00	9078	392.00	2763
107.00	178368	198.00	1493504	294.00	2330	393.00	403
108.00	24656	199.00	98544	295.00	4028	395.00	325
109.00	4786	200.00	6794	296.00	143296	396.00	344
110.00	291392	201.00	5679	297.00	20032	397.00	767
111.00	47808	203.00	12407	298.00	1691	401.00	1950
112.00	5972	204.00	57312	299.00	318	402.00	13541
113.00	1491	205.00	94040	300.00	188	403.00	21968
114.00	585	206.00	394560	301.00	2471	404.00	8556
115.00	1136	207.00	48768	302.00	3116	405.00	1111
116.00	11202	208.00	12977	303.00	15665	408.00	290
117.00	193216	209.00	4519	304.00	4029	409.00	62
118.00	11621	210.00	5724	305.00	640	410.00	517
119.00	1465	211.00	14636	306.00	164	411.00	285

Report Date: 31-Dec-2021 14:16:15 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 31-Dec-2021 12:02:55
Spectrum: Tune Spec :Average 198-200(5.22-5.23) Bgrd 192(5.19)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	1674	212.00	1182	307.00	294	415.00	996
121.00	722	213.00	1521	308.00	1973	417.00	55
122.00	12441	214.00	472	309.00	1551	417.00	109
123.00	19328	215.00	4940	310.00	2130	419.00	102
124.00	8824	216.00	9899	311.00	343	419.00	154
125.00	7840	217.00	110048	312.00	396	421.00	19480
126.00	3148	218.00	13988	313.00	1808	422.00	19224
127.00	533696	219.00	1596	314.00	8115	423.00	158528
128.00	42728	220.00	632	315.00	16528	424.00	31984
129.00	241280	221.00	84544	316.00	11036	425.00	3446
130.00	17984	222.00	3644	317.00	1823	426.00	139
131.00	3211	223.00	24432	318.00	310	432.00	51
132.00	1247	224.00	226496	319.00	413	434.00	59
133.00	557	225.00	59856	320.00	330	436.00	235
134.00	7815	226.00	6885	321.00	5243	437.00	211
135.00	20264	227.00	97928	322.00	3053	438.00	256
136.00	7569	228.00	13381	323.00	50016	439.00	1405
137.00	9586	229.00	19272	324.00	10358	441.00	469312
138.00	2214	230.00	3399	325.00	1097	442.00	3039232
139.00	1130	231.00	8226	326.00	1653	443.00	583872
140.00	3249	232.00	1095	327.00	9567	444.00	56568
141.00	36912	233.00	1975	328.00	5471	445.00	3193
142.00	11619	234.00	5943	329.00	971	446.00	290
143.00	7986	235.00	6728	330.00	461		

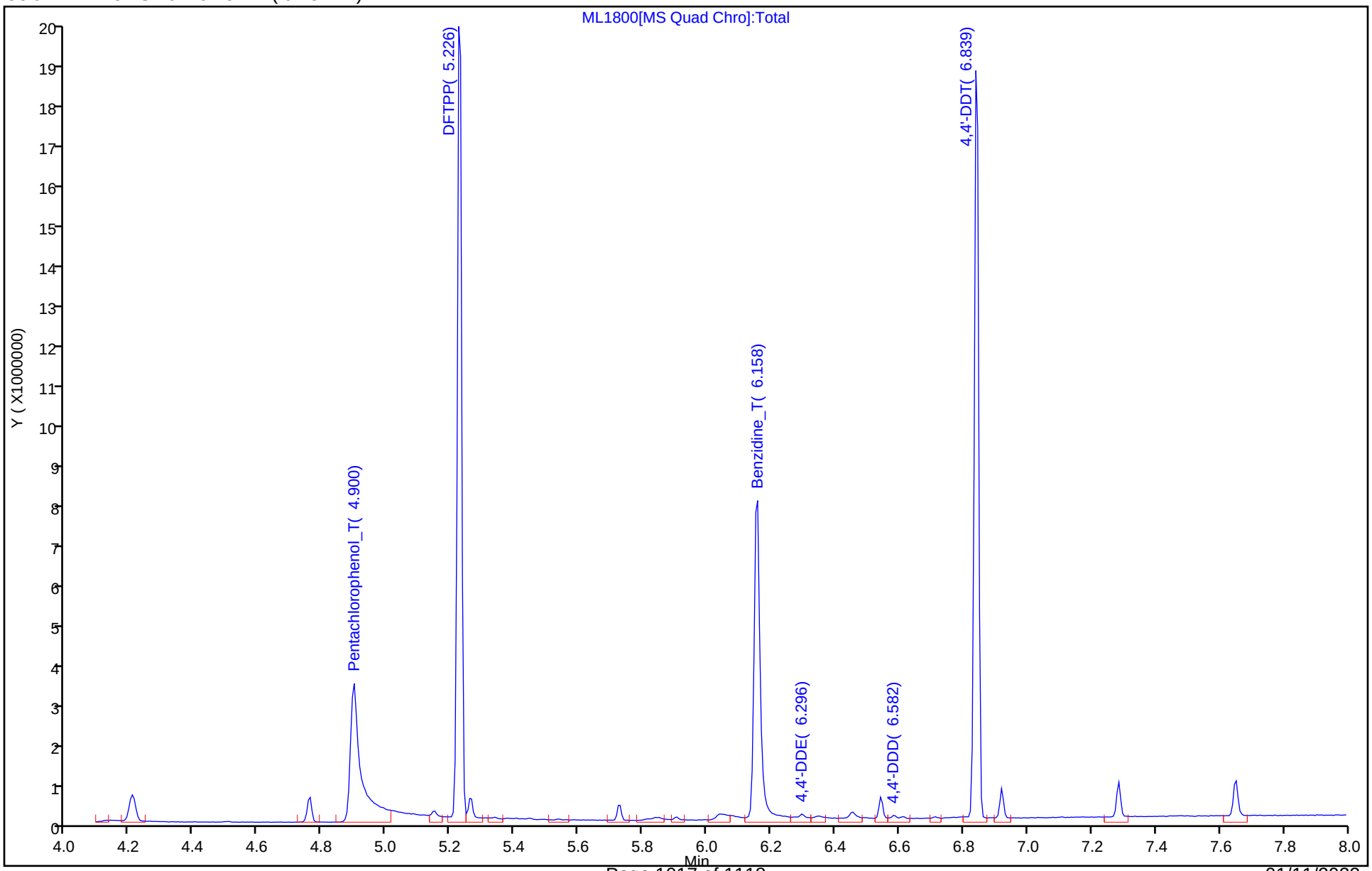
Report Date: 31-Dec-2021 14:16:15 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D

Injection Date:	31-Dec-2021 12:02:55	Instrument ID:	HP21585	Operator ID:	art12405
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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D
Injection Date: 31-Dec-2021 12:02:55 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 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

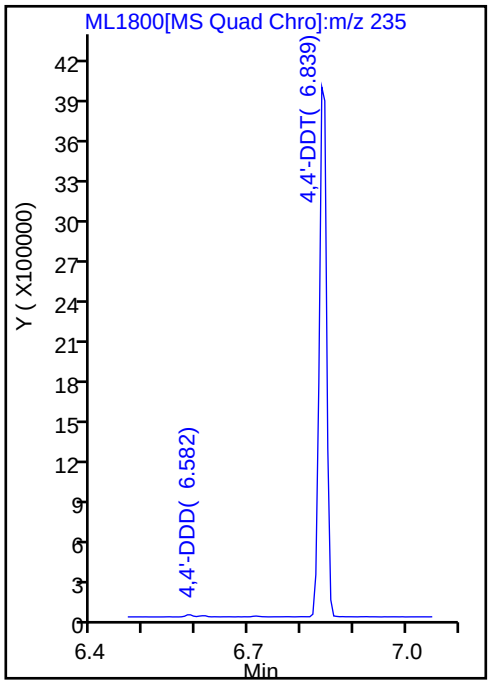
49 4,4'-DDT, Detector: MS Quad

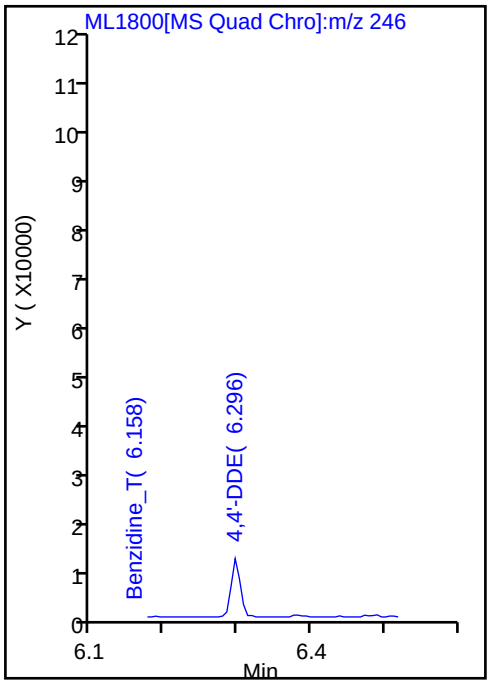
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 3897878
47 4,4'-DDE, Area = 10335
48 4,4'-DDD, Area = 26197

%Breakdown: 0.93%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

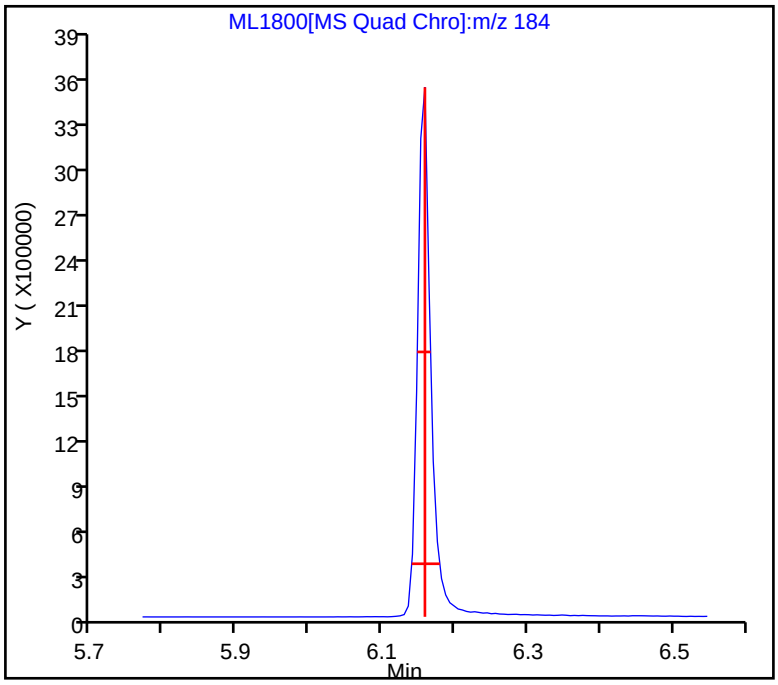
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D
Injection Date: 31-Dec-2021 12:02:55 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 1.17, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

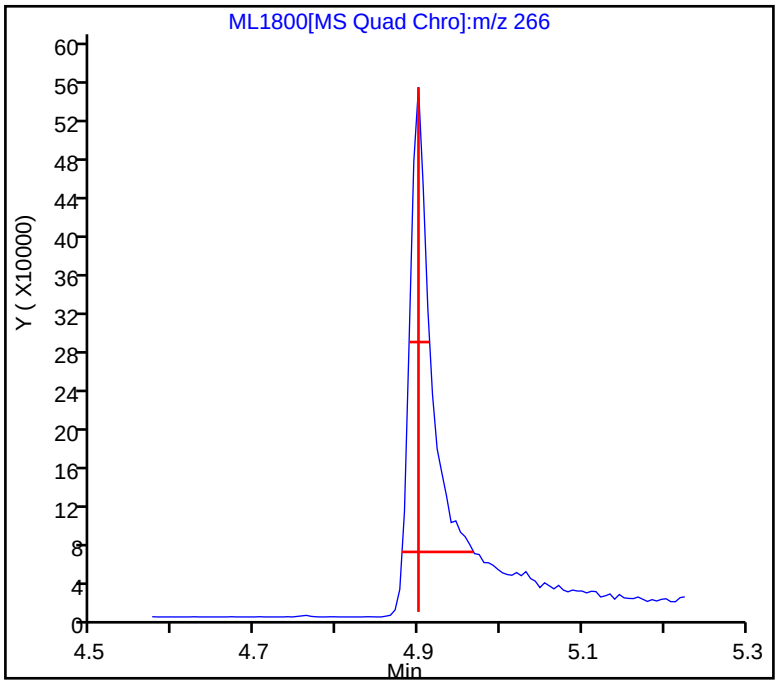
Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1800.D
Injection Date: 31-Dec-2021 12:02:55 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.068 (min.)
Front Width = 0.020 (min.)

Tailing Factor = * 3.4, Max. Tailing <= 2.00
Failed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 16-Dec-2021 08:56:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0046502-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 16-Dec-2021 14:16:17 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: gamblerj Date: 16-Dec-2021 09:41:08

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	4.305	4.305	0.000	93	2334969	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.564	5.564	0.000	99	6033360	NR	NR	
47 4,4'-DDE	246	5.708	5.708	0.000	76	17144		NR	
48 4,4'-DDD	235	5.991	5.991	0.000	92	92528		NR	
49 4,4'-DDT	235	6.245	6.245	0.000	92	5756068	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

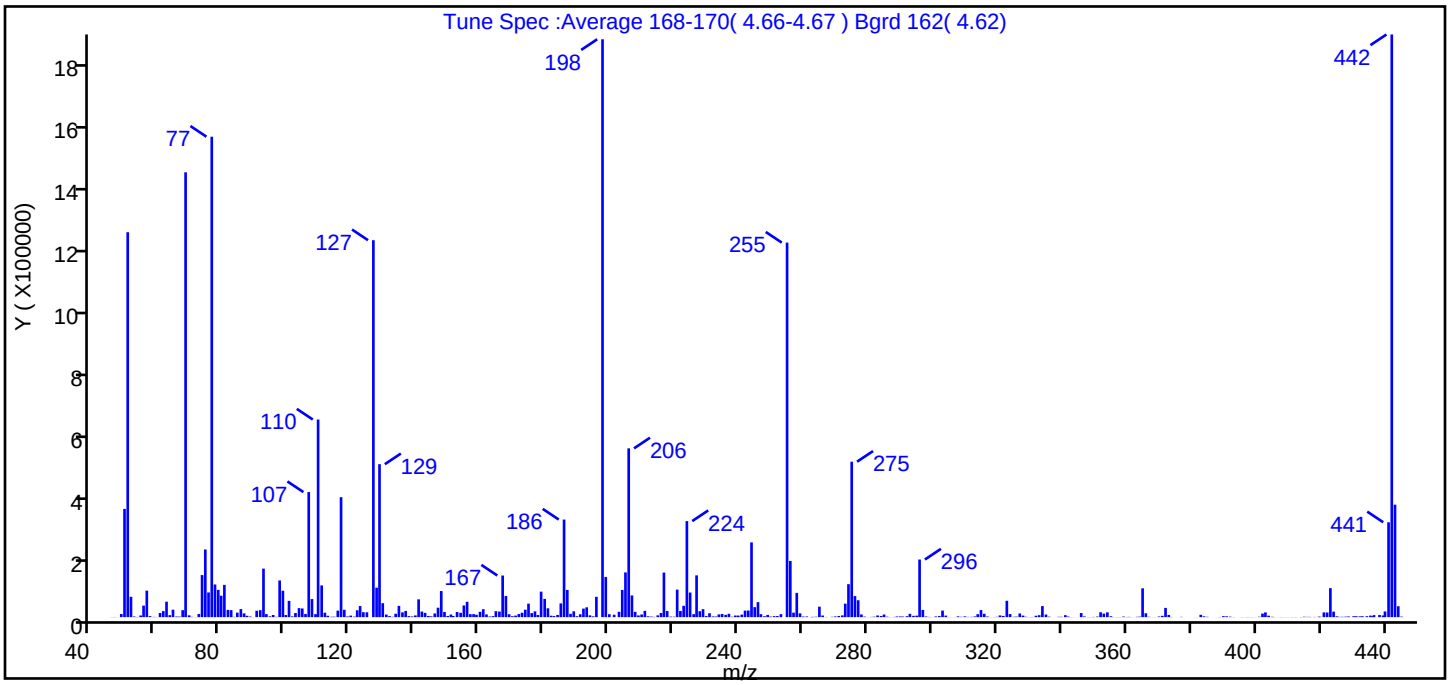
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D
Injection Date: 16-Dec-2021 08:56:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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 (99.2)
51	10-80% of the base peak	66.6
68	<2% of mass 69	1.2 (1.6)
69	Present	77.0
70	<2% of mass 69	0.3 (0.4)
127	10-80% of the base peak	65.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	26.9
365	>1% of mass 198	5.0
441	present but <24% of mass 442	16.4 (16.3)
442	base peak, or >50% of 198	100.8
443	15-24% of mass 442	19.5 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 16-Dec-2021 08:56:30
Spectrum: Tune Spec :Average 168-170(4.66-4.67) Bgrd 162(4.62)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	355	145.00	2511	245.00	32088	346.00	13171
47.00	608	146.00	11723	246.00	48216	347.00	2309
48.00	156	147.00	30272	247.00	9518	348.00	439
49.00	10113	148.00	83648	248.00	2997	349.00	419
50.00	346880	149.00	16640	249.00	7226	350.00	756
51.00	1233920	150.00	3804	250.00	1809	351.00	1736
52.00	65344	151.00	8389	251.00	3232	352.00	15765
53.00	2090	152.00	3687	252.00	3527	353.00	11351
54.00	657	153.00	16544	253.00	9631	354.00	15404
55.00	5331	154.00	13834	255.00	1200640	355.00	2835
56.00	36928	155.00	37472	256.00	180224	356.00	405
57.00	85016	156.00	49128	257.00	14516	357.00	423
58.00	3290	157.00	9666	258.00	77792	358.00	394
59.00	779	158.00	9797	259.00	12271	359.00	1922
60.00	524	159.00	7672	260.00	1999	360.00	561
61.00	13305	160.00	17192	261.00	2165	361.00	926
62.00	19416	161.00	25504	263.00	442	362.00	336
63.00	49536	162.00	8755	263.00	1032	363.00	1016
64.00	6320	163.00	2063	264.00	1283	364.00	1562
65.00	23872	164.00	3248	265.00	33568	365.00	92376
66.00	1983	165.00	19152	266.00	5178	366.00	12421
67.00	1729	166.00	18080	267.00	570	367.00	1059
68.00	22320	167.00	133376	269.00	1044	368.00	219
69.00	1425920	168.00	67888	270.00	2238	369.00	292
70.00	5883	169.00	9202	271.00	3805	370.00	2009
71.00	982	170.00	3050	272.00	5600	371.00	4208
72.00	346	171.00	5022	273.00	43248	372.00	29600
73.00	10122	172.00	9893	274.00	105736	373.00	7025
74.00	134848	173.00	14059	275.00	498240	374.00	552
75.00	216960	174.00	23912	276.00	67544	375.00	63
76.00	79184	175.00	43304	277.00	54184	377.00	839
77.00	1540096	176.00	12927	278.00	8560	378.00	95
78.00	104752	177.00	18568	279.00	1633	379.00	80

Report Date: 16-Dec-2021 14:16:18 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 16-Dec-2021 08:56:30
Spectrum: Tune Spec :Average 168-170(4.66-4.67) Bgrd 162(4.62)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	87448	178.00	6945	280.00	214	381.00	155
80.00	68712	179.00	81704	281.00	752	382.00	199
81.00	103424	180.00	58424	282.00	1480	383.00	7541
82.00	23280	181.00	28368	283.00	5345	384.00	2563
83.00	22448	182.00	4560	284.00	3660	385.00	1024
84.00	1012	183.00	3482	285.00	8458	388.00	153
85.00	14457	184.00	7109	286.00	1431	389.00	566
86.00	25808	185.00	44080	287.00	440	390.00	3186
87.00	12073	186.00	312832	288.00	709	391.00	2767
88.00	4386	187.00	87280	289.00	2134	392.00	1623
89.00	2058	188.00	10696	290.00	2209	393.00	460
90.00	286	189.00	18760	291.00	1898	395.00	147
91.00	20544	190.00	3003	292.00	3016	396.00	331
92.00	22312	191.00	9254	293.00	10651	397.00	425
93.00	155456	192.00	27360	294.00	4095	398.00	391
94.00	9644	193.00	31528	295.00	4777	399.00	292
95.00	2560	194.00	5724	296.00	184704	400.00	254
96.00	6825	195.00	2649	297.00	23080	401.00	1353
97.00	1039	196.00	65120	298.00	2168	402.00	11404
98.00	117608	198.00	1852416	299.00	748	403.00	15244
99.00	84592	199.00	128944	300.00	298	404.00	4670
100.00	6769	200.00	9466	301.00	2251	405.00	1184
101.00	52192	202.00	7757	302.00	3497	406.00	333
102.00	2466	203.00	17216	303.00	21080	407.00	76
103.00	13275	204.00	87168	304.00	4947	408.00	415
104.00	28888	205.00	143424	305.00	447	409.00	318
105.00	27816	206.00	541056	306.00	277	410.00	363
106.00	10186	207.00	69600	307.00	253	411.00	352
107.00	400896	208.00	17072	308.00	2485	412.00	336
108.00	57984	209.00	5468	309.00	1103	413.00	297
109.00	9664	210.00	8470	310.00	2491	414.00	516
110.00	633472	211.00	20304	311.00	818	415.00	1354
111.00	101720	212.00	2723	312.00	987	416.00	886
112.00	14168	213.00	1693	313.00	2220	417.00	793

Report Date: 16-Dec-2021 14:16:18 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 16-Dec-2021 08:56:30
Spectrum: Tune Spec :Average 168-170(4.66-4.67) Bgrd 162(4.62)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	4341	214.00	828	314.00	9563	418.00	729
114.00	1301	215.00	5711	315.00	22680	420.00	1334
115.00	1439	216.00	13205	316.00	10686	420.00	1299
116.00	20880	217.00	142912	317.00	2041	421.00	15228
117.00	384640	218.00	19768	318.00	394	422.00	14917
118.00	23616	219.00	1696	319.00	453	423.00	92920
119.00	2222	220.00	1389	320.00	1034	424.00	17632
120.00	4952	221.00	88320	321.00	5508	425.00	2578
121.00	1586	222.00	19664	322.00	3892	426.00	980
122.00	21992	223.00	36256	323.00	52464	427.00	1182
123.00	35520	224.00	307904	324.00	9790	428.00	1558
124.00	15929	225.00	78864	325.00	1199	429.00	2242
125.00	15533	226.00	9523	326.00	1598	430.00	2931
127.00	1208320	227.00	133952	327.00	11771	431.00	2914
128.00	94424	228.00	19080	328.00	4984	432.00	2483
129.00	490304	229.00	25608	329.00	1242	433.00	2917
130.00	44672	230.00	3472	330.00	475	434.00	3069
131.00	8248	231.00	12505	331.00	580	436.00	4864
132.00	3320	232.00	2267	332.00	4505	436.00	3004
133.00	1081	233.00	2017	333.00	6290	437.00	6495
134.00	10911	234.00	8761	334.00	35432	438.00	6774
135.00	36088	235.00	10050	335.00	8331	440.00	5363
136.00	15419	236.00	7392	336.00	1518	440.00	18224
137.00	19896	237.00	10659	337.00	89	441.00	304128
138.00	3386	238.00	1360	339.00	1064	442.00	1867776
139.00	2221	239.00	5187	340.00	1134	443.00	360576
140.00	5503	240.00	5054	341.00	6321	444.00	34944
141.00	57032	241.00	8089	342.00	1944	445.00	1668
142.00	17896	242.00	20928	343.00	407	446.00	65
143.00	13728	243.00	21232	344.00	250	447.00	74
144.00	3795	244.00	239616	345.00	226		

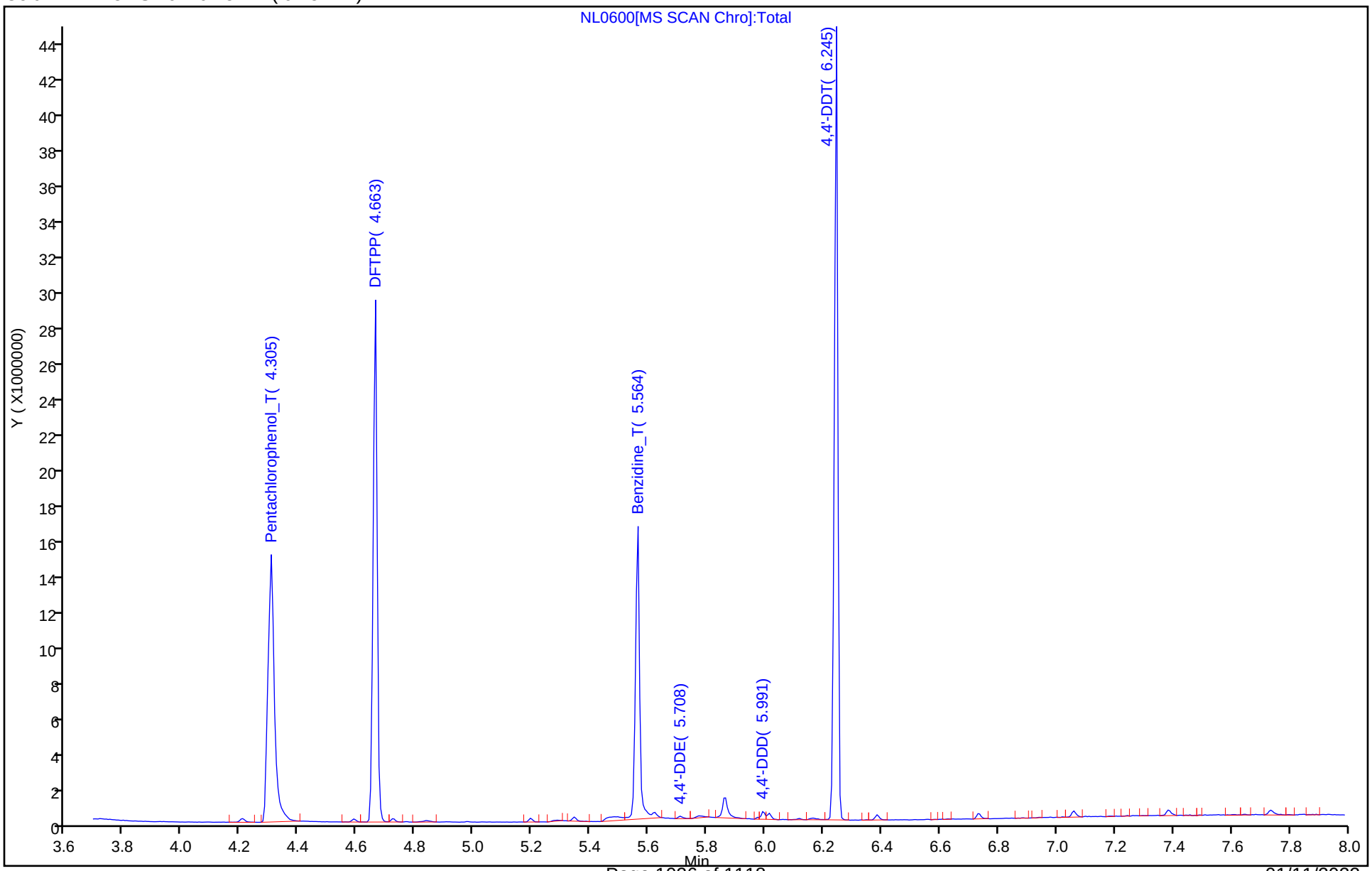
Report Date: 16-Dec-2021 14:16:18 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D

Injection Date:	16-Dec-2021 08:56:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D
Injection Date: 16-Dec-2021 08:56:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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

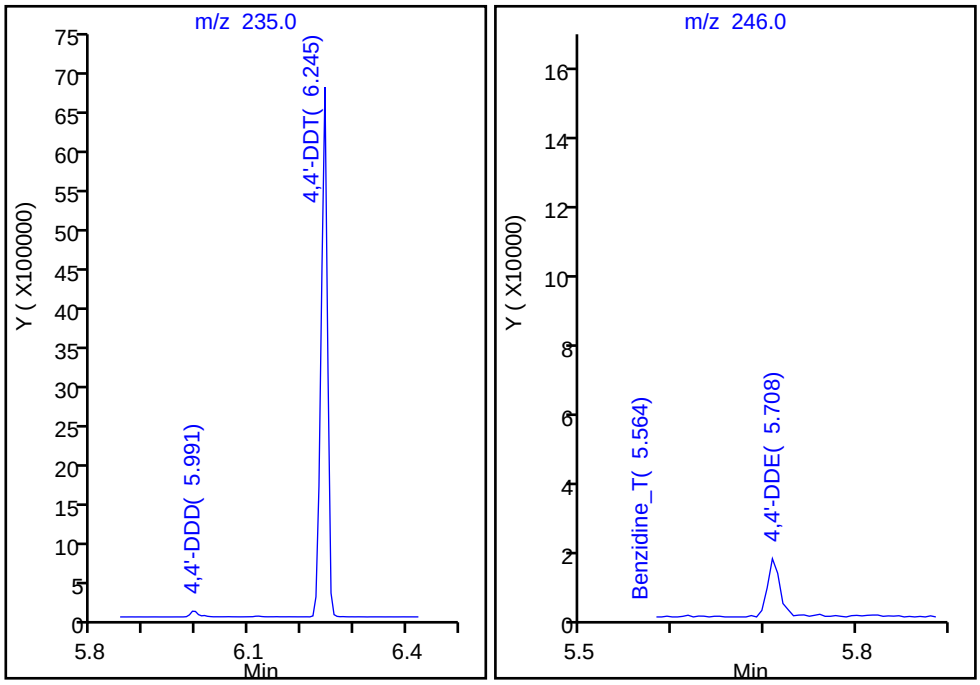
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 5756068
47 4,4'-DDE, Area = 17144
48 4,4'-DDD, Area = 92528

%Breakdown: 1.87%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

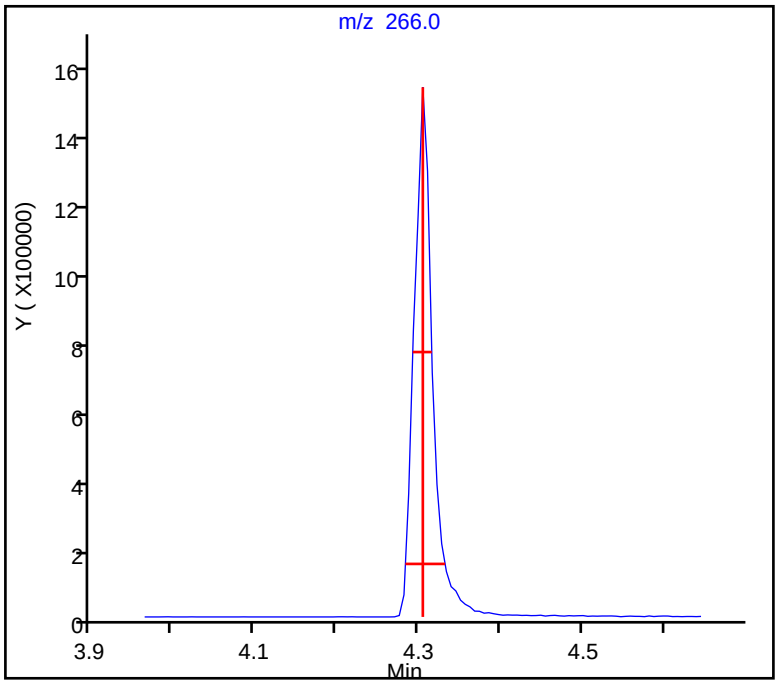
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D
Injection Date: 16-Dec-2021 08:56:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.027 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.29, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

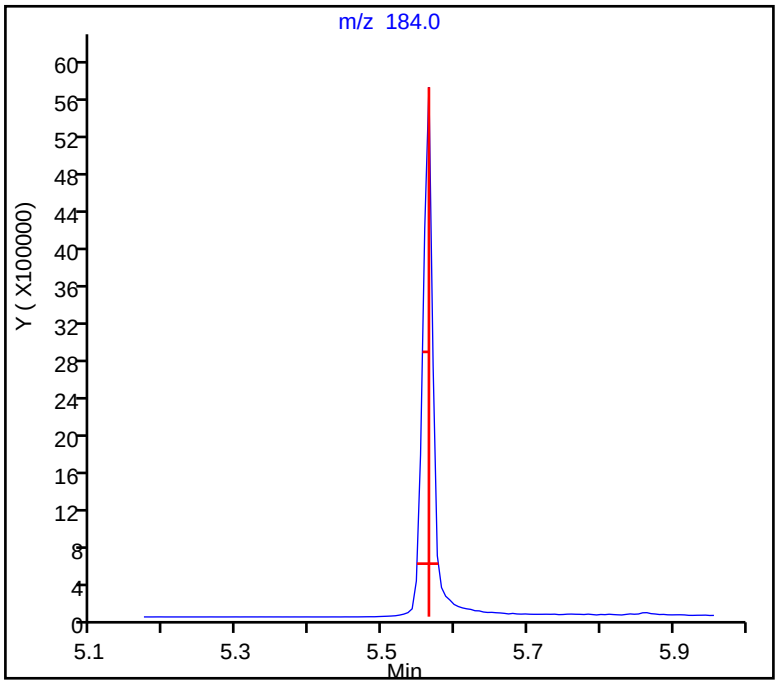
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0600.D
Injection Date: 16-Dec-2021 08:56:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.76, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 27-Dec-2021 12:51:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0047167-001
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 27-Dec-2021 14:53:11 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1640

First Level Reviewer: transuea Date: 27-Dec-2021 13:22:20

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	4.212	4.212	0.000	94	1793292	NR	NR	a
45 DFTPP									
46 Benzidine_T	184	5.454	5.454	0.000	99	3140422	NR	NR	
47 4,4'-DDE	246	5.599	5.599	0.000	77	19615		NR	
48 4,4'-DDD	235	5.882	5.882	0.000	94	111591		NR	
49 4,4'-DDT	235	6.130	6.130	0.000	93	4785618	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

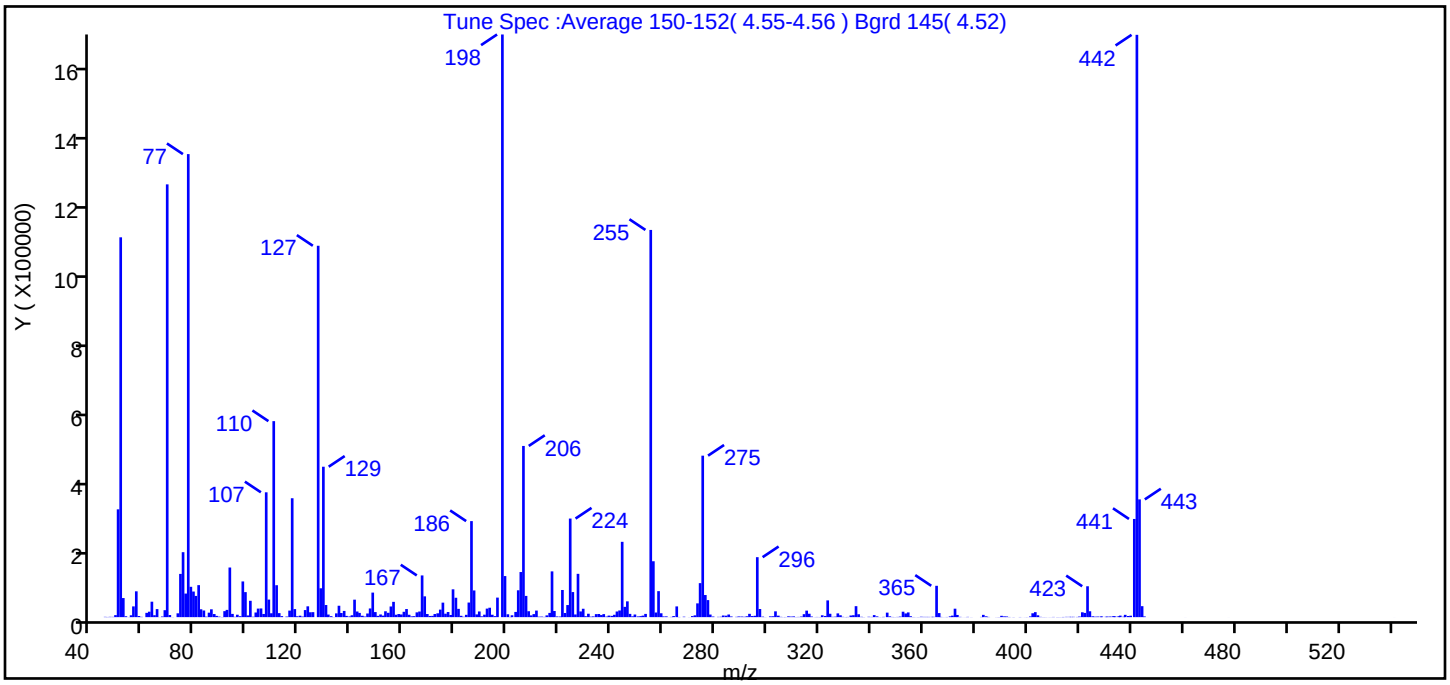
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D
Injection Date: 27-Dec-2021 12:51:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 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 (100.1)
51	10-80% of the base peak	65.2
68	<2% of mass 69	1.2 (1.6)
69	Present	74.3
70	<2% of mass 69	0.4 (0.5)
127	10-80% of the base peak	63.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	27.7
365	>1% of mass 198	5.4
441	present but <24% of mass 442	16.9 (16.9)
442	base peak, or >50% of 198	99.9
443	15-24% of mass 442	20.2 (20.2)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 27-Dec-2021 12:51:30
Spectrum: Tune Spec :Average 150-152(4.55-4.56) Bgrd 145(4.52)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	854	146.00	10610	245.00	29992	348.00	588
46.00	517	147.00	25256	246.00	45968	349.00	368
47.00	899	148.00	71448	247.00	9492	350.00	670
48.00	787	149.00	14750	248.00	2385	351.00	1546
49.00	5838	150.00	3820	249.00	7681	352.00	15838
50.00	313728	151.00	7771	250.00	2123	353.00	10754
51.00	1105408	152.00	4433	251.00	2908	354.00	13731
52.00	55544	153.00	17080	252.00	4396	355.00	2702
53.00	2605	154.00	12674	253.00	9416	356.00	485
54.00	278	155.00	31048	255.00	1126912	357.00	249
55.00	5352	156.00	44528	256.00	162688	358.00	396
56.00	31280	157.00	7022	257.00	13478	359.00	1158
57.00	75184	158.00	9014	258.00	75664	360.00	801
58.00	3260	159.00	7740	259.00	11270	361.00	776
59.00	873	160.00	15572	260.00	2042	362.00	734
61.00	12501	161.00	23592	261.00	2202	363.00	871
62.00	15860	162.00	6909	262.00	165	364.00	919
63.00	44960	163.00	2226	263.00	724	365.00	91224
64.00	5589	164.00	2800	264.00	3101	366.00	11816
65.00	23416	165.00	13932	265.00	31256	367.00	686
66.00	193	166.00	16355	266.00	557	368.00	239
67.00	1850	167.00	121400	268.00	1287	369.00	517
68.00	20216	168.00	60504	270.00	240	370.00	2269
69.00	1259520	169.00	9100	271.00	3079	371.00	4383
70.00	6153	170.00	3475	272.00	5168	372.00	24600
71.00	311	171.00	3746	273.00	40096	373.00	6380
72.00	14	172.00	9092	274.00	98928	374.00	783
73.00	11133	173.00	11168	275.00	469952	375.00	120
74.00	125832	174.00	21904	276.00	64360	376.00	163
75.00	189056	175.00	42216	277.00	49600	377.00	774
76.00	68600	176.00	9984	278.00	7555	378.00	210
77.00	1347584	177.00	14910	279.00	1771	382.00	678
78.00	88280	178.00	6284	280.00	25	383.00	6658

Report Date: 27-Dec-2021 14:53:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 27-Dec-2021 12:51:30
Spectrum: Tune Spec :Average 150-152(4.55-4.56) Bgrd 145(4.52)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	74512	179.00	80992	281.00	865	384.00	2330
80.00	61752	180.00	56416	282.00	1161	385.00	703
81.00	93120	181.00	24128	283.00	4815	386.00	54
82.00	22872	182.00	3908	284.00	4269	388.00	225
83.00	19320	183.00	1089	285.00	7628	389.00	405
84.00	1441	184.00	6740	286.00	1991	390.00	3886
85.00	13016	185.00	42464	288.00	892	391.00	2263
86.00	22816	186.00	279488	289.00	1980	392.00	1916
87.00	9007	187.00	77680	290.00	1736	393.00	515
88.00	3685	188.00	7976	291.00	1137	394.00	85
89.00	1513	189.00	16552	292.00	2492	395.00	286
90.00	439	190.00	2447	293.00	9660	397.00	459
91.00	17456	191.00	7156	294.00	3194	398.00	66
92.00	21120	192.00	24824	295.00	3931	399.00	180
93.00	144448	193.00	27408	296.00	174528	400.00	265
94.00	9462	194.00	6981	297.00	23656	401.00	2031
95.00	1035	195.00	2975	298.00	1496	402.00	11281
96.00	7089	196.00	56872	299.00	260	403.00	14532
97.00	2743	198.00	1695744	300.00	57	404.00	5361
98.00	103912	199.00	119536	301.00	2254	405.00	828
99.00	72840	200.00	8341	302.00	2558	406.00	343
100.00	4963	201.00	555	303.00	16896	407.00	293
101.00	47600	202.00	5411	304.00	4302	408.00	187
102.00	1179	203.00	15204	305.00	840	409.00	222
103.00	13475	204.00	78152	306.00	275	410.00	605
104.00	24872	205.00	131264	307.00	464	412.00	405
105.00	25304	206.00	498240	308.00	2410	413.00	339
106.00	9263	207.00	61800	309.00	1644	414.00	220
107.00	363328	208.00	17216	310.00	2181	414.00	566
108.00	51080	209.00	5108	311.00	485	415.00	863
109.00	11280	210.00	8830	312.00	708	416.00	926
110.00	570432	211.00	19080	313.00	1813	417.00	799
111.00	92928	212.00	1339	314.00	8641	418.00	901
112.00	11686	213.00	1580	315.00	18952	419.00	609

Report Date: 27-Dec-2021 14:53:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D\8270_SIM_HP23263.rslt\spectr
Injection Date: 27-Dec-2021 12:51:30
Spectrum: Tune Spec :Average 150-152(4.55-4.56) Bgrd 145(4.52)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 391

m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	2954	214.00	738	316.00	9914	420.00	1741
115.00	1605	215.00	5166	317.00	1853	421.00	14149
116.00	19040	216.00	12316	318.00	262	422.00	12312
117.00	346048	217.00	133184	319.00	593	423.00	89872
118.00	23416	218.00	17856	320.00	477	424.00	17120
119.00	2528	219.00	2043	321.00	5370	425.00	2403
120.00	4180	220.00	1738	322.00	3488	426.00	1381
121.00	1665	221.00	79016	323.00	48760	427.00	1724
122.00	20568	222.00	12091	324.00	9832	428.00	1753
123.00	31512	223.00	35168	325.00	940	429.00	1923
124.00	14187	224.00	286912	326.00	1468	430.00	1219
125.00	14530	225.00	72968	327.00	10931	431.00	1659
127.00	1080832	226.00	7802	328.00	5478	432.00	1846
128.00	83976	227.00	126064	329.00	881	433.00	2995
129.00	437760	228.00	16624	330.00	413	434.00	2214
130.00	35264	229.00	24416	331.00	626	435.00	2685
131.00	7527	230.00	2745	332.00	4776	436.00	4453
132.00	2778	231.00	9899	333.00	5598	437.00	1357
133.00	368	232.00	1464	334.00	31952	438.00	6701
134.00	10986	233.00	2139	335.00	8396	439.00	3313
135.00	33184	234.00	8743	336.00	987	440.00	4144
136.00	12012	235.00	9170	337.00	355	441.00	285760
137.00	18104	236.00	6063	339.00	1082	442.00	1694720
138.00	3666	237.00	8807	340.00	704	443.00	342656
139.00	2044	238.00	1662	341.00	5932	444.00	31936
140.00	5454	239.00	4508	342.00	2192	445.00	2078
141.00	50872	240.00	3719	343.00	266	447.00	55
142.00	16408	241.00	6844	344.00	196	461.00	69
143.00	12323	242.00	16448	345.00	811	478.00	52
144.00	4074	243.00	19408	346.00	13112	541.00	54
145.00	1743	244.00	219200	347.00	2264		

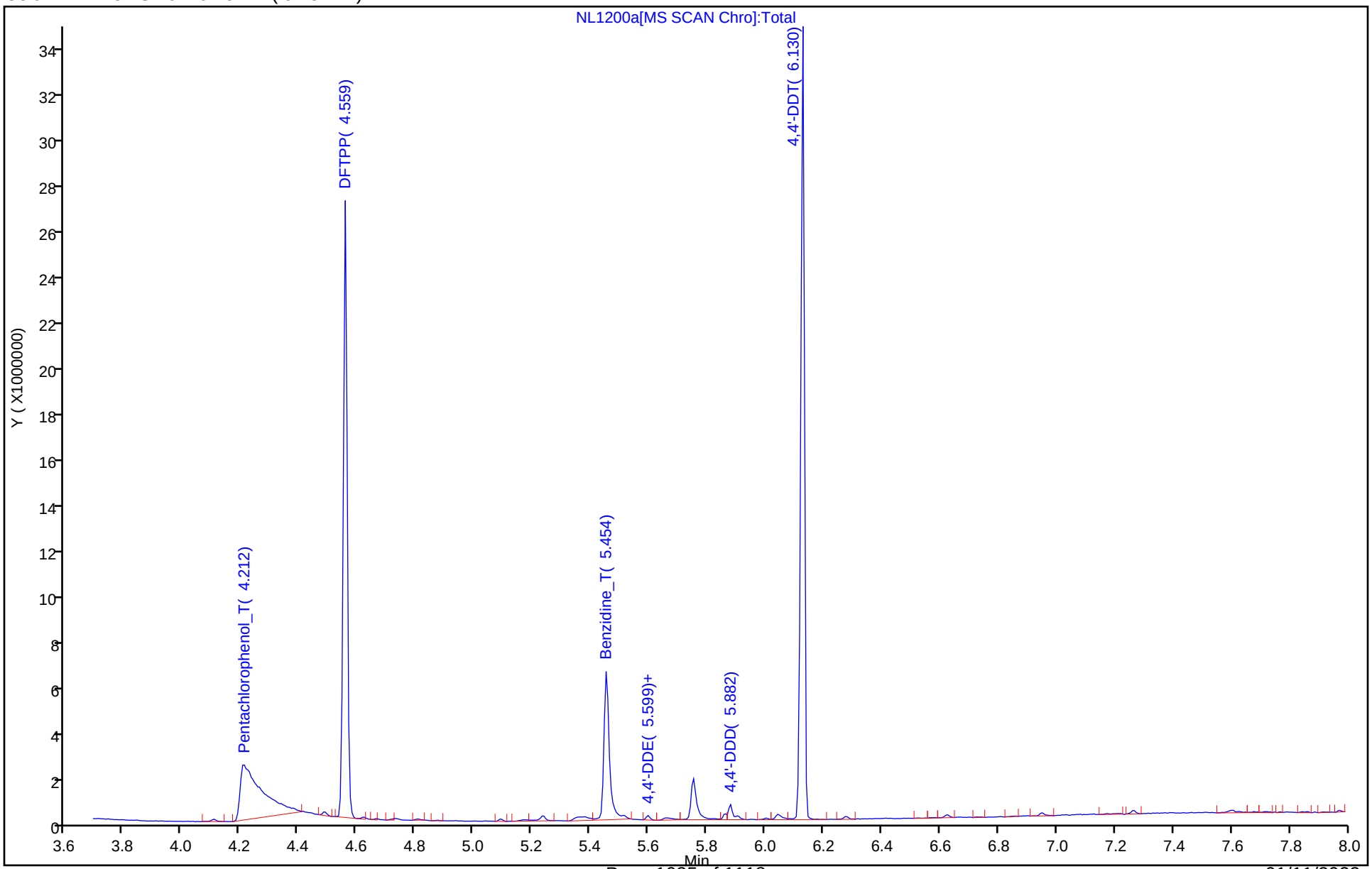
Report Date: 27-Dec-2021 14:53:11 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D

Injection Date:	27-Dec-2021 12:51:30	Instrument ID:	HP23263	Operator ID:	whs02991
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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D
Injection Date: 27-Dec-2021 12:51:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 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

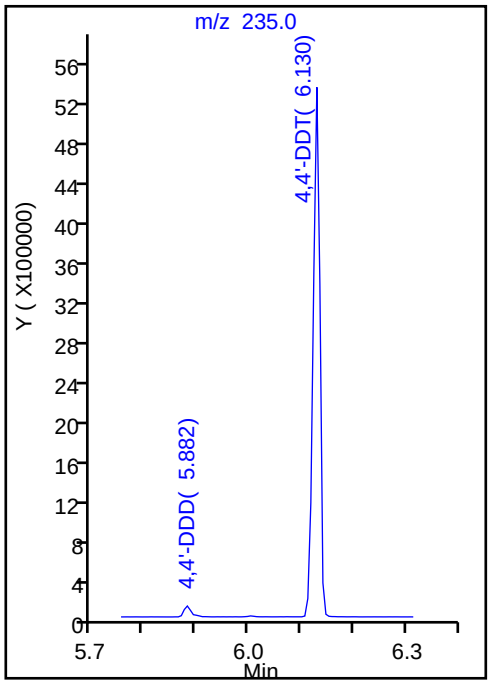
49 4,4'-DDT, Detector: MS SCAN

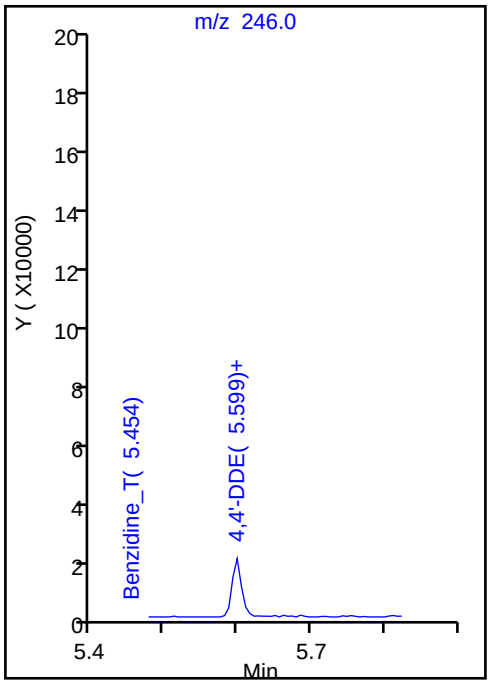
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 4785618
47 4,4'-DDE, Area = 19615
48 4,4'-DDD, Area = 111591

%Breakdown: 2.67%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

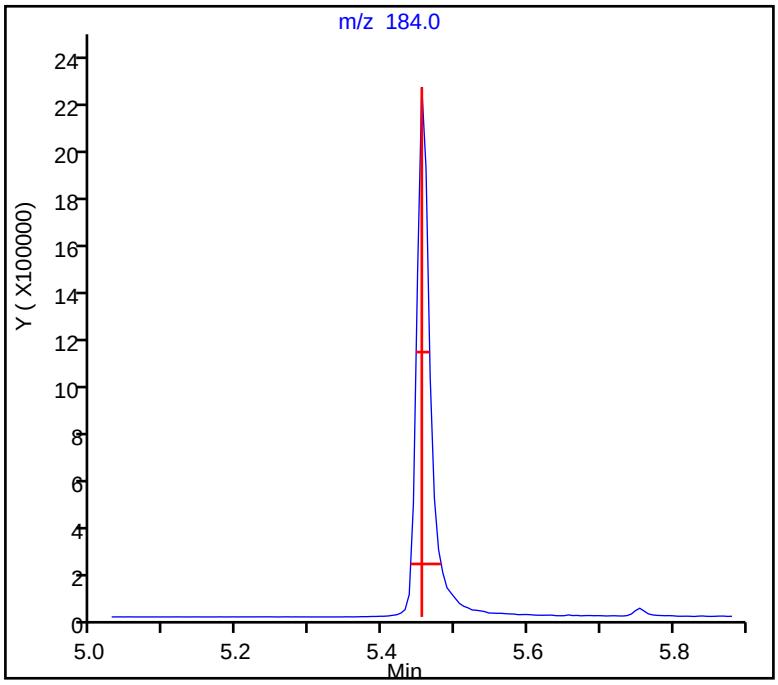
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D
Injection Date: 27-Dec-2021 12:51:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.027 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.80, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

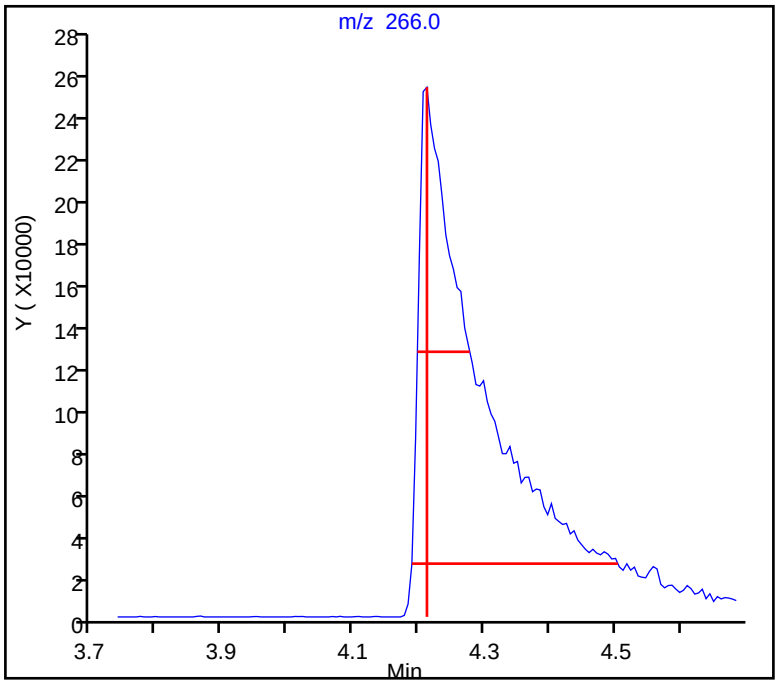
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1200a.D
Injection Date: 27-Dec-2021 12:51:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: whs02991 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.292 (min.)
Front Width = 0.023 (min.)

Tailing Factor = * 12.7, Max. Tailing <= 2.00
Failed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 28-Dec-2021 07:26:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0047246-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 08:43:58 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: gamblerj Date: 28-Dec-2021 08:43:06

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	4.201	4.201	0.000	95	1928632	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.448	5.448	0.000	98	2598033	NR	NR	
47 4,4'-DDE	246	5.587	5.587	0.000	75	11895		NR	
48 4,4'-DDD	235	5.876	5.876	0.000	92	75085		NR	
49 4,4'-DDT	235	6.124	6.124	0.000	95	4139047	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

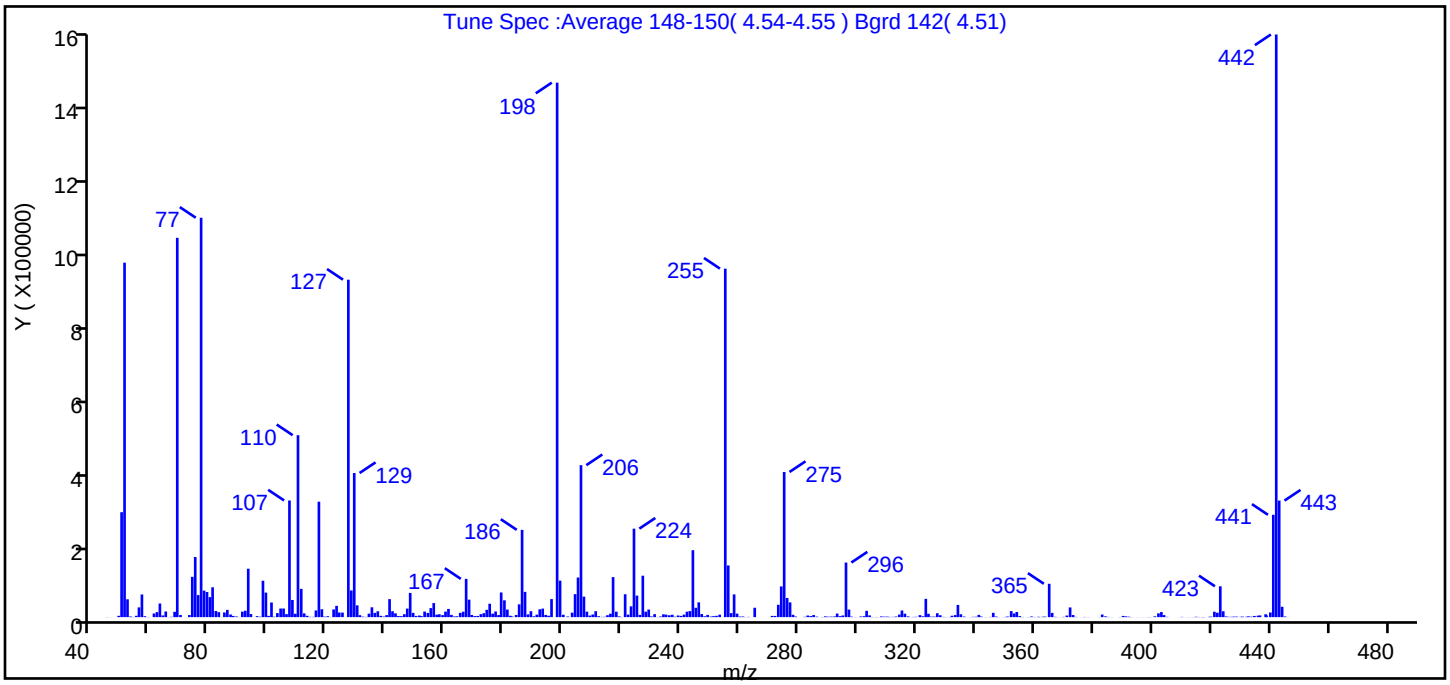
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D
Injection Date: 28-Dec-2021 07:26:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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 (91.7)
51	10-80% of the base peak	66.3
68	<2% of mass 69	1.0 (1.4)
69	Present	71.0
70	<2% of mass 69	0.4 (0.6)
127	10-80% of the base peak	63.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.8
275	10-60% of the base peak	27.2
365	>1% of mass 198	6.2
441	present but <24% of mass 442	19.1 (17.6)
442	base peak, or >50% of 198	109.0
443	15-24% of mass 442	21.8 (20.0)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 28-Dec-2021 07:26:30
Spectrum: Tune Spec :Average 148-150(4.54-4.55) Bgrd 142(4.51)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	311	146.00	7628	243.00	15767	347.00	1556
46.00	133	147.00	22344	244.00	174336	348.00	350
49.00	3479	148.00	63120	245.00	24360	350.00	279
50.00	273344	149.00	11136	246.00	38568	350.00	839
51.00	923136	150.00	3232	247.00	8015	351.00	1454
52.00	46544	151.00	4179	248.00	2267	352.00	15805
53.00	1733	152.00	2719	249.00	5852	353.00	9542
54.00	510	153.00	14496	250.00	1522	354.00	13366
55.00	3548	154.00	10902	251.00	2633	355.00	2735
56.00	25416	155.00	23568	252.00	3507	356.00	504
57.00	59080	156.00	36672	253.00	6404	357.00	109
58.00	2435	157.00	6514	255.00	907712	358.00	333
59.00	438	158.00	7517	256.00	134656	359.00	1776
61.00	9453	159.00	5228	257.00	10402	360.00	453
62.00	13034	160.00	14464	258.00	59256	361.00	921
63.00	35480	161.00	21480	259.00	9141	362.00	425
64.00	4455	162.00	5914	260.00	1602	363.00	1131
65.00	14694	163.00	1782	261.00	1672	364.00	1352
66.00	294	164.00	2269	262.00	277	365.00	86896
67.00	907	165.00	11095	263.00	700	366.00	11028
68.00	13904	166.00	14185	265.00	24472	367.00	856
69.00	987968	167.00	99648	267.00	50	368.00	65
70.00	5545	168.00	45536	270.00	96	369.00	211
72.00	198	169.00	5637	271.00	3254	370.00	668
73.00	5482	170.00	2762	272.00	3184	371.00	4224
74.00	104936	171.00	3180	273.00	32144	372.00	25280
75.00	156672	172.00	7757	274.00	79952	373.00	5545
76.00	57424	173.00	10279	275.00	378048	374.00	682
77.00	1040256	174.00	19024	276.00	49960	375.00	125
78.00	69120	175.00	34928	277.00	38440	376.00	78
79.00	65424	176.00	9063	278.00	6119	377.00	551
80.00	52208	177.00	14716	279.00	1636	378.00	226
81.00	77760	178.00	5384	282.00	852	379.00	91

Report Date: 28-Dec-2021 08:43:58 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 28-Dec-2021 07:26:30
Spectrum: Tune Spec :Average 148-150(4.54-4.55) Bgrd 142(4.51)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	15987	179.00	64288	283.00	4201	382.00	260
83.00	12972	180.00	43864	284.00	2789	383.00	6834
84.00	242	181.00	19664	285.00	5489	384.00	2060
85.00	12150	182.00	3606	286.00	1389	385.00	623
86.00	18912	183.00	1473	288.00	427	386.00	256
87.00	6879	184.00	5562	289.00	2160	389.00	333
88.00	3247	185.00	33312	290.00	1257	390.00	3200
89.00	1737	186.00	227328	291.00	1381	391.00	2139
90.00	169	187.00	65824	292.00	1891	392.00	1251
91.00	14413	188.00	7147	293.00	9289	393.00	396
92.00	16672	189.00	15518	294.00	2589	395.00	248
93.00	126128	190.00	2238	295.00	4364	396.00	156
94.00	8076	191.00	6458	296.00	142208	397.00	190
96.00	2581	192.00	20440	297.00	19672	398.00	109
97.00	1119	193.00	22256	298.00	1314	399.00	393
98.00	94840	194.00	5720	299.00	456	400.00	218
99.00	63976	195.00	3674	301.00	1733	401.00	2148
100.00	3317	196.00	47032	302.00	2490	402.00	9872
101.00	38168	198.00	1392128	303.00	16480	403.00	13250
102.00	1114	199.00	95104	304.00	4598	404.00	5319
103.00	10537	200.00	6218	305.00	470	405.00	747
104.00	22464	202.00	1673	306.00	414	406.00	61
105.00	22504	203.00	11630	307.00	249	409.00	196
106.00	7864	204.00	59856	308.00	1868	410.00	668
107.00	303872	205.00	103232	309.00	1339	411.00	88
108.00	44744	206.00	395840	310.00	1378	412.00	202
109.00	8737	207.00	53440	311.00	672	413.00	187
110.00	473920	208.00	14181	312.00	712	414.00	368
111.00	73624	209.00	4146	313.00	1609	415.00	1053
112.00	9779	210.00	6872	314.00	6664	416.00	467
113.00	3549	211.00	15503	315.00	17328	417.00	422
114.00	842	212.00	2363	316.00	8964	418.00	377
115.00	678	213.00	664	317.00	2015	419.00	750
116.00	17424	214.00	921	318.00	253	420.00	1342

Report Date: 28-Dec-2021 08:43:58 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 28-Dec-2021 07:26:30
Spectrum: Tune Spec :Average 148-150(4.54-4.55) Bgrd 142(4.51)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	300736	215.00	5068	319.00	577	421.00	14132
118.00	20512	216.00	9004	320.00	892	422.00	11584
119.00	1430	217.00	104280	321.00	5247	423.00	80312
120.00	2445	218.00	14188	322.00	2288	424.00	15307
121.00	220	219.00	1927	323.00	47680	425.00	1789
122.00	20120	220.00	385	324.00	8692	426.00	871
123.00	29400	221.00	59656	325.00	1383	427.00	890
124.00	12030	222.00	6601	326.00	1412	428.00	1291
125.00	11889	223.00	28136	327.00	10203	429.00	1272
127.00	878912	224.00	230464	328.00	4962	430.00	880
128.00	69480	225.00	56128	329.00	657	431.00	1313
129.00	375360	226.00	5879	330.00	314	432.00	1078
130.00	30704	227.00	107936	331.00	478	433.00	2133
131.00	5091	228.00	14257	332.00	3690	434.00	1254
132.00	1364	229.00	19768	333.00	5371	435.00	3181
133.00	701	230.00	1832	334.00	31808	436.00	3942
134.00	9066	231.00	7790	335.00	7514	437.00	4431
135.00	25616	232.00	450	336.00	1540	439.00	7529
136.00	11119	233.00	1731	337.00	156	439.00	4440
137.00	15279	234.00	7412	338.00	259	440.00	12181
138.00	3473	235.00	6481	339.00	807	441.00	266560
139.00	1433	236.00	4882	340.00	1061	442.00	1517568
140.00	5313	237.00	6212	341.00	5898	443.00	303552
141.00	46944	238.00	1061	342.00	1644	444.00	27000
142.00	15314	239.00	4386	343.00	208	445.00	1704
143.00	9893	240.00	3260	344.00	306	446.00	158
144.00	2898	241.00	6647	345.00	628	461.00	62
145.00	2574	242.00	14231	346.00	11243	484.00	53

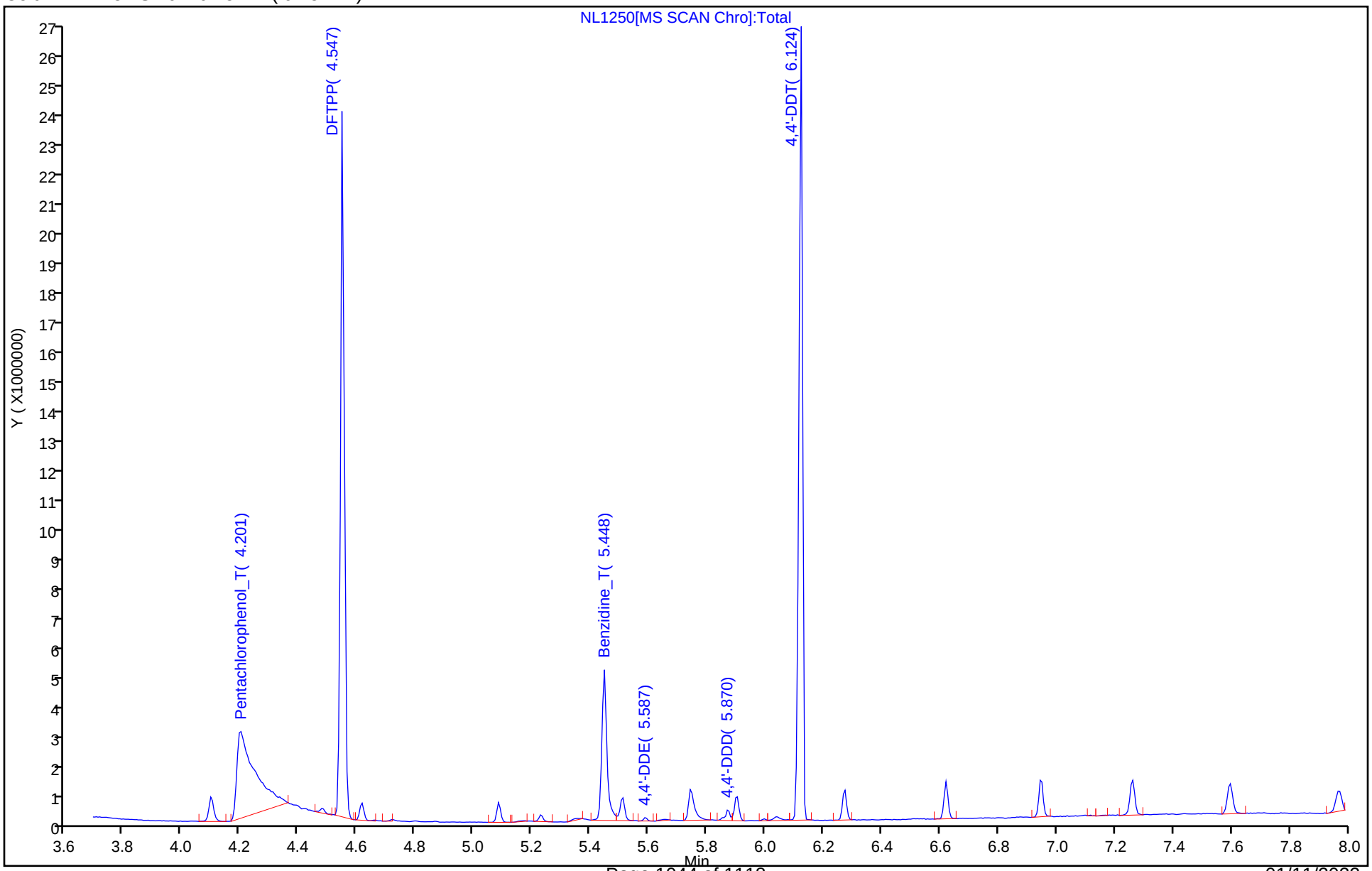
Report Date: 28-Dec-2021 08:43:58 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D

Injection Date:	28-Dec-2021 07:26:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D
Injection Date: 28-Dec-2021 07:26:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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

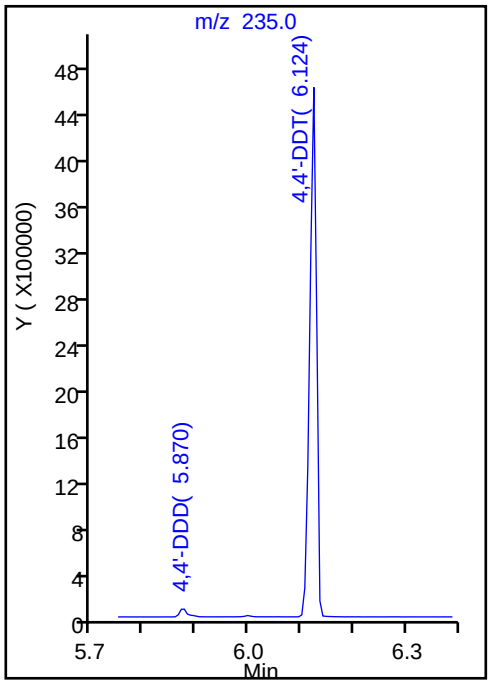
49 4,4'-DDT, Detector: MS SCAN

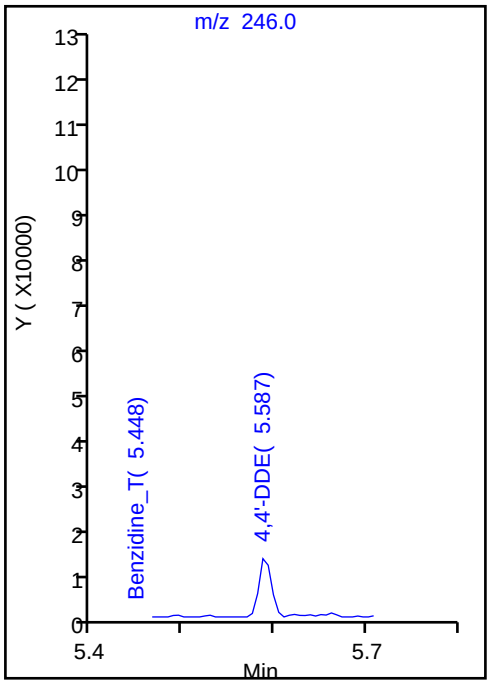
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 4139047
47 4,4'-DDE, Area = 11895
48 4,4'-DDD, Area = 75085

%Breakdown: 2.06%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

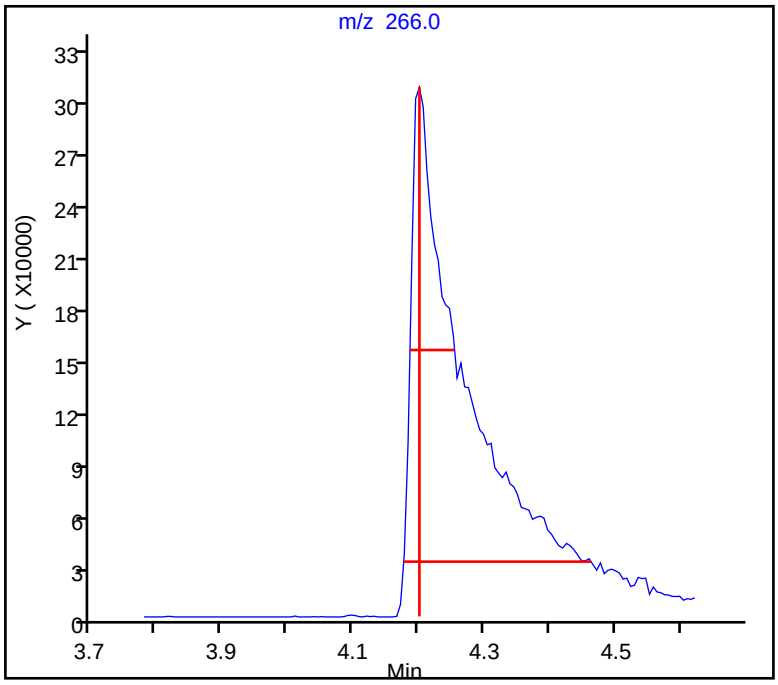
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D
Injection Date: 28-Dec-2021 07:26:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.263 (min.)
Front Width = 0.024 (min.)

Tailing Factor = * 11.0, Max. Tailing <= 2.00
Failed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

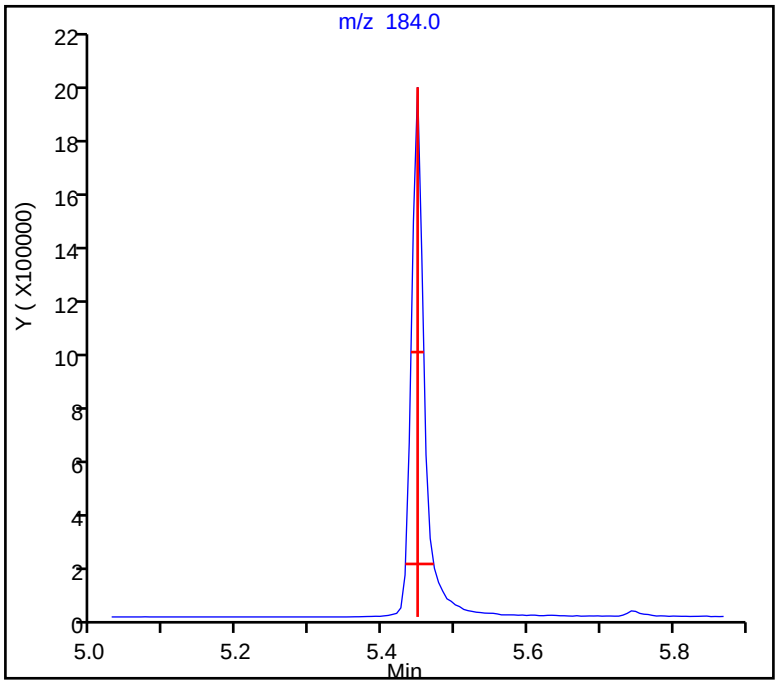
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211228-47246.b\NL1250.D
Injection Date: 28-Dec-2021 07:26:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.29, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 30-Dec-2021 05:22:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0047435-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 30-Dec-2021 06:30:36 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1682

First Level Reviewer: gamblerj Date: 30-Dec-2021 05:38:53

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	4.166	4.166	0.000	97	1967239	NR	NR	
45 DFTPP									
46 Benzidine_T	184	5.420	5.420	0.000	98	4344997	NR	NR	
47 4,4'-DDE	246	5.558	5.558	0.000	73	10329		NR	
48 4,4'-DDD	235	5.841	5.841	0.000	94	56687		NR	
49 4,4'-DDT	235	6.089	6.089	0.000	96	3738413	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
8 - Failed MS Tune Ratio Test

Reagents:

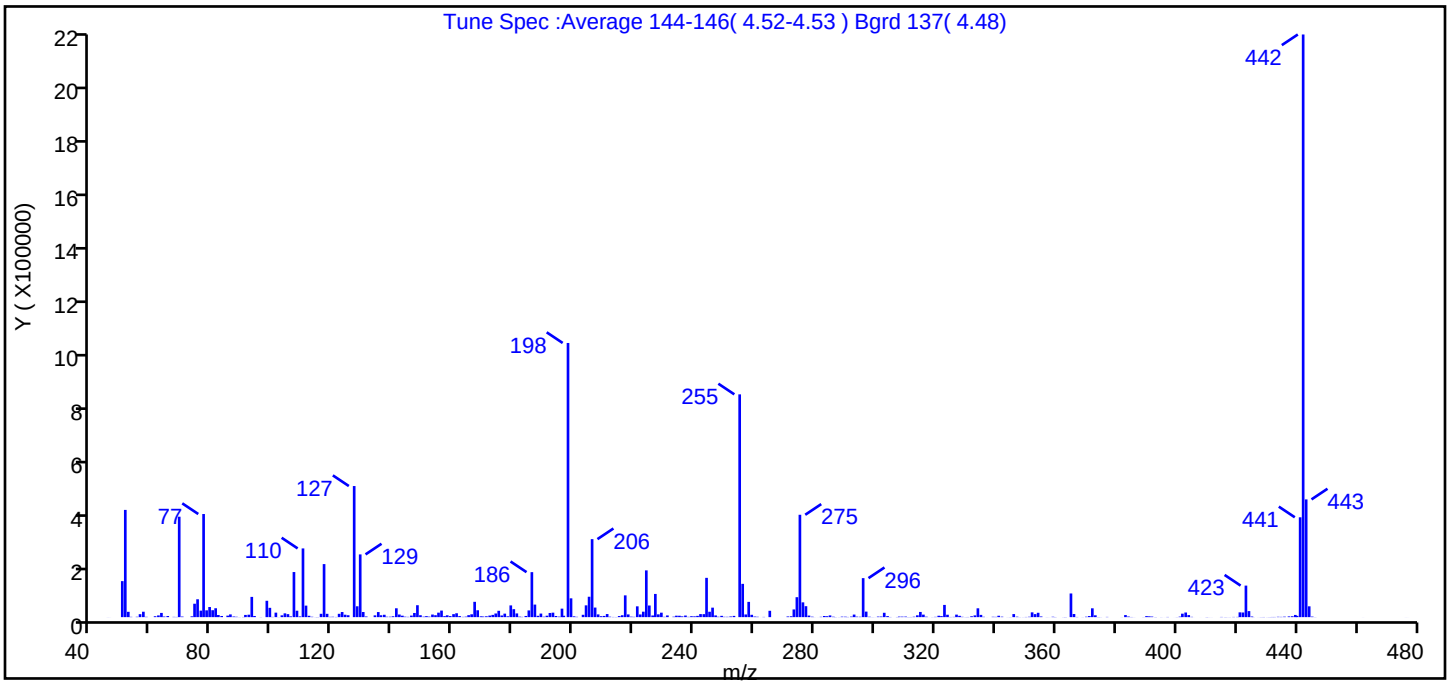
MSS_RVDFTPP_00008 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D
Injection Date: 30-Dec-2021 05:22:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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 (47.1)
51	10-80% of the base peak	39.1
68	<2% of mass 69	0.1 (0.2)
69	Present	36.6
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	47.8
197	<2% of mass 198	0.5
199	5-9% of mass 198	6.9
275	10-60% of the base peak	37.3
365	>1% of mass 198	8.6
441	present but <24% of mass 442	36.4 (17.1)
442	base peak, or >50% of 198	212.5
443	15-24% of mass 442	42.9 (20.2)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 30-Dec-2021 05:22:30
Spectrum: Tune Spec :Average 144-146(4.52-4.53) Bgrd 137(4.48)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	167	151.00	3773	244.00	147968	345.00	426
46.00	114	152.00	1918	245.00	20312	346.00	11561
50.00	135616	153.00	9774	246.00	35728	347.00	1756
51.00	403776	154.00	7284	247.00	6482	348.00	325
52.00	20064	155.00	16864	248.00	1496	349.00	262
53.00	1133	156.00	24720	249.00	4910	350.00	731
55.00	1393	157.00	3813	250.00	1283	351.00	1478
56.00	11155	158.00	6961	251.00	1250	352.00	18048
57.00	20392	159.00	3924	252.00	2586	353.00	11412
58.00	1174	160.00	11301	253.00	4696	354.00	16440
61.00	3413	161.00	14578	255.00	838848	355.00	2508
62.00	6444	162.00	3934	256.00	125336	357.00	279
63.00	15912	163.00	1017	257.00	10127	358.00	154
64.00	2274	164.00	1881	258.00	57504	359.00	1424
65.00	4242	165.00	7452	259.00	8802	360.00	580
67.00	999	166.00	10764	260.00	2180	363.00	287
68.00	760	167.00	57696	261.00	1426	363.00	527
69.00	378176	168.00	25912	262.00	29	365.00	89144
70.00	2156	169.00	3067	263.00	821	366.00	11772
73.00	3012	170.00	2306	265.00	23912	367.00	740
74.00	50496	171.00	3273	271.00	2588	369.00	260
75.00	67344	172.00	5859	272.00	3301	370.00	1636
76.00	24488	173.00	8469	273.00	28984	371.00	4154
77.00	388288	174.00	13744	274.00	75104	372.00	33288
78.00	25664	175.00	23896	275.00	385472	373.00	6882
79.00	38128	176.00	6231	276.00	55688	374.00	565
80.00	26096	177.00	13164	277.00	41248	375.00	294
81.00	33496	178.00	3147	278.00	5926	377.00	873
82.00	7994	179.00	44216	279.00	1693	382.00	238
83.00	4327	180.00	30000	280.00	198	383.00	7791
85.00	5702	181.00	13984	281.00	111	384.00	2332
86.00	10283	182.00	1891	282.00	1261	385.00	642
87.00	2335	183.00	1031	283.00	4283	386.00	202

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 30-Dec-2021 05:22:30
Spectrum: Tune Spec :Average 144-146(4.52-4.53) Bgrd 137(4.48)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	1420	184.00	4432	284.00	3505	389.00	330
89.00	367	185.00	25288	285.00	6524	390.00	3857
90.00	661	186.00	169408	286.00	1620	391.00	3002
91.00	8334	187.00	47272	287.00	507	392.00	2188
92.00	9192	188.00	5064	288.00	328	393.00	519
93.00	76240	189.00	13466	289.00	1856	395.00	271
94.00	4333	190.00	1621	290.00	1696	396.00	84
96.00	371	191.00	5389	291.00	722	397.00	731
98.00	61616	192.00	15687	292.00	2096	400.00	78
99.00	35080	193.00	16872	293.00	9684	400.00	352
100.00	874	194.00	4290	294.00	1856	401.00	1942
101.00	16920	195.00	1929	295.00	1419	402.00	13034
102.00	346	196.00	32008	296.00	146880	403.00	17432
103.00	6777	197.00	5204	297.00	20872	404.00	7697
104.00	14291	198.00	1032320	298.00	1563	405.00	1093
105.00	11322	199.00	70864	299.00	363	406.00	63
106.00	2843	200.00	2933	300.00	165	408.00	72
107.00	169792	201.00	1211	301.00	2086	410.00	469
108.00	24184	203.00	8844	302.00	2269	411.00	183
109.00	2658	204.00	44408	303.00	16416	412.00	139
110.00	258752	205.00	76816	304.00	3913	415.00	84
111.00	43368	206.00	293696	305.00	639	415.00	768
112.00	5104	207.00	36064	307.00	606	416.00	418
113.00	1430	208.00	10324	308.00	2053	417.00	261
114.00	338	209.00	3569	309.00	1908	418.00	301
115.00	542	210.00	4565	310.00	2132	419.00	799
116.00	12587	211.00	11663	311.00	530	420.00	837
117.00	199744	212.00	1713	312.00	648	421.00	18000
118.00	12506	213.00	726	313.00	1621	422.00	17480
119.00	1109	214.00	575	314.00	6945	423.00	118768
120.00	1460	215.00	4163	315.00	19584	424.00	22728
121.00	734	216.00	7114	316.00	9473	425.00	2327
122.00	12535	217.00	81984	317.00	1696	426.00	290
123.00	19264	218.00	10279	318.00	103	427.00	119

Report Date: 30-Dec-2021 06:30:36 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 30-Dec-2021 05:22:30
Spectrum: Tune Spec :Average 144-146(4.52-4.53) Bgrd 137(4.48)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
124.00	9121	219.00	1797	319.00	334	428.00	400
125.00	7172	220.00	1136	320.00	1078	429.00	595
127.00	493632	221.00	40720	321.00	5244	430.00	263
128.00	40880	222.00	10131	322.00	3780	431.00	443
129.00	236224	223.00	20576	323.00	46008	432.00	689
130.00	19336	224.00	176064	324.00	9037	433.00	706
131.00	2421	225.00	43832	325.00	714	434.00	1324
134.00	6751	226.00	6229	326.00	996	435.00	1006
135.00	19096	227.00	87392	327.00	9495	436.00	1810
136.00	7139	228.00	10507	328.00	4972	438.00	2774
137.00	8886	229.00	16824	329.00	1281	439.00	3339
138.00	1556	230.00	1191	330.00	429	440.00	8296
139.00	1598	231.00	6366	331.00	655	440.00	4816
140.00	3261	233.00	1750	332.00	3360	441.00	376000
141.00	33368	234.00	5489	333.00	6603	442.00	2193920
142.00	9870	235.00	5253	334.00	33312	443.00	443328
143.00	5445	236.00	2916	335.00	8499	444.00	40768
144.00	1753	237.00	6027	336.00	1264	445.00	2064
145.00	1072	238.00	1161	337.00	117	446.00	346
146.00	5896	239.00	3536	339.00	1363	462.00	105
147.00	15672	240.00	3038	340.00	1035	476.00	116
148.00	44912	241.00	4826	341.00	5253	477.00	70
149.00	7240	242.00	11513	342.00	1751		
150.00	1757	243.00	11293	344.00	200		

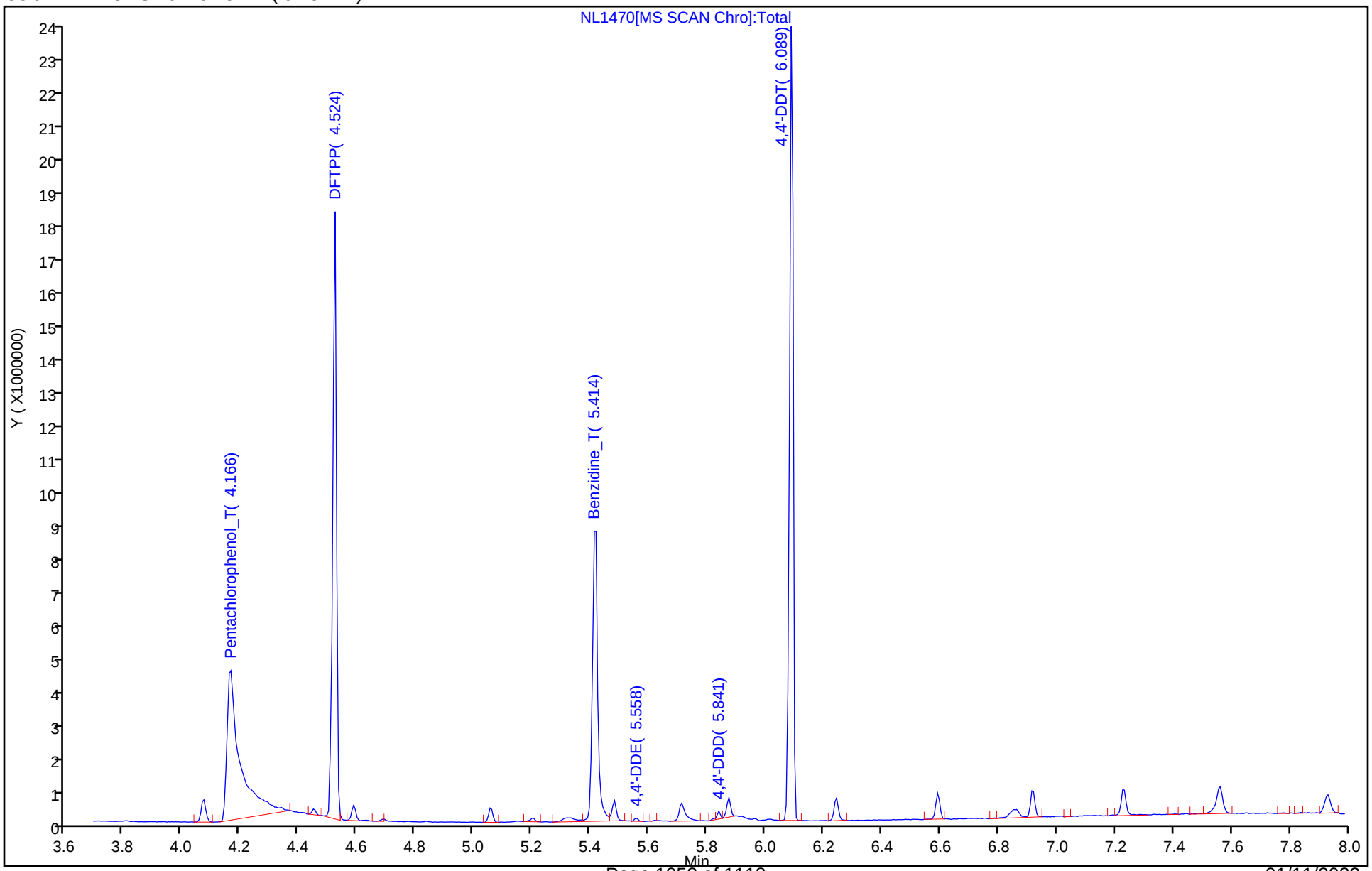
Report Date: 30-Dec-2021 06:30:36 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D

Injection Date:	30-Dec-2021 05:22:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D
Injection Date: 30-Dec-2021 05:22:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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

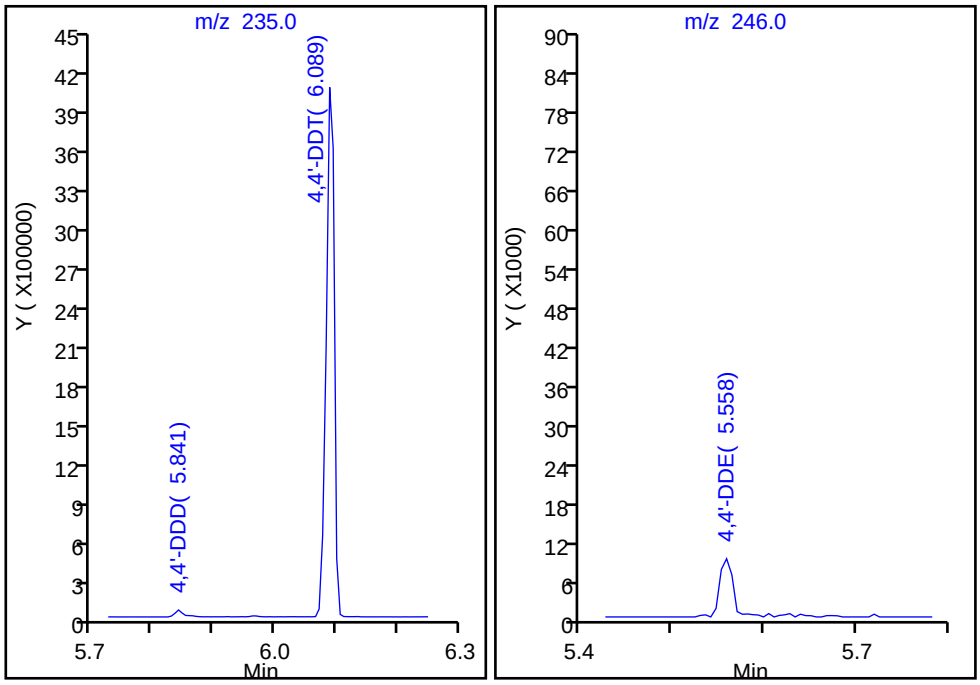
49 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 3738413
47 4,4'-DDE, Area = 10329
48 4,4'-DDD, Area = 56687

%Breakdown: 1.76%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

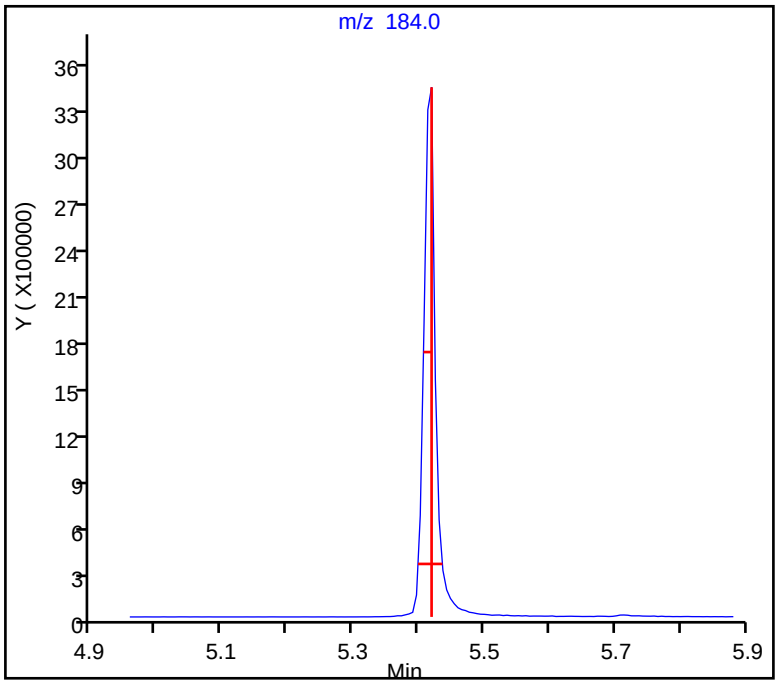
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D
Injection Date: 30-Dec-2021 05:22:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.81, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

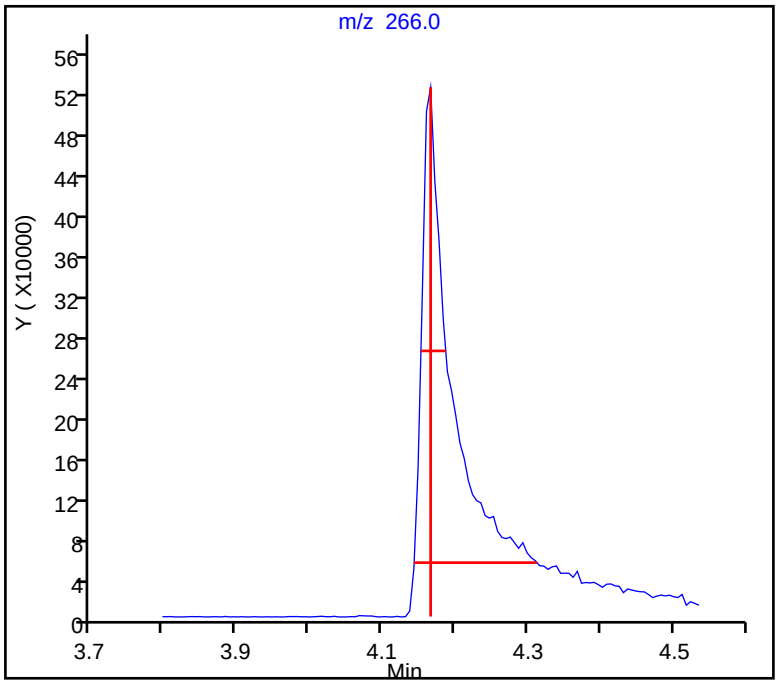
Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1470.D
Injection Date: 30-Dec-2021 05:22:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.147 (min.)
Front Width = 0.023 (min.)

Tailing Factor = * 6.4, Max. Tailing <= 2.00
Failed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 03-Jan-2022 05:49:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0047551-001
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 03-Jan-2022 06:48:49 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1670

First Level Reviewer: gamblerj Date: 03-Jan-2022 06:47:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
45 DFTPP									
46 Benzidine_T	184	5.419	5.419	0.000	98	2386850	NR	NR	
47 4,4'-DDE	246	5.552	5.552	0.000	75	18078		NR	
48 4,4'-DDD	235	5.835	5.835	0.000	93	44583		NR	
49 4,4'-DDT	235	6.089	6.089	0.000	96	3454596	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

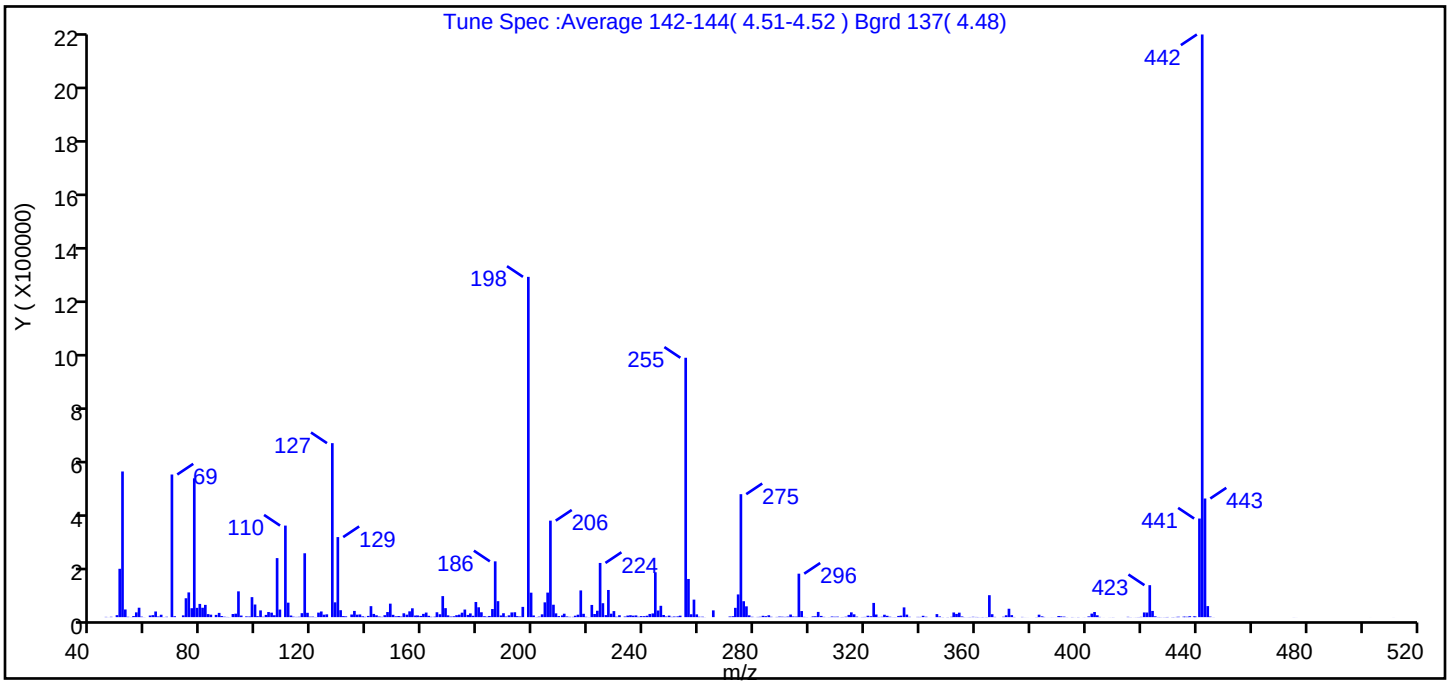
MSS_RVDFTPP_00009 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D
Injection Date: 03-Jan-2022 05:49:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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 (58.4)
51	10-80% of the base peak	42.8
68	<2% of mass 69	0.0 (0.0)
69	Present	41.9
70	<2% of mass 69	0.3 (0.6)
127	10-80% of the base peak	51.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.2
275	10-60% of the base peak	36.1
365	>1% of mass 198	6.5
441	present but <24% of mass 442	29.0 (16.9)
442	base peak, or >50% of 198	171.2
443	15-24% of mass 442	34.9 (20.4)

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 03-Jan-2022 05:49:30
Spectrum: Tune Spec :Average 142-144(4.51-4.52) Bgrd 137(4.48)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	969	147.00	19152	243.00	14012	347.00	2522
46.00	187	148.00	50816	244.00	168960	348.00	447
47.00	1381	149.00	8807	245.00	24968	350.00	550
49.00	7397	150.00	3006	246.00	42680	351.00	1284
50.00	182016	151.00	4188	247.00	8143	352.00	17592
51.00	548352	152.00	2218	248.00	2392	353.00	12140
52.00	28896	153.00	14547	249.00	5776	354.00	16896
53.00	1394	154.00	9350	250.00	1245	355.00	2591
54.00	283	155.00	21888	251.00	2369	356.00	445
55.00	4036	156.00	33352	252.00	2785	357.00	345
56.00	18008	157.00	6049	253.00	5582	358.00	610
57.00	35472	158.00	6392	255.00	976448	359.00	1324
58.00	1897	159.00	4673	256.00	143680	360.00	762
59.00	301	160.00	12279	257.00	10879	361.00	571
61.00	6118	161.00	17264	258.00	65952	362.00	316
62.00	7525	162.00	4983	259.00	10426	363.00	573
63.00	21312	163.00	1328	260.00	1618	364.00	574
64.00	2425	164.00	1765	261.00	1680	365.00	82648
65.00	9035	165.00	18400	262.00	257	366.00	11032
66.00	366	166.00	10924	265.00	25528	367.00	940
67.00	1494	167.00	79192	271.00	2506	369.00	74
69.00	536960	168.00	33888	272.00	3396	370.00	1594
70.00	3398	169.00	6793	273.00	35024	371.00	6902
73.00	6645	170.00	2240	274.00	85496	372.00	31640
74.00	71104	171.00	3260	275.00	462912	373.00	7506
75.00	93120	172.00	7285	276.00	59976	374.00	727
76.00	33640	173.00	9362	277.00	40696	377.00	864
77.00	522624	174.00	16776	278.00	6832	378.00	193
78.00	34976	175.00	28592	279.00	1424	379.00	120
79.00	49776	176.00	8377	280.00	141	382.00	532
80.00	35344	177.00	14086	281.00	881	383.00	9259
81.00	46152	178.00	5110	282.00	1375	384.00	2967
82.00	11435	179.00	57056	283.00	5124	385.00	795

Report Date: 03-Jan-2022 06:48:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 03-Jan-2022 05:49:30
Spectrum: Tune Spec :Average 142-144(4.51-4.52) Bgrd 137(4.48)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	9287	180.00	37128	284.00	3642	386.00	140
84.00	148	181.00	18392	285.00	7078	387.00	165
85.00	8475	182.00	3414	286.00	1371	388.00	248
86.00	16029	183.00	1602	287.00	83	389.00	180
87.00	4147	184.00	4415	288.00	821	390.00	4097
88.00	1639	185.00	30544	289.00	2144	391.00	2941
89.00	765	186.00	210048	290.00	1657	392.00	2018
90.00	416	187.00	60160	291.00	1059	393.00	324
91.00	11733	188.00	6307	292.00	2103	395.00	596
92.00	13022	189.00	14778	293.00	9753	396.00	147
93.00	97120	190.00	2218	294.00	2467	397.00	589
94.00	5948	191.00	6743	295.00	2019	399.00	170
95.00	98	192.00	17736	296.00	163648	400.00	153
96.00	2851	193.00	18400	297.00	22888	401.00	2773
97.00	2478	194.00	3695	298.00	996	402.00	13236
98.00	75296	195.00	2429	299.00	421	403.00	19288
99.00	47576	196.00	38616	300.00	239	404.00	7022
100.00	3649	198.00	1281024	301.00	2810	405.00	826
101.00	25360	199.00	92088	302.00	3278	406.00	156
102.00	1485	200.00	6286	303.00	19680	408.00	156
103.00	8395	201.00	607	304.00	4628	409.00	150
104.00	19256	202.00	1996	305.00	1014	410.00	355
105.00	16904	203.00	10575	306.00	207	413.00	67
106.00	7122	204.00	55704	307.00	384	415.00	1218
107.00	222272	205.00	92392	308.00	2376	416.00	377
108.00	28504	206.00	363264	309.00	1636	418.00	124
110.00	344640	207.00	46760	310.00	1995	418.00	328
111.00	54504	208.00	14244	311.00	354	419.00	563
112.00	6073	209.00	3983	312.00	652	420.00	1096
113.00	1756	210.00	6419	313.00	1620	421.00	17632
114.00	954	211.00	12929	314.00	8451	422.00	17344
115.00	1440	212.00	2611	315.00	18056	423.00	120376
116.00	15008	213.00	1215	316.00	10614	424.00	23360
117.00	240448	214.00	1053	317.00	1962	425.00	3024

Report Date: 03-Jan-2022 06:48:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D\8270_SIM_HP23263.rslt\spectra
Injection Date: 03-Jan-2022 05:49:30
Spectrum: Tune Spec :Average 142-144(4.51-4.52) Bgrd 137(4.48)
Base Peak: 442.20
Minimum % Base Peak: 0
Number of Points: 374

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	16333	215.00	5375	318.00	147	426.00	621
119.00	1745	216.00	9210	319.00	631	427.00	457
120.00	2011	217.00	100576	320.00	877	428.00	409
121.00	628	218.00	12607	321.00	5365	429.00	475
122.00	17008	219.00	1370	322.00	3319	430.00	668
123.00	21384	220.00	334	323.00	53544	431.00	492
124.00	9278	221.00	45928	324.00	9925	432.00	417
125.00	10539	222.00	11791	325.00	751	433.00	1041
127.00	654976	223.00	24048	326.00	1379	434.00	1396
128.00	55752	224.00	204032	327.00	9014	436.00	1717
129.00	301376	225.00	52424	328.00	5063	436.00	1640
130.00	26120	226.00	7662	329.00	1509	437.00	1366
131.00	3783	227.00	102248	330.00	398	438.00	3445
132.00	2960	228.00	12959	331.00	539	439.00	2914
134.00	9891	229.00	22800	332.00	4575	440.00	2160
135.00	23432	230.00	1625	333.00	5658	441.00	371200
136.00	9407	231.00	7131	334.00	36728	442.00	2193408
137.00	10164	233.00	2315	335.00	9528	443.00	446592
138.00	3083	234.00	5947	336.00	1330	444.00	41616
139.00	1110	235.00	7249	339.00	974	445.00	2198
140.00	4621	236.00	5591	340.00	870	446.00	315
141.00	41360	237.00	6483	341.00	5087	475.00	189
142.00	12169	238.00	1540	342.00	1604	476.00	100
143.00	6907	239.00	3943	343.00	98	503.00	60
144.00	2372	240.00	3696	344.00	136	512.00	110
145.00	1134	241.00	5344	345.00	109		
146.00	7345	242.00	12033	346.00	11495		

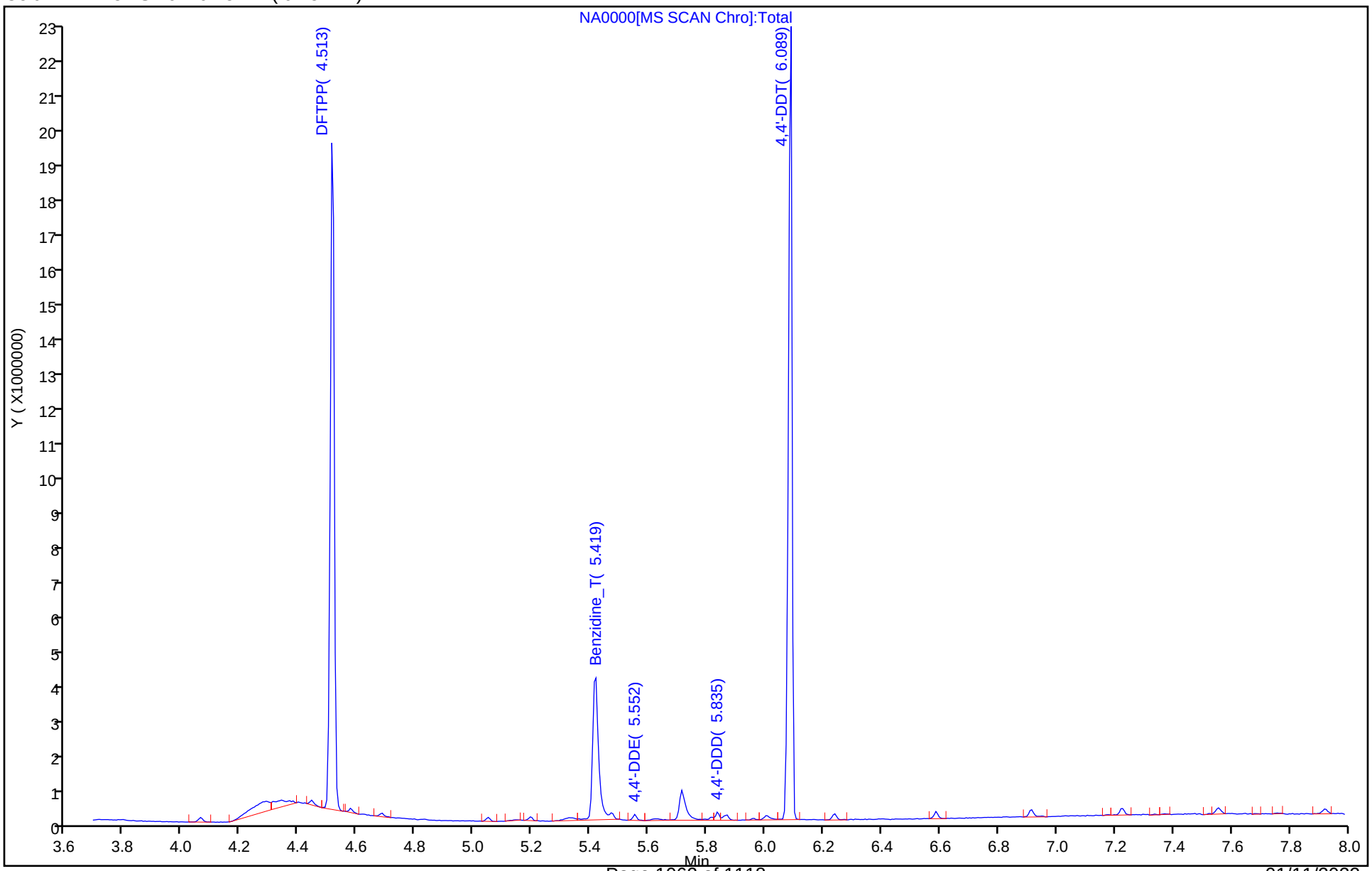
Report Date: 03-Jan-2022 06:48:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D

Injection Date:	03-Jan-2022 05:49:30	Instrument ID:	HP23263	Operator ID:	jmg00346
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 Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D
Injection Date: 03-Jan-2022 05:49:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 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

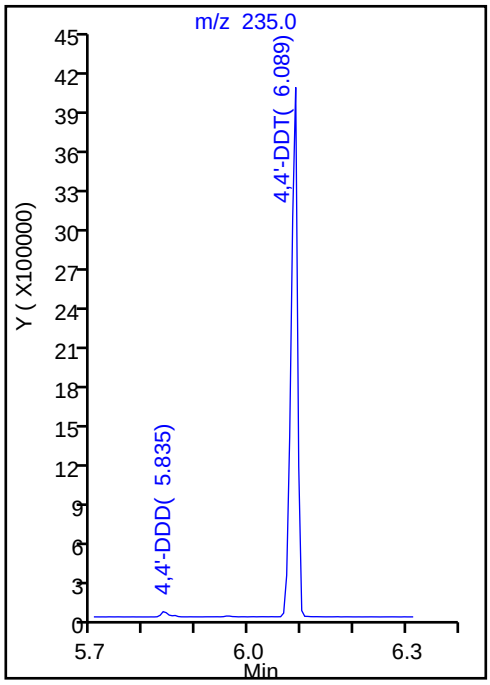
49 4,4'-DDT, Detector: MS SCAN

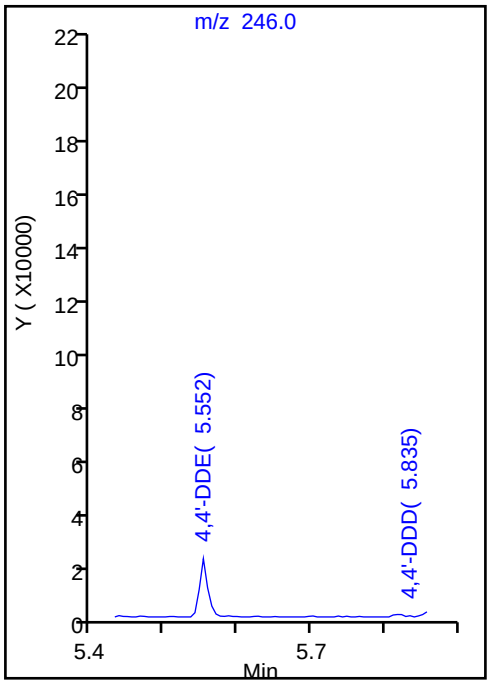
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 3454596
47 4,4'-DDE, Area = 18078
48 4,4'-DDD, Area = 44583

%Breakdown: 1.78%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

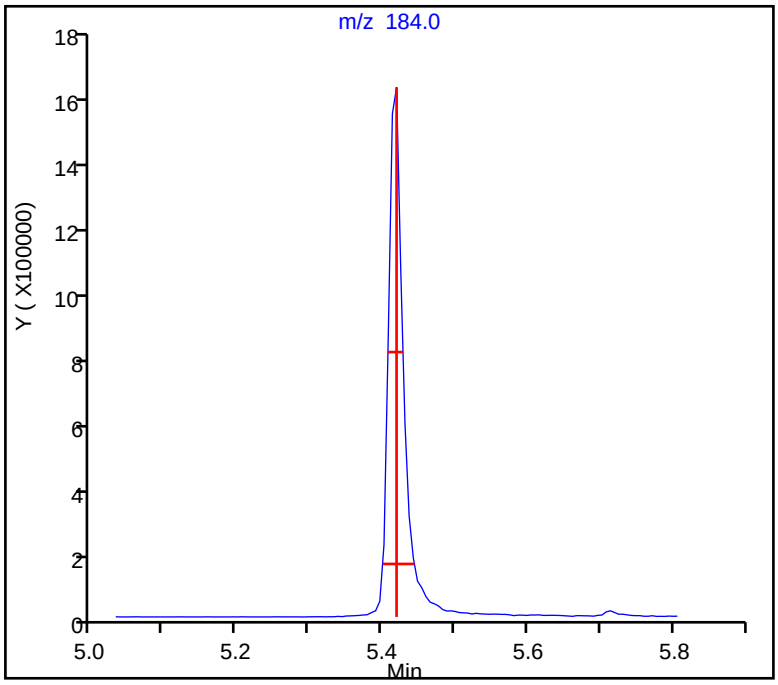
Data File: \\chromfs\Lancaster\ChromData\HP23263\20220103-47551.b\NA0000.D
Injection Date: 03-Jan-2022 05:49:30 Instrument ID: HP23263
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP23263 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.025 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.32, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-209023/1-A

Matrix: Water Lab File ID: NL1202.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 250(mL) Date Analyzed: 12/27/2021 15:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 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)	96		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	92		36-111
93951-69-0	Fluoranthene-d10 (Surr)	93		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1202.D
Lims ID: MB 410-209023/1-A
Client ID:
Sample Type: MB
Inject. Date: 27-Dec-2021 15:08:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-209023/1-A
Misc. Info.: 410-0047167-003
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:04:43

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	5.943	5.943	0.000	95	83654	0.2500	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	283284	0.2500	0.2500	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	137813	0.2500	0.2292	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	95	158969	0.2500	0.2500	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	282144	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	98	251977	0.2500	0.2330	
* 29 Chrysene-d12	240	16.744	16.737	0.007	82	225686	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.045	19.053	0.000	99	187572	0.2500	0.2395	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	217824	0.2500	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

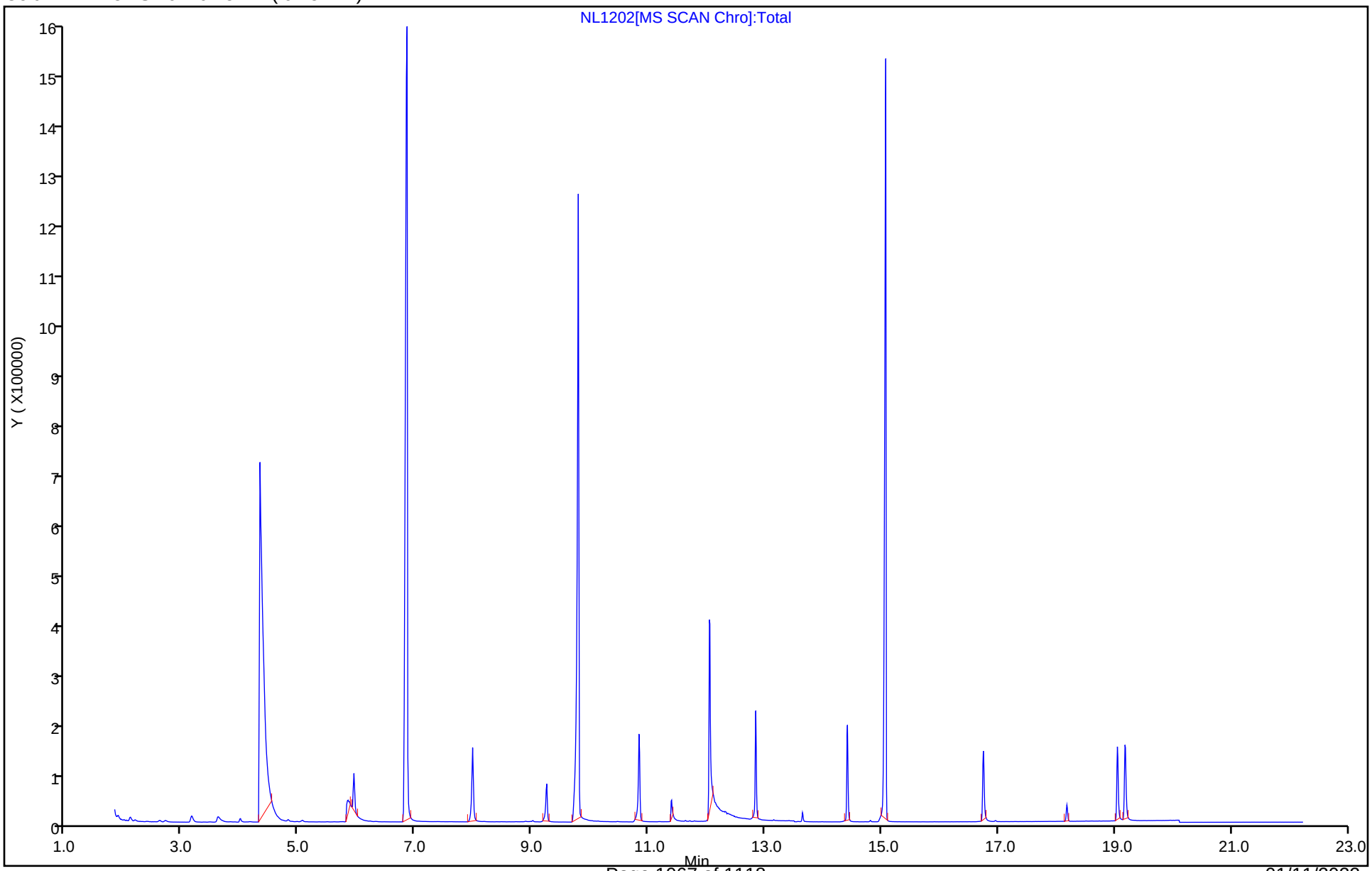
Report Date: 28-Dec-2021 06:59:05 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1202.D

Injection Date:	27-Dec-2021 15:08:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	MB 410-209023/1-A			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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-209125/1-A

Matrix: Water Lab File ID: NL1472.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 250(mL) Date Analyzed: 12/30/2021 06:40

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 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		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	66		36-111
93951-69-0	Fluoranthene-d10 (Surr)	81		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1472.D
Lims ID: MB 410-209125/1-A
Client ID:
Sample Type: MB
Inject. Date: 30-Dec-2021 06:40:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-209125/1-A
Misc. Info.: 410-0047435-003
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:01:57 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 13:24:11

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	5.906	5.919	-0.013	92	57863	0.2500	0.2500	
* 5 Naphthalene-d8	136	7.956	7.956	0.000	100	173749	0.2500	0.2500	
8 2-Methylnaphthalene	142	9.133	9.143	0.000	89	799		0.001723	7M
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	99	60817	0.2500	0.1649	
* 13 Acenaphthene-d10	164	10.816	10.816	0.000	90	97493	0.2500	0.2500	
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	100	178722	0.2500	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	14.388	14.394	0.000	97	139340	0.2500	0.2034	
* 29 Chrysene-d12	240	16.708	16.700	0.008	81	171986	0.2500	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.009	19.009	0.000	96	128059	0.2500	0.2019	
* 38 Perylene-d12	264	19.139	19.139	0.000	95	175515	0.2500	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

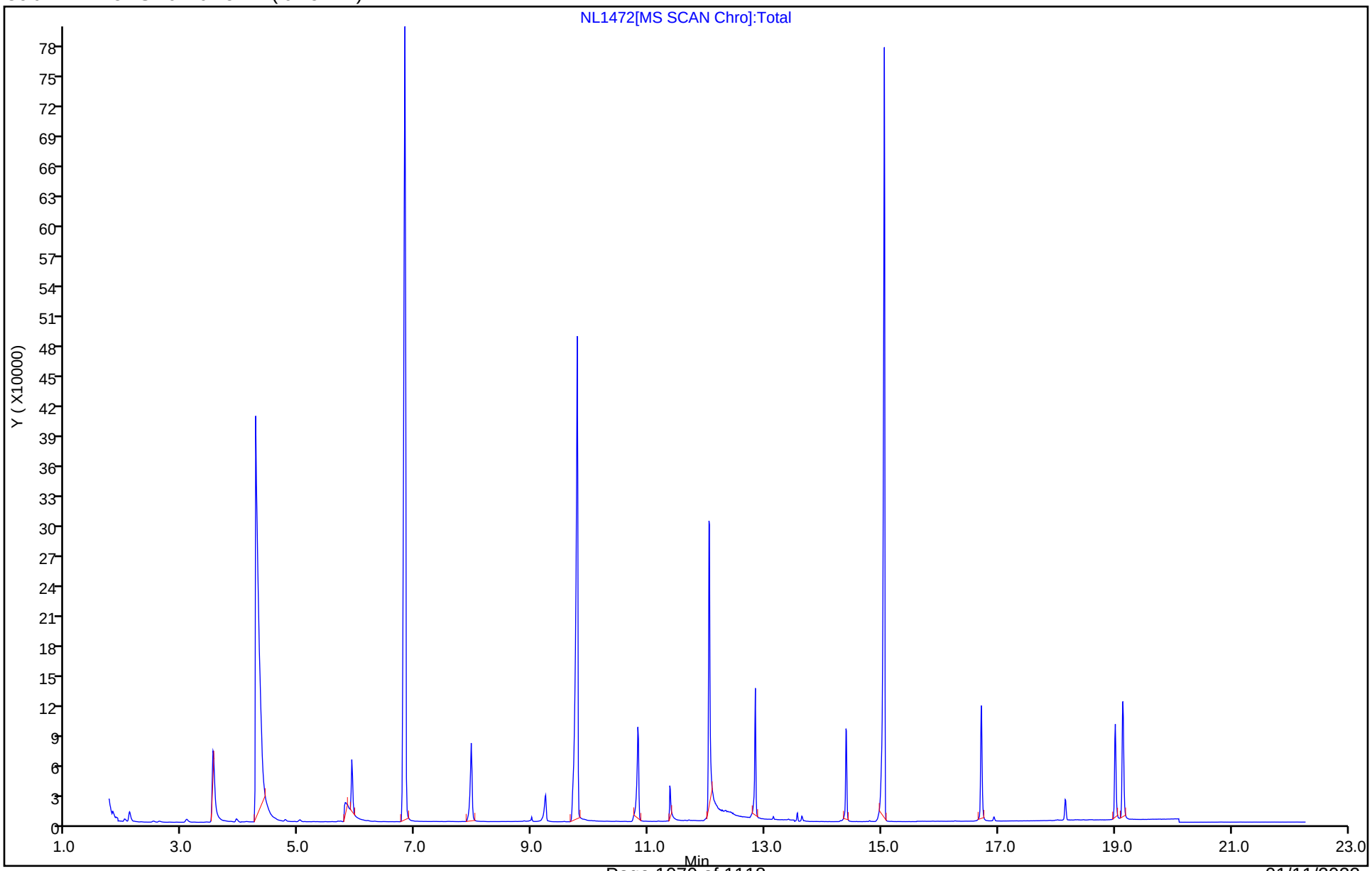
Report Date: 31-Dec-2021 14:02:19 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1472.D

Injection Date:	30-Dec-2021 06:40:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	MB 410-209125/1-A			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)



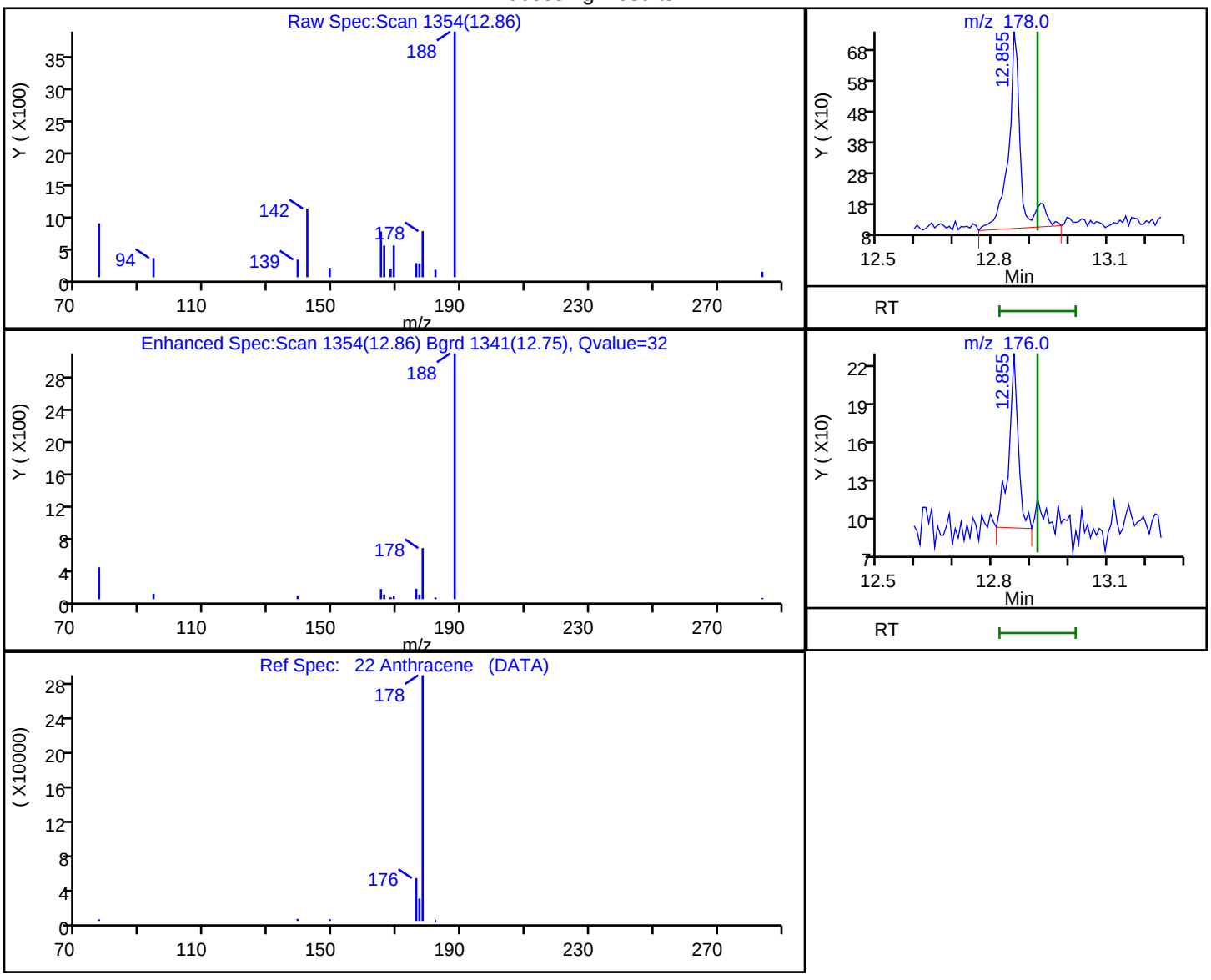
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1472.D				
Injection Date:	30-Dec-2021 06:40:30	Instrument ID:	HP23263		
Lims ID:	MB 410-209125/1-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	3	Worklist Smp#:	3
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		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
12.86	178.00	1416	0.001931
12.86	176.00	224	

Reviewer: transuea, 31-Dec-2021 13:23:39

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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-210459/1-A

Matrix: Water Lab File ID: ML1802.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/30/2021 09:26

Sample wt/vol: 250(mL) Date Analyzed: 12/31/2021 14:43

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210855 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)	87		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	87		36-111
93951-69-0	Fluoranthene-d10 (Surr)	93		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1802.D
Lims ID: MB 410-210459/1-A
Client ID:
Sample Type: MB
Inject. Date: 31-Dec-2021 14:43:56 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-210459/1-A
Misc. Info.: 410-0047541-003
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 04-Jan-2022 13:17:34 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: transuea Date: 04-Jan-2022 12:57:57

	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	3.176	3.162	0.044	84	3800		0.0327	M
*	4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	82	45656	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.931	8.931	0.000	92	137484	0.2500	0.2500	
$	9 1-Methylnaphthalene-d10	152	10.154	10.166	-0.012	99	69587	0.2500	0.2180	
*	13 Acenaphthene-d10	164	11.706	11.706	0.000	93	95930	0.2500	0.2500	
*	20 Phenanthrene-d10	188	13.597	13.597	0.000	95	203171	0.2500	0.2500	
$	24 Fluoranthene-d10 (Surr)	212	15.270	15.275	-0.005	96	207126	0.2500	0.2320	
*	29 Chrysene-d12	240	17.691	17.696	-0.005	55	231514	0.2500	0.2500	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.038	20.038	-0.005	97	213751	0.2500	0.2186	
*	38 Perylene-d12	264	20.176	20.173	0.003	97	270134	0.2500	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

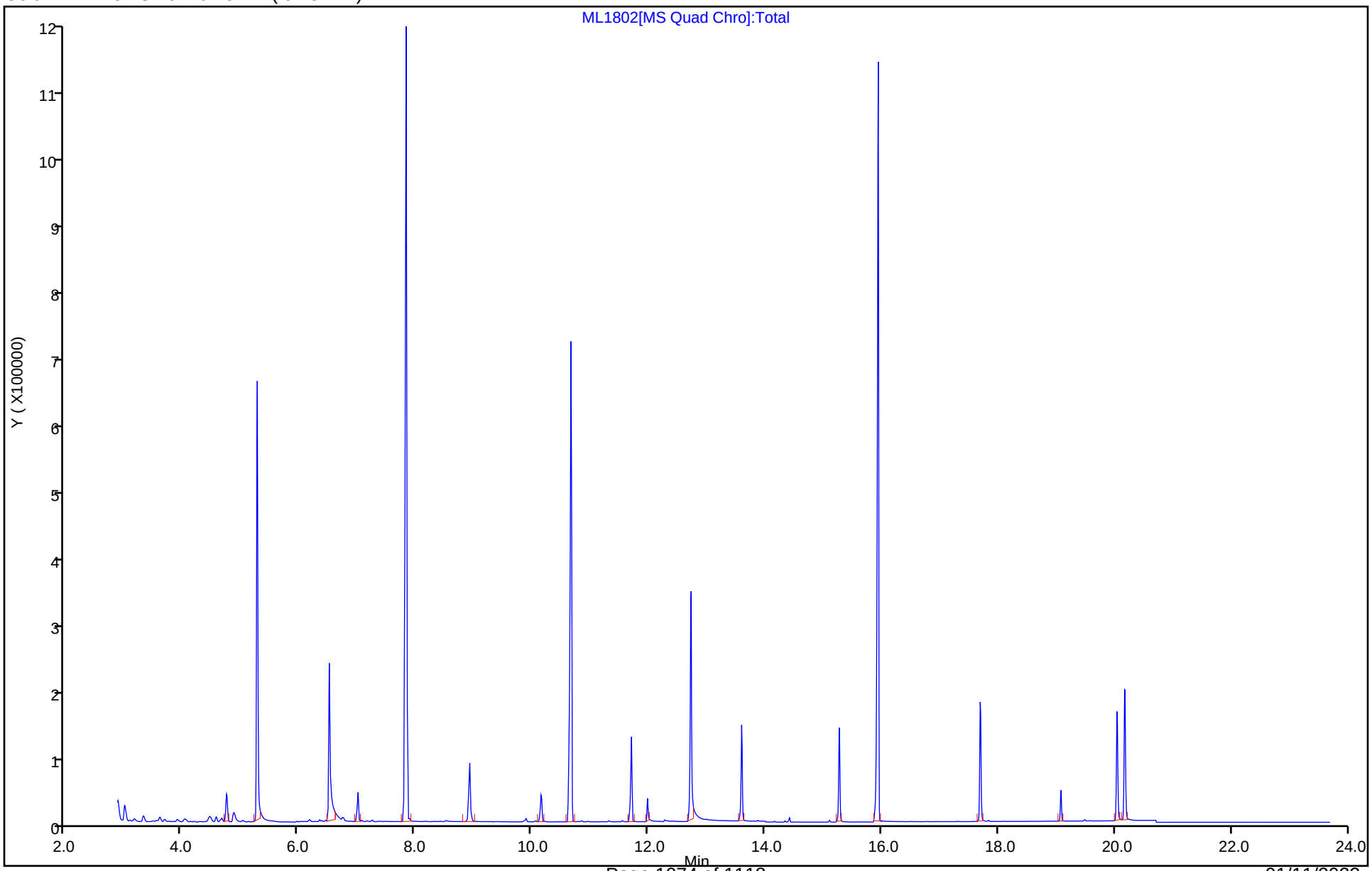
Report Date: 04-Jan-2022 13:18:33 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1802.D

Injection Date:	31-Dec-2021 14:43:56	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	MB 410-210459/1-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)



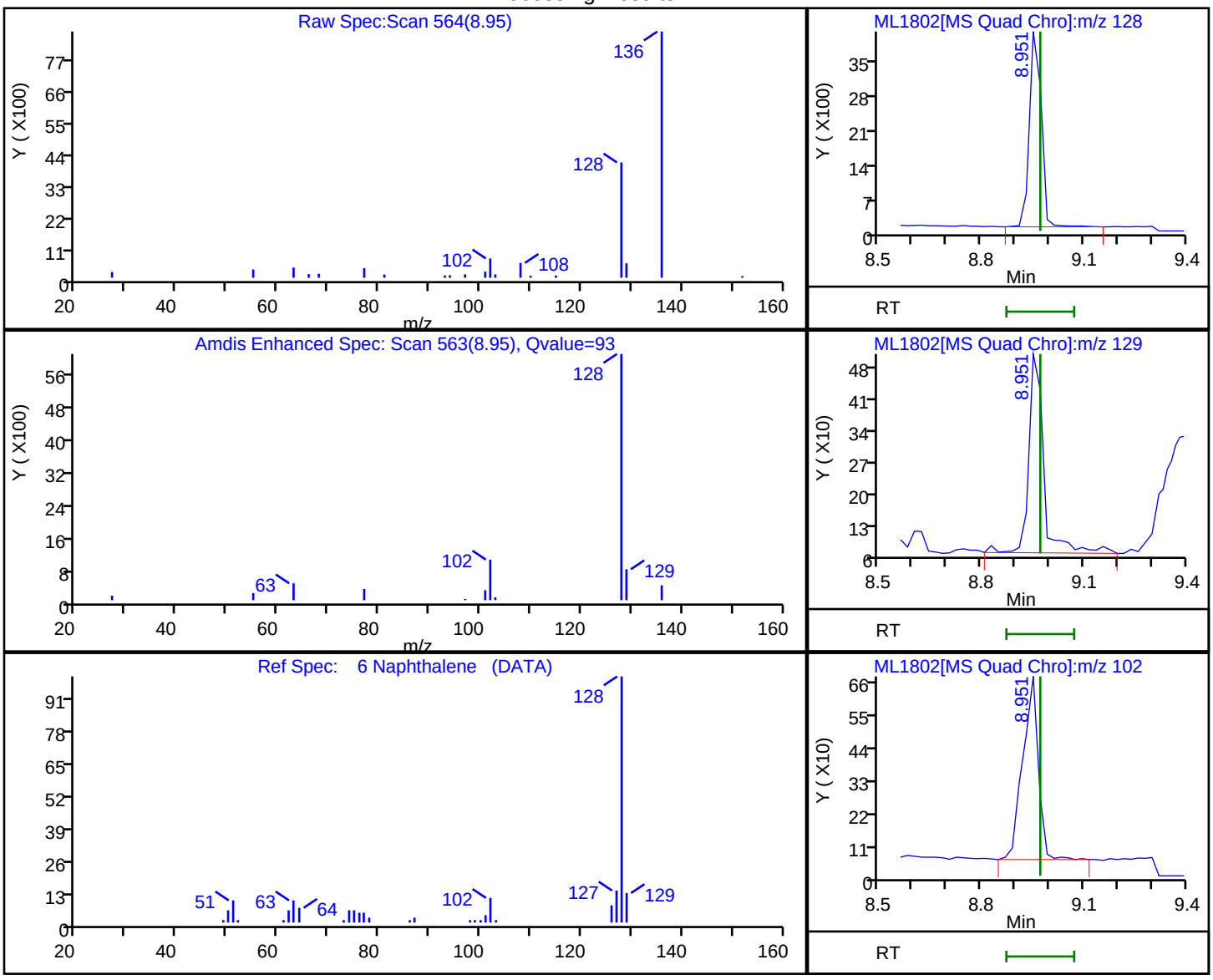
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1802.D				
Injection Date:	31-Dec-2021 14:43:56	Instrument ID:	HP21585		
Lims ID:	MB 410-210459/1-A				
Client ID:					
Operator ID:	art12405	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
8.95	128.00	9647	0.015943
8.95	129.00	1340	
8.95	102.00	1980	

Reviewer: transuea, 04-Jan-2022 12:57:42

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 E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-209023/2-A

Matrix: Water Lab File ID: NL1203.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 250(mL) Date Analyzed: 12/27/2021 15:36

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.907		0.050	0.010
208-96-8	Acenaphthylene	0.884		0.050	0.010
120-12-7	Anthracene	0.934		0.050	0.010
56-55-3	Benzo[a]anthracene	1.06		0.050	0.010
50-32-8	Benzo[a]pyrene	1.14		0.050	0.010
205-99-2	Benzo[b]fluoranthene	1.51		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	1.26		0.050	0.010
207-08-9	Benzo[k]fluoranthene	1.37		0.050	0.010
218-01-9	Chrysene	1.06		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	1.37		0.050	0.020
206-44-0	Fluoranthene	1.03		0.050	0.010
86-73-7	Fluorene	1.00		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.45		0.050	0.020
91-20-3	Naphthalene	0.917		0.070	0.030
85-01-8	Phenanthrene	0.986		0.070	0.030
129-00-0	Pyrene	0.913		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	91		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	94		36-111
93951-69-0	Fluoranthene-d10 (Surr)	94		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1203.D
Lims ID: LCS 410-209023/2-A
Client ID:
Sample Type: LCS
Inject. Date: 27-Dec-2021 15:36:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-209023/2-A
Misc. Info.: 410-0047167-004
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:09:16

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	2.052	2.065	0.066	72	25674	0.2500	0.1138	M
* 4 1,4-Dichlorobenzene-d4	152	5.955	5.943	0.012	98	79176	0.2500	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	272842	0.2500	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	100	261423	0.2500	0.2292	
8 2-Methylnaphthalene	142	9.152	9.152	0.000	100	167374	0.2500	0.2299	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	136740	0.2500	0.2362	
10 1-Methylnaphthalene	142	9.303	9.302	0.001	100	171461	0.2500	0.2347	
12 Acenaphthylene	152	10.605	10.614	0.011	99	239853	0.2500	0.2209	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	95	152266	0.2500	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	100	153422	0.2500	0.2268	
17 Fluorene	166	11.696	11.696	0.000	100	198937	0.2500	0.2503	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	269705	0.2500	0.2500	
21 Phenanthrene	178	12.862	12.870	0.000	100	291280	0.2500	0.2464	
22 Anthracene	178	12.932	12.939	0.008	100	258476	0.2500	0.2336	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	98	243504	0.2500	0.2356	
25 Fluoranthene	202	14.437	14.448	0.006	98	298279	0.2500	0.2572	
26 Pyrene	202	14.757	14.775	0.000	98	302992	0.2500	0.2282	
28 Benzo[a]anthracene	228	16.721	16.736	0.000	100	268535	0.2500	0.2641	
* 29 Chrysene-d12	240	16.737	16.737	0.000	91	212203	0.2500	0.2500	
30 Chrysene	228	16.783	16.790	0.000	100	289013	0.2500	0.2643	
33 Benzo[b]fluoranthene	252	18.562	18.592	0.008	100	283054	0.2500	0.3782	
34 Benzo[k]fluoranthene	252	18.608	18.639	0.008	100	291285	0.2500	0.3416	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.045	19.053	0.000	99	124367	0.2500	0.2271	
37 Benzo[a]pyrene	252	19.084	19.099	0.008	100	205289	0.2500	0.2839	
* 38 Perylene-d12	264	19.176	19.175	0.001	96	152049	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.782	20.845	0.007	96	239493	0.2500	0.3635	M
41 Dibenz(a,h)anthracene	278	20.825	20.833	0.000	98	259509	0.2500	0.3437	
42 Benzo[g,h,i]perylene	276	21.143	21.168	0.000	98	262001	0.2500	0.3144	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021	Amount Added:	10.00	Units: uL	Run Reagent

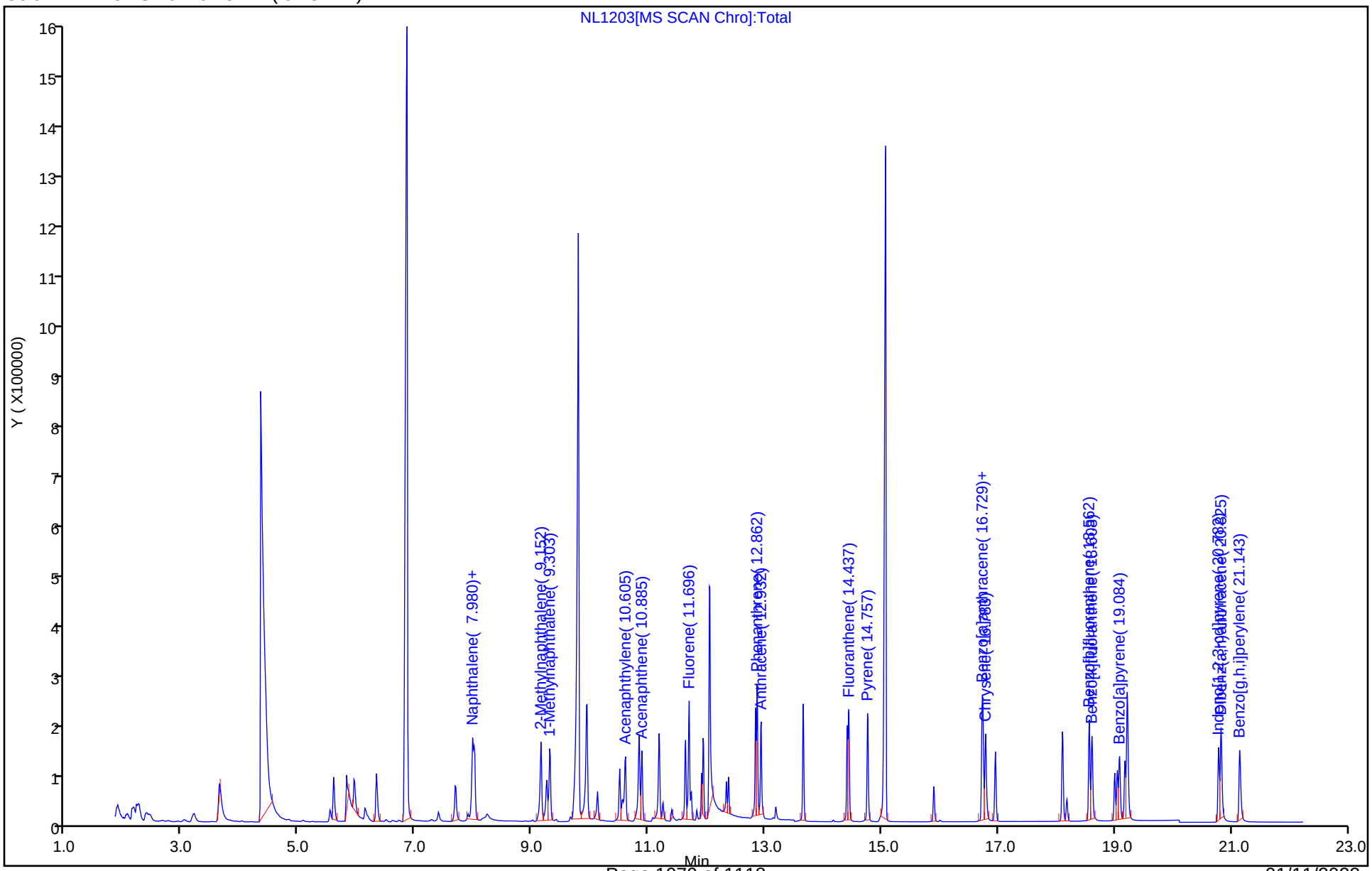
Report Date: 28-Dec-2021 06:59:06 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1203.D

Injection Date:	27-Dec-2021 15:36:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	LCS 410-209023/2-A			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 Env, LLC

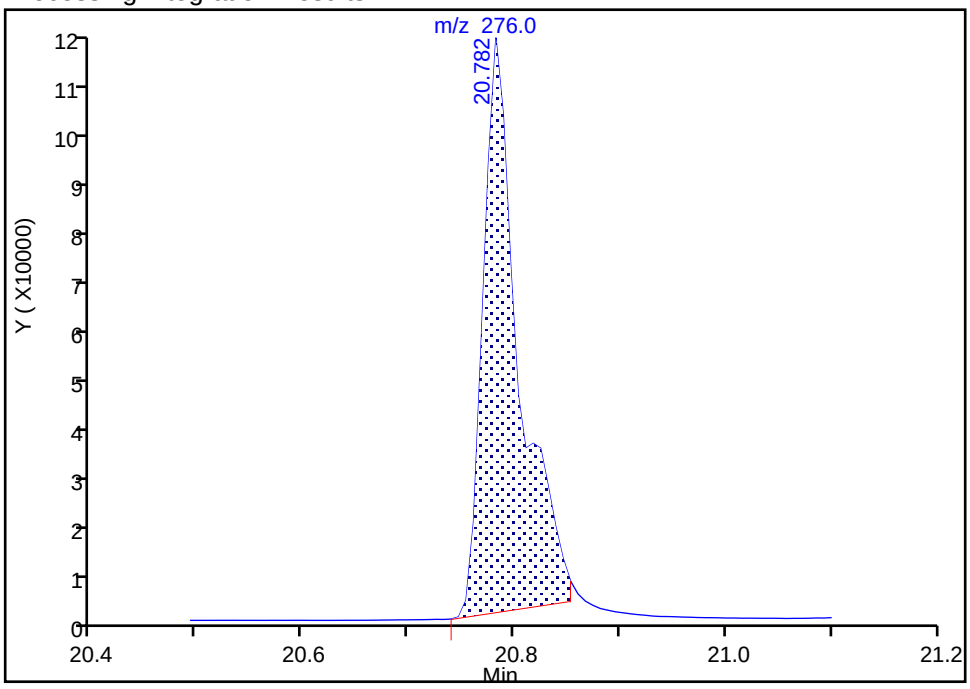
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1203.D				
Injection Date:	27-Dec-2021 15:36:30	Instrument ID:	HP23263		
Lims ID:	LCS 410-209023/2-A				
Client ID:					
Operator ID:	whs02991	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

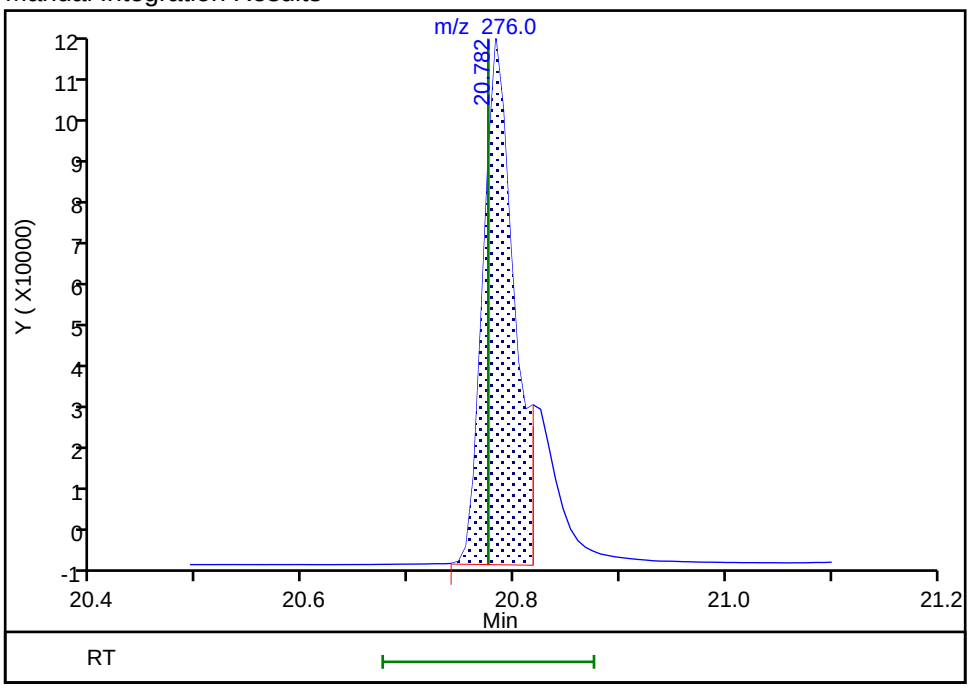
Processing Integration Results

RT: 20.78
Area: 275082
Amount: 0.417466
Amount Units: ug/ml



Manual Integration Results

RT: 20.78
Area: 239493
Amount: 0.363456
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:06:14

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-209125/2-A

Matrix: Water Lab File ID: NL1473.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/27/2021 10:30

Sample wt/vol: 250(mL) Date Analyzed: 12/30/2021 07:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210397 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.992		0.050	0.010
208-96-8	Acenaphthylene	1.07		0.050	0.010
120-12-7	Anthracene	1.03		0.050	0.010
56-55-3	Benzo[a]anthracene	1.20		0.050	0.010
50-32-8	Benzo[a]pyrene	1.02		0.050	0.010
205-99-2	Benzo[b]fluoranthene	1.21		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.940		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.989		0.050	0.010
218-01-9	Chrysene	1.02		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.949		0.050	0.020
206-44-0	Fluoranthene	1.20		0.050	0.010
86-73-7	Fluorene	1.10		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	1.04		0.050	0.020
91-20-3	Naphthalene	0.899		0.070	0.030
85-01-8	Phenanthrene	1.13		0.070	0.030
129-00-0	Pyrene	0.921		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	96		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	90		36-111
93951-69-0	Fluoranthene-d10 (Surr)	96		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1473.D
Lims ID: LCS 410-209125/2-A
Client ID:
Sample Type: LCS
Inject. Date: 30-Dec-2021 07:08:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-209125/2-A
Misc. Info.: 410-0047435-004
Operator ID: jmg00346 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 31-Dec-2021 14:01:57 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

First Level Reviewer: transuea Date: 31-Dec-2021 13:25:22

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	1.956	1.886	0.070	96	10804	0.2500	0.0649	
* 4 1,4-Dichlorobenzene-d4	152	5.919	5.919	0.000	100	58410	0.2500	0.2500	
* 5 Naphthalene-d8	136	7.956	7.956	0.000	100	172605	0.2500	0.2500	
6 Naphthalene	128	7.993	7.993	0.000	100	162225	0.2500	0.2248	
8 2-Methylnaphthalene	142	9.133	9.143	0.000	99	110893	0.2500	0.2408	
$ 9 1-Methylnaphthalene-d10	152	9.233	9.233	0.000	98	82533	0.2500	0.2253	
12 Acenaphthylene	152	10.585	10.585	0.000	97	183516	0.2500	0.2671	
* 13 Acenaphthene-d10	164	10.816	10.816	0.000	92	96373	0.2500	0.2500	
14 Acenaphthene	154	10.866	10.876	0.000	94	106220	0.2500	0.2481	
17 Fluorene	166	11.681	11.689	0.000	98	138896	0.2500	0.2761	
19 Hexachlorobenzene	284	12.376	12.368	0.007	87	80347	0.2500	0.3923	
* 20 Phenanthrene-d10	188	12.832	12.832	0.000	100	181001	0.2500	0.2500	
21 Phenanthrene	178	12.855	12.855	0.000	100	224919	0.2500	0.2835	
22 Anthracene	178	12.917	12.924	0.000	100	191769	0.2500	0.2582	
$ 24 Fluoranthene-d10 (Surr)	212	14.388	14.394	0.000	96	166215	0.2500	0.2396	
25 Fluoranthene	202	14.413	14.419	0.000	96	233840	0.2500	0.3004	
26 Pyrene	202	14.739	14.739	0.007	94	246271	0.2500	0.2302	
28 Benzo[a]anthracene	228	16.685	16.693	0.000	100	246054	0.2500	0.3002	
* 29 Chrysene-d12	240	16.708	16.700	0.008	96	171015	0.2500	0.2500	
30 Chrysene	228	16.746	16.754	0.000	100	223921	0.2500	0.2539	
31 Bis(2-ethylhexyl) phthalate	149	16.923	16.938	-0.008	100	128730	0.2500	0.2250	
33 Benzo[b]fluoranthene	252	18.518	18.549	-0.008	100	273141	0.2500	0.3018	
34 Benzo[k]fluoranthene	252	18.572	18.579	0.000	100	255007	0.2500	0.2472	
35 Benzo[e]pyrene	252	18.963	18.978	0.000	100	127391	0.2695	0.1387	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.009	19.009	0.000	95	158118	0.2500	0.2391	
37 Benzo[a]pyrene	252	19.040	19.055	-0.007	100	222919	0.2500	0.2549	
* 38 Perylene-d12	264	19.132	19.139	-0.007	95	183905	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.741	20.763	0.000	93	207875	0.2500	0.2608	M
41 Dibenz(a,h)anthracene	278	20.784	20.792	0.000	95	216749	0.2500	0.2373	
42 Benzo[g,h,i]perylene	276	21.102	21.123	0.000	93	236766	0.2500	0.2349	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021	Amount Added:	10.00	Units: uL	Run Reagent

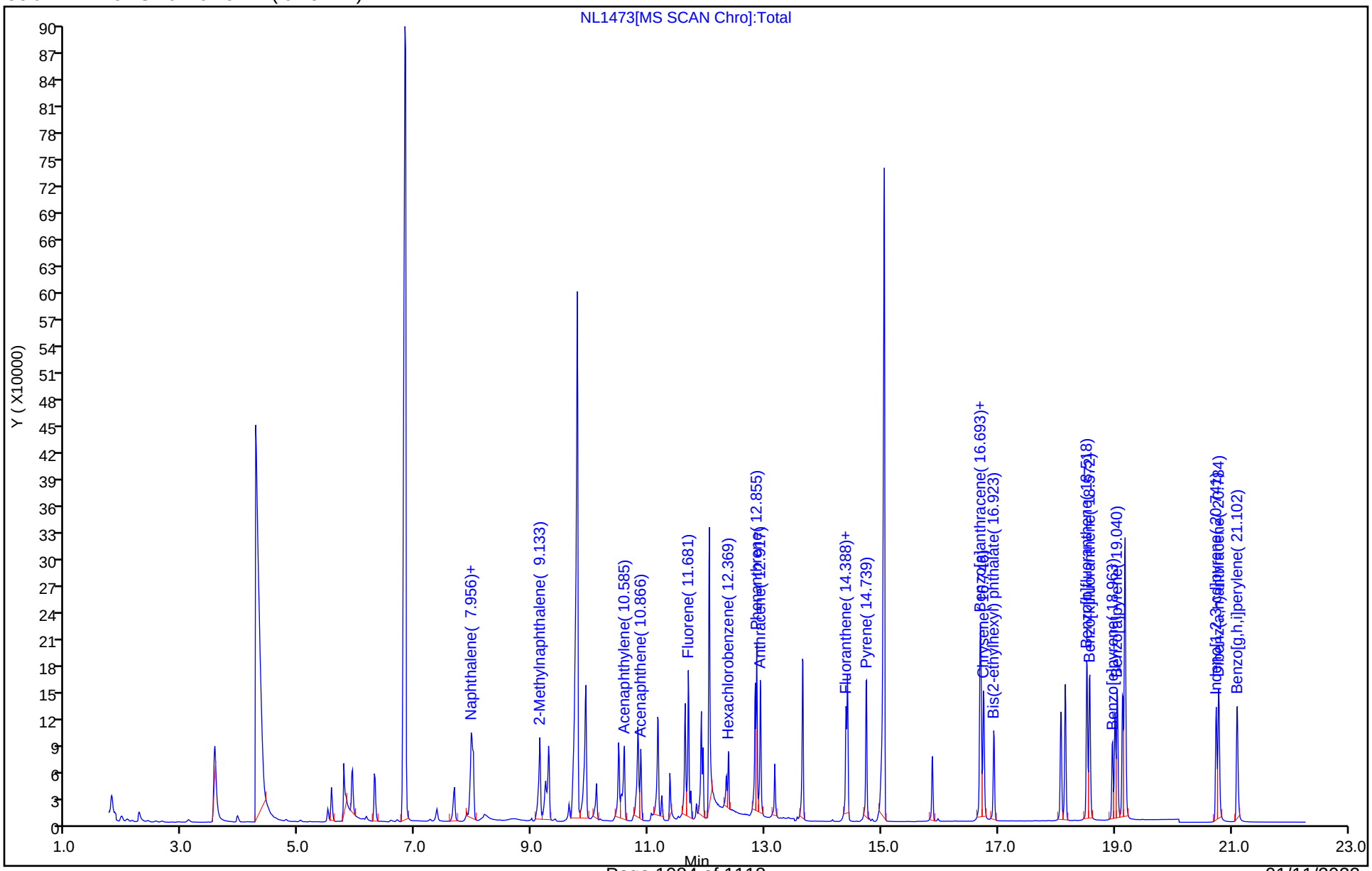
Report Date: 31-Dec-2021 14:02:20 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1473.D

Injection Date:	30-Dec-2021 07:08:30	Instrument ID:	HP23263	Operator ID:	jmg00346
Lims ID:	LCS 410-209125/2-A			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 Env, LLC

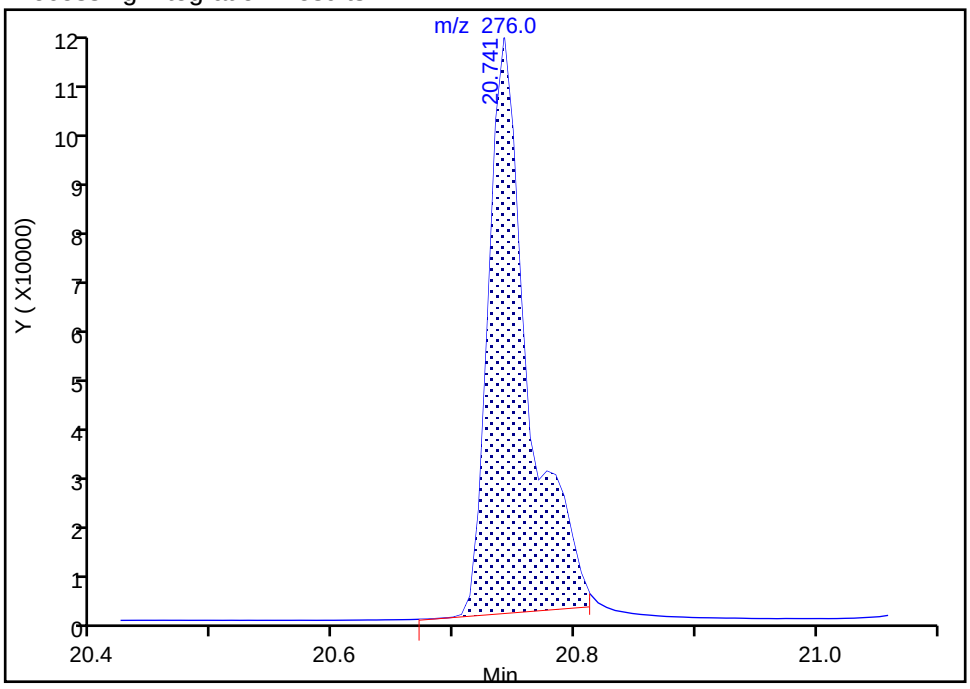
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211230-47435.b\NL1473.D				
Injection Date:	30-Dec-2021 07:08:30	Instrument ID:	HP23263		
Lims ID:	LCS 410-209125/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

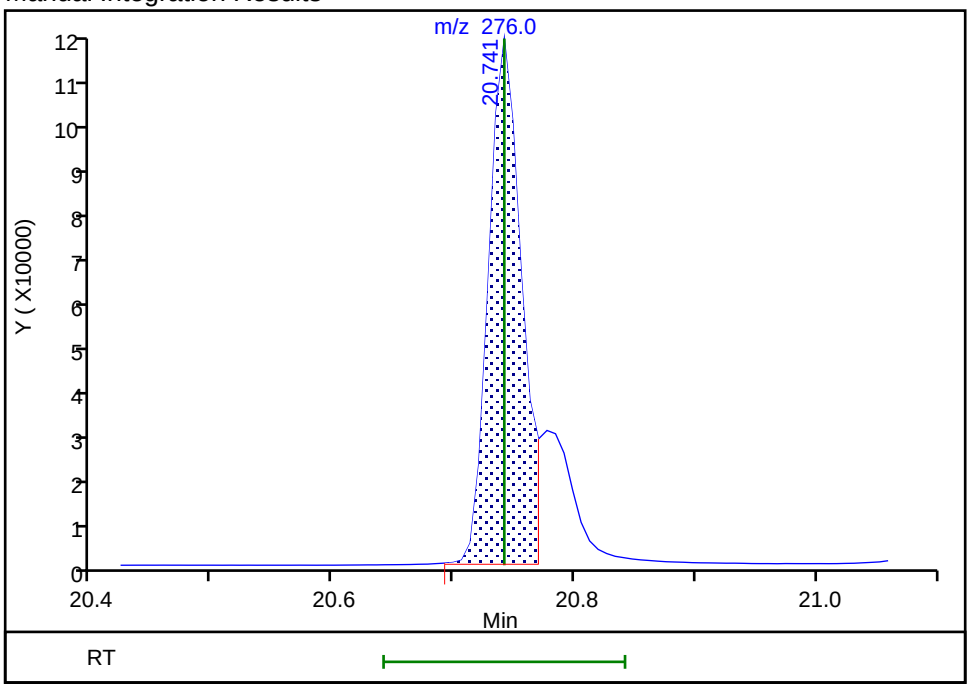
Processing Integration Results

RT: 20.74
Area: 249295
Amount: 0.312797
Amount Units: ug/ml



Manual Integration Results

RT: 20.74
Area: 207875
Amount: 0.260826
Amount Units: ug/ml



Reviewer: transuea, 31-Dec-2021 13:25:00

Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-210459/2-A

Matrix: Water Lab File ID: ML1803.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 12/30/2021 09:26

Sample wt/vol: 250(mL) Date Analyzed: 12/31/2021 15:13

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 210855 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	*Acenaphthene*	*0.738*		*0.050*	*0.010*
208-96-8	*Acenaphthylene*	*0.775*		*0.050*	*0.010*
120-12-7	*Anthracene*	*0.857*		*0.050*	*0.010*
56-55-3	*Benzo[a]anthracene*	*0.866*		*0.050*	*0.010*
50-32-8	*Benzo[a]pyrene*	*0.839*		*0.050*	*0.010*
205-99-2	*Benzo[b]fluoranthene*	*0.906*		*0.050*	*0.010*
191-24-2	*Benzo[g,h,i]perylene*	*0.830*		*0.050*	*0.010*
207-08-9	*Benzo[k]fluoranthene*	*0.885*		*0.050*	*0.010*
218-01-9	*Chrysene*	*0.831*		*0.050*	*0.010*
53-70-3	*Dibenz(a,h)anthracene*	*0.821*		*0.050*	*0.020*
206-44-0	*Fluoranthene*	*0.901*		*0.050*	*0.010*
86-73-7	*Fluorene*	*0.843*		*0.050*	*0.010*
193-39-5	*Indeno[1,2,3-cd]pyrene*	*0.835*		*0.050*	*0.020*
91-20-3	*Naphthalene*	*0.692*		*0.070*	*0.030*
85-01-8	*Phenanthrene*	*0.827*		*0.070*	*0.030*
129-00-0	*Pyrene*	*0.808*		*0.050*	*0.010*

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	88		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	90		36-111
93951-69-0	Fluoranthene-d10 (Surr)	94		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1803.D
Lims ID: LCS 410-210459/2-A
Client ID:
Sample Type: LCS
Inject. Date: 31-Dec-2021 15:13:45 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-210459/2-A
Misc. Info.: 410-0047541-004
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 04-Jan-2022 13:17:34 Calib Date: 21-Dec-2021 12:24:39
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20211221-46894.b\ML1106.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1653

First Level Reviewer: transuea Date: 04-Jan-2022 12:58:51

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	3.206	3.162	0.074	92	12721	0.2500	0.1223	M
* 4 1,4-Dichlorobenzene-d4	152	7.014	7.014	0.000	85	40873	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	96	127064	0.2500	0.2500	
6 Naphthalene	128	8.951	8.972	-0.021	5	96709	0.2500	0.1729	M
$ 9 1-Methylnaphthalene-d10	152	10.154	10.166	-0.012	99	66726	0.2500	0.2262	
12 Acenaphthylene	152	11.486	11.498	-0.013	98	122520	0.2500	0.1938	
* 13 Acenaphthene-d10	164	11.706	11.706	0.000	96	91445	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.755	-0.012	92	78757	0.2500	0.1846	
17 Fluorene	166	12.426	12.426	0.000	95	107552	0.2500	0.2109	
* 20 Phenanthrene-d10	188	13.597	13.597	0.000	98	192441	0.2500	0.2500	
21 Phenanthrene	178	13.628	13.628	0.000	100	177477	0.2500	0.2067	
22 Anthracene	178	13.690	13.698	-0.008	100	171664	0.2500	0.2142	
$ 24 Fluoranthene-d10 (Surr)	212	15.269	15.275	-0.006	96	197974	0.2500	0.2341	
25 Fluoranthene	202	15.300	15.300	0.000	98	232159	0.2500	0.2254	
26 Pyrene	202	15.645	15.647	-0.006	96	232678	0.2500	0.2021	
28 Benzo[a]anthracene	228	17.673	17.668	0.000	100	241725	0.2500	0.2165	
* 29 Chrysene-d12	240	17.688	17.696	-0.008	72	223853	0.2500	0.2500	
30 Chrysene	228	17.734	17.737	-0.008	100	250467	0.2500	0.2078	
33 Benzo[b]fluoranthene	252	19.544	19.540	0.000	100	273949	0.2500	0.2266	
34 Benzo[k]fluoranthene	252	19.590	19.586	0.000	100	282766	0.2500	0.2213	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.035	20.038	-0.008	97	201895	0.2500	0.2212	
37 Benzo[a]pyrene	252	20.073	20.076	-0.008	100	242031	0.2500	0.2098	
* 38 Perylene-d12	264	20.166	20.173	-0.007	97	252099	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.847	21.842	0.000	98	256282	0.2500	0.2089	M
41 Dibenz(a,h)anthracene	278	21.890	21.891	-0.007	95	294362	0.2500	0.2052	
42 Benzo[g,h,i]perylene	276	22.292	22.294	-0.007	93	303588	0.2500	0.2075	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00022 Amount Added: 10.00 Units: uL Run Reagent

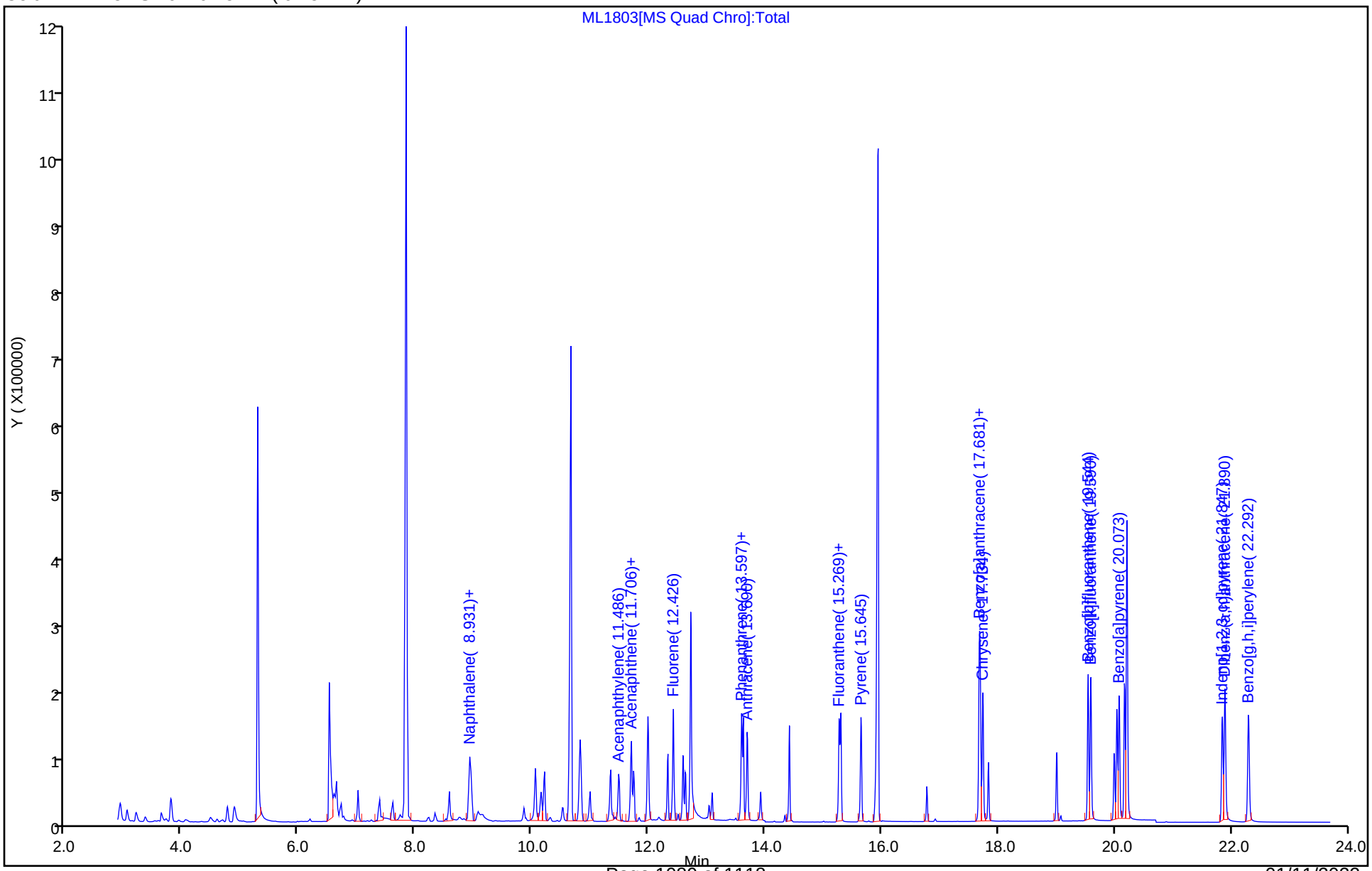
Report Date: 04-Jan-2022 13:18:34 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20211231-47541.b\ML1803.D

Injection Date:	31-Dec-2021 15:13:45	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	LCS 410-210459/2-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)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

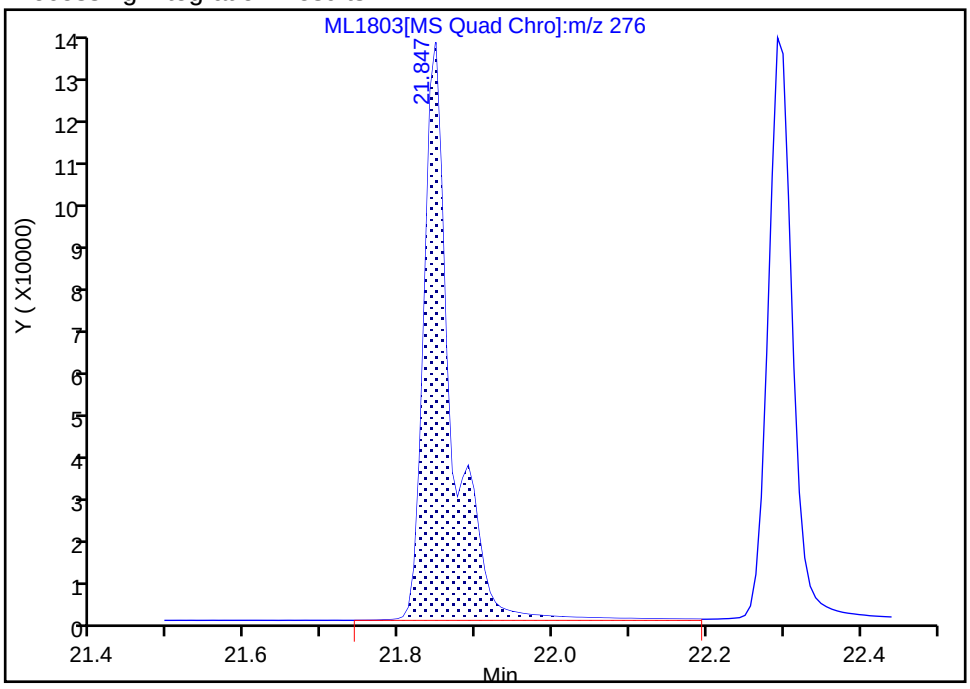
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Injection Date:	31-Dec-2021 15:13:45	Instrument ID:	HP21585		
Lims ID:	LCS 410-210459/2-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 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

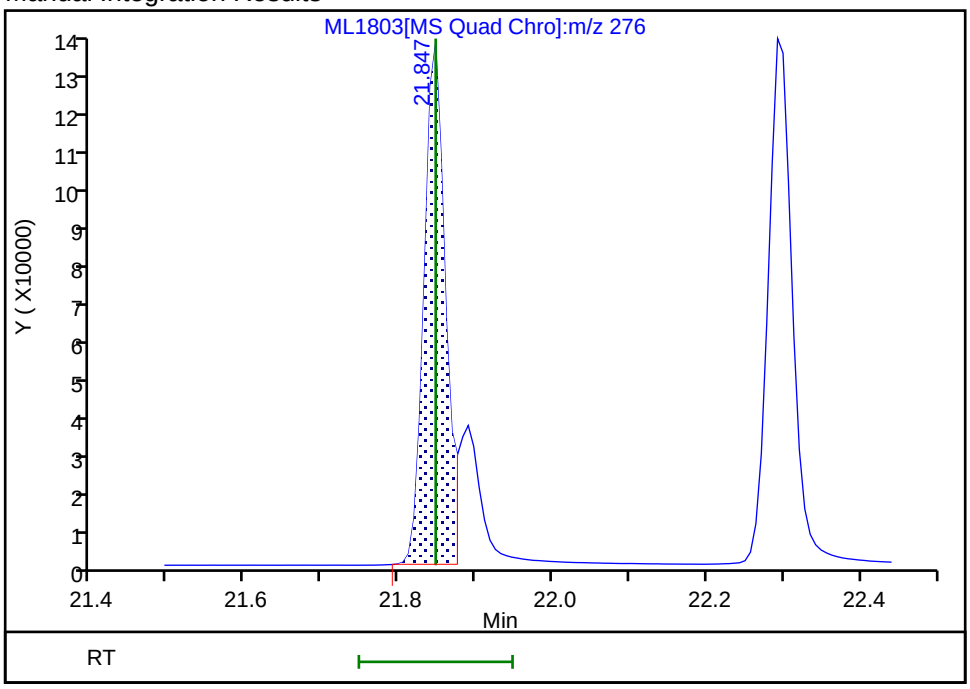
Processing Integration Results

RT: 21.85
Area: 336933
Amount: 0.274582
Amount Units: ug/ml



Manual Integration Results

RT: 21.85
Area: 256282
Amount: 0.208856
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 12:58:46
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

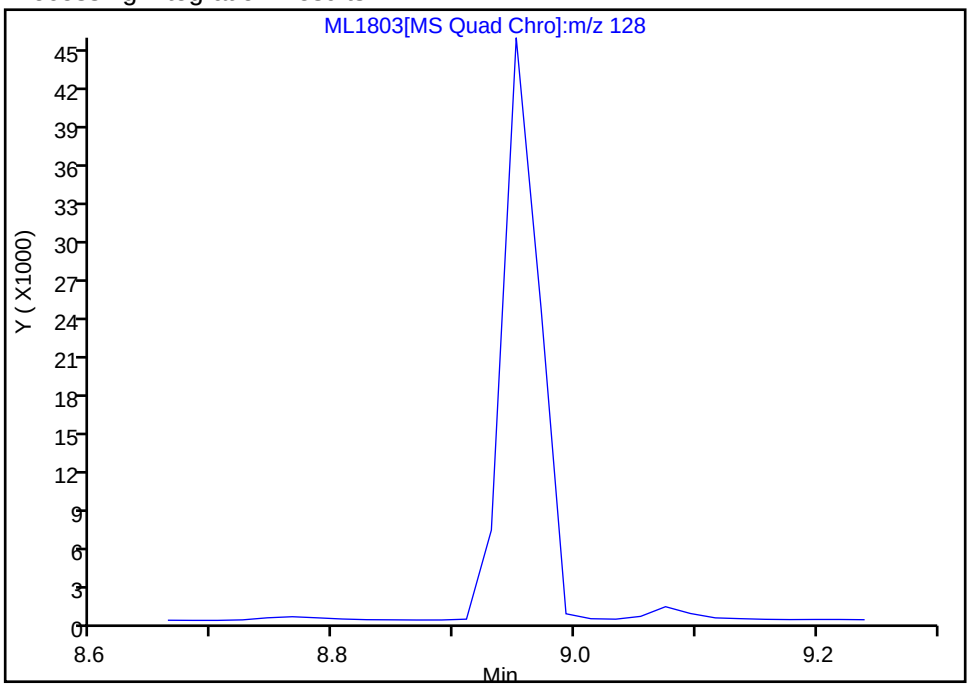
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Injection Date:	31-Dec-2021 15:13:45	Instrument ID:	HP21585		
Lims ID:	LCS 410-210459/2-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

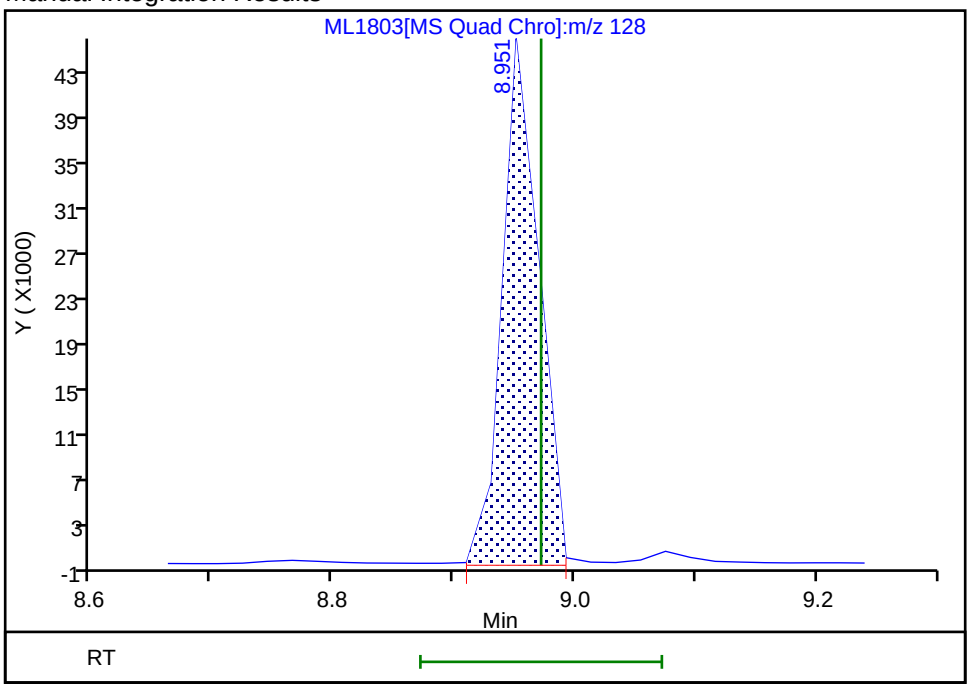
Not Detected
Expected RT: 8.97

Processing Integration Results



Manual Integration Results

RT: 8.95
Area: 96709
Amount: 0.172928
Amount Units: ug/ml



Reviewer: transuea, 04-Jan-2022 12:58:24
Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7S-20211221 MS Lab Sample ID: 410-68043-6 MS

Matrix: Ground Water Lab File ID: NL1214.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 09:16

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 241.3(mL) Date Analyzed: 12/27/2021 20:41

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.920		0.052	0.010
208-96-8	Acenaphthylene	0.879		0.052	0.010
120-12-7	Anthracene	0.862		0.052	0.010
56-55-3	Benzo[a]anthracene	0.974		0.052	0.010
50-32-8	Benzo[a]pyrene	0.818		0.052	0.010
205-99-2	Benzo[b]fluoranthene	0.939		0.052	0.010
191-24-2	Benzo[g,h,i]perylene	0.645		0.052	0.010
207-08-9	Benzo[k]fluoranthene	0.800		0.052	0.010
218-01-9	Chrysene	0.893		0.052	0.010
53-70-3	Dibenz(a,h)anthracene	0.782		0.052	0.021
206-44-0	Fluoranthene	0.857		0.052	0.010
86-73-7	Fluorene	0.919		0.052	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.796		0.052	0.021
91-20-3	Naphthalene	0.798		0.073	0.031
85-01-8	Phenanthrene	0.879		0.073	0.031
129-00-0	Pyrene	0.806		0.052	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	77		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	82		36-111
93951-69-0	Fluoranthene-d10 (Surr)	77		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1214.D
Lims ID: 410-68043-A-6-A MS
Client ID: MW-7S-20211221
Sample Type: MS
Inject. Date: 27-Dec-2021 20:41:30 ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-6-A MS
Misc. Info.: 410-0047167-015
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:20:25

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	5.955	5.943	0.012	99	89281	0.2500	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	303153	0.2500	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	100	244177	0.2500	0.1927	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	131952	0.2500	0.2051	
12 Acenaphthylene	152	10.604	10.614	0.010	100	257310	0.2500	0.2121	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	93	170146	0.2500	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	99	167911	0.2500	0.2221	
17 Fluorene	166	11.696	11.696	0.000	100	196846	0.2500	0.2216	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	303879	0.2500	0.2500	
21 Phenanthrene	178	12.870	12.870	0.008	100	282479	0.2500	0.2121	
22 Anthracene	178	12.931	12.939	0.007	100	259447	0.2500	0.2081	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	224770	0.2500	0.1930	
25 Fluoranthene	202	14.437	14.448	0.006	99	270344	0.2500	0.2069	
26 Pyrene	202	14.763	14.775	0.006	98	282625	0.2500	0.1945	
28 Benzo[a]anthracene	228	16.729	16.736	0.008	95	261580	0.2500	0.2350	
* 29 Chrysene-d12	240	16.744	16.737	0.007	93	232296	0.2500	0.2500	
30 Chrysene	228	16.783	16.790	0.000	100	259274	0.2500	0.2154	
33 Benzo[b]fluoranthene	252	18.570	18.592	0.016	100	296625	0.2500	0.2267	
34 Benzo[k]fluoranthene	252	18.608	18.639	0.008	100	287658	0.2500	0.1929	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	97	186222	0.2500	0.1936	
37 Benzo[a]pyrene	252	19.083	19.099	0.007	100	249411	0.2500	0.1973	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	265858	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.789	20.845	0.014	96	221297	0.2500	0.1921	
41 Dibenz(a,h)anthracene	278	20.831	20.833	0.006	98	249090	0.2500	0.1887	
42 Benzo[g,h,i]perylene	276	21.156	21.168	0.014	97	226932	0.2500	0.1557	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

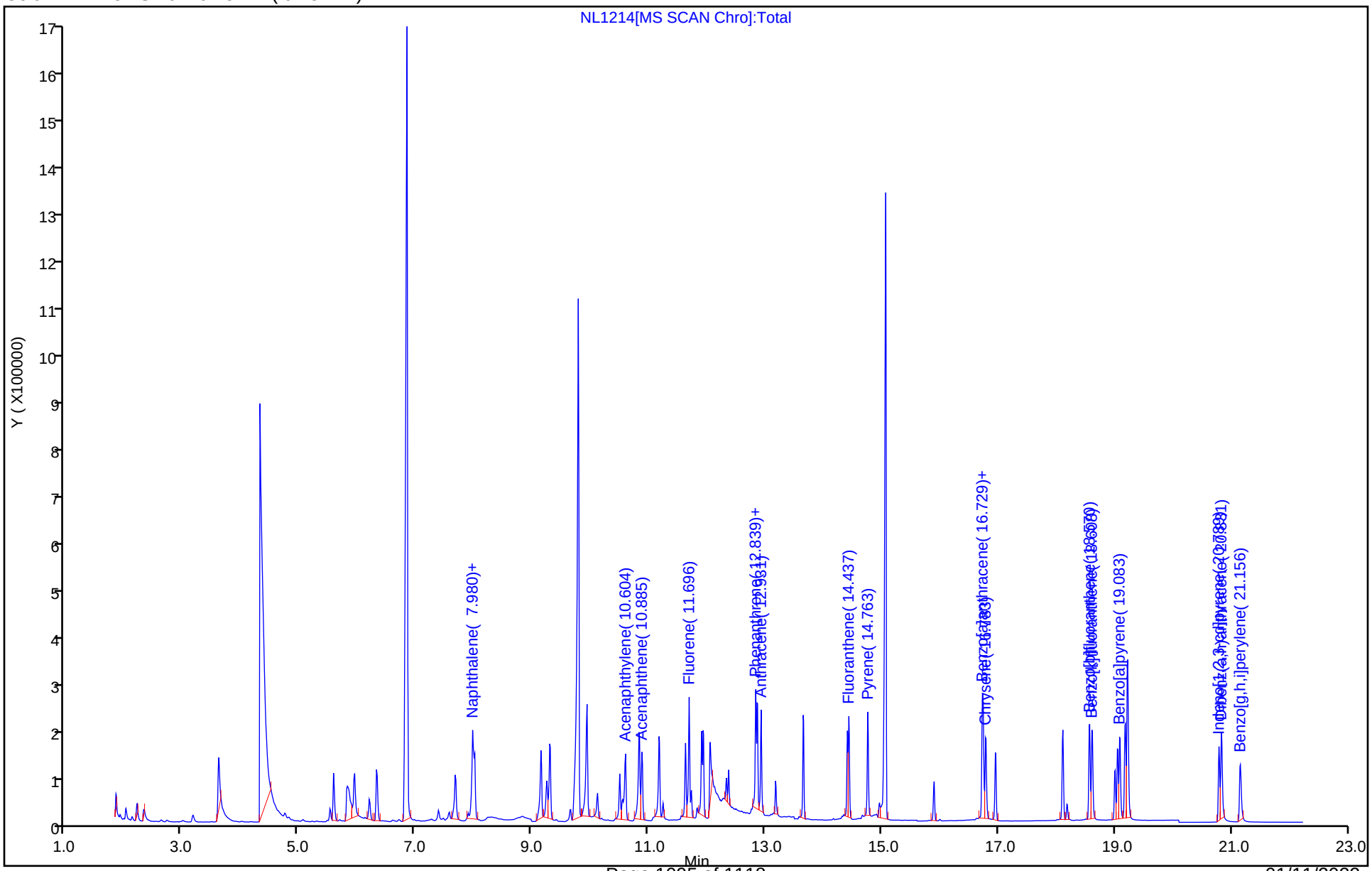
Report Date: 28-Dec-2021 06:59:13 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1214.D

Injection Date:	27-Dec-2021 20:41:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-6-A MS			Worklist Smp#:	15
Client ID:	MW-7S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8270_SIM_HP23263	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-68043-1

SDG No.:

Client Sample ID: MW-7S-20211221 MSD Lab Sample ID: 410-68043-6 MSD

Matrix: Ground Water Lab File ID: NL1215.D

Analysis Method: 8270D SIM Date Collected: 12/21/2021 09:16

Extract. Method: 3510C Date Extracted: 12/27/2021 03:09

Sample wt/vol: 247.8(mL) Date Analyzed: 12/27/2021 21:09

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 209113 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1.07		0.050	0.010
208-96-8	Acenaphthylene	1.02		0.050	0.010
120-12-7	Anthracene	1.08		0.050	0.010
56-55-3	Benzo[a]anthracene	1.13		0.050	0.010
50-32-8	Benzo[a]pyrene	0.914		0.050	0.010
205-99-2	Benzo[b]fluoranthene	1.04		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.637		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.900		0.050	0.010
218-01-9	Chrysene	1.02		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.754		0.050	0.020
206-44-0	Fluoranthene	1.04		0.050	0.010
86-73-7	Fluorene	1.06		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.756		0.050	0.020
91-20-3	Naphthalene	0.945		0.071	0.030
85-01-8	Phenanthrene	1.08		0.071	0.030
129-00-0	Pyrene	0.908		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	92		10-110
38072-94-5	1-Methylnaphthalene-d10 (Surr)	94		36-111
93951-69-0	Fluoranthene-d10 (Surr)	96		47-128

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1215.D
Lims ID: 410-68043-A-6-B MSD
Client ID: MW-7S-20211221
Sample Type: MSD
Inject. Date: 27-Dec-2021 21:09:30 ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-68043-A-6-B MSD
Misc. Info.: 410-0047167-016
Operator ID: whs02991 Instrument ID: HP23263

Method: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\8270_SIM_HP23263.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 28-Dec-2021 06:58:37 Calib Date: 16-Dec-2021 11:36:30
Integrator: Falcon ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP23263\20211216-46502.b\NL0606.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1676

First Level Reviewer: gamblerj Date: 28-Dec-2021 06:21:15

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	5.955	5.943	0.012	98	83434	0.2500	0.2500	
* 5 Naphthalene-d8	136	7.980	7.980	0.000	100	282445	0.2500	0.2500	
6 Naphthalene	128	8.017	8.017	0.012	100	276414	0.2500	0.2341	
$ 9 1-Methylnaphthalene-d10	152	9.252	9.252	0.000	100	140819	0.2500	0.2349	
12 Acenaphthylene	152	10.604	10.614	0.010	100	285129	0.2500	0.2518	
* 13 Acenaphthene-d10	164	10.835	10.835	0.000	95	158845	0.2500	0.2500	
14 Acenaphthene	154	10.885	10.885	0.000	100	186410	0.2500	0.2641	
17 Fluorene	166	11.696	11.696	0.000	100	217041	0.2500	0.2618	
* 20 Phenanthrene-d10	188	12.839	12.831	0.008	100	257838	0.2500	0.2500	
21 Phenanthrene	178	12.862	12.870	0.000	100	301487	0.2500	0.2668	
22 Anthracene	178	12.931	12.939	0.007	100	281975	0.2500	0.2665	
$ 24 Fluoranthene-d10 (Surr)	212	14.412	14.412	0.006	99	236008	0.2500	0.2388	
25 Fluoranthene	202	14.437	14.448	0.006	99	287065	0.2500	0.2589	
26 Pyrene	202	14.763	14.775	0.006	98	295387	0.2500	0.2249	
28 Benzo[a]anthracene	228	16.729	16.736	0.008	96	281307	0.2500	0.2796	
* 29 Chrysene-d12	240	16.744	16.737	0.007	96	209932	0.2500	0.2500	
30 Chrysene	228	16.783	16.790	-0.001	100	274359	0.2500	0.2534	
33 Benzo[b]fluoranthene	252	18.562	18.592	0.008	100	305570	0.2500	0.2570	
34 Benzo[k]fluoranthene	252	18.616	18.639	0.016	100	302168	0.2500	0.2230	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.053	19.053	0.008	97	199276	0.2500	0.2291	
37 Benzo[a]pyrene	252	19.091	19.099	0.015	100	260288	0.2500	0.2266	
* 38 Perylene-d12	264	19.183	19.175	0.008	96	241610	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	20.789	20.845	0.014	97	196090	0.2500	0.1873	M
41 Dibenz(a,h)anthracene	278	20.838	20.833	0.013	97	224137	0.2500	0.1868	
42 Benzo[g,h,i]perylene	276	21.156	21.168	0.014	98	208887	0.2500	0.1577	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00021 Amount Added: 10.00 Units: uL Run Reagent

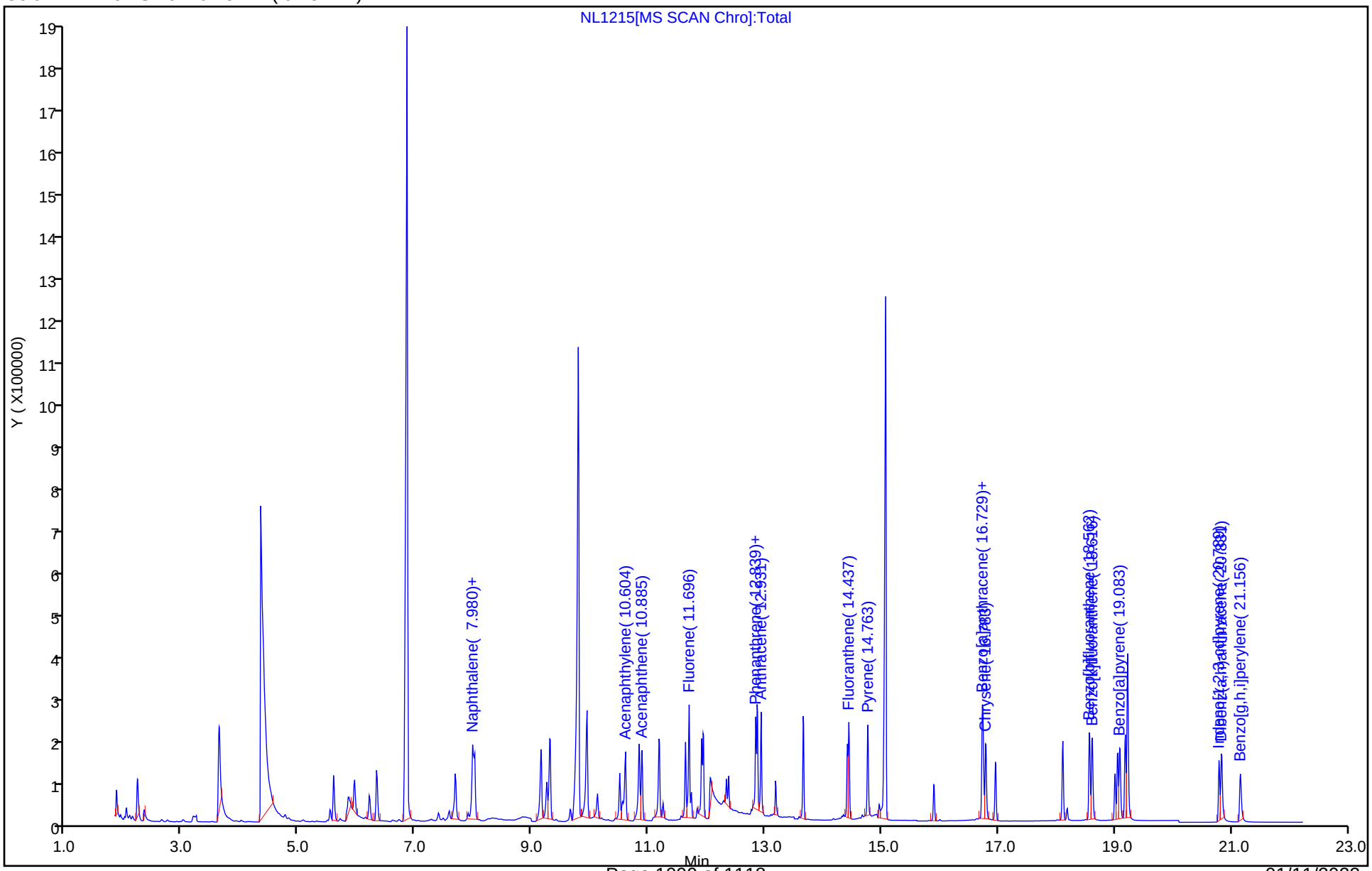
Report Date: 28-Dec-2021 06:59:13 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1215.D

Injection Date:	27-Dec-2021 21:09:30	Instrument ID:	HP23263	Operator ID:	whs02991
Lims ID:	410-68043-A-6-B MSD			Worklist Smp#:	16
Client ID:	MW-7S-20211221				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
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 Env, LLC

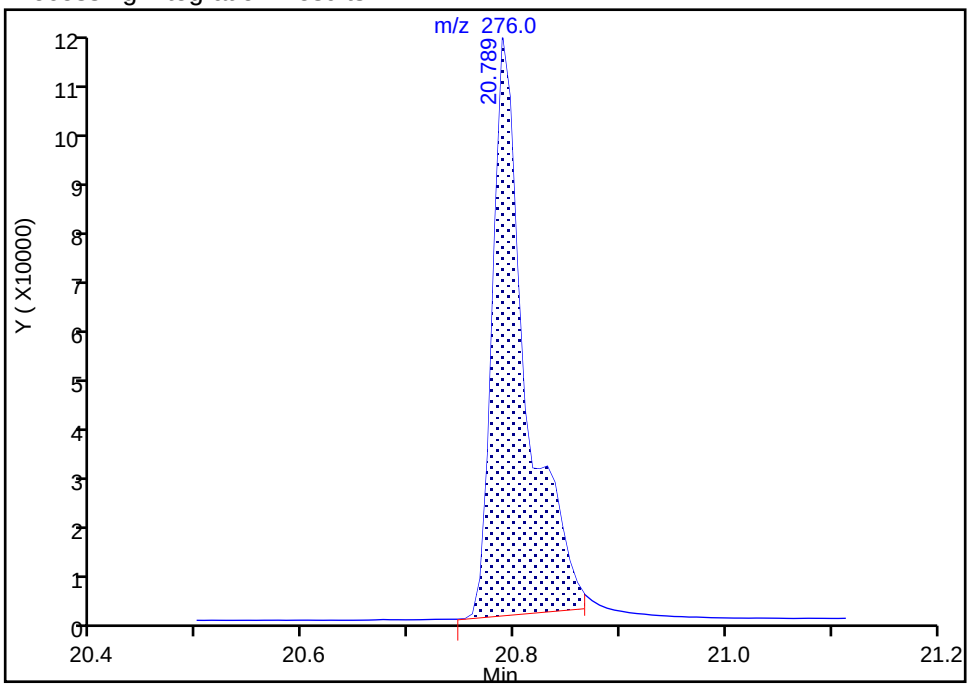
Data File:	\\chromfs\Lancaster\ChromData\HP23263\20211227-47167.b\NL1215.D				
Injection Date:	27-Dec-2021 21:09:30	Instrument ID:	HP23263		
Lims ID:	410-68043-A-6-B MSD				
Client ID:	MW-7S-20211221				
Operator ID:	whs02991	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

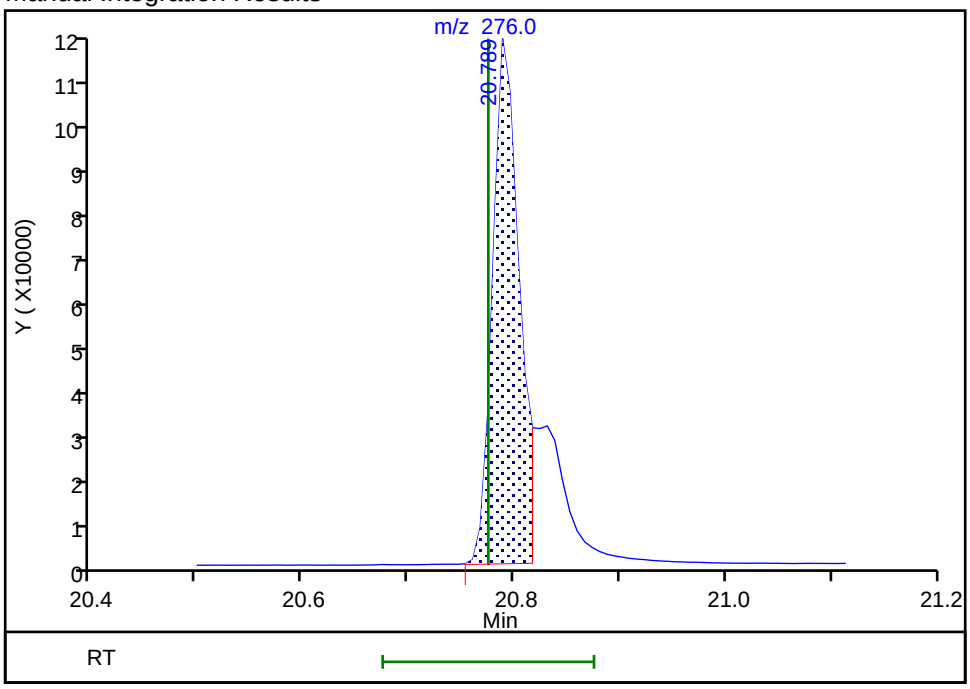
Processing Integration Results

RT: 20.79
Area: 249234
Amount: 0.238032
Amount Units: ug/ml



Manual Integration Results

RT: 20.79
Area: 196090
Amount: 0.187277
Amount Units: ug/ml



Reviewer: gamblerj, 28-Dec-2021 06:21:11

Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: HP21585 Start Date: 12/21/2021 09:37

Analysis Batch Number: 207883 End Date: 12/21/2021 14:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-207883/1		12/21/2021 09:37	1	ML1100.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-207883/2		12/21/2021 09:55	1	ML1101.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-207883/3		12/21/2021 10:25	1	ML1102.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-207883/4		12/21/2021 10:54	1	ML1103.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-207883/5		12/21/2021 11:24	1	ML1104.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-207883/6		12/21/2021 11:54	1	ML1105.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-207883/7		12/21/2021 12:24	1	ML1106.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-207883/8		12/21/2021 12:54	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-207883/9		12/21/2021 13:24	1	ML1108.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-207883/10		12/21/2021 13:54	1	ML1109.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-207883/11		12/21/2021 14:24	1	ML1110.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: HP21585 Start Date: 12/31/2021 12:02

Analysis Batch Number: 210855 End Date: 12/31/2021 23:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-210855/1		12/31/2021 12:02	1	ML1800.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-210855/2		12/31/2021 12:55	1	ML1801.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-210459/1-A		12/31/2021 14:43	1	ML1802.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-210459/2-A		12/31/2021 15:13	1	ML1803.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-2 RE	MW-10S-20211220 RE	12/31/2021 15:43	1	ML1804.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-4 RE	MW-8S-20211220 RE	12/31/2021 16:13	1	ML1805.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-5 RE	MW-8D-20211220 RE	12/31/2021 16:43	1	ML1806.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-9 RE	MW-14D-20211221 RE	12/31/2021 17:13	1	ML1807.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-13 RE	MW-11S-20211221 RE	12/31/2021 17:43	1	ML1808.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 18:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 19:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 19:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 20:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 20:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 21:12	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 21:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 22:11	10		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 22:41	20		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 23:11	5		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/31/2021 23:41	10		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: HP23263 Start Date: 12/16/2021 08:56

Analysis Batch Number: 206078 End Date: 12/16/2021 13:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-206078/1		12/16/2021 08:56	1	NL0600.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-206078/2		12/16/2021 09:13	1	NL0601.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-206078/3		12/16/2021 09:46	1	NL0602.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-206078/4		12/16/2021 10:13	1	NL0603.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-206078/5		12/16/2021 10:41	1	NL0604.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-206078/6		12/16/2021 11:09	1	NL0605.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-206078/7		12/16/2021 11:36	1	NL0606.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-206078/8		12/16/2021 12:04	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-206078/9		12/16/2021 12:32	1	NL0608.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-206078/10		12/16/2021 12:59	1	NL0609.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-206078/11		12/16/2021 13:27	1	NL0610.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: HP23263 Start Date: 12/27/2021 12:51

Analysis Batch Number: 209113 End Date: 12/28/2021 00:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-209113/1		12/27/2021 12:51	1	NL1200a.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-209113/2		12/27/2021 13:26	1	NL1201.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-209023/1-A		12/27/2021 15:08	1	NL1202.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-209023/2-A		12/27/2021 15:36	1	NL1203.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/27/2021 16:03	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/27/2021 16:31	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/27/2021 16:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/27/2021 17:27	1		DB-5MS 30m 0.25 0.25(mm)
410-68043-1	MW-1-20211220	12/27/2021 17:54	1	NL1208.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-2	MW-10S-20211220	12/27/2021 18:22	1	NL1209.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-3	MW-10D-20211220	12/27/2021 18:50	1	NL1210.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-4	MW-8S-20211220	12/27/2021 19:18	1	NL1211.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-5	MW-8D-20211220	12/27/2021 19:46	1	NL1212.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-6	MW-7S-20211221	12/27/2021 20:13	1	NL1213.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-6 MS	MW-7S-20211221 MS	12/27/2021 20:41	1	NL1214.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-6 MSD	MW-7S-20211221 MSD	12/27/2021 21:09	1	NL1215.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-7	MW-7D-20211221	12/27/2021 21:37	1	NL1216.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-8	MW-14S-20211221	12/27/2021 22:05	1	NL1217.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-9	MW-14D-20211221	12/27/2021 22:32	1	NL1218.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-10	EB-20211221	12/27/2021 23:00	1	NL1219.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-11	MW-12S-20211221	12/27/2021 23:28	1	NL1220.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-12	MW-12D-20211221	12/27/2021 23:56	1	NL1221.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-13	MW-11S-20211221	12/28/2021 00:23	1	NL1222.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-14	MW-11D-20211221	12/28/2021 00:51	1	NL1223.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: HP23263 Start Date: 12/28/2021 07:26

Analysis Batch Number: 209501 End Date: 12/28/2021 18:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-209501/1		12/28/2021 07:26	1	NL1250.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-209501/2		12/28/2021 08:17	1	NL1251.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 08:51	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 09:19	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 09:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 10:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 10:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 11:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 11:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 12:06	1		DB-5MS 30m 0.25 0.25(mm)
410-68043-11 RA	MW-12S-20211221 RA	12/28/2021 12:34	1	NL1260.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-13 DL	MW-11S-20211221 DL	12/28/2021 13:02	10	NL1261.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 13:30	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 13:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 14:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 14:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 15:22	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 15:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 16:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 16:45	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 17:13	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 17:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/28/2021 18:09	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: HP23263 Start Date: 12/30/2021 05:22

Analysis Batch Number: 210397 End Date: 12/30/2021 16:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-210397/1		12/30/2021 05:22	1	NL1470.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-210397/2		12/30/2021 05:41	1	NL1471.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-209125/1-A		12/30/2021 06:40	1	NL1472.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-209125/2-A		12/30/2021 07:08	1	NL1473.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 07:36	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 08:03	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 08:31	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 08:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 09:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 09:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 10:22	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 10:50	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 11:18	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 11:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 12:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 12:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 13:09	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 13:37	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		12/30/2021 14:05	1		DB-5MS 30m 0.25 0.25(mm)
410-68043-15	MW-4S-20211222	12/30/2021 14:33	1	NL1489.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-16	MW-4D-20211222	12/30/2021 15:01	1	NL1490.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-17	MW-3-20211222	12/30/2021 15:28	1	NL1491.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-18	MW-13S-20211222	12/30/2021 15:56	1	NL1492.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-19	MW-13D-20211222	12/30/2021 16:24	1	NL1493.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-20	Dup-20211222	12/30/2021 16:52	1	NL1494.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-68043-1

SDG No.:

Instrument ID: HP23263 Start Date: 01/03/2022 05:49

Analysis Batch Number: 210939 End Date: 01/03/2022 07:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-210939/1		01/03/2022 05:49	1	NA0000.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-210939/2		01/03/2022 06:06	1	NA0001.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-15 DL	MW-4S-20211222 DL	01/03/2022 06:52	5	NA0002.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-17 DL	MW-3-20211222 DL	01/03/2022 07:20	10	NA0003.D	DB-5MS 30m 0.25 0.25(mm)
410-68043-20 DL	Dup-20211222 DL	01/03/2022 07:48	20	NA0004.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 209023 Batch Start Date: 12/27/21 03:09 Batch Analyst: Okpo, Mathias O

Batch Method: 3510C Batch End Date: 12/27/21 05:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-209023/1		3510C, 8270D SIM				250 mL	1 mL	11 SU	2 SU
LCS 410-209023/2		3510C, 8270D SIM				250 mL	1 mL	11 SU	2 SU
410-68043-A-6 MS	MW-7S-20211221	3510C, 8270D SIM	T	407.18 g	165.88 g	241.3 mL	1 mL	11 SU	2 SU
410-68043-A-6 MSD	MW-7S-20211221	3510C, 8270D SIM	T	414.72 g	166.97 g	247.8 mL	1 mL	11 SU	2 SU
410-68043-A-1	MW-1-20211220	3510C, 8270D SIM	T	411.14 g	167.25 g	243.9 mL	1 mL	11 SU	2 SU
410-68043-A-2	MW-10S-20211220	3510C, 8270D SIM	T	409.87 g	166.20 g	243.7 mL	1 mL	11 SU	2 SU
410-68043-A-3	MW-10D-20211220	3510C, 8270D SIM	T	414.87 g	166.07 g	248.8 mL	1 mL	11 SU	2 SU
410-68043-A-4	MW-8S-20211220	3510C, 8270D SIM	T	413.86 g	165.33 g	248.5 mL	1 mL	11 SU	2 SU
410-68043-A-5	MW-8D-20211220	3510C, 8270D SIM	T	415.42 g	165.91 g	249.5 mL	1 mL	11 SU	2 SU
410-68043-A-6	MW-7S-20211221	3510C, 8270D SIM	T	405.86 g	167.39 g	238.5 mL	1 mL	11 SU	2 SU
410-68043-A-7	MW-7D-20211221	3510C, 8270D SIM	T	404.50 g	166.09 g	238.4 mL	1 mL	11 SU	2 SU
410-68043-A-8	MW-14S-20211221	3510C, 8270D SIM	T	415.10 g	166.22 g	248.9 mL	1 mL	11 SU	2 SU
410-68043-A-9	MW-14D-20211221	3510C, 8270D SIM	T	400.07 g	167.89 g	232.2 mL	1 mL	11 SU	2 SU
410-68043-A-10	EB-20211221	3510C, 8270D SIM	T	411.07 g	165.90 g	245.2 mL	1 mL	11 SU	2 SU
410-68043-A-11	MW-12S-20211221	3510C, 8270D SIM	T	409.57 g	166.74 g	242.8 mL	1 mL	11 SU	2 SU
410-68043-A-12	MW-12D-20211221	3510C, 8270D SIM	T	409.30 g	166.68 g	242.6 mL	1 mL	11 SU	2 SU
410-68043-A-13	MW-11S-20211221	3510C, 8270D SIM	T	413.75 g	168.30 g	245.5 mL	1 mL	11 SU	2 SU
410-68043-A-14	MW-11D-20211221	3510C, 8270D SIM	T	413.76 g	166.24 g	247.5 mL	1 mL	11 SU	2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	CUPerformed	OP_MINIBNA_SS 00051	OP_SIMLCS_MS 00053	AnalysisComment		
MB 410-209023/1		3510C, 8270D SIM		N	1 mL		TAP H2O		

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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 209023 Batch Start Date: 12/27/21 03:09 Batch Analyst: Okpo, Mathias O

Batch Method: 3510C Batch End Date: 12/27/21 05:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	CUPerformed	OP_MINIBNA_SS 00051	OP_SIMLCS_MS 00053	AnalysisComment		
LCS 410-209023/2		3510C, 8270D SIM		N	1 mL	0.25 mL	TAP H2O		
410-68043-A-6 MS	MW-7S-20211221	3510C, 8270D SIM	T	N	1 mL	0.25 mL	YELLOW/CLOUDY		
410-68043-A-6 MSD	MW-7S-20211221	3510C, 8270D SIM	T	N	1 mL	0.25 mL	YELLOW/CLOUDY		
410-68043-A-1	MW-1-20211220	3510C, 8270D SIM	T	N	1 mL		YELLOW		
410-68043-A-2	MW-10S-20211220	3510C, 8270D SIM	T	N	1 mL		YELLOW/CLOUDY		
410-68043-A-3	MW-10D-20211220	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-68043-A-4	MW-8S-20211220	3510C, 8270D SIM	T	N	1 mL		YELLOW		
410-68043-A-5	MW-8D-20211220	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-68043-A-6	MW-7S-20211221	3510C, 8270D SIM	T	N	1 mL		YELLOW/CLOUDY		
410-68043-A-7	MW-7D-20211221	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-68043-A-8	MW-14S-20211221	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-68043-A-9	MW-14D-20211221	3510C, 8270D SIM	T	N	1 mL		YELLOW/CLOUDY		
410-68043-A-10	EB-20211221	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-68043-A-11	MW-12S-20211221	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-68043-A-12	MW-12D-20211221	3510C, 8270D SIM	T	N	1 mL		CLEAR		
410-68043-A-13	MW-11S-20211221	3510C, 8270D SIM	T	N	1 mL		YELLOW		
410-68043-A-14	MW-11D-20211221	3510C, 8270D SIM	T	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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 209023 Batch Start Date: 12/27/21 03:09 Batch Analyst: Okpo, Mathias O

Batch Method: 3510C Batch End Date: 12/27/21 05:30

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	13836
Analyst ID - Spike Analyst	13836
Acid Used for pH Adjustment ID	H2SO4 - 212463
Base Used to Adjust pH ID	NAOH - 4106-F80
Prep Solvent ID	MECL2 - 217992
Prep Solvent Volume Used	90 mL
Na2SO4 ID	21355A
Analyst ID - Concentration	13836
Equipment ID - Concentration 1	RAP VAP - 1,2
Concentration 1 Corrected Temperature	80 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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 209125 Batch Start Date: 12/27/21 10:30 Batch Analyst: Russo, Sophia

Batch Method: 3510C Batch End Date: 12/27/21 14:09

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-209125/1		3510C, 8270D SIM				N/A	250 mL	1 mL	N/A SU
LCS 410-209125/2		3510C, 8270D SIM				N/A	250 mL	1 mL	N/A SU
410-68043-A-15	MW-4S-20211222	3510C, 8270D SIM	T	411.14 g	165.56 g	N/A	245.6 mL	1 mL	N/A SU
410-68043-A-16	MW-4D-20211222	3510C, 8270D SIM	T	416.19 g	166.78 g	N/A	249.4 mL	1 mL	N/A SU
410-68043-A-17	MW-3-20211222	3510C, 8270D SIM	T	403.19 g	166.57 g	N/A	236.6 mL	1 mL	N/A SU
410-68043-A-18	MW-13S-20211222	3510C, 8270D SIM	T	415.31 g	166.09 g	N/A	249.2 mL	1 mL	N/A SU
410-68043-A-19	MW-13D-20211222	3510C, 8270D SIM	T	407.83 g	167.22 g	N/A	240.6 mL	1 mL	N/A SU
410-68043-A-20	Dup-20211222	3510C, 8270D SIM	T	408.28 g	165.81 g	N/A	242.5 mL	1 mL	N/A SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00051	OP_SIMLCS_MS 00053	AnalysisComment
MB 410-209125/1		3510C, 8270D SIM		>11 SU	<2 SU	N/A	1 mL		Tap Water
LCS 410-209125/2		3510C, 8270D SIM		>11 SU	<2 SU	N/A	1 mL	0.25 mL	Tap Water
410-68043-A-15	MW-4S-20211222	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Yellow tint with floating orange sediment
410-68043-A-16	MW-4D-20211222	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Clear
410-68043-A-17	MW-3-20211222	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Golden yerllow tint
410-68043-A-18	MW-13S-20211222	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Yellow tint with floating brown sediment
410-68043-A-19	MW-13D-20211222	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Clear
410-68043-A-20	Dup-20211222	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Dark golden yellow tint

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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 209125 Batch Start Date: 12/27/21 10:30 Batch Analyst: Russo, Sophia

Batch Method: 3510C Batch End Date: 12/27/21 14:09

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	CNG41579
Analyst ID - Spike Analyst	SLR39002
Acid Used for pH Adjustment ID	H2SO4: 212463
Base Used to Adjust pH ID	NaOH: 4106F80
Prep Solvent ID	MeCl2: 217992
Prep Solvent Volume Used	90 mL
Na2SO4 ID	21355A
Analyst ID - Concentration	SLR39002
Equipment ID - Concentration 1	Rapid Vap # 2, 4
Concentration 1 Corrected Temperature	80 Degrees C
Batch Comment	Split with Batch # 209130

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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 210459 Batch Start Date: 12/30/21 09:26 Batch Analyst: Gibson, Cara

Batch Method: 3510C Batch End Date: 12/30/21 12:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount	ReceivedpH
MB 410-210459/1		3510C, 8270D SIM				N/A	250 mL	1 mL	N/A SU
LCS 410-210459/2		3510C, 8270D SIM				N/A	250 mL	1 mL	N/A SU
410-68043-B-2	MW-10S-20211220	3510C, 8270D SIM	T	410.85 g	166.81 g	N/A	244 mL	1 mL	N/A SU
410-68043-B-4	MW-8S-20211220	3510C, 8270D SIM	T	406.60 g	167.15 g	N/A	239.5 mL	1 mL	N/A SU
410-68043-B-5	MW-8D-20211220	3510C, 8270D SIM	T	402.84 g	167.53 g	N/A	235.3 mL	1 mL	N/A SU
410-68043-B-9	MW-14D-20211221	3510C, 8270D SIM	T	409.90 g	166.00 g	N/A	243.9 mL	1 mL	N/A SU
410-68043-B-13	MW-11S-20211221	3510C, 8270D SIM	T	407.58 g	167.72 g	N/A	239.9 mL	1 mL	N/A SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	FirstAdjustpH	SecondAdjustpH	CUPerformed	OP_MINIBNA_SS 00051	OP_SIMLCS_MS 00053	AnalysisComment
MB 410-210459/1		3510C, 8270D SIM		>11 SU	<2 SU	N/A	1 mL		Tap Water
LCS 410-210459/2		3510C, 8270D SIM		>11 SU	<2 SU	N/A	1 mL	0.25 mL	Tap Water
410-68043-B-2	MW-10S-20211220	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Yellow tint with brown sediment
410-68043-B-4	MW-8S-20211220	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Golden yellow tint with dark brown sediment
410-68043-B-5	MW-8D-20211220	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Clear
410-68043-B-9	MW-14D-20211221	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Yellow tint with light orange sediment
410-68043-B-13	MW-11S-20211221	3510C, 8270D SIM	T	>11 SU	<2 SU	N/A	1 mL		Golden yellow tint with dark brown sediment

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 Laboratorie Job No.: 410-68043-1

SDG No.:

Batch Number: 210459 Batch Start Date: 12/30/21 09:26 Batch Analyst: Gibson, Cara

Batch Method: 3510C Batch End Date: 12/30/21 12:43

Batch Notes	
Balance ID	25996
Pipette/Syringe/Dispenser ID	4
Analyst ID - Extraction	SLR39002 and CNG41579
Analyst ID - Spike Analyst	CNG41579
Acid Used for pH Adjustment ID	H2SO4: 212463
Base Used to Adjust pH ID	NaOH: 4106F80
Prep Solvent ID	MeCl2: 217445
Prep Solvent Volume Used	90 mL
Na2SO4 ID	21362B
Analyst ID - Concentration	SLR39002
Equipment ID - Concentration 1	Rapid Vap # 1, 2, 3, 4
Concentration 1 Corrected Temperature	80 Degrees C
Batch Comment	Split with Batch # 210457

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

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

410-68043 Chain of Custody

eurofins Environment Testing America

Client Information	Sampler: MH/M	Lab PM: Weyandt, Barbara A	IC No: 0-40485-5955.1
Client Contact: Mr. James Marolda	Phone:	E-Mail: Barbara.Weyandt@eurofinset.com	State of Origin: NY	Page: Page 1 of 3
Company: Brown and Caldwell	PWSID:	Analysis Requested	Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date Requested:		Preservation Codes:
City: Ramsey	TAT Requested (days): Standard		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, Z - other (specify)
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No		
Phone: 201-574-4713(Tel)	PO #: 153201		
Email: jmarolda@brwncald.com	WO #:		Other:
Project Name: Patchogue, NY	Project #: 41002571		
Site:	SSOW#:		

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)	8270D_SIM - 16 PAHs	8260C - BTEX, MTBE	Total Number of containers	Special Instructions/Note:
MW-1-20211220	12/20/21	1318	G	GW	N	X	X		
MW-10S-20211220		1447			N	X	X		
MW-10D-20211220		1524			N	X	X		
MW-8S-20211220		1618			N	X	X		
MW-8D-20211220		1657			N	X	X		
MW-7S-20211221	12/21/21	0916			Y	X	X		MS/MSD
MW-7D-20211221		1037			N	X	X		
MW-14S-20211221		1133			N	X	X		
MW-14D-20211221		1239			N	X	X		
EB-20211221		1340		DI	N	X	X		
MW-12S-20211221		1427		GW	N	X	X		

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) BC Ellis

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[illegible]	12/22/21 1700	BC	[illegible]	12/22/21 17:00	ECLE
[illegible]	12/22/21 20:30	ECLE	[illegible]	Date/Time	Company
[illegible]	Date/Time	Company	[illegible]	12-22-21 2049	ECLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: not present

Cooler Temperature(s) °C and Other Remarks: 0.4° – 1.9° C

Ver: 06/08/2021

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Phone: 717-656-2300 Fax: 717-656-2681

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: MHM / AFV	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-40485-5955 2
Client Contact: Mr. James Marolda	Phone:	E-Mail: Barbara.Weyandt@eurofinset.com	State of Origin: NY	Page: Page 2 of 3
Company: Brown and Caldwell	PWSID:	Analysis Requested		Job #:
Address: 500 North Franklin Turnpike Suite 306	Due Date 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, Z - other (specify)
City: Ramsey	TAT Requested (days): Standard			
State, Zip: NJ, 07446	Compliance Project: Δ Yes Δ No			
Phone: 201-574-4713(Tel)	PO #: 153201			Other:
Email: jmarolda@brwncald.com	WO #:			
Project Name: Patchogue, NY	Project #: 41002571			
Site: Patchogue	SSOW#:			

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, MTBE	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-12D-20211221	12/21/21	1506	G	GW	N	N	X	X	5	
MW-11S-20211222021		1617			N	N	X	X	5	
MW-11D-20211221		1701			N	N	X	X	5	
MW-4S-20211222	12/22/21	0931			N	N	X	X	5	
MW-4D-20211222		1008			N	N	X	X	5	
MW-3-20211222		1051			N	N	X	X	5	
MW-13S-20211222		1132			N	N	X	X	5	
MW-13D-20211222		1210			N	N	X	X	5	
Dup-20211222		9999			N	N	X	X	5	
TB-20211222	12/22/21	TB	G	DI	N	N	X	X	2	

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): B2 EQuIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Max Maroney	12/22/21 1700	BC		12/22/21 19:00	ELE
2		12/22/21 20:30	ELE			
3					12-22-21 2049	ELE

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: not present
Cooler Temperature(s) °C and Other Remarks: 0.4° - 1.9° C

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-68043-1

Login Number: 68043
List Number: 1
Creator: Renner, Melissa

List Source: Eurofins Lancaster Laboratories Env, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
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	Refer to Job Narrative for details.
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	

Appendix C: Data Validator Qualifications

Jaclyn Lauer, P.E. S.C.

Experience Summary

Jaclyn Lauer started at Brown and Caldwell in the Columbia, SC office working with infrastructure, GIS, and condition asset management for municipal water and wastewater entities including sewer system evaluation studies. She then moved to the Atlanta, GA office where she worked many private sector clients and gained experience in data evaluation and assessment, compliance and permitting, project management, local limits evaluation studies, and database management. Ms. Lauer now works remotely in Lander, WY on many projects nationwide. In addition, she has led treatability laboratory studies and assisted in compliance reporting for a wide variety of clients. While at Clemson, she worked in the environmental laboratory for two years.

Assignment

Senior Engineer

Education

B.S. Environmental Engineering, Clemson University 2013

M.S. Environmental Engineering, Clemson University 2014

Clemson, SC

Registration

P.E., South Carolina #34670

Experience

5 years

Joined Firm

2014

Relevant Expertise

- *Data Evaluation*
- *Data Validation*
- *Data Usability*
- *Compliance and Permitting*
- *Infrastructure*
- *Water/wastewater Process Design*
- *GIS*
- *Field Work*
- *Mobile Data Collection*

Memberships

- *American Water Works Association (AWWA)*

Trainings

- *HAZWOPER 40 Hour*
- *Confined Space Certified*
- *Industrial Hygiene Health and Safety Certified*
- *Wetland Delineation Certified*

Publications

- *Lauer, Jaclyn, "The Use of Oxidants for NDMA Precursor Deactivation in Wastewater Treatment" (2014). All Theses. Paper 1905. http://tigerprints.clemson.edu/all_theses/1905*

Data Validation and Verification, Nationwide

Multiple On-going projects. 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. Provides training and mentorship to mid-level employees for data analysis. Trainings specifically for Organics and Inorganics along with PFAS and Explosives.

Environmental

Various Sampling, Multiple Clients, GA, FL, AL, OH, and SC

Field Scientist and Field Manager. Duties involve the sampling of air, surface water, groundwater, and subsurface at both hazardous and non-hazardous waste sites for biological, chemical, and physical parameters, and the coordination and safety of said sampling events. Conducted daily health and safety meetings discussing potential hazards of each site and summarizing health and safety plans to internal staff and external subcontractors. Field methods for collecting subsurface samples have included direct push drilling, hollow-stem augering, and various groundwater sampling techniques.

Ordot Landfill Closure, Guam

Project Engineer. Responsibilities include aiding in laboratory management. This includes sample orders, report validation, database management, and data usability. Also, assisted in establishing background concentrations and calculations. [2018 to present]

Vulcan Project Management, Georgia

Project Engineer. Responsibilities include aiding in on-call services for Vulcan for compliance and permitting, Stormwater, site surveying, and environmental assessments. [2016 to present]

Project Manager. Worked for the Vulcan Stockbridge Facility in Stockbridge, Georgia on a movie set to help develop an environmentally safe way to remove fake snow from the quarry pit. Responsibilities include managing the cleanup team and project and working with Vulcan and the client, Marvel, to ensure the product was removed and reused. [2017]

Project Engineer. Responsibilities include updating all SWPPPs for each plant in the state of Georgia. This included updating maps and reports, site inspections, and dye testing. [2017]

Walmart Environmental Site Inspections, Multiple Locations, Southeastern United States

Site Inspector. Responsibilities include Nightly auditing for ongoing construction at Walmart across the Southeast. Audits included interior and

exterior environmental, health, and safety inspections working with the site's general contractor. [2016 to 2017]

Groundwater Sampling, Former Manufactured Gas Plant, Confidential Client, Jacksonville, Florida

Project Engineer. Sampling of the groundwater for chemical and physical parameters, and the coordination safety of sampling events, and LNAPL and DNAPL delineation. Conducted daily health and safety meetings discussing potential hazards of each site and summarizing HASPs to internal staff and external subcontractors. Field methods included using peristaltic pumping to effectively collect samples.

Wetland Delineations and Stream Assessments, Multiple Locations, Southeastern United States

Project Manager. Conducted routine delineations of wetlands on properties ranging from 1 to 880 acres utilizing U.S. Army Corps of Engineers (USACE) protocols. Multiple project sites located in Georgia, Tennessee, South Carolina, Alabama, and Florida. [2017–Present]

Well Development, Groundwater Investigation, Oversight, Soil Investigation and Vapor Intrusion Sampling, Confidential Client, Covington, Georgia

Project Engineer. Well development of both on site and residential monitoring wells using field methods that include peristaltic pumping, geo-sub pumping, and waterra pumping. Conducted vapor intrusion sampling in residential houses using Summa canisters, interacting with residents. [KM Fountain Inn SC Environmental,

HMTF Site Closure, University of Georgia, Athens, Georgia

Project Engineer. Collected soil samples with a hand auger, following careful sample collection methods and decontamination methods. Provided oversight for decontamination and cleanup of facility then verified with wipe sampling following sample collection methods. Helped draft the closure report and aided in quality control of the laboratory data. Provided follow up sampling and decontamination including wipe and soil sampling. [2016 to present]

Industrial Water Reuse

Start-Up and Compliance Services, Confidential Pharmaceutical Client, Georgia

Process Engineer. Jaclyn provided on-demand regulatory compliance support and WWTP start-up services and a Covington, Georgia pharmaceutical facility. This includes creation and updates to the Standard Operating Procedure, and preparation of an O&M manual and operator training for the wastewater pretreatment system, designed and constructed by BC. Jaclyn spent time onsite performing inspections and aiding facility operators.

Reclaimed Water POTW, Confidential Refinery, Texas

Process Engineer. Conducted a study to consider using 4 MGD of POTW effluent from the city's WWTP. Responsibilities include the assessment for the addition of disinfection at the refinery including types of disinfection, location, and design. Additionally, designed and performed bench scale breakpoint chlorination and THM formation study to assess the chlorine demand and formation of THM in the effluent POTW. The main task for disinfection with chlorine is to combat peak day ammonia (5 ppm) bleed through from the POTW needs to be treated to <0.1 ppm and control water quality from the city's POTW. [BC Project # 146640]

Municipal Wastewater

Calculation and Evaluation of Local Limits, Fulton County Department of Public Works, Cherokee County Water & Sewer Authority, and Dekalb County Department of Watershed Management, Georgia

Project Engineer. Performed all data gathering, calculations, and regulatory review of the local limits developed for the wastewater treatment facilities in Dekalb, Fulton, and Cherokee Counties. For Fulton County, Local limits were individually developed for Johns Creek, Big Creek, and Camp Creek to review the old limits for industrial pretreatment. For Dekalb County, reviewed industrial and commercial data to determine source of FOG and developed recommendations to address sewer corrosion. For Cherokee County, reviewed scenarios for anticipated growth and calculated local limits that would allow for such growth.

City of Flagstaff, Local Limits Development and Pretreatment Program Assessment

Project Engineer. Conducted an interim Industrial Pretreatment Local Limits Evaluation to assess current limits for BOD and TSS to determine whether the City could accommodate additional industrial wastewater from breweries. Developed recommendations for future limits to protect the City's facilities but not limits industrial users.

HRSD WO7.6 Regionalized Rehab Program, HRSD, Virginia Beach, Virginia

Project Engineer. Responsibilities includes development of rehabilitation scopes, cost estimates, post-rehab I/I reduction estimates, and adjustment of hydrologic parameters in selected rehabilitation catchments in the HRSD service area. The Hampton Roads Sanitation District (HRSD) has taken regional responsibility to implement the EPA/Virginia DEQ mandated wet weather management plan (RWWMP), including identification and rehabilitation of cost-effective inflow/infiltration sources [BC Project # 146162]

Rocky Branch Basin SSES, City of Columbia, Columbia, South Carolina

Project Engineer. Responsibilities include providing technical engineering support to the City of Columbia for a Sewer System Evaluation Study (SSES) of a portion of the City's sanitary sewer system to identify problems that may lead to sanitary sewer overflows (SSOs). This includes investigations that are intended to identify structural, operations and maintenance, and infiltration and inflow (I/I) related problems. A full update to the City of Columbia's GIS will be provided at the end of the assessment. The intent of this project is to meet the requirements of the Continuing Sewer Assessment Program (CSAP) and the Infrastructure Rehabilitation Program (IRP) which are components of the Consent Decree under which the City is performing this work.

Appendix D: Data Usability Summary Report

DATA USABILITY SUMMARY REPORT
PATCHOGUE FORMER MGP SITE

Client: Brown and Caldwell, Albany, New York
SDGs: 410-68043-1
Laboratory: Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, NY
Date: January 26, 2022

Client Sample ID	Laboratory Sample ID	Matrix
MW-1-20211220	410-68043-1	Groundwater
MW-10S-20211220	410-68043-2	Groundwater
MW-10D-20211220	410-68043-3	Groundwater
MW-8S-20211220	410-68043-4	Groundwater
MW-8D-20211220	410-68043-5	Groundwater
MW-7S-20211221	410-68043-6	Groundwater
MW-7D-20211221	410-68043-7	Groundwater
MW-14S-20211221	410-68043-8	Groundwater
MW-14D-20211221	410-68043-9	Groundwater
EB-20211221	410-68043-10	Water
MW-12S-20211221	410-68043-11	Groundwater
MW-12D-20211221	410-68043-12	Groundwater
MW-11S-20211221	410-68043-13	Groundwater
MW-11D-20211221	410-68043-14	Groundwater
MW-4S-20211222	410-68043-15	Groundwater
MW-4D-20211222	410-68043-16	Groundwater
MW-3-20211222	410-68043-17	Groundwater
MW-13S-20211222	410-68043-18	Groundwater
MW-13D-20211222	410-68043-19	Groundwater
DUP-20211222	410-68043-20	Groundwater
TB-20211222	410-68043-21	Water

Data validation was performed on the analytical data for twenty-one (21) samples collected on December 20 through 22, 2021 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 8020C", 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. Analytical issues were found with surrogate recoveries and method blank detections. 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-20211222 is the sample duplicate for MW-3-20211222. All relative percent differences were within control limits with the exception of fluorene and pyrene. Parent and duplicate samples are qualified as estimated, J, reason code 8.

Internal Standard Areas

- All samples exhibited acceptable internal standard values with the exception of sample MW-12S-20211221. Sample detections and non-detections are qualified as estimated, J/UJ, reason code X.

Surrogates

- All samples exhibited acceptable surrogate recovery values.

Laboratory Control Samples

- The LCS percent recoveries for benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenz(a,h)anthracene, and indeno[1,2,3-cd]pyrene were above control limits. Sample non-detections are not qualified, and detections are qualified as estimated, J, reason code 6H.

Matric Spike and Matrix Spike Duplicate (MS/MSD) Samples

- The MS/MSD samples were analyzed on MW-7S-20211221, and percent recoveries are within acceptable limits.

Method, Trip, and Field Blanks

- The method blank was free of contamination.
- The trip blank was free of contamination.
- The equipment 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

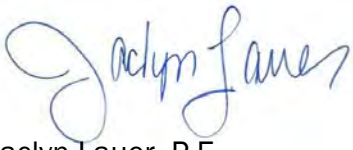
- All sample detections detected above the MDL and below the RL are appropriately qualified as estimated, J, by the laboratory.

Reporting Limits

- Samples MW-11S-20211221, MW-4S-20211222, MW-3-20211222, and DUP-20211222 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: January 26, 2022

Jaclyn Lauer, P.E.
Senior Staff Engineer and Validator
Brown and Caldwell

Signed:  Dated: January 26, 2022

Corey Strauss
Senior Staff Geologist 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.

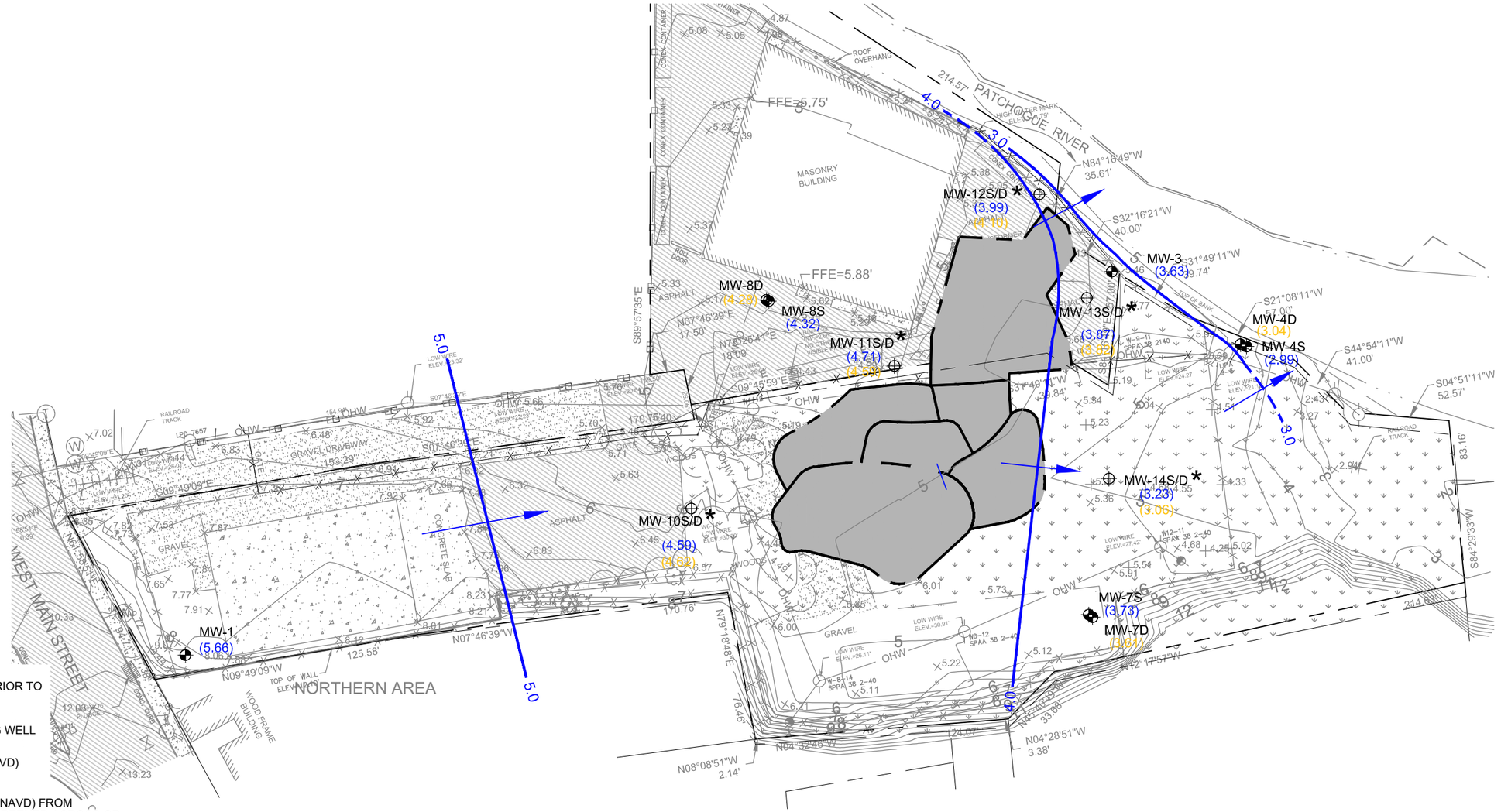
ft^3/s - cubic feet per second

Figures

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

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) 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-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
- 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)
- 12 — ACENAPHTHENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- J — ESTIMATED CONCENTRATION
- ND — NOT DETECTED

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

MW-1 ND

MW-3 5

MW-4D 0.01J

MW-4S 12

MW-7D ND

MW-7S 0.08

MW-8D ND

MW-8S 0.09

MW-10S/D ND ND

MW-11S/D 56 0.06

MW-12S/D 0.10 ND

MW-13S/D 36 ND

MW-14S/D 0.4 ND

PATCHOGUE RIVER

WEST MAIN STREET

NORTHERN AREA

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

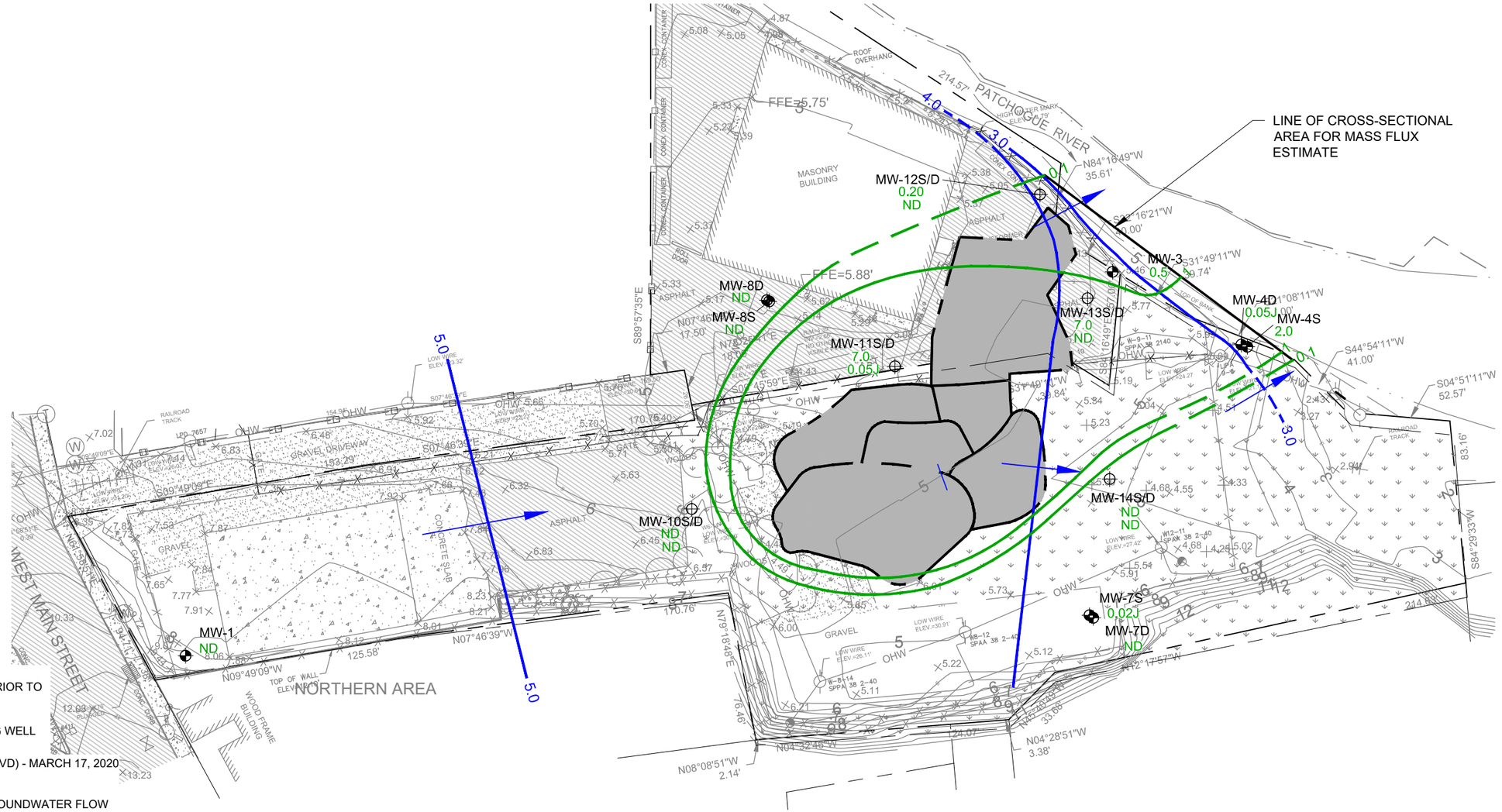
FIGURE

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
- 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)
- 0.5 — FLUORENE 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

FLUORENE IN GROUNDWATER MARCH 2020

FIGURE

F-3

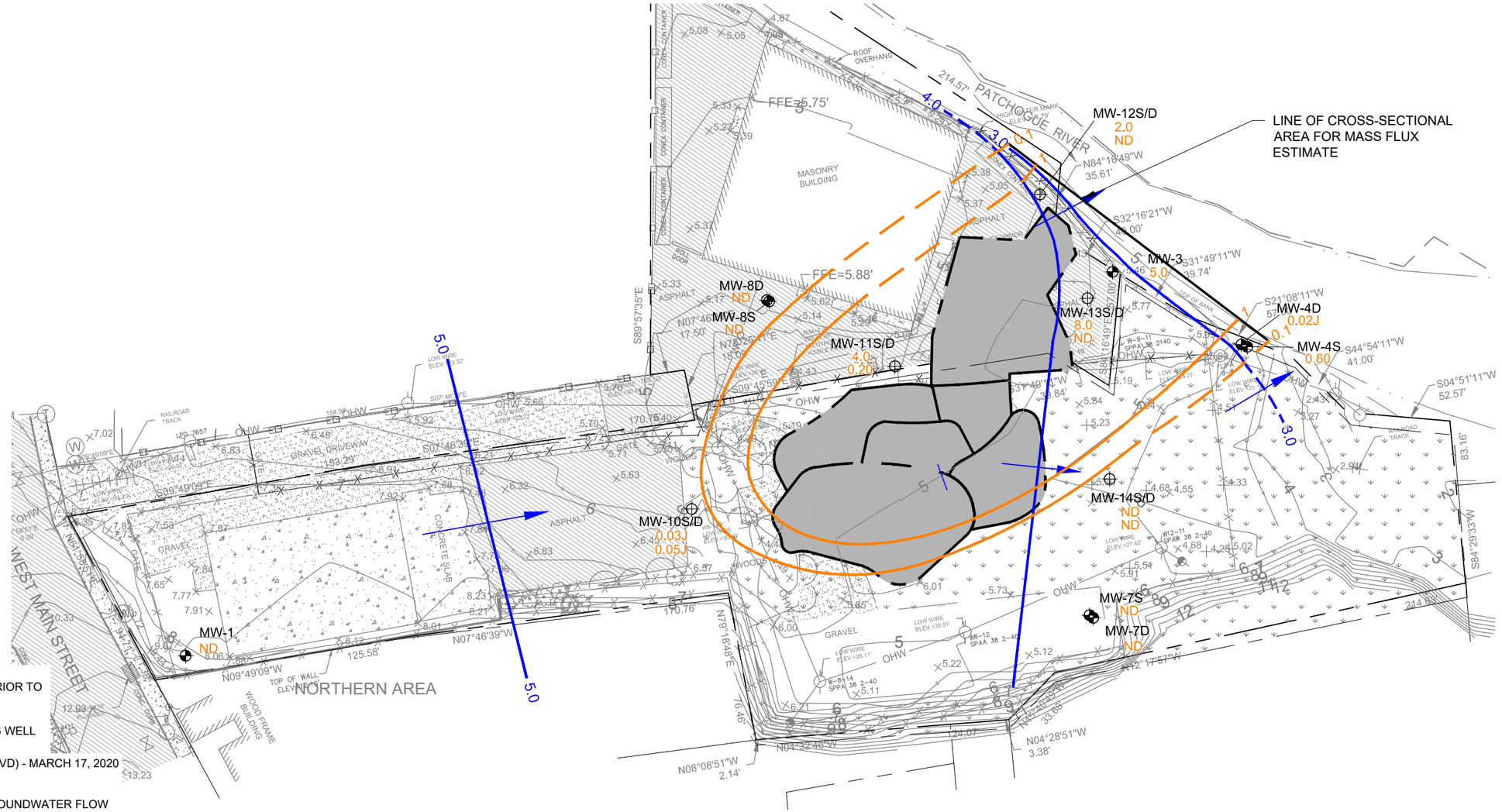
Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_4_pyrene_March2020 Plot Date: May 29, 2020 10:21 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- 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)
- PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- ESTIMATED CONCENTRATION
- 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

probability x 2 log cycles

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

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (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	Segment 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.

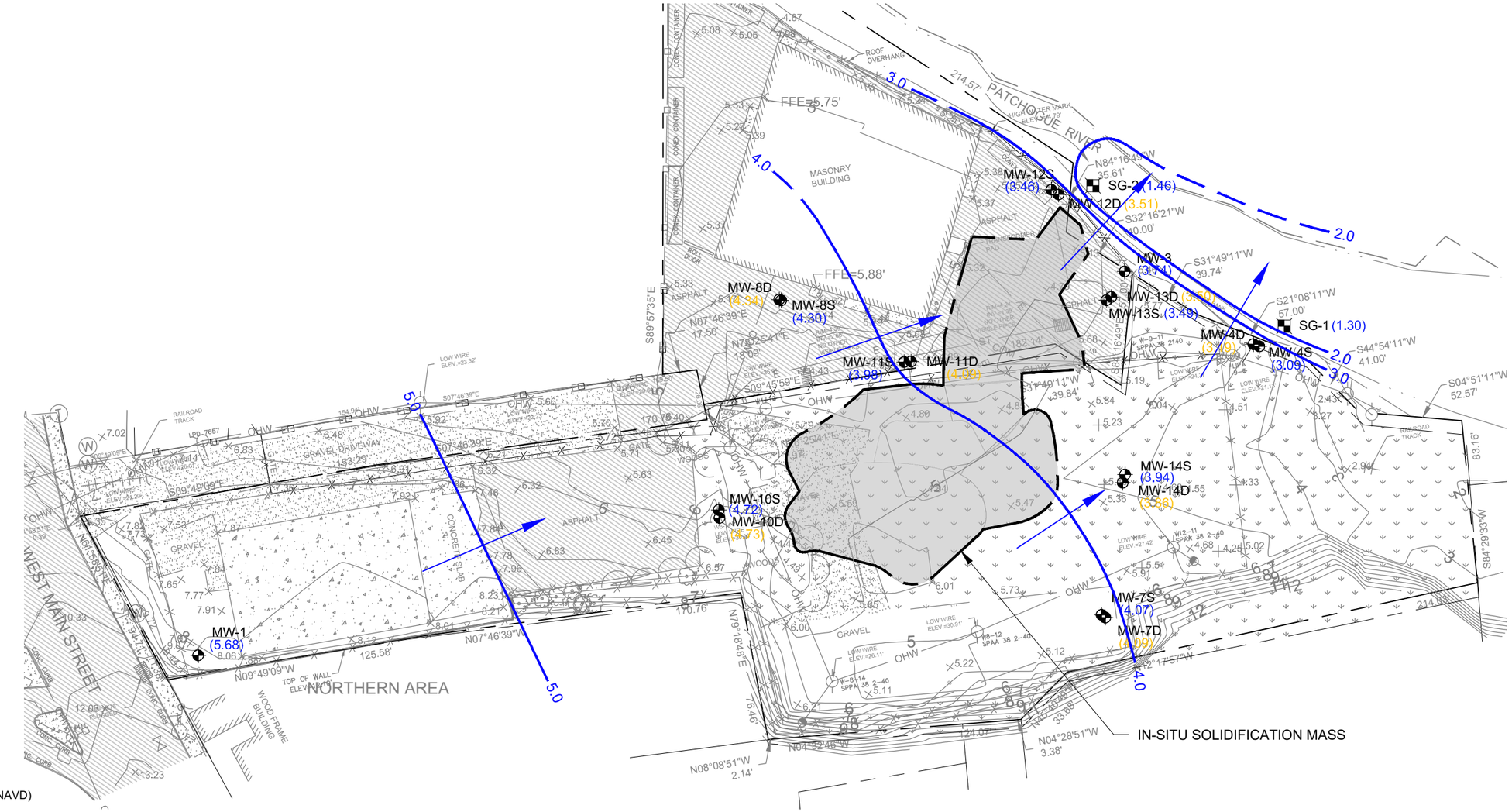
ft^3/s - cubic feet per second

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

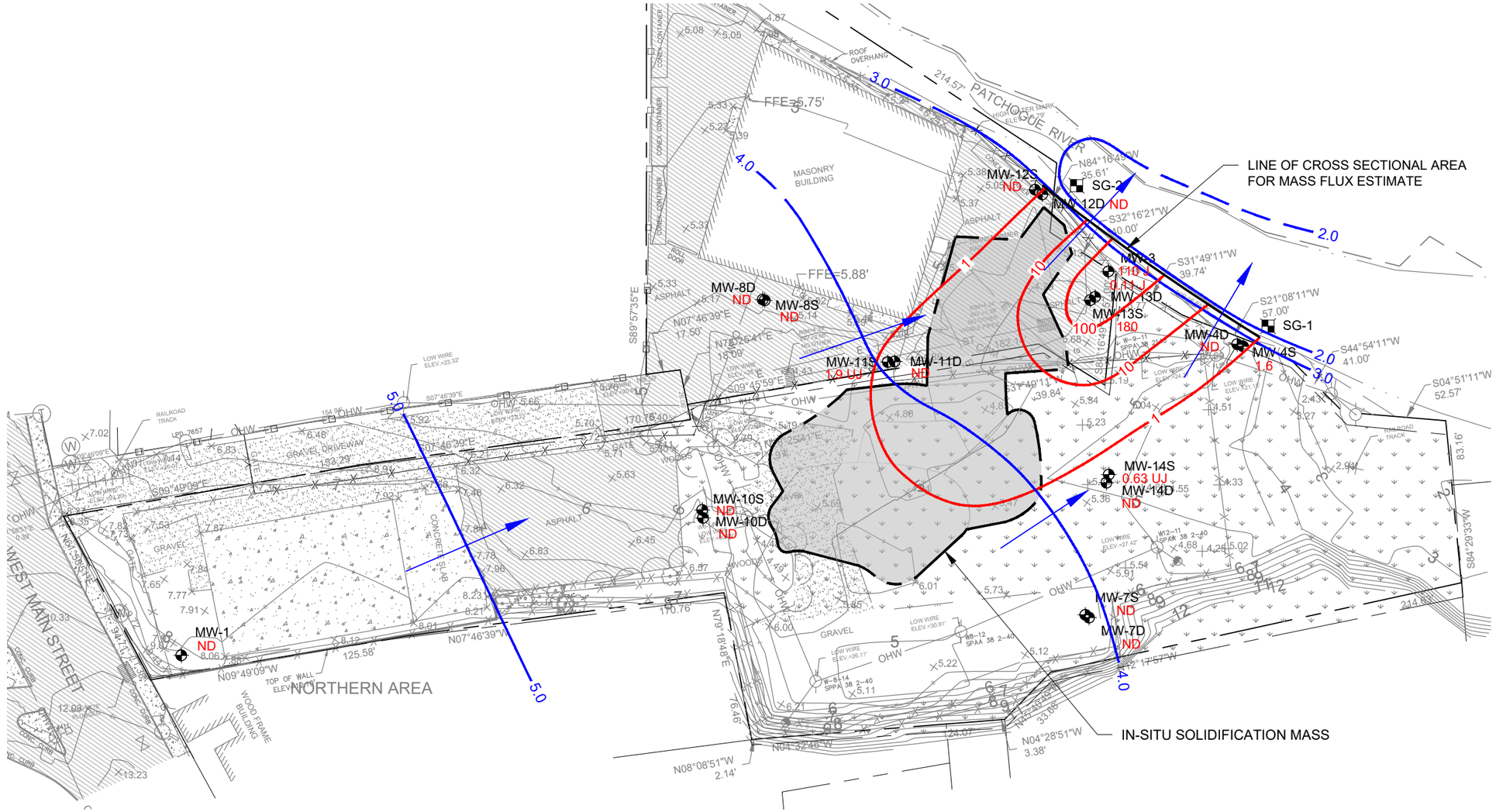
FIGURE

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

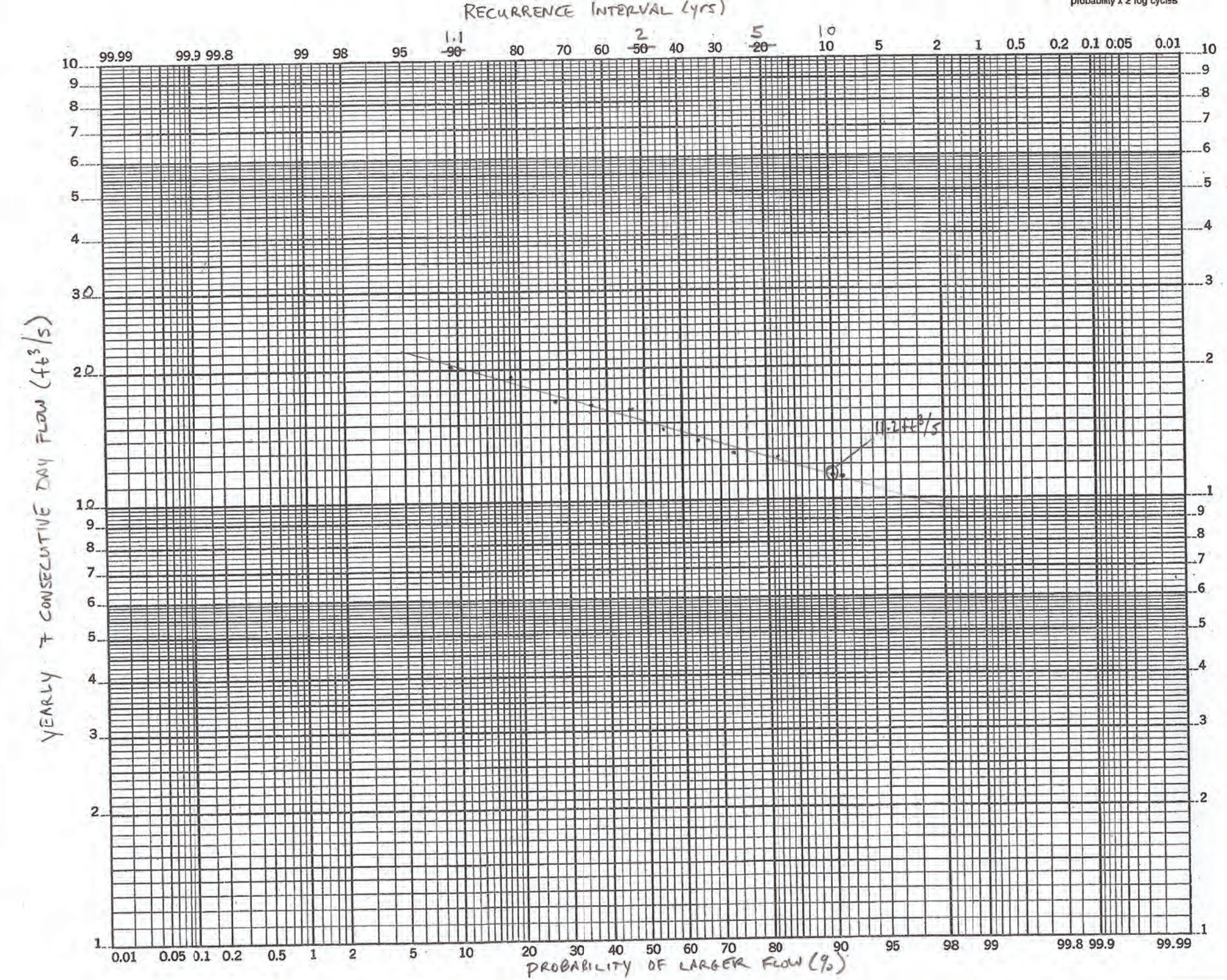
NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

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	Segment 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.

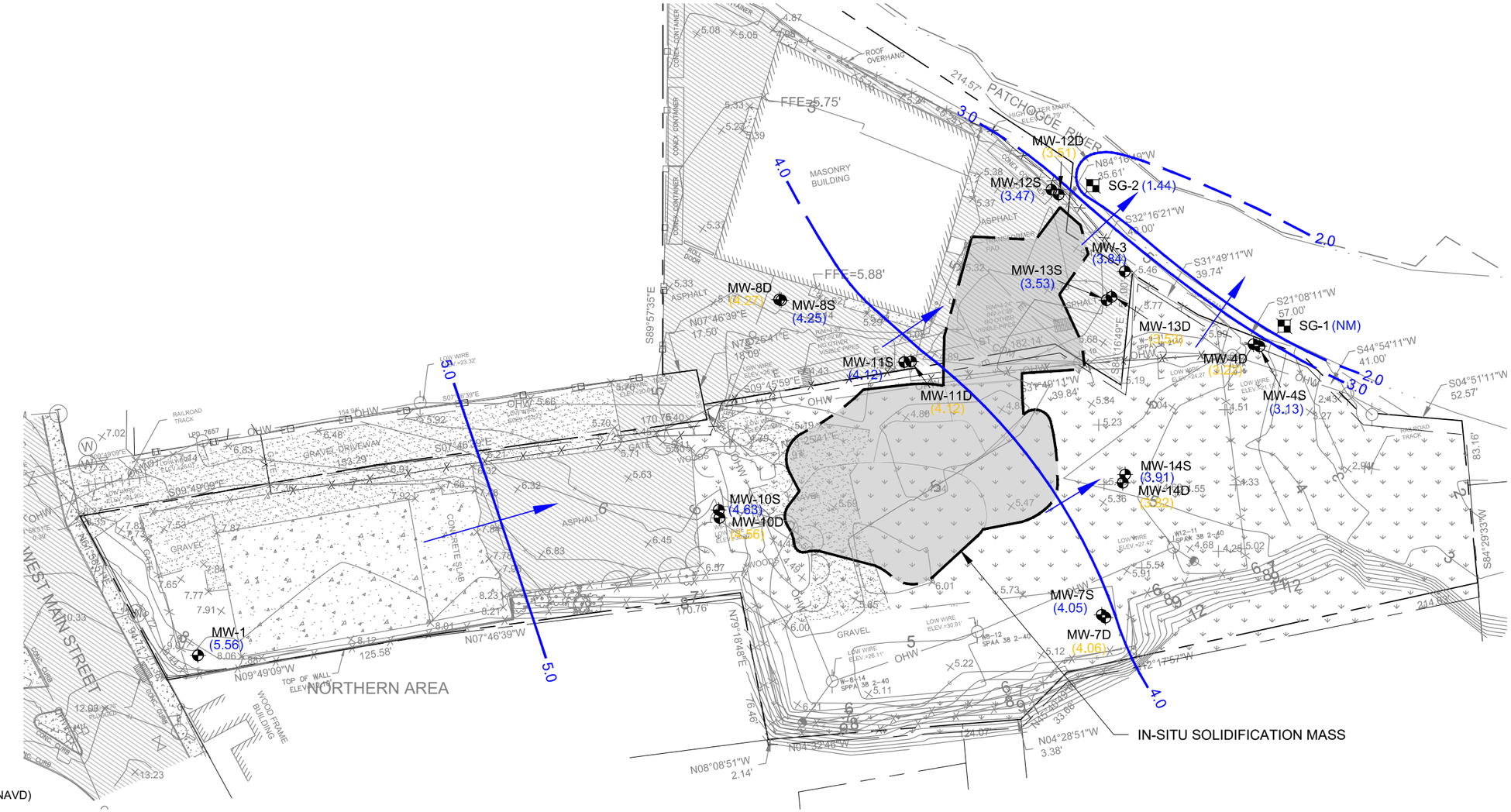
ft^3/s - cubic feet per second

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: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-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.

LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

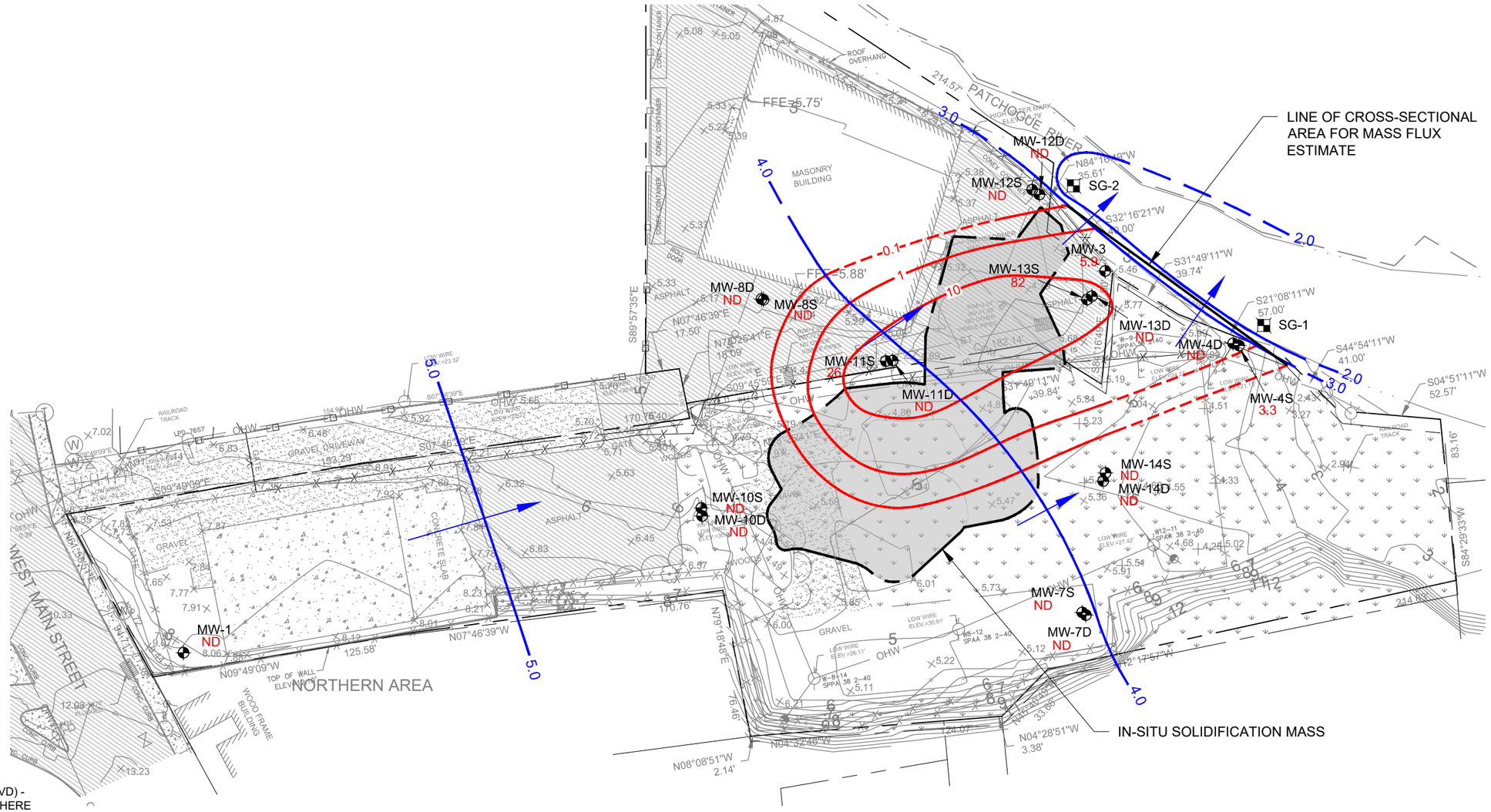
NORTHERN AREA

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: November 17, 2020	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	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

probability x 2 log cycles

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

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (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		Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		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	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 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	32	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	10	3.16	46	18
L =	32	ft =	975.36	cm	Length of segment between selected contours [C]	10	10.00	60	18
b =	18	ft =	548.64	cm	Saturated thickness				
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	1	0.32	38	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	5.9	2.43	107	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				

1-5.9 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 = (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	19	18
C=	0.316227766	µg/L =	0.000316228	$µg/cm^3$	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	$µg/cm^3$	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 =	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	$µg/cm^3$	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

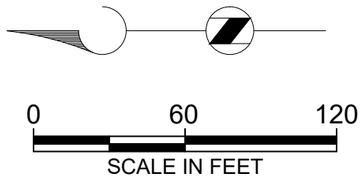
TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

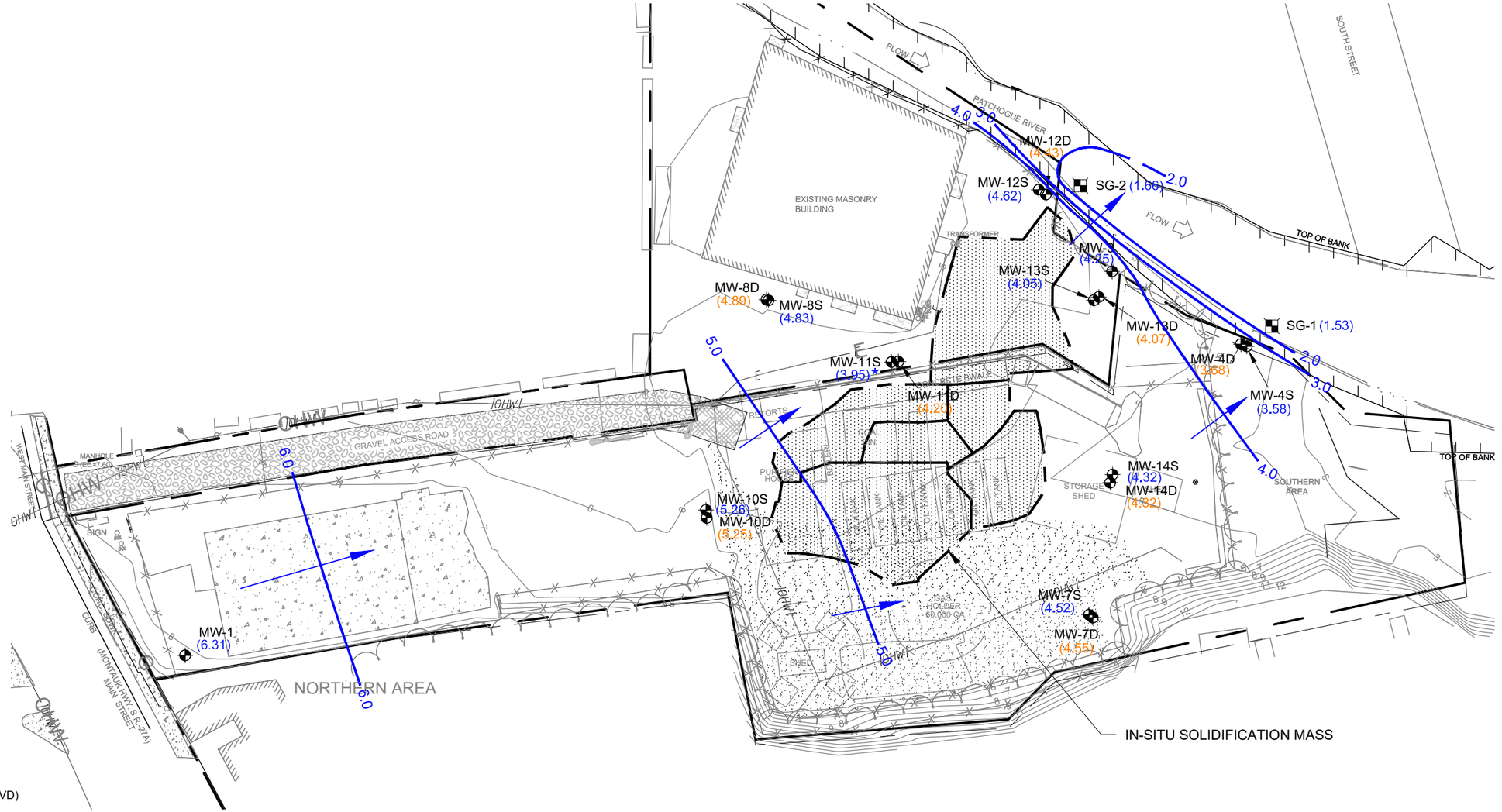
Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

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-2 ND

MW-3 0.40 J

MW-4S ND

MW-4D ND

MW-7S ND

MW-7D ND

MW-8S ND

MW-8D ND

MW-10S ND

MW-10D ND

MW-11S 0.16 J

MW-11D ND

MW-12S ND

MW-12D ND

MW-13S ND

MW-13D ND

MW-14S ND

MW-14D ND

SG-1

SG-2

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

Path: C:\users\asantiagobcpw\d0901435 File Name: BenzoApyrene_December2020 Plot Date: February 8, 2021 12:34 PM Cadd User: Alan Santiago

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

MW-8D ND

MW-8S ND

MW-10S ND

MW-10D ND

MW-11S 0.74

MW-11D ND

MW-12D ND

MW-12S ND

MW-13S 45

MW-13D ND

MW-14S ND

MW-14D ND

MW-4D ND

MW-4S 0.15 J

MW-7S ND

MW-7D ND

SG-1

SG-2

PATCHOGUE RIVER

WEST MAIN STREET

SOUTH STREET

TOP OF BANK

FFE=5.75'

FFE=5.88'

MASONRY BUILDING

EXISTING MASONRY BUILDING

WOOD FRAME BUILDING

GRAVEL DRIVEWAY/ACCESS ROAD

CONCRETE SLAB

ASPHALT

GRAVEL

RAILROAD TRACK

Path: C:\users\asantiago\bcpw\d0901435 File Name: Phenanthrene_December2020 Plot Date: February 8, 2021 12:33 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

PHENANTHRENE IN GROUNDWATER (µg/L)
DECEMBER, 2020

FIGURE

E-3

Attachments

probability x 2 log cycles

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

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (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				
C=	0.1	µg/L =	0.0001	µg/cm^3	Geometric mean concentration between selected contours	0.1	0.10	16	18
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

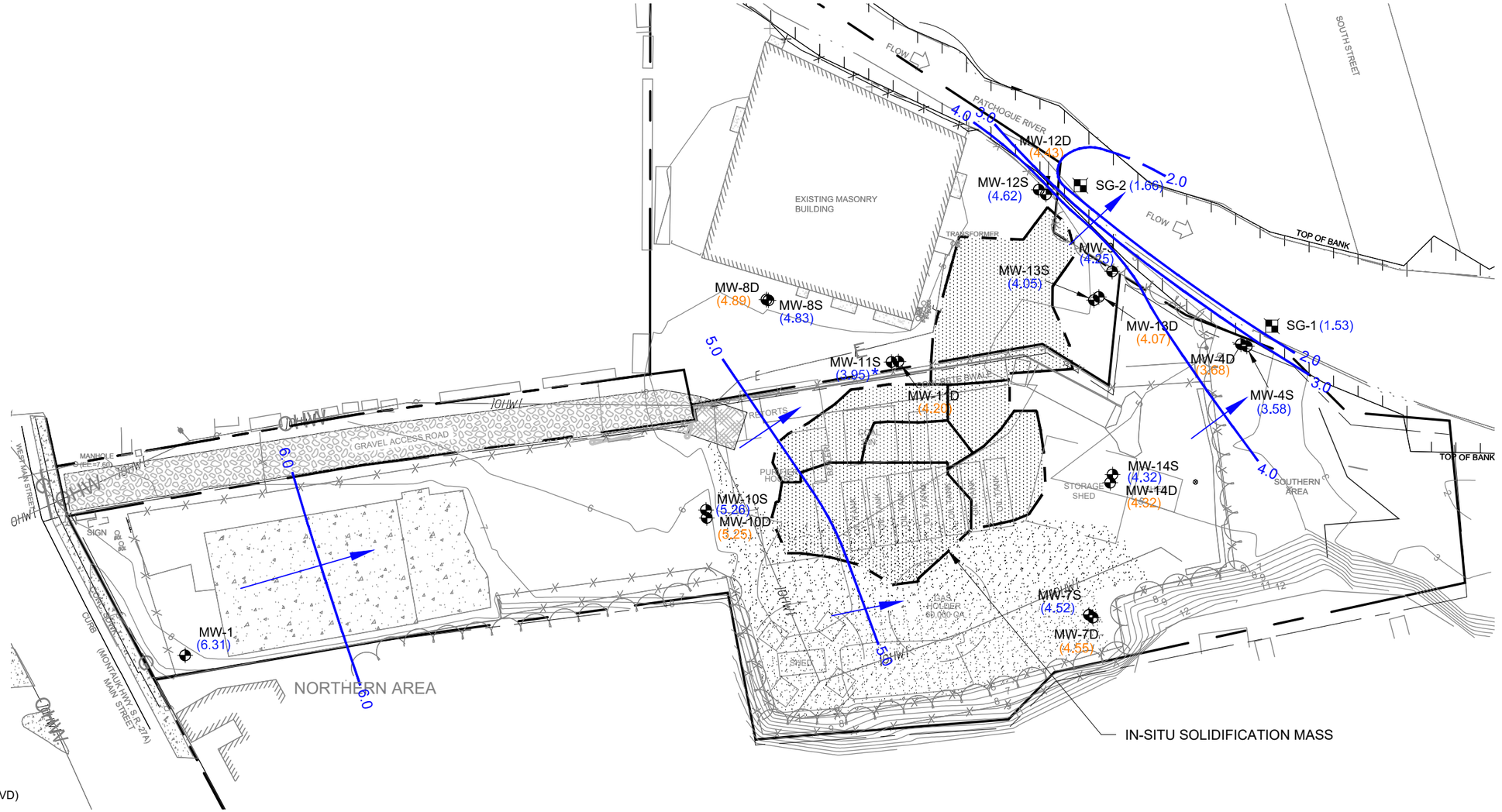
Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures

0 60 120

SCALE IN FEET



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

probability x 2 log cycles

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

11.2 ft³/s

YEARLY 7 CONSECUTIVE DAY FLOW (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