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First 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

May XX, 2021

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

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This is a draft and is not intended to be a final representation of the work done or recommendations made by Brown and Caldwell. It should not be relied upon; consult the final report.

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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
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
PAHs	Polycyclic Aromatic Hydrocarbons
QA/QC	Quality Assurance/Quality Control
SIM	Selective Ion Monitoring
Site	Patchogue Former MGP Site
TOGS	Technical and Operational Guidance Series
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 first quarter of 2021 at the Patchogue Former Manufactured Gas Plant (MGP) Site (hereinafter referred to as the "Site"). This monitoring event is the fifth 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 between National Grid and the New York State Department of Environmental Conservation (NYSDEC). Remedial construction activities were substantially completed in 2019 and site restoration activities were completed in Summer 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 first quarter 2021monitoring 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)

1.1 Background

This report presents the results and findings associated with the March/April 2021 groundwater monitoring event, which is the fifth 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 Summer 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 will be provided under separate cover in the Final Engineering Report (FER).

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 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 installed 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. A description of the well installation activities and monitoring well construction logs for the well couplets installed in January 2020 couplets will be provided in the FER.

Groundwater monitoring prior to remedy implementation was conducted on a semi-annual basis; however, the sampling frequency was temporarily increased to quarterly to evaluate the effectiveness of the remedy for Calendar Years 2020 and 2021.

Section 2

Scope of Work

Field activities for the first quarter 2021 groundwater monitoring were conducted by BC from March 31 through April 2, 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 March/April 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 Kelly Donahue of BC. Ms. Donahue's qualifications and experience as a data validator are included in Appendix C. A DUSR was prepared for the groundwater data packages (see Appendix D). Overall, the 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-20210402 is the sample duplicate for MW-3-20210402. All relative percent differences were within control limits with the exception of naphthalene. Parent and duplicate concentrations for naphthalene are qualified as estimated, J.
- MW-13S-20210402 was diluted due to foaming at the time of purging during the original sample analysis. Elevated reporting limits are provided.

Section 3

Results and Findings

3.1 Water Level Data

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

3.3 Groundwater Quality Data

Table 2 provides the results of the laboratory analyses of the groundwater samples collected during the March/April 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 March 31 to April 2, 2021 and submitted to the laboratory for analysis of BTEX, MTBE, and PAHs. Constituent concentrations were detected above Class GA groundwater quality criteria in the March/April 2021 samples at locations MW-3, MW-11S, and MW-13S for one or more of the following tested constituents: benzene, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and naphthalene. Each of these locations are proximal to the ISS mass. The presence of these constituents in groundwater is an expected result of the disturbance of the subsurface during implementation of the ISS. 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. 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 water quality the 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, 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. 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 were below applicable surface water criteria. 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). 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 March/April 2021 samples were similar (within the same order of magnitude) to those in the 2020 samples, yet the concentrations appear to be trending downwards from quarter to quarter. Since the estimated surface water concentrations of these seven constituents 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.

MTBE was not detected at any of the 18 monitoring wells sampled during the June 2020 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.

Another noteworthy groundwater quality observation gleaned from the March/April field parameter measurements (see Appendix A) includes an apparent increase in pH levels in wells MW-3 and MW-13S from the levels observed in December 2020 at these locations. Specifically, pH levels in MW-3 increased from 10.46 to 10.73; levels in MW-13S increased slightly from 9.60 to 9.88. Additionally, the pH levels in MW-3 prior to implementation of the remedy were considerably less than observed in December 2018 (6.9) but have increased since remedy implementation (7.43 in March 2020, 9.02 in June 2020, 10.01 in September 2020, and 10.46 in December 2020). MW-13S was not installed until after completion of the remedy and thus, pre-remediation pH data is not available for this location. However, pH levels in MW-13S have increased with each post-remediation sampling event from 7.66 in March 2020, to 9.46 in June 2020, to 9.54 in September 2020, and to 9.60 in December 2020. 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). 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 April 2021 are similar 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 March/April 2021 groundwater monitoring event.

- NAPL was not identified in any of the site monitoring wells during the April 2021 gauging activities.
- Constituent concentrations above Class GA groundwater quality criteria were detected in the March/April samples at three shallow well locations proximal to the ISS mass (MW-3, MW-11S, and MW-13S). The exceedances in the wells were for one or more of the following constituents: benzene, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and naphthalene. The presence of these constituents is an expected result of the disturbance of the subsurface during implementation of the ISS. 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. It is anticipated that the pH will decrease to pre-remedy levels with time. The increased pH levels measured in groundwater at the Site are not impacting surface water quality in the Patchogue River based on a mass flux analysis.

Section 5

References

Brown and Caldwell Associates, December 2020, Third Quarter 2020 Groundwater Monitoring Report, Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

Brown and Caldwell Associates, October 2020, Second Quarter 2020 Groundwater Monitoring Report, Patchogue Former MGP Site, Village of Patchogue, Suffolk County, New York, Site ID No. 1-52-182.

Brown and Caldwell Associates, June 2020, First Quarter 2020 Groundwater Monitoring 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
FIRST QUARTER 2021 GROUNDWATER MONITORING EVENT
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

		4/1/2021			
Location ID	Top of Casing Elevation (ft., NAVD)	Depth to Water (ft., BTOC)	Water Elevation (ft., NAVD)	Depth to NAPL (ft., BTOC)	Total Depth of Well (ft., BTOC)
MW-1	11.47	5.58	5.89	NI	15.24
MW-3	5.56	1.60	3.96	NI	10.12
MW-4S	7.97	4.69	3.28	NI	12.30
MW-4D	7.79	4.43	3.36	NI	23.71
MW-7S	8.45	4.18	4.27	NI	12.46
MW-7D	8.31	4.08	4.23	NI	28.17
MW-8S	5.01	0.30	4.71	NI	9.94
MW-8D	4.99	0.30	4.69	NI	25.11
MW-10S	5.77	0.85	4.92	NI	15.57
MW-10D	5.73	0.83	4.90	NI	25.36
MW-11S	5.02	0.71	4.31	NI	13.76
MW-11D	5.14	0.78	4.36	NI	23.62
MW-12S	4.99	1.34	3.65	NI	13.34
MW-12D	4.92	1.21	3.71	NI	23.94
MW-13S	4.98	1.25	3.73	NI	13.34
MW-13D	4.96	1.26	3.70	NI	23.98
MW-14S	4.86	0.87	3.99	NI	12.65
MW-14D	4.82	0.88	3.94	NI	22.12
SG-1	5.38	3.99	1.39	--	NA
SG-2	5.25	3.70	1.55	--	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
FIRST 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 3/31/2021	MW-3 4/2/2021	MW-3 (Dup) 4/2/2021	MW-4S 4/2/2021	MW-4D 4/2/2021	MW-7S 3/31/2021	MW-7D 3/31/2021	MW-8S 4/1/2021	MW-8D 4/1/2021	MW-10S 3/31/2021	MW-10D 3/31/2021
Volatile Organic Compounds (VOCs)															
BTEX Compounds															
Benzene	NE	1	µg/L		0.20 U	0.74 J	0.73 J	0.56 J	0.20 U	0.31 J	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Toluene	NE	5	µg/L		0.20 U	0.82 J	0.79 J	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	3.7	3.6	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		1.4 U	4.9 J	4.9 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Total BTEX[a]	NE	NE	µg/L		ND	10.2 J	10 J	0.6 J	ND	0.3 J	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	0.21 J	0.2 U	0.20 U	0.20 U
Semi-Volatile Organic Compounds (SVOCs)															
Polycyclic Aromatic Hydrocarbons (PAHs)															
Acenaphthene	20	NE	µg/L		0.010 U	**27**	**27**	15	0.010 U	0.10	0.010 U	0.11	0.010 U	0.010 U	0.010 U
Acenaphthylene	NE	NE	µg/L		0.010 U	4.1	4.2	0.61	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Anthracene	50	NE	µg/L		0.010 U	0.80	0.95	0.21	0.010 U	0.026 J	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(a)anthracene	0.002	NE	µg/L		0.010 U	**0.81**	**0.88**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(a)pyrene	NE	0	µg/L		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(b)fluoranthene	0.002	NE	µg/L		0.010 U	**0.014 J**	**0.012 J**	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(k)fluoranthene	0.002	NE	µg/L		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chrysene	0.002	NE	µg/L		0.010 U	**0.48**	**0.48**	0.010 U	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		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Fluoranthene	50	NE	µg/L		0.010 U	9.2	8.7	2.0	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Fluorene	50	NE	µg/L		0.010 U	5.0	5.1	4.3	0.010 U	0.026 J	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Naphthalene	10	NE	µg/L		0.030 U	**80 J**	**110 J**	0.030 U	0.030 U	0.11	0.030 U	0.030 U	0.043 J	0.030 U	0.030 U
Phenanthrene	50	NE	µg/L		0.030 U	4.7	5.8	0.073	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
Pyrene	50	NE	µg/L		0.010 U	9.1	9.2	2.0	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Total PAHs[b]	NE	NE	µg/L		ND	141	172 J	24.2	ND	0.26 J	ND	0.11	0.043 J	ND	ND

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
FIRST 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-11S 4/1/2021	MW-11D 4/1/2021	MW-12S 4/1/2021	MW-12D 4/1/2021	MW-13S 4/2/2021	MW-13D 4/2/2021	MW-14S 3/31/2021	MW-14D 3/31/2021
Volatile Organic Compounds (VOCs)												
BTEX Compounds												
Benzene	NE	1	µg/L		**1.3**	0.20 U	0.20 U	0.20 U	**1.4 J**	0.20 U	0.20 U	0.20 U
Toluene	NE	5	µg/L		0.20 U	0.20 U	0.20 U	0.20 U	1.0 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	2.6 J	0.40 U	0.40 U	0.40 U
Xylenes, Total	NE	NE	µg/L		1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	1.4 U	1.4 U	1.4 U
Total BTEX[(a)]	NE	NE	µg/L		1.3	ND	ND	ND	4.0 J	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	1.00 U	0.2 U	0.20 U	0.20 U
Semi-Volatile Organic Compounds (SVOCs)												
Polycyclic Aromatic Hydrocarbons (PAHs)												
Acenaphthene	20	NE	µg/L		**41**	0.010 U	0.010 U	0.010 U	**35**	0.010 U	0.84	0.010 U
Acenaphthylene	NE	NE	µg/L		0.61	0.010 U	0.010 U	0.010 U	1.3	0.010 U	0.022 J	0.010 U
Anthracene	50	NE	µg/L		3.0	0.010 U	0.010 U	0.010 U	6.8	0.010 U	0.016 J	0.010 U
Benzo(a)anthracene	0.002	NE	µg/L		**0.16**	0.010 U	0.010 U	0.010 U	**1.3**	0.010 U	0.010 U	0.010 U
Benzo(a)pyrene	NE	0	µg/L		**0.033 J**	0.010 U	0.010 U	0.010 U	**0.087**	0.010 U	0.010 U	0.010 U
Benzo(b)fluoranthene	0.002	NE	µg/L		**0.031 J**	0.010 U	0.010 U	0.010 U	**0.084**	0.010 U	0.010 U	0.010 U
Benzo(g,h,i)perylene	NE	NE	µg/L		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Benzo(k)fluoranthene	0.002	NE	µg/L		**0.015 J**	0.010 U	0.010 U	0.010 U	**0.034 J**	0.010 U	0.010 U	0.010 U
Chrysene	0.002	NE	µg/L		**0.12**	0.010 U	0.010 U	0.010 U	**0.91**	0.010 U	0.010 U	0.010 U
Dibenzo(a,h)anthracene	NE	NE	µg/L		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Fluoranthene	50	NE	µg/L		2.9	0.010 U	0.010 U	0.010 U	7.8	0.019 J	0.010 U	0.010 U
Fluorene	50	NE	µg/L		7.3	0.010 U	0.010 U	0.010 U	8.4	0.010 U	0.030 J	0.010 U
Indeno(1,2,3-cd)pyrene	0.002	NE	µg/L		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Naphthalene	10	NE	µg/L		4.4	0.030 U	0.030 U	0.030 U	**80**	0.030 U	0.065 J	0.030 U
Phenanthrene	50	NE	µg/L		16	0.030 U	0.030 U	0.030 U	39	0.030 U	0.063 J	0.030 U
Pyrene	50	NE	µg/L		2.3	0.010 U	0.012 J	0.010 U	6.2	0.018 J	0.010 J	0.010 U
Total PAHs[(b)]	NE	NE	µg/L		78 J	ND	0.012 J	ND	187 J	0.037 J	1.0 J	ND

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]
Mar-21	0	-- [b]	-- [b]	10.2	0.6	0	-- [c]	-- [c]	0.3	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	3.5	0.9	0	913	8.6	0.2	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]
Mar-21	0	0	1.3	0	0	0	4	0	0	0	-- [c]
Minimum	0	0	0	0	0	0	4	0	0	0	0
Maximum	0	0	4.0	0	0	0	37	0	0.73	0	0
Mean	0	0	2.0	0	0	0	20	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

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]
Mar-21	0	-- [b]	-- [b]	172	24.2	0	-- [c]	-- [c]	0.26	0	0.11	0.043	-- [c]	-- [c]
Min	0	0	0	0	0	0	1774	0	0	0	0	0	0	0
Max	22	0.7	0.6	336	41	39	3373	214	3	2.6	22	1.2	396	5
Mean	0.8	0	0.1	45	6	3.6	2413	65	0.5	0.2	1.5	0.1	27	0.9

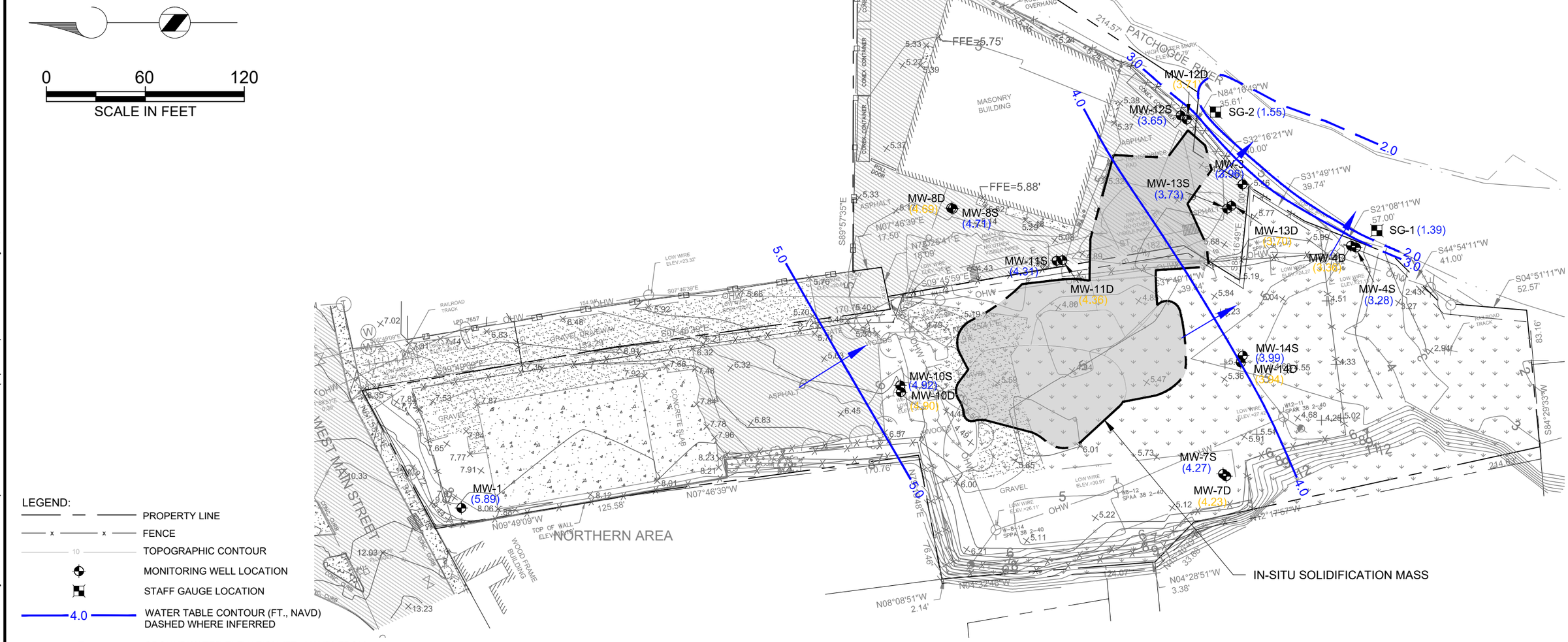
Notes:
PAH - Polycyclic aromatic hydrocarbons
µg/L - micrograms per liter
NS - Not sampled.
NI - Monitoring Well or piezometer not installed at time of sampling.
(a) - To calculate total PAH concentration, a value of zero is used for non-detect values.
(b) - Monitoring well was decommissioned on 6/4/12 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]
Mar-21	0	0	78	0	0.012	0	187	0.037	1.0	0	-- [c]
Min	0	0	6.8	0	0	0	182	0	0.12	0	0.3
Max	0.3	0.3	127	2	14	0	467	0.11	1.8	0.04	0.3
Mean	0.1	0.1	74	0.3	2.8	0	284	0.05	0.9	0.01	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



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: 5/3/2021	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	WATER TABLE ELEVATION CONTOUR MAP APRIL 1, 2021	FIGURE 1

Path: \\bcusrfp01\projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(Apr2021) Plot Date: May 10, 2021 9:20 AM Cadd User: Richard Johnson

Appendix A: Field Sampling Data Sheets

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:	3/31/21
Personnel:	PEP, AFV	Well ID:	MW-1-20210331
Purge/Sample Depth:	12	Sample ID:	MW-1-20210331

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1017	5.89	9.59	3.47	7.10	79.1	19	5.89	200	Slight odor
1015	6.09	9.61	3.93	1.11	17.3	-3	5.88		
1018	6.72	9.47	4.30	0.27	14.6	-21	5.89		
1021	6.76	9.34	4.38	0.16	14.2	-23	5.87		
1024	[illegible]	[illegible]	4.79	2.33	9.5	-32	5.86		
1027	6.46	9.47	4.81	1.75	9.6	-31	5.86		
1030	6.52	9.23	4.83	0.105	12.3	-33	5.86		
1033	6.53	9.16	4.83	0.100	9.8	-34	5.85		
1036	6.56	9.14	4.83	0	16.4	-36	5.85		
1039	6.60	9.17	4.82	0	27.9	-43	5.84		
1042	6.59	9.17	4.82	0	30.2	-43	5.84		
1045	Collect MW-1-20210331								

PEP 3/31/21

Certified Sample Information:

Time of Sample: 1045 Analyst Signature:

Instrument Data:

Manufacturer/Model: Horiba U-52

Serial No. Unit: X17RV56 Serial No. Handheld: MOWK2PJP

Calibration Date/Time: 3/31/21 0945

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-1-20210331 (if different from well no.)

Project: Lacrosse
Personnel: PAP, AFV

Date: 3/31/21 Time: 1012
Weather: Clouds Air Temp.: 73°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: 5.75 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: 200 mL/min Elapsed Time: 30 Mins Volume Pumped: 2 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

SAMPLING EQUIPMENT: ☐ Dedicated ☑ Prepared Off-Site ☑ Field Cleaned
Metals samples field filtered? ☐ Yes ☑ No Method: ____
APPEARANCE: ☑ Clear ☐ Turbid ☑ Color: Amber ☐ 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: 3/31/21

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: NG
Personnel: PEP, AFV
Purge/Sample Depth: 9
Project Number: 153021
Date: 3/31/21
Well ID: MW-105
Sample ID: MW-105-20210331

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1005	6.81	10.62	0.567	7.22	75.3	-58	1.02	200	
1009	6.80	10.51	0.518	2.73	72.0	-60	1.02		
1011	6.91	10.38	0.444	0	64.7	-72	1.02		
1014	6.92	10.46	0.437	0	55.9	-76	1.02		
1017	6.95	10.50	0.434	0	57.7	-80	1.02		
1020	6.95	10.46	0.433	0	53.1	-82	1.02		
1023	6.96	10.40	0.436	0	51.0	-86	1.02		
1026	6.96	10.41	0.437	0	49.5	-86	1.02		
1029	6.95	10.38	0.438	0	46.3	-86	1.02		
1032	6.96	10.36	0.440	0	45.7	-89	1.02		
1035	6.97	10.35	0.440	0	37.8	-89	1.02		
1036	Collect MW-105-20210331								

PEP 0331/21

Certified Sample Information:
Time of Sample: 1038
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X1712U56
Serial No. Handheld: MOWK2BJP
Calibration Date/Time: 3/31/21 0945

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-10S
Sample I.D.: MW-10S-20210331 (if different from well no.)

Project: Portchogue
Personnel: PFP, AFV

Date: 10/3/21 Time: 1105
Weather: Clouds Air Temp.: ____

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: 1.02 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 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: 3/31/21

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:	NB	Date:	3/3/21
Personnel:	PFP, AFV	Well ID:	MW-10D
Purge/Sample Depth:	70	Sample ID:	MW-10D-20210331

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1152	6.77	11.22	0.351	7.55	50.5	4	1.0	200	
1155	6.77	11.29	0.351	5.30	43.7	12	1.0		
1158	6.94	11.56	0.345	0	22.9	34	1.0		
1201	6.94	11.51	0.345	0	20.2	40	1.0		
1204	6.95	11.52	0.343	0	15.8	46	1.0		
1207	6.95	11.53	0.340	0	13.2	47	1.0		
1210	6.96	11.68	0.336	0	9.9	54	1.1		
1213	6.96	11.69	0.336	0	9.8	54	1.1		
1216	6.96	11.76	0.335	0	6.6	59	1.1		
1219	6.97	11.74	0.335	0	5.9	59	1.1		
1222	6.98	11.82	0.334	0	4.8	60	1.1		
1225	Collect MW-10D-20210331								

3/3/21

Certified Sample Information:
Time of Sample: 1225 Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X7T2V56 Serial No. Handheld: M0WK2PJP
Calibration Date/Time: 3/3/21 0945

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-20210331 (if different from well no.)

Project: Patchogue
Personnel: PFP, AFV

Date: 3/31/21 Time: 1152
Weather: Clouds Air Temp.: 57°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: 0.8 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 mins Volume Pumped: 2 gal
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

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

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

Signature: _____ Date: 3/31/21

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:	NG	Date:	3/31/21
Personnel:	PFP, AFV	Well ID:	MW-7S
Purge/Sample Depth:	10'	Sample ID:	MW-7S-202103 31

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1412	7.17	10.58	0.535	3.04	646	-119	4.52	200	
1415	7.17	10.20	0.536	1.02	443	-122	4.52		
1418	7.15	9.97	0.537	0.23	327	-127	4.52		
1421	7.21	9.93	0.538	0	185	-133	4.52		
1424	7.29	9.55	0.538	0	106	-142	4.52		
1427	7.30	9.56	0.536	0	107	-143	4.52		
1430	7.31	9.54	0.540	0	89.7	-145	4.52		
1433	7.33	9.50	0.542	0	77.6	-148	4.52		
1436	7.33	9.52	0.542	0	71.7	-148	4.52		
1439	7.34	9.53	0.543	0	54.6	-150	4.53		
1442	7.34	9.50	0.543	0	54.6	-150	4.53		
1445		Collect	MW-7S-202103 31 +MS/MSD						

PFP 3/31/21

Certified Sample Information:
Time of Sample: 1445

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X17VS6
Calibration Date/Time: 3/31/21 0945
Serial No. Handheld: MOWK2RJP

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-7S
Sample I.D.: MW-7S-20210331 (if different from well no.)

Project: Patchogue
Personnel: PFP, AFV

Date: 3/31/21 Time: 1412
Weather: Cloudy Air Temp.: 68°F

WELL DATA:

Casing Diameter: 5" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: ____
Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock
DEPTH TO : Static Water Level: 9.3 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 MINS Volume Pumped: 2.9 L
Was well Evacuated? ☐ Yes ☑ No Number of Well Volumes Removed: ____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☑ Field Cleaned

SAMPLING DATA:

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

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

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

DUP : ☑ No ☐ Yes Name: ____
MS/MSD : ☐ No ☑ Yes Name: MW-7S-20210331 (MS/MSD)

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

Signature: ____ Date: 3/31/21

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: Racer Patchogue
Client: NG
Personnel: PBP, AFV
Purge/Sample Depth:

Project Number: 153021
Date: 3/31/21
Well ID: MW-7D
Sample ID: MW-7D-20210331

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1505	5.87	11.86	0.302	3.16	19.3	112	4.20	200	
1508	5.85	11.91	0.302	2.77	16.0	118	4.20		
1511	5.80	12.14	0.301	1.76	11.2	156	4.20		
1514	5.80	12.19	0.301	1.79	9.5	177	4.20		
1517	5.83	12.27	0.302	1.55	6.5	193	4.20		
1520	5.84	12.28	0.302	1.54	6.9	194	4.20		
1523	5.86	12.29	0.303	1.43	5.3	202	4.20		
1526	5.87	12.30	0.303	1.40	5.1	204	4.20		
1529	5.92	12.33	0.305	1.44	4.2	206	4.20		
1532	5.89	12.35	0.305	1.48	4.7	208	4.20		
1535	5.89	12.37	0.304	1.42	3.8	212	4.20		
1538	Collect MW-7D-20210331								

PBP 3/31/21

Certified Sample Information:
Time of Sample: 1538
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X7N516
Serial No. Handheld: MOWK2PJP
Calibration Date/Time: 3/31/21 0945

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-20210331 (if different from well no.)

Project: Patchogue

Personnel: PFF, AFV

Date: 3/31/21 Time: 1505

Weather: Clouds Air Temp.: 68°

WELL DATA:

Casing Diameter: 5" ☐ Stainless Steel ☑ Steel ☐ PVC ☐ Teflon® ☐ Other: _____

Intake Diameter: 2" ☐ Stainless Steel ☐ Galv. Steel ☑ PVC ☐ Teflon® ☐ Open rock

DEPTH TO : Static Water Level: 4.20 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 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: 3/31/21

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: NG
Personnel: PBP, AFV
Purge/Sample Depth: 10'

Project Number: 153021
Date: 3/31/21
Well ID: MW-14S
Sample ID: MW-14S-20210331

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1557	6.70	12.15	0.352	2.50	375	165	1.01	300	
1600	6.84	11.98	0.353	1.46	299	159	1.01		
1603	7.06	11.82	0.355	0.73	159	144	1.02		
1606	7.22	11.72	0.359	0	54.3	122	1.02		
1609	7.27	11.69	0.361	0	39.9	119	1.02		
1612	7.27	11.67	0.362	0	34.5	115	1.02		
1615	7.35	11.59	0.366	0	17.6	103	1.03		
1619	7.40	11.57	0.370	0	10.6	95	1.03		
1621	7.38	11.56	0.371	0	8.9	92	1.03		
1624	7.40	11.55	0.374	0	7.9	89	1.03		
1627	7.43	11.51	0.375	0	6.8	87	1.03	V	
1630		collect	MW-14S-20210331						

PBP 3/31/21

Certified Sample Information:
Time of Sample: 1630

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X1712V56
Calibration Date/Time: 3/31/21 0945
Serial No. Handheld: MOWK2PJP

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-20210331 (if different from well no.)

Project: Patchogue
Personnel: PH, AFV

Date: 3/31/21 Time: 1557
Weather: Clouds Air Temp.: 66°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: 1.01 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 mins Volume Pumped: 3 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: 3/31/21

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: NG
Date: 3/31/21
Personnel: PFF, AFV
Well ID: MW-14D rec
Purge/Sample Depth: 201
Sample ID: MW-14D-20210331

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1640	5.88	12.73	0.506	3.17	256	194			
1643	5.61	12.85	0.509	0.83	374	219			
1646	5.57	12.89	0.507	0.10	472	243			
1649	5.53	12.90	0.509	0.04	497	246			
1652	5.52	12.90	0.509	0.02	519	249			
1655									Empty Horiba
1658	5.45	12.88	0.517	0.68	550	280			
1701	5.45	12.88	0.517	0.53	551	291			
1704	5.49	12.88	0.517	0	464	291			
1707	5.44	12.88	0.518	0	340	297			
1710	5.45	12.88	0.518	0	319	297			
1713	5.89	12.88	0.518	0	305	298			
1716	5.45	12.89	0.518	0	241	304			
1719	5.46	12.90	0.518	0	236	303			
1722	5.49	12.89	0.517	0	150	309			
1725	5.47	12.90	0.517	0	150	309			
1728	5.48	12.89	0.517	0	142	308			
1731	5.50	12.88	0.517	0	125	307			
1734	5.47	12.84	0.517	0	108	310			Empty Horiba
1737	5.45	12.84	0.516	0	89.3	312			
1740	5.47	12.83	0.517	0	84.5	314			
1743	Collect MW-14D-20210331								

PFF 3/31/21

Certified Sample Information:

Time of Sample: 1743
Analyst Signature:

Instrument Data:

Manufacturer/Model: Horiba U-52
Serial No. Unit: X1712V56
Serial No. Handheld: MOWK2PJP
Calibration Date/Time: 3/31/21 0945

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-20210331 (if different from well no.)

Project: RGR Patchogue
Personnel: PP, AV

Date: 3/31/21 Time: 1640
Weather: Clouds Air Temp.: 68°

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: 9.88 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: 60 mins Volume Pumped: 6 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: 3/31/21

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:	BCJ	Date:	04/01/21
Personnel:	AFV / PFP	Well ID:	MW-85
Purge/Sample Depth:	~7'	Sample ID:	MW-85-20210401

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1047	6.45	9.46	0.503	4.45	135	11	0.30	200	
1050	6.70	10.26	0.502	1.44	135	-25	0.30		
1053	6.79	10.57	0.491	0.09	100	-40	0.30		
1056	6.78	10.61	0.478	0.00	89.1	-48	0.30		
1059	6.77	10.68	0.469	0.00	68.3	-40	0.30		
1102	6.79	10.73	0.462	0.00	57.9	-38	0.30		
1105	6.79	10.75	0.455	0.00	42.1	-38	0.30		
1108	6.78	10.77	0.450	0.00	38.8	-39	0.30		
1111	6.76	10.84	0.446	0.00	37.9	-38	0.30		
1114	6.75	10.85	0.444	0.00	32.4	-38	0.30		
1117	6.75	10.84	0.443	0.00	28.6	-39	0.30		
1120	Collect MW-85-20210401								

04/01/21

Certified Sample Information:
Time of Sample: 1120

Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X1712U56
Calibration Date/Time: 04/01/21
Serial No. Handheld: 10WK2PJP

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-85

Sample I.D.: MW-85-20210401 (if different from well no.)

Project: ~~AFFF~~ Patchogue AFV/PFP

Personnel:

Date: 04/01/21 Time: 1047

Weather: Cloudy Air Temp.: 44°

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: 0.30 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: 200mL/min Elapsed Time: 30 min Volume Pumped: 2 gal

Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____

PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

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

MATERIALS: Pump/Bailer: ☐ Teflon® ☒ Stainless Steel

Tubing/Rope: ☐ Teflon® ☒ Polyethylene

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

Metals samples field filtered? ☐ Yes ☒ No Method: _____

APPEARANCE: ☐ Clear ☐ Turbid ☒ Color: Yellow ☐ 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: 04/01/21

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:	04/01/21
Personnel:	AFV/PFP	Well ID:	MW-8D
Purge/Sample Depth:	~22'	Sample ID:	MW-8D-20210401

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1126	6.40	11.44	0.341	9.10	53.6	46	0.30	250	
1129	6.09	11.91	0.339	1.47	41.1	85	0.30		
1132	5.87	12.42	0.339	0.00	25.9	143	0.30		
1135	5.86	12.48	0.340	0.00	22.8	156	0.30		
1138	5.83	12.50	0.342	0.00	19.5	170	0.30		
1141	5.85	12.56	0.342	0.00	17.9	176	0.30		
1144	5.81	12.62	0.343	0.00	15.0	186	0.30		
1147	5.82	12.64	0.343	0.00	14.7	195	0.30		
1150	5.82	12.64	0.345	0.00	13.8	201	0.30		
1153	5.81	12.65	0.346	0.00	13.1	206	0.30		
1156	5.83	12.67	0.347	0.00	12.1	212	0.30		
1159	Collect MW-8D-20210401								

04/01/21

Certified Sample Information:
Time of Sample: 1159
Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X178456
Calibration Date/Time: 04/01/21
Serial No. Handheld: 20141K2PJP

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-20210401 (if different from well no.)

Project: Patchogue
Personnel: AFV/PFP

Date: 04/01/21 Time: 1126
Weather: Cloudy 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: 0.30 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: 04/01/21

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:	04/01/21
Personnel:	AFV/PFP	Well ID:	MW-12S
Purge/Sample Depth:	~10'	Sample ID:	MW-12S-20210401

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1258	6.51	11.14	0.260	8.74	23.7	175	1.40	200	
1301	6.73	11.58	0.268	5.72	10.2	153	1.40		
1304	6.80	11.75	0.280	5.59	6.7	146	1.40		
1307	6.83	11.84	0.287	5.37	6.9	141	1.40		
1310	6.85	11.93	0.299	5.28	7.3	137	1.40		
1313	6.83	12.01	0.301	5.29	8.4	135	1.40		
1316	6.82	12.07	0.303	5.33	9.6	133	1.40		
1319	6.87	12.17	0.305	5.10	8.5	134	1.40		
1322	6.89	12.18	0.305	4.99	7.5	134	1.40		
1325	6.84	12.20	0.307	4.46	7.6	135	1.40		
1328	6.89	12.20	0.309	4.56	5.9	134	1.40		
1331	Collect MW-12S-20210401								

04/01/21

Certified Sample Information:
Time of Sample: 1331 Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X17U356 Serial No. Handheld: MOWK2PJP
Calibration Date/Time: 04/01/21

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-12S
Sample I.D.: MW-12S-20210401 (if different from well no.)

Project: Patchogue
Personnel: AFV / PFP

Date: 04/01/21 Time: 12:58
Weather: Cloudy Air Temp.: ____

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: 1.34 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 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: 04/01/21

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: 04/01/21
Personnel: AFV/PFP
Well ID: MW-12D
Purge/Sample Depth: ~20'
Sample ID: MW-12D-20210401

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1336	5.88	12.50	0.406	6.01	8.1	199	1.28	250	
1339	5.50	13.05	0.419	0.16	3.3	250	1.28		
1342	5.44	13.10	0.415	0.00	3.4	262	1.28		
1345	5.44	13.13	0.414	0.00	2.5	269	1.28		
1348	5.43	13.15	0.412	0.00	1.9	276	1.28		
1351	5.43	13.19	0.410	0.00	1.6	285	1.28		
1354	5.47	13.22	0.410	0.00	1.2	291	1.28		
1357	5.46	13.25	0.409	0.00	1.0	293	1.28		
1400	5.48	13.28	0.408	0.00	0.7	298	1.28		
1403	5.43	13.30	0.408	0.00	0.6	298	1.28	V	
1406	5.44	13.29	0.409	0.00	0.5	301	1.28		
1409	Collect	MW-12D-20210401							

04/01/21

Certified Sample Information:
Time of Sample: 1409
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X17121456
Calibration Date/Time: 04/01/21
Serial No. Handheld: MOWK2PJP

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-20210401 (if different from well no.)

Project: Patchogue
Personnel: AFV/PFP

Date: 04/01/21 Time: 1336
Weather: Cloudy Air Temp.: 46°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: 1.21 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: 30min Volume Pumped: 2.5gal
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: 04/01/21

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

Project Name:	Patchogue	Project Number:	153021
Client:	BC	Date:	04/01/21
Personnel:	AFV/PFP	Well ID:	MW-11S
Purge/Sample Depth:	~ 10'	Sample ID:	MW-11S-20210401

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1425	6.53	11.31	0.279	3.09	275	1	0.80	200	Slight
1428	6.75	11.11	0.300	2.02	172	-31	0.80		
1431	6.81	11.01	0.339	0.68	138	-49	0.80		Odor
1434	6.83	11.01	0.344	0.19	140	-49	0.80		
1437	6.84	11.03	0.351	0.00	125	-54	0.80		
1440	6.85	11.04	0.358	0.00	104	-60	0.80		
1443	6.85	11.05	0.00 ← 0.361		96.9	-62	0.80		
1446	6.91	11.05	0.371	0.00	81.4	-65	0.80		
1449	6.90	11.07	0.374	0.00	79.6	-64	0.80		
1452	6.90	11.09	0.377	0.00	74.1	-64	0.80		
1455	6.91	11.15	0.385	0.00	64.5	-68	0.80		
1458	Collect MW-11S-20210401								

04/01/21

Certified Sample Information:
Time of Sample: 1458
Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X17121156
Calibration Date/Time: 04/01/21
Serial No. Handheld: MOW K2PJP

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.

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Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-11S
Sample I.D.: MW-11S-20210401 (if different from well no.)

Project: Patchogue
Personnel: AFV / PFP

Date: 04/01/21 Time: 1425
Weather: Cloudy Air Temp.: 48°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: 0.71 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 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: 04/01/21

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NJ FIELD LAB ID# 02023

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name: Patchogue
Client: BC
Personnel: AFV / PFP
Purge/Sample Depth: ~20'
Project Number: 153021
Date: 04/01/21
Well ID: MW-11D
Sample ID: MW-11D-20210401

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1505	6.62	12.58	0.206	2.83	69.6	30	0.85	250	
1508	6.54	12.65	0.222	1.00	46.2	45	0.85		
1511	6.60	12.75	0.237	0.27	19.6	55	0.85		
1514	6.62	12.79	0.252	0.11	10.7	55	0.85		
1517	6.60	12.84	0.262	0.00	9.5	50	0.85		
1520	6.64	12.87	0.267	0.00	8.7	41	0.85		
1523	6.68	12.86	0.273	0.00	6.7	33	0.85		
1526	6.63	12.87	0.276	0.00	6.1	28	0.85		
1529	6.65	12.85	0.279	0.00	5.7	24	0.85		
1532	6.69	12.85	0.283	0.00	4.8	21	0.85		
1535	6.67	12.88	0.285	0.00	4.6	17	0.85		
1538	MW-11D-20210401								

AFV 04/01/21

Certified Sample Information:
Time of Sample: 1538
Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X17 2456
Serial No. Handheld: MOWK2PJP
Calibration Date/Time: 04/01/21

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-11D
Sample I.D.: MW-11D-20210401 (if different from well no.)

Project: Patchogue
Personnel: AFV/PFP

Date: 04/01/21 Time: _____
Weather: Cloudy Air Temp.: _____

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: 0.72 ft Bottom of Well: _____ ft
DATUM: ☐ Top of Protective Casing ☒ Top of Well Casing ☐ Other:
CONDITION: Is Well clearly labeled? ☐ Yes ☒ No Is well clean to bottom? ☐ Yes ☐ No
Is Prot. Casing/Surface Mount in Good Cond.? (not bent or corroded) ☒ Yes ☐ No
Does Weep Hole adequately drain well head? ☒ Yes ☐ No
Is Concrete Pad Intact? (not cracked or frost heaved) ☒ Yes ☐ No
Is Padlock Functional? ☐ Yes ☐ No ☒ NA Is Inner Casing Intact? ☐ Yes ☐ No
Is Inner Casing Properly Capped and Vented? ☒ Yes ☐ No
VOLUME OF WATER: Standing in well: _____ To be purged: _____

PURGE DATA:

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

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

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

SAMPLING DATA:

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

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

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

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

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

Signature: _____ Date: 04/01/21

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NJ FIELD LAB ID# 02023

LOW-FLOW GROUNDWATER FIELD DATA SHEET

Project Name:	Patchogue	Project Number:	153021
Client:	BC	Date:	04/02/21
Personnel:	AFV/PFP	Well ID:	MW-45
Purge/Sample Depth:	~10'	Sample ID:	MW-45-20210402

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0908	6.97	6.65	0.446	3.01	0.0	-53	4.80	250	
0911	7.09	7.54	0.444	1.12	0.0	-68	4.80		
0914	7.13	8.02	0.444	0.67	826	-82	4.80		
0917	7.21	8.13	0.445	0.09	419	-98	4.80		
0920	7.28	8.11	0.445	0.00	230	-109	4.80		
0923	7.31	8.07	0.446	0.00	166	-115	4.80		
0926	7.31	8.07	0.447	0.00	139	-119	4.80		
0929	7.33	8.05	0.447	0.00	116	-122	4.80		
0932	7.32	8.08	0.447	0.00	112	-122	4.80		
0935	7.33	8.23	0.447	0.00	91.0	-125	4.80		
0938	7.43	8.26	0.447	0.00	86.5	-126	4.80		
0941	7.40	8.30	0.447	0.00	72.3	-126	4.80		
0944	Collect MW-45-20210402								

Certified Sample Information:

Time of Sample: 0944

Analyst Signature:

Instrument Data:

Manufacturer/Model: Horiba U-52

Serial No. Unit: X1712456

Calibration Date/Time: 04/02/21

Serial No. Handheld: MOWK28JP

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-45-20210402 (if different from well no.)

Project: Patchogue
Personnel: AFV/PFP

Date: 04/02/21 Time: 0908
Weather: Snow Air Temp.: 30°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: 4.75 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: 250 mL/min Elapsed Time: 33 min Volume Pumped: 2.5 g
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: 04/02/21

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

Project Name:	Patchogue	Project Number:	153021
Client:	BC	Date:	04/02/21
Personnel:	AFV/PFP	Well ID:	MW-4D
Purge/Sample Depth:	~20'	Sample ID:	MW-4D-20210402

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
0953	6.49	9.57	0.464	2.60	5.4	53	4.60	250	
0956	6.30	10.11	0.466	0.44	4.5	74	4.60		
0959	6.20	10.55	0.467	0.00	3.9	92	4.60		
1002	6.16	10.87	0.464	0.00	3.4	114	4.60		
1005	6.16	10.94	0.463	0.00	3.6	119	4.60		
1008	6.17	11.12	0.462	0.00	2.7	130	4.60		
1011	6.15	11.28	0.460	0.00	2.3	143	4.60		
1014	6.14	11.22	0.461	0.00	1.9	148	4.60		
1017	6.13	11.26	0.460	0.00	1.6	154	4.60		
1020	6.14	11.29	0.459	0.00	1.8	160	4.60		
1023	6.12	11.32	0.460	0.00	1.6	160	4.60	↓	
1026	Collect MW-4D-20210402								

04/02/21

Certified Sample Information:
Time of Sample: 1026

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X1712456
Calibration Date/Time: 04/02/21

Serial No. Handheld: MOW42PJP

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-20210402 (if different from well no.)

Project: Patchogue
Personnel: AFV / PFP

Date: 04/02/21 Time: 0953
Weather: Sunny Air Temp.: 34°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: 4.52 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 g
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: 04/02/21

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:	04/02/21
Personnel:	AFV / DFP	Well ID:	MW-3
Purge/Sample Depth:	~81'	Sample ID:	MW-3-20210402

Actual Time	Certified Parameters: pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
1034	9.69	8.94	0.385	5.11	5.6	-103		200	Moderate
1037	10.00	8.94	0.387	1.14	3.9	-127			Odor
1040	10.09	8.93	0.388	0.68	3.0	-136			
1043	10.20	8.97	0.390	0.00	3.2	-141			
1046	10.33	9.03	0.391	0.00	3.6	-159			
1049	10.37	9.07	0.392	0.00	4.2	-168			
1052	10.40	9.06	0.393	0.00	4.3	-172			
1055	10.43	9.04	0.395	0.00	4.4	-177			
1058	10.50	9.00	0.397	0.00	4.1	-187			
1101	10.59	8.98	0.403	0.00	3.6	-200			
1104	10.73	9.04	0.411	0.00	3.8	-214			
1107	Collect MW-3-20210402 + DUP-20210402								

04/02/21

Certified Sample Information:
Time of Sample: 1107 Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X1712456 Serial No. Handheld: MONK2PJP
Calibration Date/Time: 04/02/21

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-3
Sample I.D.: MW-3-20210402 (if different from well no.)

Project: Patchogue
Personnel: AFV/PFP

Date: 04/02/21 Time: 1034
Weather: Sunny Air Temp.: ____

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: ____ 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 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: Yellow/Amber ☐ Contains Immiscible Liquid
FIELD DETERMINATIONS: See attached form for field parameter data.

DUP: ☐ No ☒ Yes Name: DUP-20210402
MS/MSD: ☒ No ☐ Yes Name: ____

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

Signature: ____ Date: 04/02/21

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 / DFP
Purge/Sample Depth: ~10'

Project Number: 153021
Date: 04/02/21
Well ID: MW-13S
Sample ID: MW-13S-20210402

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1123	9.70	9.10	0.507	3.35	99.2	-217	1.22	200	Moderate
1126	9.76	9.40	0.508	0.00	108	-275	1.22		to Strong
1129	9.79	9.40	0.509	0.00	109	-294	1.22		
1132	9.84	9.45	0.510	0.00	110	-321	1.22		Odor
1135	9.87	9.50	0.512	0.00	113	-363	1.22		
1138	9.89	9.56	0.512	0.00	101	-375	1.22		
1141	9.89	9.71	0.512	0.00	104	-384	1.22		
1144	9.87	9.70	0.510	0.00	102	-388	1.22		
1147	9.86	9.82	0.510	0.00	99.6	-392	1.22		
1150	9.90	9.78	0.511	0.00	97.8	-396	1.22		
1153	9.88	9.76	0.509	0.00	93.4	-398	1.22		
1156	Collect MW-13S-20210402								

AFV
04/02/21

Certified Sample Information:
Time of Sample: 1156
Analyst Signature: AFV

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X17JA136
Calibration Date/Time: 04/02/21
Serial No. Handheld: MW K2 PJP

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-13S
Sample I.D.: MW-13S-20210402 (if different from well no.)

Project: Patchogue
Personnel: AFV / PFP

Date: 04/02/21 Time: 1123
Weather: Sunny Air Temp.: 35°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: 1.20 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: 200mL/min Elapsed Time: 30 min Volume Pumped: 2 gal
Was well Evacuated? ☐ Yes ☒ No Number of Well Volumes Removed: _____
PURGING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned

SAMPLING DATA:

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

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

SAMPLING EQUIPMENT: ☐ Dedicated ☐ Prepared Off-Site ☒ Field Cleaned
Metals samples field filtered? ☐ Yes ☒ No Method: _____
APPEARANCE: ☐ Clear ☐ Turbid ☒ Color: Yellow/Amber ☐ 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: 04/02/21

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:	04/02/21
Personnel:	AEV / PFP	Well ID:	MW-13D
Purge/Sample Depth:	~20'	Sample ID:	MW-13D-20210402

Actual Time	Certified Parameters					ORP (mV)	DTW (ft)	Pumping Rate (mL/min)	Comments
	pH	Temp (°C)	Cond (mS/cm)	DO (mg/L)	Turbidity (NTU)				
1202	7.50	11.39	0.305	4.62	115	-11	1.25	250	
1205	7.25	11.80	0.298	0.64	110	7	1.25		
1208	7.11	11.98	0.297	0.31	89.3	21	1.25		
1211	6.98	12.24	0.296	0.04	68.9	37	1.25		
1214	6.84	12.26	0.296	0.00	54.7	49	1.25		
1217	6.75	12.28	0.296	0.00	48.1	65	1.25		
1220	6.61	12.26	0.296	0.00	36.1	84	1.25		
1223	6.59	12.38	0.295	0.00	33.3	91	1.26		
1226	6.54	12.39	0.294	0.00	29.2	97	1.26		
1229	6.54	12.35	0.294	0.00	25.9	101	1.26		
1232	6.56	12.37	0.294	0.00	24.3	102	1.26		
1235	MW-13D-20210402 Collected								

04/02/21

Certified Sample Information:
Time of Sample: 1235

Analyst Signature:

Instrument Data:
Manufacturer/Model: Horiba U-52
Serial No. Unit: X17121SG
Calibration Date/Time: 04/02/21

Serial No. Handheld: MOWK2 PJP

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

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

Brown AND Caldwell

Upper Saddle River, NJ Office

LOW-FLOW GROUNDWATER SAMPLING FIELD DATA

Well Number: MW-13D
Sample I.D.: MW-13D-20210402 (if different from well no.)

Project: Patchogue
Personnel: AFV / PFP

Date: 04/02/21 Time: 1202
Weather: Sunny Air Temp.: 38°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: 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: 250mL/min Elapsed Time: 30min Volume Pumped: 2.5gal
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: 04/02/21

Appendix B: Laboratory Reports

ANALYTICAL REPORT

Job Number: 410-34553-1

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
4/12/2021 4:33 PM

Barbara A Weyandt, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7264
Barbara.Weyandt@eurofinset.com
04/12/2021

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: 410-34553-1

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
410-34553-1

Receipt
The samples were received on 4/2/2021 7:16 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.6º C, 1.4º C, 2.0º C and 2.2º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-13D-20210402 (410-34553-19). The container labels list 12:35, while the COC does not list a time. The collection time was entered per the sample container.

The container count for the following sample did not match the information listed on the Chain-of-Custody (COC): Trip-Blank (410-34553-21). The laboratory received 4 containers, while the COC lists 2 containers.

GC/MS VOA
Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-13S-20210402 (410-34553-18). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
Method 8270D SIM: A surrogate recovery for the method blank associated with preparation batch 410-111583 was outside the control limits. There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

Sample Summary

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

Job ID: 410-34553-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-34553-1	MW-1-20210331	Groundwater	03/31/21 10:45	04/02/21 19:16	
410-34553-2	MW-10S-20210331	Groundwater	03/31/21 11:38	04/02/21 19:16	
410-34553-3	MW-10D-20210331	Groundwater	03/31/21 12:25	04/02/21 19:16	
410-34553-4	MW-7S-20210331	Groundwater	03/31/21 14:45	04/02/21 19:16	
410-34553-5	MW-7D-20210331	Groundwater	03/31/21 15:38	04/02/21 19:16	
410-34553-6	MW-14S-20210331	Groundwater	03/31/21 16:30	04/02/21 19:16	
410-34553-7	MW-14D-20210331	Groundwater	03/31/21 17:43	04/02/21 19:16	
410-34553-8	MW-8S-20210401	Groundwater	04/01/21 11:20	04/02/21 19:16	
410-34553-9	MW-8D-20210401	Groundwater	04/01/21 11:59	04/02/21 19:16	
410-34553-10	MW-12S-20210401	Groundwater	04/01/21 13:31	04/02/21 19:16	
410-34553-11	MW-12D-20210401	Groundwater	04/01/21 14:09	04/02/21 19:16	
410-34553-12	MW-11S-20210401	Groundwater	04/01/21 14:58	04/02/21 19:16	
410-34553-13	MW-11D-20210401	Groundwater	04/01/21 15:38	04/02/21 19:16	
410-34553-14	MW-4S-20210402	Groundwater	04/02/21 09:44	04/02/21 19:16	
410-34553-15	MW-4D-20210402	Groundwater	04/02/21 10:26	04/02/21 19:16	
410-34553-16	MW-3-20210402	Groundwater	04/02/21 11:07	04/02/21 19:16	
410-34553-17	FB-20210402	Water	04/02/21 11:40	04/02/21 19:16	
410-34553-18	MW-13S-20210402	Groundwater	04/02/21 11:56	04/02/21 19:16	
410-34553-19	MW-13D-20210402	Groundwater	04/02/21 12:35	04/02/21 19:16	
410-34553-20	DUP-20210402	Groundwater	04/02/21 00:00	04/02/21 19:16	
410-34553-21	Trip-Blank	Water	03/31/21 00:00	04/02/21 19:16	

Detection Summary

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

Job ID: 410-34553-1

Client Sample ID: MW-1-20210331 — Lab Sample ID: 410-34553-1

No Detections.

Client Sample ID: MW-10S-20210331 — Lab Sample ID: 410-34553-2

No Detections.

Client Sample ID: MW-10D-20210331 — Lab Sample ID: 410-34553-3

No Detections.

Client Sample ID: MW-7S-20210331 — Lab Sample ID: 410-34553-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.31	J	1.0	0.20	ug/L	1		8260C	Total/NA
Acenaphthene	0.095		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.026	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.026	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.11		0.070	0.030	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-7D-20210331 — Lab Sample ID: 410-34553-5

No Detections.

Client Sample ID: MW-14S-20210331 — Lab Sample ID: 410-34553-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.84		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthylene	0.022	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.016	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	0.030	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	0.065	J	0.070	0.030	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.063	J	0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	0.010	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-14D-20210331 — Lab Sample ID: 410-34553-7

No Detections.

Client Sample ID: MW-8S-20210401 — Lab Sample ID: 410-34553-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tertiary butyl ether	0.21	J	1.0	0.20	ug/L	1		8260C	Total/NA
Acenaphthene	0.11		0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-8D-20210401 — Lab Sample ID: 410-34553-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.043	J	0.070	0.030	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-12S-20210401 — Lab Sample ID: 410-34553-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	0.012	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: MW-12D-20210401 — Lab Sample ID: 410-34553-11

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-34553-1

Client Sample ID: MW-11S-20210401 — Lab Sample ID: 410-34553-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		1.0	0.20	ug/L	1		8260C	Total/NA
Acenaphthylene	0.61		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	3.0		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.16		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.033	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.031	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.015	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.12		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	2.9		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	7.3		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Naphthalene	4.4		0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	2.3		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	41		0.50	0.10	ug/L	10		8270D SIM	Total/NA
Phenanthrene - DL	16		0.70	0.30	ug/L	10		8270D SIM	Total/NA

Client Sample ID: MW-11D-20210401 — Lab Sample ID: 410-34553-13

No Detections.

Client Sample ID: MW-4S-20210402 — Lab Sample ID: 410-34553-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.56	J	1.0	0.20	ug/L	1		8260C	Total/NA
Acenaphthylene	0.61		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.21		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	2.0		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	4.3		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	0.073		0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	2.0		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	15		0.25	0.050	ug/L	5		8270D SIM	Total/NA

Client Sample ID: MW-4D-20210402 — Lab Sample ID: 410-34553-15

No Detections.

Client Sample ID: MW-3-20210402 — Lab Sample ID: 410-34553-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.74	J	1.0	0.20	ug/L	1		8260C	Total/NA
Ethylbenzene	3.7		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.82	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	4.9	J	6.0	1.4	ug/L	1		8260C	Total/NA
Acenaphthylene	4.1		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.80		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.81		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.014	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.48		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	5.0		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	4.7		0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	9.1		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	27		0.50	0.10	ug/L	10		8270D SIM	Total/NA
Fluoranthene - DL	9.2		0.50	0.10	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL	80		0.70	0.30	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: 410-34553-1

Client Sample ID: FB-20210402 — Lab Sample ID: 410-34553-17

No Detections.

Client Sample ID: MW-13S-20210402 — Lab Sample ID: 410-34553-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.4	J	5.0	1.0	ug/L	5		8260C	Total/NA
Ethylbenzene	2.6	J	5.0	2.0	ug/L	5		8260C	Total/NA
Acenaphthylene	1.3		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	6.8		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	1.3		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]pyrene	0.087		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.084		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[k]fluoranthene	0.034	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.91		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluoranthene	7.8		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	8.4		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	6.2		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	35		0.50	0.10	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL	80		0.70	0.30	ug/L	10		8270D SIM	Total/NA
Phenanthrene - DL	39		0.70	0.30	ug/L	10		8270D SIM	Total/NA

Client Sample ID: MW-13D-20210402 — Lab Sample ID: 410-34553-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.019	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Pyrene	0.018	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA

Client Sample ID: DUP-20210402 — Lab Sample ID: 410-34553-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.73	J	1.0	0.20	ug/L	1		8260C	Total/NA
Ethylbenzene	3.6		1.0	0.40	ug/L	1		8260C	Total/NA
Toluene	0.79	J	1.0	0.20	ug/L	1		8260C	Total/NA
Xylenes, Total	4.9	J	6.0	1.4	ug/L	1		8260C	Total/NA
Acenaphthylene	4.2		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Anthracene	0.95		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[a]anthracene	0.88		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Benzo[b]fluoranthene	0.012	J	0.050	0.010	ug/L	1		8270D SIM	Total/NA
Chrysene	0.48		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Fluorene	5.1		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Phenanthrene	5.8		0.070	0.030	ug/L	1		8270D SIM	Total/NA
Pyrene	9.2		0.050	0.010	ug/L	1		8270D SIM	Total/NA
Acenaphthene - DL	27		0.50	0.10	ug/L	10		8270D SIM	Total/NA
Fluoranthene - DL	8.7		0.50	0.10	ug/L	10		8270D SIM	Total/NA
Naphthalene - DL2	110		1.4	0.60	ug/L	20		8270D SIM	Total/NA

Client Sample ID: Trip-Blank — Lab Sample ID: 410-34553-21

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 410-34553-1

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-1-20210331

Lab Sample ID: 410-34553-1

Date Collected: 03/31/21 10:45

Matrix: Groundwater

Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 15:11	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 15:11	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 15:11	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 15:11	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*04/07/21 15:11*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 15:11*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*04/07/21 15:11*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 15:11*	*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		04/07/21 10:10	04/08/21 01:07	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 01:07	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 01:07	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 01:07	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 01:07	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*59*		*10 - 122*	*04/07/21 10:10*	*04/08/21 01:07*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*49 - 115*	*04/07/21 10:10*	*04/08/21 01:07*	*1*
Fluoranthene-d10 (Surr)	*90*		*65 - 129*	*04/07/21 10:10*	*04/08/21 01:07*	*1*

Client Sample ID: MW-10S-20210331

Lab Sample ID: 410-34553-2

Date Collected: 03/31/21 11:38

Matrix: Groundwater

Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 15:33	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 15:33	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 15:33	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 15:33	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 15:33*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 15:33*	*1*

Client Sample ID: MW-10S-20210331

Date Collected: 03/31/21 11:38
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-2

Matrix: Groundwater

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*04/07/21 15:33*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/21 15:33*	*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		04/07/21 10:10	04/08/21 01:38	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 01:38	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 01:38	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 01:38	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 01:38	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 122*	*04/07/21 10:10*	*04/08/21 01:38*	*1*
1-Methylnaphthalene-d10 (Surr)	*77*		*49 - 115*	*04/07/21 10:10*	*04/08/21 01:38*	*1*
Fluoranthene-d10 (Surr)	*100*		*65 - 129*	*04/07/21 10:10*	*04/08/21 01:38*	*1*

Client Sample ID: MW-10D-20210331

Date Collected: 03/31/21 12:25
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-3

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 15:55	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 15:55	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 15:55	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 15:55	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 15:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/07/21 15:55*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*04/07/21 15:55*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/21 15:55*	*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		04/07/21 10:10	04/08/21 02:08	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1

Client Sample ID: MW-10D-20210331

Date Collected: 03/31/21 12:25
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-3
Matrix: Groundwater

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		04/07/21 10:10	04/08/21 02:08	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 02:08	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 02:08	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 02:08	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 02:08	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*70*		*10 - 122*	*04/07/21 10:10*	*04/08/21 02:08*	*1*
1-Methylnaphthalene-d10 (Surr)	*76*		*49 - 115*	*04/07/21 10:10*	*04/08/21 02:08*	*1*
Fluoranthene-d10 (Surr)	*100*		*65 - 129*	*04/07/21 10:10*	*04/08/21 02:08*	*1*

Client Sample ID: MW-7S-20210331

Date Collected: 03/31/21 14:45
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-4
Matrix: Groundwater

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	0.20	ug/L			04/07/21 14:05	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 14:05	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 14:05	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 14:05	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 14:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 14:05*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*04/07/21 14:05*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/21 14:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.095**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Anthracene	**0.026**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 02:39	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1
Fluorene	**0.026**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1

Client Sample ID: MW-7S-20210331

Date Collected: 03/31/21 14:45
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-4

Matrix: Groundwater

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		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 02:39	1
Naphthalene	**0.11**		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 02:39	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 02:39	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*74*		*10 - 122*	*04/07/21 10:10*	*04/08/21 02:39*	*1*
1-Methylnaphthalene-d10 (Surr)	*71*		*49 - 115*	*04/07/21 10:10*	*04/08/21 02:39*	*1*
Fluoranthene-d10 (Surr)	*92*		*65 - 129*	*04/07/21 10:10*	*04/08/21 02:39*	*1*

Client Sample ID: MW-7D-20210331

Date Collected: 03/31/21 15:38
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-5

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 16:17	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 16:17	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 16:17	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 16:17	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 16:17*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 16:17*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*04/07/21 16:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/21 16:17*	*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		04/07/21 10:10	04/08/21 04:10	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 04:10	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 04:10	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 04:10	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 04:10	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*57*		*10 - 122*	*04/07/21 10:10*	*04/08/21 04:10*	*1*
1-Methylnaphthalene-d10 (Surr)	*62*		*49 - 115*	*04/07/21 10:10*	*04/08/21 04:10*	*1*
Fluoranthene-d10 (Surr)	*81*		*65 - 129*	*04/07/21 10:10*	*04/08/21 04:10*	*1*

Client Sample ID: MW-14S-20210331

Lab Sample ID: 410-34553-6

Date Collected: 03/31/21 16:30
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 16:39	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 16:39	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 16:39	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 16:39	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 16:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 16:39*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*04/07/21 16:39*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 16:39*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.84**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Acenaphthylene	**0.022**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Anthracene	**0.016**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 04:40	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Fluorene	**0.030**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 04:40	1
Naphthalene	**0.065**	**J**	0.070	0.030	ug/L		04/07/21 10:10	04/08/21 04:40	1
Phenanthrene	**0.063**	**J**	0.070	0.030	ug/L		04/07/21 10:10	04/08/21 04:40	1
Pyrene	**0.010**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*77*		*10 - 122*	*04/07/21 10:10*	*04/08/21 04:40*	*1*
1-Methylnaphthalene-d10 (Surr)	*75*		*49 - 115*	*04/07/21 10:10*	*04/08/21 04:40*	*1*
Fluoranthene-d10 (Surr)	*90*		*65 - 129*	*04/07/21 10:10*	*04/08/21 04:40*	*1*

Client Sample ID: MW-14D-20210331

Lab Sample ID: 410-34553-7

Date Collected: 03/31/21 17:43
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 17:01	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 17:01	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 17:01	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 17:01	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 17:01*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*04/07/21 17:01*	*1*

Client Sample ID: MW-14D-20210331

Date Collected: 03/31/21 17:43
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-7

Matrix: Groundwater

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*04/07/21 17:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 17:01*	*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		04/07/21 10:10	04/08/21 05:11	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 05:11	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 05:11	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 05:11	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 05:11	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*47*		*10 - 122*	*04/07/21 10:10*	*04/08/21 05:11*	*1*
1-Methylnaphthalene-d10 (Surr)	*68*		*49 - 115*	*04/07/21 10:10*	*04/08/21 05:11*	*1*
Fluoranthene-d10 (Surr)	*91*		*65 - 129*	*04/07/21 10:10*	*04/08/21 05:11*	*1*

Client Sample ID: MW-8S-20210401

Date Collected: 04/01/21 11:20
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-8

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 17:23	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 17:23	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 17:23	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 17:23	1
Methyl tertiary butyl ether	**0.21**	**J**	1.0	0.20	ug/L			04/07/21 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 17:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 17:23*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*04/07/21 17:23*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 17:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.11**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1

Client Sample ID: MW-8S-20210401

Date Collected: 04/01/21 11:20
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-8

Matrix: Groundwater

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		04/07/21 10:10	04/08/21 05:41	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 05:41	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 05:41	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 05:41	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 05:41	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 05:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*71*		*10 - 122*	*04/07/21 10:10*	*04/08/21 05:41*	*1*
1-Methylnaphthalene-d10 (Surr)	*68*		*49 - 115*	*04/07/21 10:10*	*04/08/21 05:41*	*1*
Fluoranthene-d10 (Surr)	*81*		*65 - 129*	*04/07/21 10:10*	*04/08/21 05:41*	*1*

Client Sample ID: MW-8D-20210401

Date Collected: 04/01/21 11:59
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-9

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 18:08	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 18:08	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 18:08	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 18:08	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*04/07/21 18:08*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 18:08*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 120*		*04/07/21 18:08*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 18:08*	*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		04/07/21 10:10	04/08/21 10:54	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 10:54	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1

Client Sample ID: MW-8D-20210401

Lab Sample ID: 410-34553-9

Date Collected: 04/01/21 11:59
Matrix: Groundwater
Date Received: 04/02/21 19:16

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		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 10:54	1
Naphthalene	**0.043**	**J**	0.070	0.030	ug/L		04/07/21 10:10	04/08/21 10:54	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 10:54	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*54*		*10 - 122*	*04/07/21 10:10*	*04/08/21 10:54*	*1*
1-Methylnaphthalene-d10 (Surr)	*53*		*49 - 115*	*04/07/21 10:10*	*04/08/21 10:54*	*1*
Fluoranthene-d10 (Surr)	*66*		*65 - 129*	*04/07/21 10:10*	*04/08/21 10:54*	*1*

Client Sample ID: MW-12S-20210401

Lab Sample ID: 410-34553-10

Date Collected: 04/01/21 13:31
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 18:30	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 18:30	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 18:30	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 18:30	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 18:30*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 18:30*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*04/07/21 18:30*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/07/21 18:30*	*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		04/07/21 10:10	04/08/21 11:55	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 11:55	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 11:55	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 11:55	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 11:55	1
Pyrene	**0.012**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*54*		*10 - 122*	*04/07/21 10:10*	*04/08/21 11:55*	*1*
1-Methylnaphthalene-d10 (Surr)	*70*		*49 - 115*	*04/07/21 10:10*	*04/08/21 11:55*	*1*
Fluoranthene-d10 (Surr)	*92*		*65 - 129*	*04/07/21 10:10*	*04/08/21 11:55*	*1*

Client Sample ID: MW-12D-20210401

Lab Sample ID: 410-34553-11

Date Collected: 04/01/21 14:09

Matrix: Groundwater

Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 18:52	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 18:52	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 18:52	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 18:52	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 18:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*04/07/21 18:52*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*04/07/21 18:52*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/07/21 18:52*	*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		04/07/21 10:10	04/08/21 13:26	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 13:26	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 13:26	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 13:26	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 13:26	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*46*		*10 - 122*	*04/07/21 10:10*	*04/08/21 13:26*	*1*
1-Methylnaphthalene-d10 (Surr)	*63*		*49 - 115*	*04/07/21 10:10*	*04/08/21 13:26*	*1*
Fluoranthene-d10 (Surr)	*93*		*65 - 129*	*04/07/21 10:10*	*04/08/21 13:26*	*1*

Client Sample ID: MW-11S-20210401

Lab Sample ID: 410-34553-12

Date Collected: 04/01/21 14:58

Matrix: Groundwater

Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**		1.0	0.20	ug/L			04/07/21 19:14	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 19:14	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 19:14	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 19:14	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 19:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*04/07/21 19:14*	*1*

Client Sample ID: MW-11S-20210401

Lab Sample ID: 410-34553-12

Date Collected: 04/01/21 14:58
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*04/07/21 19:14*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/07/21 19:14*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.61**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Anthracene	**3.0**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Benzo[a]anthracene	**0.16**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Benzo[a]pyrene	**0.033**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Benzo[b]fluoranthene	**0.031**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Benzo[k]fluoranthene	**0.015**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Chrysene	**0.12**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 13:57	1
Fluoranthene	**2.9**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Fluorene	**7.3**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 13:57	1
Naphthalene	**4.4**		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 13:57	1
Pyrene	**2.3**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*86*		*10 - 122*	*04/07/21 10:10*	*04/08/21 13:57*	*1*
1-Methylnaphthalene-d10 (Surr)	*73*		*49 - 115*	*04/07/21 10:10*	*04/08/21 13:57*	*1*
Fluoranthene-d10 (Surr)	*106*		*65 - 129*	*04/07/21 10:10*	*04/08/21 13:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**41**		0.50	0.10	ug/L		04/07/21 10:10	04/08/21 22:50	10
Phenanthrene	**16**		0.70	0.30	ug/L		04/07/21 10:10	04/08/21 22:50	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*81*		*10 - 122*	*04/07/21 10:10*	*04/08/21 22:50*	*10*
1-Methylnaphthalene-d10 (Surr)	*73*		*49 - 115*	*04/07/21 10:10*	*04/08/21 22:50*	*10*
Fluoranthene-d10 (Surr)	*92*		*65 - 129*	*04/07/21 10:10*	*04/08/21 22:50*	*10*

Client Sample ID: MW-11D-20210401

Lab Sample ID: 410-34553-13

Date Collected: 04/01/21 15:38
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 19:36	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 19:36	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 19:36	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 19:36	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/07/21 19:36*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 19:36*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*04/07/21 19:36*	*1*

Client Sample ID: MW-11D-20210401

Lab Sample ID: 410-34553-13

Date Collected: 04/01/21 15:38
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 19:36*	*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		04/07/21 10:10	04/08/21 14:27	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 14:27	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 14:27	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 14:27	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 14:27	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	*28*		*10 - 122*	*04/07/21 10:10*	*04/08/21 14:27*	*1*
1-Methylnaphthalene-d10 (Surr)	*52*		*49 - 115*	*04/07/21 10:10*	*04/08/21 14:27*	*1*
Fluoranthene-d10 (Surr)	*74*		*65 - 129*	*04/07/21 10:10*	*04/08/21 14:27*	*1*

Client Sample ID: MW-4S-20210402

Lab Sample ID: 410-34553-14

Date Collected: 04/02/21 09:44
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.56**	**J**	1.0	0.20	ug/L			04/07/21 19:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 19:58	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 19:58	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 19:58	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 19:58*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/07/21 19:58*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*04/07/21 19:58*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 19:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**0.61**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Anthracene	**0.21**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1

Client Sample ID: MW-4S-20210402

Date Collected: 04/02/21 09:44
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-14

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 14:58	1
Fluoranthene	**2.0**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Fluorene	**4.3**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 14:58	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 14:58	1
Phenanthrene	**0.073**		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 14:58	1
Pyrene	**2.0**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*45*		*10 - 122*	*04/07/21 10:10*	*04/08/21 14:58*	*1*
1-Methylnaphthalene-d10 (Surr)	*41*	*S1-*	*49 - 115*	*04/07/21 10:10*	*04/08/21 14:58*	*1*
Fluoranthene-d10 (Surr)	*56*	*S1-*	*65 - 129*	*04/07/21 10:10*	*04/08/21 14:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**15**		0.25	0.050	ug/L		04/07/21 10:10	04/08/21 23:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*40*		*10 - 122*	*04/07/21 10:10*	*04/08/21 23:20*	*5*
1-Methylnaphthalene-d10 (Surr)	*39*	*S1-*	*49 - 115*	*04/07/21 10:10*	*04/08/21 23:20*	*5*
Fluoranthene-d10 (Surr)	*54*	*S1-*	*65 - 129*	*04/07/21 10:10*	*04/08/21 23:20*	*5*

Client Sample ID: MW-4D-20210402

Date Collected: 04/02/21 10:26
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-15

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 20:20	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 20:20	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 20:20	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 20:20	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 20:20*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 20:20*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*04/07/21 20:20*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/07/21 20:20*	*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		04/07/21 10:10	04/08/21 15:28	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1

Client Sample ID: MW-4D-20210402

Date Collected: 04/02/21 10:26
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-15
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 15:28	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 15:28	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 15:28	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 15:28	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*51*		*10 - 122*	*04/07/21 10:10*	*04/08/21 15:28*	*1*
1-Methylnaphthalene-d10 (Surr)	*65*		*49 - 115*	*04/07/21 10:10*	*04/08/21 15:28*	*1*
Fluoranthene-d10 (Surr)	*85*		*65 - 129*	*04/07/21 10:10*	*04/08/21 15:28*	*1*

Client Sample ID: MW-3-20210402

Date Collected: 04/02/21 11:07
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-16
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.74**	**J**	1.0	0.20	ug/L			04/07/21 20:42	1
Ethylbenzene	**3.7**		1.0	0.40	ug/L			04/07/21 20:42	1
Toluene	**0.82**	**J**	1.0	0.20	ug/L			04/07/21 20:42	1
Xylenes, Total	**4.9**	**J**	6.0	1.4	ug/L			04/07/21 20:42	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 20:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*04/07/21 20:42*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*04/07/21 20:42*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*04/07/21 20:42*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**4.1**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Anthracene	**0.80**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Benzo[a]anthracene	**0.81**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Benzo[b]fluoranthene	**0.014**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Chrysene	**0.48**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 15:59	1
Fluorene	**5.0**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 15:59	1
Phenanthrene	**4.7**		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 15:59	1
Pyrene	**9.1**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 15:59	1

Client Sample ID: MW-3-20210402

Lab Sample ID: 410-34553-16

Date Collected: 04/02/21 11:07

Matrix: Groundwater

Date Received: 04/02/21 19:16

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*68*		*10 - 122*	*04/07/21 10:10*	*04/08/21 15:59*	*1*
1-Methylnaphthalene-d10 (Surr)	*51*		*49 - 115*	*04/07/21 10:10*	*04/08/21 15:59*	*1*
Fluoranthene-d10 (Surr)	*95*		*65 - 129*	*04/07/21 10:10*	*04/08/21 15:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**27**		0.50	0.10	ug/L		04/07/21 10:10	04/08/21 23:51	10
Fluoranthene	**9.2**		0.50	0.10	ug/L		04/07/21 10:10	04/08/21 23:51	10
Naphthalene	**80**	J	0.70	0.30	ug/L		04/07/21 10:10	04/08/21 23:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*73*		*10 - 122*	*04/07/21 10:10*	*04/08/21 23:51*	*10*
1-Methylnaphthalene-d10 (Surr)	*58*		*49 - 115*	*04/07/21 10:10*	*04/08/21 23:51*	*10*
Fluoranthene-d10 (Surr)	*85*		*65 - 129*	*04/07/21 10:10*	*04/08/21 23:51*	*10*

Client Sample ID: FB-20210402

Lab Sample ID: 410-34553-17

Date Collected: 04/02/21 11:40

Matrix: Water

Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 13:21	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 13:21	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 13:21	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 13:21	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 13:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 13:21*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*04/07/21 13:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/21 13:21*	*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		04/07/21 10:10	04/08/21 16:29	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 16:29	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 16:29	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 16:29	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 16:29	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 16:29	1

Client Sample ID: FB-20210402

Lab Sample ID: 410-34553-17

Date Collected: 04/02/21 11:40
Matrix: Water
Date Received: 04/02/21 19:16

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*70*		*10 - 122*	*04/07/21 10:10*	*04/08/21 16:29*	*1*
1-Methylnaphthalene-d10 (Surr)	*69*		*49 - 115*	*04/07/21 10:10*	*04/08/21 16:29*	*1*
Fluoranthene-d10 (Surr)	*91*		*65 - 129*	*04/07/21 10:10*	*04/08/21 16:29*	*1*

Client Sample ID: MW-13S-20210402

Lab Sample ID: 410-34553-18

Date Collected: 04/02/21 11:56
Matrix: Groundwater
Date Received: 04/02/21 19:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.4**	**J**	5.0	1.0	ug/L			04/07/21 21:04	5
Ethylbenzene	**2.6**	**J**	5.0	2.0	ug/L			04/07/21 21:04	5
Toluene	ND		5.0	1.0	ug/L			04/07/21 21:04	5
Xylenes, Total	ND		30	7.0	ug/L			04/07/21 21:04	5
Methyl tertiary butyl ether	ND		5.0	1.0	ug/L			04/07/21 21:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*04/07/21 21:04*	*5*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*04/07/21 21:04*	*5*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*04/07/21 21:04*	*5*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/21 21:04*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**1.3**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Anthracene	**6.8**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Benzo[a]anthracene	**1.3**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Benzo[a]pyrene	**0.087**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Benzo[b]fluoranthene	**0.084**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Benzo[k]fluoranthene	**0.034**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Chrysene	**0.91**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 17:00	1
Fluoranthene	**7.8**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Fluorene	**8.4**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 17:00	1
Pyrene	**6.2**		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*66*		*10 - 122*	*04/07/21 10:10*	*04/08/21 17:00*	*1*
1-Methylnaphthalene-d10 (Surr)	*58*		*49 - 115*	*04/07/21 10:10*	*04/08/21 17:00*	*1*
Fluoranthene-d10 (Surr)	*98*		*65 - 129*	*04/07/21 10:10*	*04/08/21 17:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**35**		0.50	0.10	ug/L		04/07/21 10:10	04/09/21 00:51	10
Naphthalene	**80**		0.70	0.30	ug/L		04/07/21 10:10	04/09/21 00:51	10
Phenanthrene	**39**		0.70	0.30	ug/L		04/07/21 10:10	04/09/21 00:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*76*		*10 - 122*	*04/07/21 10:10*	*04/09/21 00:51*	*10*
1-Methylnaphthalene-d10 (Surr)	*63*		*49 - 115*	*04/07/21 10:10*	*04/09/21 00:51*	*10*

Client Sample ID: MW-13S-20210402

Date Collected: 04/02/21 11:56
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-18
Matrix: Groundwater

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Fluoranthene-d10 (Surr)	*87*		*65 - 129*	*04/07/21 10:10*	*04/09/21 00:51*	*10*

Client Sample ID: MW-13D-20210402

Date Collected: 04/02/21 12:35
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-19
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			04/07/21 21:27	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 21:27	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 21:27	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 21:27	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 21:27*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*04/07/21 21:27*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*04/07/21 21:27*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 21:27*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 17:30	1
Fluoranthene	**0.019**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/08/21 17:30	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 17:30	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/08/21 17:30	1
Pyrene	**0.018**	**J**	0.050	0.010	ug/L		04/07/21 10:10	04/08/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*65*		*10 - 122*	*04/07/21 10:10*	*04/08/21 17:30*	*1*
1-Methylnaphthalene-d10 (Surr)	*60*		*49 - 115*	*04/07/21 10:10*	*04/08/21 17:30*	*1*
Fluoranthene-d10 (Surr)	*88*		*65 - 129*	*04/07/21 10:10*	*04/08/21 17:30*	*1*

Client Sample ID: DUP-20210402

Date Collected: 04/02/21 00:00
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-20
Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.73**	**J**	1.0	0.20	ug/L			04/07/21 21:49	1

Client Sample ID: DUP-20210402

Date Collected: 04/02/21 00:00
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-20

Matrix: Groundwater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**3.6**		1.0	0.40	ug/L			04/07/21 21:49	1
Toluene	**0.79**	**J**	1.0	0.20	ug/L			04/07/21 21:49	1
Xylenes, Total	**4.9**	**J**	6.0	1.4	ug/L			04/07/21 21:49	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*04/07/21 21:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*04/07/21 21:49*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 120*		*04/07/21 21:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 21:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	**4.2**		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Anthracene	**0.95**		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Benzo[a]anthracene	**0.88**		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Benzo[b]fluoranthene	**0.012**	**J**	0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Chrysene	**0.48**		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 17:45	04/09/21 03:23	1
Fluorene	**5.1**		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 17:45	04/09/21 03:23	1
Phenanthrene	**5.8**		0.070	0.030	ug/L		04/07/21 17:45	04/09/21 03:23	1
Pyrene	**9.2**		0.050	0.010	ug/L		04/07/21 17:45	04/09/21 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 122*	*04/07/21 17:45*	*04/09/21 03:23*	*1*
1-Methylnaphthalene-d10 (Surr)	*68*		*49 - 115*	*04/07/21 17:45*	*04/09/21 03:23*	*1*
Fluoranthene-d10 (Surr)	*110*		*65 - 129*	*04/07/21 17:45*	*04/09/21 03:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**27**		0.50	0.10	ug/L		04/07/21 17:45	04/09/21 04:10	10
Fluoranthene	**8.7**		0.50	0.10	ug/L		04/07/21 17:45	04/09/21 04:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*100*		*10 - 122*	*04/07/21 17:45*	*04/09/21 04:10*	*10*
1-Methylnaphthalene-d10 (Surr)	*94*		*49 - 115*	*04/07/21 17:45*	*04/09/21 04:10*	*10*
Fluoranthene-d10 (Surr)	*88*		*65 - 129*	*04/07/21 17:45*	*04/09/21 04:10*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**110**	J	1.4	0.60	ug/L		04/07/21 17:45	04/09/21 04:51	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*116*		*10 - 122*	*04/07/21 17:45*	*04/09/21 04:51*	*20*
1-Methylnaphthalene-d10 (Surr)	*89*		*49 - 115*	*04/07/21 17:45*	*04/09/21 04:51*	*20*
Fluoranthene-d10 (Surr)	*94*		*65 - 129*	*04/07/21 17:45*	*04/09/21 04:51*	*20*

Client Sample ID: Trip-Blank

Date Collected: 03/31/21 00:00
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-21

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	0.20	ug/L			04/07/21 13:43	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 13:43	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 13:43	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 13:43	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/07/21 13:43*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 13:43*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*04/07/21 13:43*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/07/21 13:43*	*1*

Surrogate Summary

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

Job ID: 410-34553-1

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

Matrix: Groundwater **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)
410-34553-1	MW-1-20210331	106	95	108	96
410-34553-2	MW-10S-20210331	104	95	110	97
410-34553-3	MW-10D-20210331	105	94	110	97
410-34553-4	MW-7S-20210331	104	95	111	97
410-34553-4 MS	MW-7S-20210331	103	100	107	98
410-34553-4 MSD	MW-7S-20210331	103	101	106	99
410-34553-5	MW-7D-20210331	105	95	111	97
410-34553-6	MW-14S-20210331	105	95	110	96
410-34553-7	MW-14D-20210331	104	93	110	96
410-34553-8	MW-8S-20210401	105	95	111	96
410-34553-9	MW-8D-20210401	107	95	113	96
410-34553-10	MW-12S-20210401	105	95	114	95
410-34553-11	MW-12D-20210401	105	94	114	95
410-34553-12	MW-11S-20210401	105	97	115	95
410-34553-13	MW-11D-20210401	103	95	114	96
410-34553-14	MW-4S-20210402	104	96	115	96
410-34553-15	MW-4D-20210402	104	95	115	95
410-34553-16	MW-3-20210402	104	100	114	95
410-34553-18	MW-13S-20210402	104	98	114	97
410-34553-19	MW-13D-20210402	105	96	115	96
410-34553-20	DUP-20210402	105	100	115	96

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)
410-34553-17	FB-20210402	104	95	111	97
410-34553-21	Trip-Blank	103	95	110	96
LCS 410-111709/5	Lab Control Sample	102	101	106	99
MB 410-111709/7	Method Blank	103	95	108	97

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: 410-34553-1

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

Matrix: Groundwater

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BAPd12 (10-122)	MNPd10 (49-115)	FLN10 (65-129)
410-34553-1	MW-1-20210331	59	76	90
410-34553-2	MW-10S-20210331	78	77	100
410-34553-3	MW-10D-20210331	70	76	100
410-34553-4	MW-7S-20210331	74	71	92
410-34553-4 MS	MW-7S-20210331	67	71	95
410-34553-4 MSD	MW-7S-20210331	78	67	104
410-34553-5	MW-7D-20210331	57	62	81
410-34553-6	MW-14S-20210331	77	75	90
410-34553-7	MW-14D-20210331	47	68	91
410-34553-8	MW-8S-20210401	71	68	81
410-34553-9	MW-8D-20210401	54	53	66
410-34553-10	MW-12S-20210401	54	70	92
410-34553-11	MW-12D-20210401	46	63	93
410-34553-12	MW-11S-20210401	86	73	106
410-34553-12 - DL	MW-11S-20210401	81	73	92
410-34553-13	MW-11D-20210401	28	52	74
410-34553-14	MW-4S-20210402	45	41 S1-	56 S1-
410-34553-14 - DL	MW-4S-20210402	40	39 S1-	54 S1-
410-34553-15	MW-4D-20210402	51	65	85
410-34553-16	MW-3-20210402	68	51	95
410-34553-16 - DL	MW-3-20210402	73	58	85
410-34553-18	MW-13S-20210402	66	58	98
410-34553-18 - DL	MW-13S-20210402	76	63	87
410-34553-19	MW-13D-20210402	65	60	88
410-34553-20	DUP-20210402	78	68	110
410-34553-20 - DL	DUP-20210402	100	94	88
410-34553-20 - DL2	DUP-20210402	116	89	94

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 (10-122)	MNPd10 (49-115)	FLN10 (65-129)
410-34553-17	FB-20210402	70	69	91
LCS 410-111583/2-A	Lab Control Sample	74	49	85
LCS 410-111922/2-A	Lab Control Sample	86	77	101
LCSD 410-111922/3-A	Lab Control Sample Dup	82	69	96
MB 410-111583/1-A	Method Blank	61	48 S1-	79
MB 410-111922/1-A	Method Blank	78	72	99

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 410-111709/7
Matrix: Water
Analysis Batch: 111709

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	0.20	ug/L			04/07/21 12:15	1
Ethylbenzene	ND		1.0	0.40	ug/L			04/07/21 12:15	1
Toluene	ND		1.0	0.20	ug/L			04/07/21 12:15	1
Xylenes, Total	ND		6.0	1.4	ug/L			04/07/21 12:15	1
Methyl tertiary butyl ether	ND		1.0	0.20	ug/L			04/07/21 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*04/07/21 12:15*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*04/07/21 12:15*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*04/07/21 12:15*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*04/07/21 12:15*	*1*

Lab Sample ID: LCS 410-111709/5
Matrix: Water
Analysis Batch: 111709

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	18.6		ug/L		93	80 - 120		
Ethylbenzene			20.0	19.1		ug/L		96	80 - 120		
Toluene			20.0	18.6		ug/L		93	80 - 120		
Xylenes, Total			60.0	58.6		ug/L		98	80 - 120		
Methyl tertiary butyl ether			20.0	18.5		ug/L		93	69 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 410-34553-4 MS
Matrix: Groundwater
Analysis Batch: 111709

Client Sample ID: MW-7S-20210331
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	20.8		ug/L		102	80 - 120		
Ethylbenzene	ND		20.0	21.3		ug/L		106	80 - 120		
Toluene	ND		20.0	20.0		ug/L		100	80 - 120		
Xylenes, Total	ND		60.0	64.4		ug/L		107	80 - 120		
Methyl tertiary butyl ether	ND		20.0	18.9		ug/L		95	69 - 122		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*107*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: 410-34553-4 MSD
Matrix: Groundwater
Analysis Batch: 111709

Client Sample ID: MW-7S-20210331
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	21.2		ug/L		104	80 - 120	2	30
Ethylbenzene	ND		20.0	21.5		ug/L		107	80 - 120	1	30
Toluene	ND		20.0	20.4		ug/L		102	80 - 120	2	30
Xylenes, Total	ND		60.0	65.1		ug/L		109	80 - 120	1	30
Methyl tertiary butyl ether	ND		20.0	19.0		ug/L		95	69 - 122	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: MB 410-111583/1-A
Matrix: Water
Analysis Batch: 111994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/07/21 21:04	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 10:10	04/07/21 21:04	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/07/21 21:04	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 10:10	04/07/21 21:04	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 10:10	04/07/21 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*61*		*10 - 122*	*04/07/21 10:10*	*04/07/21 21:04*	*1*
1-Methylnaphthalene-d10 (Surr)	*48*	*S1-*	*49 - 115*	*04/07/21 10:10*	*04/07/21 21:04*	*1*
Fluoranthene-d10 (Surr)	*79*		*65 - 129*	*04/07/21 10:10*	*04/07/21 21:04*	*1*

Lab Sample ID: LCS 410-111583/2-A
Matrix: Water
Analysis Batch: 111994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111583

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1.00	0.593		ug/L		59	52 - 107		
Acenaphthylene			1.00	0.649		ug/L		65	48 - 103		

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

Lab Sample ID: LCS 410-111583/2-A
Matrix: Water
Analysis Batch: 111994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	1.00	0.766		ug/L		77	61 - 118
Benzo[a]anthracene	1.00	0.754		ug/L		75	69 - 119
Benzo[a]pyrene	1.00	0.806		ug/L		81	73 - 117
Benzo[b]fluoranthene	1.00	0.715		ug/L		72	72 - 123
Benzo[g,h,i]perylene	1.00	0.682		ug/L		68	59 - 114
Benzo[k]fluoranthene	1.00	0.827		ug/L		83	66 - 124
Chrysene	1.00	0.804		ug/L		80	61 - 117
Dibenz(a,h)anthracene	1.00	0.683		ug/L		68	60 - 118
Fluoranthene	1.00	0.841		ug/L		84	69 - 116
Fluorene	1.00	0.673		ug/L		67	55 - 112
Indeno[1,2,3-cd]pyrene	1.00	0.664		ug/L		66	57 - 134
Naphthalene	1.00	0.531		ug/L		53	35 - 108
Phenanthrene	1.00	0.762		ug/L		76	59 - 119
Pyrene	1.00	0.650		ug/L		65	56 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*74*		*10 - 122*
1-Methylnaphthalene-d10 (Surr)	*49*		*49 - 115*
Fluoranthene-d10 (Surr)	*85*		*65 - 129*

Lab Sample ID: 410-34553-4 MS
Matrix: Groundwater
Analysis Batch: 111994

Client Sample ID: MW-7S-20210331
Prep Type: Total/NA
Prep Batch: 111583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.095		1.00	0.727		ug/L		63	52 - 107
Acenaphthylene	ND		1.00	0.685		ug/L		68	48 - 103
Anthracene	0.026	J	1.00	0.859		ug/L		83	61 - 118
Benzo[a]anthracene	ND		1.00	0.806		ug/L		81	69 - 119
Benzo[a]pyrene	ND		1.00	0.735		ug/L		73	73 - 117
Benzo[b]fluoranthene	ND		1.00	0.746		ug/L		75	72 - 123
Benzo[g,h,i]perylene	ND		1.00	0.592		ug/L		59	59 - 114
Benzo[k]fluoranthene	ND		1.00	0.833		ug/L		83	66 - 124
Chrysene	ND		1.00	0.834		ug/L		83	61 - 117
Dibenz(a,h)anthracene	ND		1.00	0.705		ug/L		71	60 - 118
Fluoranthene	ND		1.00	0.927		ug/L		93	69 - 116
Fluorene	0.026	J	1.00	0.725		ug/L		70	55 - 112
Indeno[1,2,3-cd]pyrene	ND		1.00	0.708		ug/L		71	57 - 134
Naphthalene	0.11		1.00	0.768		ug/L		66	35 - 108
Phenanthrene	ND		1.00	0.917		ug/L		92	59 - 119
Pyrene	ND		1.00	0.649		ug/L		65	56 - 118

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*67*		*10 - 122*
1-Methylnaphthalene-d10 (Surr)	*71*		*49 - 115*
Fluoranthene-d10 (Surr)	*95*		*65 - 129*

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

Lab Sample ID: 410-34553-4 MSD
Matrix: Groundwater
Analysis Batch: 111994

Client Sample ID: MW-7S-20210331
Prep Type: Total/NA
Prep Batch: 111583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.095		1.00	0.816		ug/L		72	52 - 107	11	30
Acenaphthylene	ND		1.00	0.766		ug/L		77	48 - 103	11	30
Anthracene	0.026	J	1.00	0.951		ug/L		93	61 - 118	10	30
Benzo[a]anthracene	ND		1.00	0.872		ug/L		87	69 - 119	8	30
Benzo[a]pyrene	ND		1.00	0.829		ug/L		83	73 - 117	12	30
Benzo[b]fluoranthene	ND		1.00	0.814		ug/L		81	72 - 123	9	30
Benzo[g,h,i]perylene	ND		1.00	0.695		ug/L		69	59 - 114	16	30
Benzo[k]fluoranthene	ND		1.00	0.891		ug/L		89	66 - 124	7	30
Chrysene	ND		1.00	0.889		ug/L		89	61 - 117	6	30
Dibenz(a,h)anthracene	ND		1.00	0.730		ug/L		73	60 - 118	3	30
Fluoranthene	ND		1.00	1.02		ug/L		102	69 - 116	9	30
Fluorene	0.026	J	1.00	0.803		ug/L		78	55 - 112	10	30
Indeno[1,2,3-cd]pyrene	ND		1.00	0.779		ug/L		78	57 - 134	9	30
Naphthalene	0.11		1.00	0.787		ug/L		68	35 - 108	2	30
Phenanthrene	ND		1.00	1.02		ug/L		102	59 - 119	11	30
Pyrene	ND		1.00	0.694		ug/L		69	56 - 118	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 122*
1-Methylnaphthalene-d10 (Surr)	*67*		*49 - 115*
Fluoranthene-d10 (Surr)	*104*		*65 - 129*

Lab Sample ID: MB 410-111922/1-A
Matrix: Water
Analysis Batch: 112126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Acenaphthylene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Anthracene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Benzo[a]anthracene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Benzo[a]pyrene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Benzo[b]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Benzo[g,h,i]perylene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Benzo[k]fluoranthene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Chrysene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Dibenz(a,h)anthracene	ND		0.050	0.020	ug/L		04/07/21 17:45	04/08/21 07:21	1
Fluoranthene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Fluorene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1
Indeno[1,2,3-cd]pyrene	ND		0.050	0.020	ug/L		04/07/21 17:45	04/08/21 07:21	1
Naphthalene	ND		0.070	0.030	ug/L		04/07/21 17:45	04/08/21 07:21	1
Phenanthrene	ND		0.070	0.030	ug/L		04/07/21 17:45	04/08/21 07:21	1
Pyrene	ND		0.050	0.010	ug/L		04/07/21 17:45	04/08/21 07:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Benzo(a)pyrene-d12 (Surr)	*78*		*10 - 122*	*04/07/21 17:45*	*04/08/21 07:21*	*1*
1-Methylnaphthalene-d10 (Surr)	*72*		*49 - 115*	*04/07/21 17:45*	*04/08/21 07:21*	*1*
Fluoranthene-d10 (Surr)	*99*		*65 - 129*	*04/07/21 17:45*	*04/08/21 07:21*	*1*

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

Lab Sample ID: LCS 410-111922/2-A
Matrix: Water
Analysis Batch: 112126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111922

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acenaphthene			1.00	0.759		ug/L		76	52 - 107		
Acenaphthylene			1.00	0.785		ug/L		79	48 - 103		
Anthracene			1.00	0.899		ug/L		90	61 - 118		
Benzo[a]anthracene			1.00	0.880		ug/L		88	69 - 119		
Benzo[a]pyrene			1.00	0.907		ug/L		91	73 - 117		
Benzo[b]fluoranthene			1.00	0.833		ug/L		83	72 - 123		
Benzo[g,h,i]perylene			1.00	0.743		ug/L		74	59 - 114		
Benzo[k]fluoranthene			1.00	0.941		ug/L		94	66 - 124		
Chrysene			1.00	0.928		ug/L		93	61 - 117		
Dibenz(a,h)anthracene			1.00	0.711		ug/L		71	60 - 118		
Fluoranthene			1.00	0.984		ug/L		98	69 - 116		
Fluorene			1.00	0.823		ug/L		82	55 - 112		
Indeno[1,2,3-cd]pyrene			1.00	0.733		ug/L		73	57 - 134		
Naphthalene			1.00	0.767		ug/L		77	35 - 108		
Phenanthrene			1.00	0.890		ug/L		89	59 - 119		
Pyrene			1.00	0.736		ug/L		74	56 - 118		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*86*		*10 - 122*
1-Methylnaphthalene-d10 (Surr)	*77*		*49 - 115*
Fluoranthene-d10 (Surr)	*101*		*65 - 129*

Lab Sample ID: LCSD 410-111922/3-A
Matrix: Water
Analysis Batch: 112126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111922

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			1.00	0.710		ug/L		71	52 - 107	7	30
Acenaphthylene			1.00	0.761		ug/L		76	48 - 103	3	30
Anthracene			1.00	0.870		ug/L		87	61 - 118	3	30
Benzo[a]anthracene			1.00	0.841		ug/L		84	69 - 119	4	30
Benzo[a]pyrene			1.00	0.885		ug/L		89	73 - 117	2	30
Benzo[b]fluoranthene			1.00	0.805		ug/L		81	72 - 123	3	30
Benzo[g,h,i]perylene			1.00	0.695		ug/L		70	59 - 114	7	30
Benzo[k]fluoranthene			1.00	0.912		ug/L		91	66 - 124	3	30
Chrysene			1.00	0.894		ug/L		89	61 - 117	4	30
Dibenz(a,h)anthracene			1.00	0.680		ug/L		68	60 - 118	4	30
Fluoranthene			1.00	0.945		ug/L		95	69 - 116	4	30
Fluorene			1.00	0.779		ug/L		78	55 - 112	6	30
Indeno[1,2,3-cd]pyrene			1.00	0.690		ug/L		69	57 - 134	6	30
Naphthalene			1.00	0.778		ug/L		78	35 - 108	1	30
Phenanthrene			1.00	0.855		ug/L		86	59 - 119	4	30
Pyrene			1.00	0.709		ug/L		71	56 - 118	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Benzo(a)pyrene-d12 (Surr)	*82*		*10 - 122*
1-Methylnaphthalene-d10 (Surr)	*69*		*49 - 115*
Fluoranthene-d10 (Surr)	*96*		*65 - 129*

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

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: 111709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-1	MW-1-20210331	Total/NA	Groundwater	8260C	
410-34553-2	MW-10S-20210331	Total/NA	Groundwater	8260C	
410-34553-3	MW-10D-20210331	Total/NA	Groundwater	8260C	
410-34553-4	MW-7S-20210331	Total/NA	Groundwater	8260C	
410-34553-5	MW-7D-20210331	Total/NA	Groundwater	8260C	
410-34553-6	MW-14S-20210331	Total/NA	Groundwater	8260C	
410-34553-7	MW-14D-20210331	Total/NA	Groundwater	8260C	
410-34553-8	MW-8S-20210401	Total/NA	Groundwater	8260C	
410-34553-9	MW-8D-20210401	Total/NA	Groundwater	8260C	
410-34553-10	MW-12S-20210401	Total/NA	Groundwater	8260C	
410-34553-11	MW-12D-20210401	Total/NA	Groundwater	8260C	
410-34553-12	MW-11S-20210401	Total/NA	Groundwater	8260C	
410-34553-13	MW-11D-20210401	Total/NA	Groundwater	8260C	
410-34553-14	MW-4S-20210402	Total/NA	Groundwater	8260C	
410-34553-15	MW-4D-20210402	Total/NA	Groundwater	8260C	
410-34553-16	MW-3-20210402	Total/NA	Groundwater	8260C	
410-34553-17	FB-20210402	Total/NA	Water	8260C	
410-34553-18	MW-13S-20210402	Total/NA	Groundwater	8260C	
410-34553-19	MW-13D-20210402	Total/NA	Groundwater	8260C	
410-34553-20	DUP-20210402	Total/NA	Groundwater	8260C	
410-34553-21	Trip-Blank	Total/NA	Water	8260C	
MB 410-111709/7	Method Blank	Total/NA	Water	8260C	
LCS 410-111709/5	Lab Control Sample	Total/NA	Water	8260C	
410-34553-4 MS	MW-7S-20210331	Total/NA	Groundwater	8260C	
410-34553-4 MSD	MW-7S-20210331	Total/NA	Groundwater	8260C	

GC/MS Semi VOA

Prep Batch: 111583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-1	MW-1-20210331	Total/NA	Groundwater	3510C	
410-34553-2	MW-10S-20210331	Total/NA	Groundwater	3510C	
410-34553-3	MW-10D-20210331	Total/NA	Groundwater	3510C	
410-34553-4	MW-7S-20210331	Total/NA	Groundwater	3510C	
410-34553-5	MW-7D-20210331	Total/NA	Groundwater	3510C	
410-34553-6	MW-14S-20210331	Total/NA	Groundwater	3510C	
410-34553-7	MW-14D-20210331	Total/NA	Groundwater	3510C	
410-34553-8	MW-8S-20210401	Total/NA	Groundwater	3510C	
410-34553-9	MW-8D-20210401	Total/NA	Groundwater	3510C	
410-34553-10	MW-12S-20210401	Total/NA	Groundwater	3510C	
410-34553-11	MW-12D-20210401	Total/NA	Groundwater	3510C	
410-34553-12	MW-11S-20210401	Total/NA	Groundwater	3510C	
410-34553-12 - DL	MW-11S-20210401	Total/NA	Groundwater	3510C	
410-34553-13	MW-11D-20210401	Total/NA	Groundwater	3510C	
410-34553-14 - DL	MW-4S-20210402	Total/NA	Groundwater	3510C	
410-34553-14	MW-4S-20210402	Total/NA	Groundwater	3510C	
410-34553-15	MW-4D-20210402	Total/NA	Groundwater	3510C	
410-34553-16 - DL	MW-3-20210402	Total/NA	Groundwater	3510C	
410-34553-16	MW-3-20210402	Total/NA	Groundwater	3510C	
410-34553-17	FB-20210402	Total/NA	Water	3510C	
410-34553-18	MW-13S-20210402	Total/NA	Groundwater	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 111583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-18 - DL	MW-13S-20210402	Total/NA	Groundwater	3510C	
410-34553-19	MW-13D-20210402	Total/NA	Groundwater	3510C	
MB 410-111583/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-111583/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-34553-4 MS	MW-7S-20210331	Total/NA	Groundwater	3510C	
410-34553-4 MSD	MW-7S-20210331	Total/NA	Groundwater	3510C	

Prep Batch: 111922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-20 - DL2	DUP-20210402	Total/NA	Groundwater	3510C	
410-34553-20	DUP-20210402	Total/NA	Groundwater	3510C	
410-34553-20 - DL	DUP-20210402	Total/NA	Groundwater	3510C	
MB 410-111922/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-111922/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-111922/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 111994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-1	MW-1-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-2	MW-10S-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-3	MW-10D-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-4	MW-7S-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-5	MW-7D-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-6	MW-14S-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-7	MW-14D-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-8	MW-8S-20210401	Total/NA	Groundwater	8270D SIM	111583
MB 410-111583/1-A	Method Blank	Total/NA	Water	8270D SIM	111583
LCS 410-111583/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	111583
410-34553-4 MS	MW-7S-20210331	Total/NA	Groundwater	8270D SIM	111583
410-34553-4 MSD	MW-7S-20210331	Total/NA	Groundwater	8270D SIM	111583

Analysis Batch: 112126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-9	MW-8D-20210401	Total/NA	Groundwater	8270D SIM	111583
410-34553-10	MW-12S-20210401	Total/NA	Groundwater	8270D SIM	111583
410-34553-11	MW-12D-20210401	Total/NA	Groundwater	8270D SIM	111583
410-34553-12	MW-11S-20210401	Total/NA	Groundwater	8270D SIM	111583
410-34553-13	MW-11D-20210401	Total/NA	Groundwater	8270D SIM	111583
410-34553-14	MW-4S-20210402	Total/NA	Groundwater	8270D SIM	111583
410-34553-15	MW-4D-20210402	Total/NA	Groundwater	8270D SIM	111583
410-34553-16	MW-3-20210402	Total/NA	Groundwater	8270D SIM	111583
410-34553-17	FB-20210402	Total/NA	Water	8270D SIM	111583
410-34553-18	MW-13S-20210402	Total/NA	Groundwater	8270D SIM	111583
410-34553-19	MW-13D-20210402	Total/NA	Groundwater	8270D SIM	111583
MB 410-111922/1-A	Method Blank	Total/NA	Water	8270D SIM	111922
LCS 410-111922/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	111922
LCSD 410-111922/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	111922

Analysis Batch: 112543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-12 - DL	MW-11S-20210401	Total/NA	Groundwater	8270D SIM	111583

GC/MS Semi VOA (Continued)

Analysis Batch: 112543 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-34553-14 - DL	MW-4S-20210402	Total/NA	Groundwater	8270D SIM	111583
410-34553-16 - DL	MW-3-20210402	Total/NA	Groundwater	8270D SIM	111583
410-34553-18 - DL	MW-13S-20210402	Total/NA	Groundwater	8270D SIM	111583
410-34553-20	DUP-20210402	Total/NA	Groundwater	8270D SIM	111922
410-34553-20 - DL	DUP-20210402	Total/NA	Groundwater	8270D SIM	111922
410-34553-20 - DL2	DUP-20210402	Total/NA	Groundwater	8270D SIM	111922

Client Sample ID: MW-1-20210331
Lab Sample ID: 410-34553-1
Date Collected: 03/31/21 10:45
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 15:11	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 01:07	UJM0	ELLE

Client Sample ID: MW-10S-20210331
Lab Sample ID: 410-34553-2
Date Collected: 03/31/21 11:38
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 15:33	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 01:38	UJM0	ELLE

Client Sample ID: MW-10D-20210331
Lab Sample ID: 410-34553-3
Date Collected: 03/31/21 12:25
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 15:55	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 02:08	UJM0	ELLE

Client Sample ID: MW-7S-20210331
Lab Sample ID: 410-34553-4
Date Collected: 03/31/21 14:45
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 14:05	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 02:39	UJM0	ELLE

Client Sample ID: MW-7D-20210331
Lab Sample ID: 410-34553-5
Date Collected: 03/31/21 15:38
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 16:17	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 04:10	UJM0	ELLE

Client Sample ID: MW-14S-20210331
Lab Sample ID: 410-34553-6
Date Collected: 03/31/21 16:30
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 16:39	H9JD	ELLE

Client Sample ID: MW-14S-20210331
Lab Sample ID: 410-34553-6

Date Collected: 03/31/21 16:30
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 04:40	UJM0	ELLE

Client Sample ID: MW-14D-20210331
Lab Sample ID: 410-34553-7

Date Collected: 03/31/21 17:43
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 17:01	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 05:11	UJM0	ELLE

Client Sample ID: MW-8S-20210401
Lab Sample ID: 410-34553-8

Date Collected: 04/01/21 11:20
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 17:23	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	111994	04/08/21 05:41	UJM0	ELLE

Client Sample ID: MW-8D-20210401
Lab Sample ID: 410-34553-9

Date Collected: 04/01/21 11:59
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 18:08	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 10:54	X3ZL	ELLE

Client Sample ID: MW-12S-20210401
Lab Sample ID: 410-34553-10

Date Collected: 04/01/21 13:31
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 18:30	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 11:55	X3ZL	ELLE

Client Sample ID: MW-12D-20210401
Lab Sample ID: 410-34553-11

Date Collected: 04/01/21 14:09
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 18:52	H9JD	ELLE

Client Sample ID: MW-12D-20210401
Lab Sample ID: 410-34553-11

Date Collected: 04/01/21 14:09
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 13:26	X3ZL	ELLE

Client Sample ID: MW-11S-20210401
Lab Sample ID: 410-34553-12

Date Collected: 04/01/21 14:58
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 19:14	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 13:57	X3ZL	ELLE
Total/NA	Prep	3510C	DL		111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM	DL	10	112543	04/08/21 22:50	UJM0	ELLE

Client Sample ID: MW-11D-20210401
Lab Sample ID: 410-34553-13

Date Collected: 04/01/21 15:38
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 19:36	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 14:27	X3ZL	ELLE

Client Sample ID: MW-4S-20210402
Lab Sample ID: 410-34553-14

Date Collected: 04/02/21 09:44
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 19:58	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 14:58	X3ZL	ELLE
Total/NA	Prep	3510C	DL		111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM	DL	5	112543	04/08/21 23:20	UJM0	ELLE

Client Sample ID: MW-4D-20210402
Lab Sample ID: 410-34553-15

Date Collected: 04/02/21 10:26
Matrix: Groundwater
Date Received: 04/02/21 19:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 20:20	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 15:28	X3ZL	ELLE

Client Sample ID: MW-3-20210402
Date Collected: 04/02/21 11:07
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-16
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 20:42	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 15:59	X3ZL	ELLE
Total/NA	Prep	3510C	DL		111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM	DL	10	112543	04/08/21 23:51	UJM0	ELLE

Client Sample ID: FB-20210402
Date Collected: 04/02/21 11:40
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 13:21	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 16:29	X3ZL	ELLE

Client Sample ID: MW-13S-20210402
Date Collected: 04/02/21 11:56
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-18
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	111709	04/07/21 21:04	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 17:00	X3ZL	ELLE
Total/NA	Prep	3510C	DL		111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM	DL	10	112543	04/09/21 00:51	UJM0	ELLE

Client Sample ID: MW-13D-20210402
Date Collected: 04/02/21 12:35
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-19
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 21:27	H9JD	ELLE
Total/NA	Prep	3510C			111583	04/07/21 10:10	QTH7	ELLE
Total/NA	Analysis	8270D SIM		1	112126	04/08/21 17:30	X3ZL	ELLE

Client Sample ID: DUP-20210402
Date Collected: 04/02/21 00:00
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-20
Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 21:49	H9JD	ELLE
Total/NA	Prep	3510C			111922	04/07/21 17:45	DFX4	ELLE
Total/NA	Analysis	8270D SIM		1	112543	04/09/21 03:23	UJM0	ELLE
Total/NA	Prep	3510C	DL		111922	04/07/21 17:45	DFX4	ELLE
Total/NA	Analysis	8270D SIM	DL	10	112543	04/09/21 04:10	UJM0	ELLE

Lab Chronicle

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

Job ID: 410-34553-1

Client Sample ID: DUP-20210402

Date Collected: 04/02/21 00:00
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-20

Matrix: Groundwater

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL2		111922	04/07/21 17:45	DFX4	ELLE
Total/NA	Analysis	8270D SIM	DL2	20	112543	04/09/21 04:51	UJM0	ELLE

Client Sample ID: Trip-Blank

Date Collected: 03/31/21 00:00
Date Received: 04/02/21 19:16

Lab Sample ID: 410-34553-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	111709	04/07/21 13:43	H9JD	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: 410-34553-1

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
Alaska	State	PA00009	06-30-21
Alaska (UST)	State	17-027	01-31-21 *
Arizona	State	AZ0780	03-12-22
Arkansas DEQ	State	19-053-0	08-09-21
California	State	2792	01-31-22
Colorado	State	PA00009	06-30-21
Connecticut	State	PH-0746	06-30-21
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	06-30-21
Hawaii	State	N/A	01-31-22
Illinois	NELAP	004559	01-31-22
Iowa	State	361	03-02-22
Kansas	NELAP	E-10151	10-31-21
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	06-30-21
Maine	State	2019012	03-12-22
Maryland	State	100	06-30-21
Massachusetts	State	M-PA009	06-30-21
Michigan	State	9930	01-31-22
Minnesota	NELAP	042-999-487	12-31-21
Missouri	State	450	01-31-22
Montana (DW)	State	0098	01-01-22
Montana (UST)	State	0098	01-01-22
Nebraska	State	NE-OS-32-17	01-31-22
Nevada	State	PA000092019-3	07-31-21
New Hampshire	NELAP	273019	01-10-22
New Jersey	NELAP	PA011	06-30-21
New York	NELAP	10670	04-01-22
North Carolina (DW)	State	42705	07-31-21
North Carolina (WW/SW)	State	521	12-31-21
North Dakota	State	R-205	01-31-22
Oklahoma	NELAP	R-205	08-31-21
Oregon	NELAP	PA200001-018	09-12-21
PALA	Canada	1978	05-08-21
Pennsylvania	NELAP	36-00037	01-31-22
Rhode Island	State	LAO00338	01-31-22
South Carolina	State	89002002	01-31-22
Tennessee	State	02838	01-31-22
Texas	NELAP	T104704194-20-38	08-31-21
Utah	NELAP	PA000092019-16	03-01-22
Vermont	State	VT - 36037	10-29-21
Virginia	NELAP	10561	06-14-21
Washington	State	C457	04-11-21
West Virginia (DW)	State	9906 C	12-31-21
West Virginia DEP	State	055	06-30-21
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.: 410-34553-1

SDG No.:

Matrix: Water Level: Low

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

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-1-20210331	410-34553-1	108	106	96	95
MW-10S-20210331	410-34553-2	110	104	97	95
MW-10D-20210331	410-34553-3	110	105	97	94
MW-7S-20210331	410-34553-4	111	104	97	95
MW-7D-20210331	410-34553-5	111	105	97	95
MW-14S-20210331	410-34553-6	110	105	96	95
MW-14D-20210331	410-34553-7	110	104	96	93
MW-8S-20210401	410-34553-8	111	105	96	95
MW-8D-20210401	410-34553-9	113	107	96	95
MW-12S-20210401	410-34553-10	114	105	95	95
MW-12D-20210401	410-34553-11	114	105	95	94
MW-11S-20210401	410-34553-12	115	105	95	97
MW-11D-20210401	410-34553-13	114	103	96	95
MW-4S-20210402	410-34553-14	115	104	96	96
MW-4D-20210402	410-34553-15	115	104	95	95
MW-3-20210402	410-34553-16	114	104	95	100
FB-20210402	410-34553-17	111	104	97	95
MW-13S-20210402	410-34553-18	114	104	97	98
MW-13D-20210402	410-34553-19	115	105	96	96
DUP-20210402	410-34553-20	115	105	96	100
Trip-Blank	410-34553-21	110	103	96	95
	MB 410-111709/7	108	103	97	95
	LCS 410-111709/5	106	102	99	101
MW-7S-20210331 MS	410-34553-4 MS	107	103	98	100
MW-7S-20210331 MSD	410-34553-4 MSD	106	103	99	101

	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 Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YA07L01.D

Lab ID: LCS 410-111709/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	20.0	18.6	93	80-120	
Ethylbenzene	20.0	19.1	96	80-120	
Toluene	20.0	18.6	93	80-120	
Xylenes, Total	60.0	58.6	98	80-120	
Methyl tertiary butyl ether	20.0	18.5	93	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 Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YA07S06.D

Lab ID: 410-34553-4 MS Client ID: MW-7S-20210331 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	20.8	102	80-120	
Ethylbenzene	20.0	ND	21.3	106	80-120	
Toluene	20.0	ND	20.0	100	80-120	
Xylenes, Total	60.0	ND	64.4	107	80-120	
Methyl tertiary butyl ether	20.0	ND	18.9	95	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 Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YA07S07.D

Lab ID: 410-34553-4 MSD Client ID: MW-7S-20210331 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	20.0	21.2	104	2	30	80-120	
Ethylbenzene	20.0	21.5	107	1	30	80-120	
Toluene	20.0	20.4	102	2	30	80-120	
Xylenes, Total	60.0	65.1	109	1	30	80-120	
Methyl tertiary butyl ether	20.0	19.0	95	1	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 Job No.: 410-34553-1

SDG No.:

Lab File ID: YA07B01.D Lab Sample ID: MB 410-111709/7

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

Instrument ID: 9355 Date Analyzed: 04/07/2021 12:15

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

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-111709/5	YA07L01.D	04/07/2021 11:31
FB-20210402	410-34553-17	YA07S03.D	04/07/2021 13:21
Trip-Blank	410-34553-21	YA07S04.D	04/07/2021 13:43
MW-7S-20210331	410-34553-4	YA07S05.D	04/07/2021 14:05
MW-7S-20210331 MS	410-34553-4 MS	YA07S06.D	04/07/2021 14:27
MW-7S-20210331 MSD	410-34553-4 MSD	YA07S07.D	04/07/2021 14:49
MW-1-20210331	410-34553-1	YA07S08.D	04/07/2021 15:11
MW-10S-20210331	410-34553-2	YA07S09.D	04/07/2021 15:33
MW-10D-20210331	410-34553-3	YA07S10.D	04/07/2021 15:55
MW-7D-20210331	410-34553-5	YA07S11.D	04/07/2021 16:17
MW-14S-20210331	410-34553-6	YA07S12.D	04/07/2021 16:39
MW-14D-20210331	410-34553-7	YA07S13.D	04/07/2021 17:01
MW-8S-20210401	410-34553-8	YA07S14.D	04/07/2021 17:23
MW-8D-20210401	410-34553-9	YA07S16.D	04/07/2021 18:08
MW-12S-20210401	410-34553-10	YA07S17.D	04/07/2021 18:30
MW-12D-20210401	410-34553-11	YA07S18.D	04/07/2021 18:52
MW-11S-20210401	410-34553-12	YA07S19.D	04/07/2021 19:14
MW-11D-20210401	410-34553-13	YA07S20.D	04/07/2021 19:36
MW-4S-20210402	410-34553-14	YA07S21.D	04/07/2021 19:58
MW-4D-20210402	410-34553-15	YA07S22.D	04/07/2021 20:20
MW-3-20210402	410-34553-16	YA07S23.D	04/07/2021 20:42
MW-13S-20210402	410-34553-18	YA07S24.D	04/07/2021 21:04
MW-13D-20210402	410-34553-19	YA07S25.D	04/07/2021 21:27
DUP-20210402	410-34553-20	YA07S26.D	04/07/2021 21:49

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Lab File ID: YF03T01.D BFB Injection Date: 02/03/2021

Instrument ID: 9355 BFB Injection Time: 14:00

Analysis Batch No.: 90578

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	84.9	
175	5.0 - 9.0 % of mass 174	6.1	(7.2) 1
176	95.0 - 101.0 % of mass 174	81.3	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.2	(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 410-90578/10	YF03x10.D	02/03/2021	17:13
	IC 410-90578/11	YF03x11.D	02/03/2021	17:36
	ICIS 410-90578/12	YF03x12.D	02/03/2021	17:58
	IC 410-90578/13	YF03x13.D	02/03/2021	18:20
	IC 410-90578/14	YF03x14.D	02/03/2021	18:42
	IC 410-90578/15	YF03x15.D	02/03/2021	19:04
	IC 410-90578/16	YF03x16.D	02/03/2021	19:26
	ICV 410-90578/18	YF03x18.D	02/03/2021	20:10

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Lab File ID: YA07T01.D BFB Injection Date: 04/07/2021

Instrument ID: 9355 BFB Injection Time: 10:07

Analysis Batch No.: 111709

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.9
75	30.0 - 60.0 % of mass 95	46.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	80.1
175	5.0 - 9.0 % of mass 174	5.7 (7.2) 1
176	95.0 - 101.0 % of mass 174	78.3 (97.8) 1
177	5.0 - 9.0 % of mass 176	5.2 (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 410-111709/3	YA07C01.D	04/07/2021	10:47
	LCS 410-111709/5	YA07L01.D	04/07/2021	11:31
	MB 410-111709/7	YA07B01.D	04/07/2021	12:15
FB-20210402	410-34553-17	YA07S03.D	04/07/2021	13:21
Trip-Blank	410-34553-21	YA07S04.D	04/07/2021	13:43
MW-7S-20210331	410-34553-4	YA07S05.D	04/07/2021	14:05
MW-7S-20210331 MS	410-34553-4 MS	YA07S06.D	04/07/2021	14:27
MW-7S-20210331 MSD	410-34553-4 MSD	YA07S07.D	04/07/2021	14:49
MW-1-20210331	410-34553-1	YA07S08.D	04/07/2021	15:11
MW-10S-20210331	410-34553-2	YA07S09.D	04/07/2021	15:33
MW-10D-20210331	410-34553-3	YA07S10.D	04/07/2021	15:55
MW-7D-20210331	410-34553-5	YA07S11.D	04/07/2021	16:17
MW-14S-20210331	410-34553-6	YA07S12.D	04/07/2021	16:39
MW-14D-20210331	410-34553-7	YA07S13.D	04/07/2021	17:01
MW-8S-20210401	410-34553-8	YA07S14.D	04/07/2021	17:23
MW-8D-20210401	410-34553-9	YA07S16.D	04/07/2021	18:08
MW-12S-20210401	410-34553-10	YA07S17.D	04/07/2021	18:30
MW-12D-20210401	410-34553-11	YA07S18.D	04/07/2021	18:52
MW-11S-20210401	410-34553-12	YA07S19.D	04/07/2021	19:14
MW-11D-20210401	410-34553-13	YA07S20.D	04/07/2021	19:36
MW-4S-20210402	410-34553-14	YA07S21.D	04/07/2021	19:58
MW-4D-20210402	410-34553-15	YA07S22.D	04/07/2021	20:20
MW-3-20210402	410-34553-16	YA07S23.D	04/07/2021	20:42
MW-13S-20210402	410-34553-18	YA07S24.D	04/07/2021	21:04
MW-13D-20210402	410-34553-19	YA07S25.D	04/07/2021	21:27
DUP-20210402	410-34553-20	YA07S26.D	04/07/2021	21:49

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Sample No.: ICIS 410-90578/12 Date Analyzed: 02/03/2021 17:58

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YF03x12.D Heated Purge: (Y/N) N

Calibration ID: 19872

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		464613	4.34	1201593	7.84	910646	11.29
UPPER LIMIT		929226	4.84	2403186	8.34	1821292	11.79
LOWER LIMIT		232307	3.84	600797	7.34	455323	10.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-90578/18		407432	4.34	1148382	7.84	872591	11.29
CCVIS 410-111709/3		360102	4.33	1073879	7.84	847449	11.29

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.: 410-34553-1

SDG No.:

Sample No.: ICIS 410-90578/12 Date Analyzed: 02/03/2021 17:58

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YF03x12.D Heated Purge: (Y/N) N

Calibration ID: 19872

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		496135	13.16				
UPPER LIMIT		992270	13.66				
LOWER LIMIT		248068	12.66				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-90578/18		480174	13.16				
CCVIS 410-111709/3		495649	13.16				

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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-111709/3 Date Analyzed: 04/07/2021 10:47

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YA07C01.D Heated Purge: (Y/N) N

Calibration ID: 19872

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		360102	4.33	1073879	7.84	847449	11.29
UPPER LIMIT		720204	4.83	2147758	8.34	1694898	11.79
LOWER LIMIT		180051	3.83	536940	7.34	423725	10.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-111709/5		338646	4.33	1081486	7.84	843814	11.29
MB 410-111709/7		354251	4.34	1012367	7.84	778608	11.29
410-34553-17	FB-20210402	324663	4.35	943612	7.84	735933	11.29
410-34553-21	Trip-Blank	339051	4.34	961660	7.84	749887	11.29
410-34553-4	MW-7S-20210331	308935	4.34	897029	7.84	695818	11.29
410-34553-4 MS	MW-7S-20210331 MS	294822	4.33	997341	7.84	791769	11.29
410-34553-4 MSD	MW-7S-20210331 MSD	328104	4.34	1020677	7.84	796964	11.28
410-34553-1	MW-1-20210331	332501	4.33	991299	7.84	762286	11.29
410-34553-2	MW-10S-20210331	322105	4.35	959347	7.85	739889	11.29
410-34553-3	MW-10D-20210331	312505	4.34	944012	7.84	733393	11.29
410-34553-5	MW-7D-20210331	314729	4.35	922817	7.84	719182	11.29
410-34553-6	MW-14S-20210331	290633	4.35	901974	7.85	705559	11.29
410-34553-7	MW-14D-20210331	283186	4.33	861110	7.84	674856	11.29
410-34553-8	MW-8S-20210401	279541	4.34	864484	7.84	674046	11.29
410-34553-9	MW-8D-20210401	270760	4.34	814446	7.85	640212	11.29
410-34553-10	MW-12S-20210401	264833	4.34	790402	7.84	627517	11.29
410-34553-11	MW-12D-20210401	257957	4.34	778070	7.85	618603	11.28
410-34553-12	MW-11S-20210401	257126	4.34	772485	7.84	616438	11.29
410-34553-13	MW-11D-20210401	269362	4.34	782181	7.85	612033	11.29
410-34553-14	MW-4S-20210402	263483	4.33	767402	7.84	603711	11.29
410-34553-15	MW-4D-20210402	261671	4.34	759238	7.84	603903	11.29
410-34553-16	MW-3-20210402	227747	4.33	720580	7.84	572087	11.29
410-34553-18	MW-13S-20210402	267937	4.33	768941	7.84	603048	11.29
410-34553-19	MW-13D-20210402	275655	4.34	785468	7.84	621157	11.29
410-34553-20	DUP-20210402	243455	4.33	750083	7.84	602019	11.28

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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-111709/3 Date Analyzed: 04/07/2021 10:47

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YA07C01.D Heated Purge: (Y/N) N

Calibration ID: 19872

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		495649	13.16				
UPPER LIMIT		991298	13.66				
LOWER LIMIT		247825	12.66				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-111709/5		482288	13.17				
MB 410-111709/7		439983	13.16				
410-34553-17	FB-20210402	414646	13.16				
410-34553-21	Trip-Blank	419877	13.17				
410-34553-4	MW-7S-20210331	397062	13.16				
410-34553-4 MS	MW-7S-20210331 MS	458993	13.16				
410-34553-4 MSD	MW-7S-20210331 MSD	462307	13.16				
410-34553-1	MW-1-20210331	423995	13.16				
410-34553-2	MW-10S-20210331	420346	13.16				
410-34553-3	MW-10D-20210331	409836	13.16				
410-34553-5	MW-7D-20210331	406770	13.16				
410-34553-6	MW-14S-20210331	395424	13.16				
410-34553-7	MW-14D-20210331	378645	13.17				
410-34553-8	MW-8S-20210401	382182	13.17				
410-34553-9	MW-8D-20210401	360374	13.17				
410-34553-10	MW-12S-20210401	353219	13.16				
410-34553-11	MW-12D-20210401	348491	13.16				
410-34553-12	MW-11S-20210401	357109	13.17				
410-34553-13	MW-11D-20210401	351596	13.17				
410-34553-14	MW-4S-20210402	345882	13.16				
410-34553-15	MW-4D-20210402	345372	13.16				
410-34553-16	MW-3-20210402	348336	13.16				
410-34553-18	MW-13S-20210402	353362	13.16				
410-34553-19	MW-13D-20210402	350383	13.17				
410-34553-20	DUP-20210402	361124	13.16				

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-1-20210331 Lab Sample ID: 410-34553-1

Matrix: Groundwater Lab File ID: YA07S08.D

Analysis Method: 8260C Date Collected: 03/31/2021 10:45

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 15:11

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S08.D
Lims ID: 410-34553-A-1
Client ID: MW-1-20210331
Sample Type: Client
Inject. Date: 07-Apr-2021 15:11:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-015
Misc. Info.: 410-34553-A-1
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:54:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.331	4.325	0.006	0	332501	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	94	246683	53.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	64418	53.1	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	991299	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	93	961041	48.2	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	762286	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	351104	47.3	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	423995	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

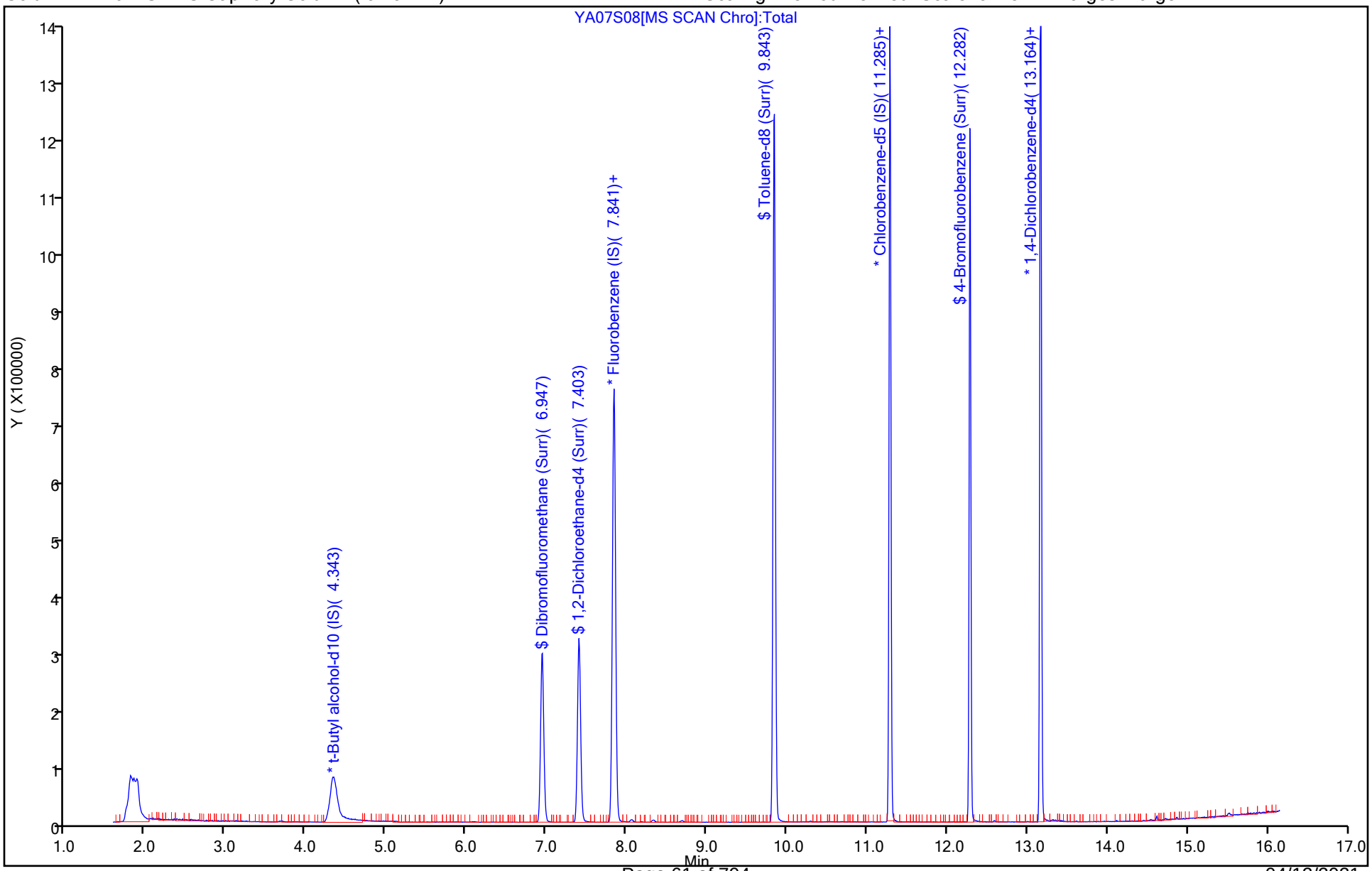
Report Date: 08-Apr-2021 00:00:42 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S08.D

Injection Date:	07-Apr-2021 15:11:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-1	Lab Sample ID:	410-34553-1	Worklist Smp#:	15
Client ID:	MW-1-20210331				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-10S-20210331 Lab Sample ID: 410-34553-2

Matrix: Groundwater Lab File ID: YA07S09.D

Analysis Method: 8260C Date Collected: 03/31/2021 11:38

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 15:33

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S09.D
Lims ID: 410-34553-A-2
Client ID: MW-10S-20210331
Sample Type: Client
Inject. Date: 07-Apr-2021 15:33:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-016
Misc. Info.: 410-34553-A-2
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:54:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.325	0.024	0	322105	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	94	243117	54.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	60843	51.8	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.847	7.835	0.012	99	959347	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	940731	48.6	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	739889	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	340519	47.3	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	420346	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

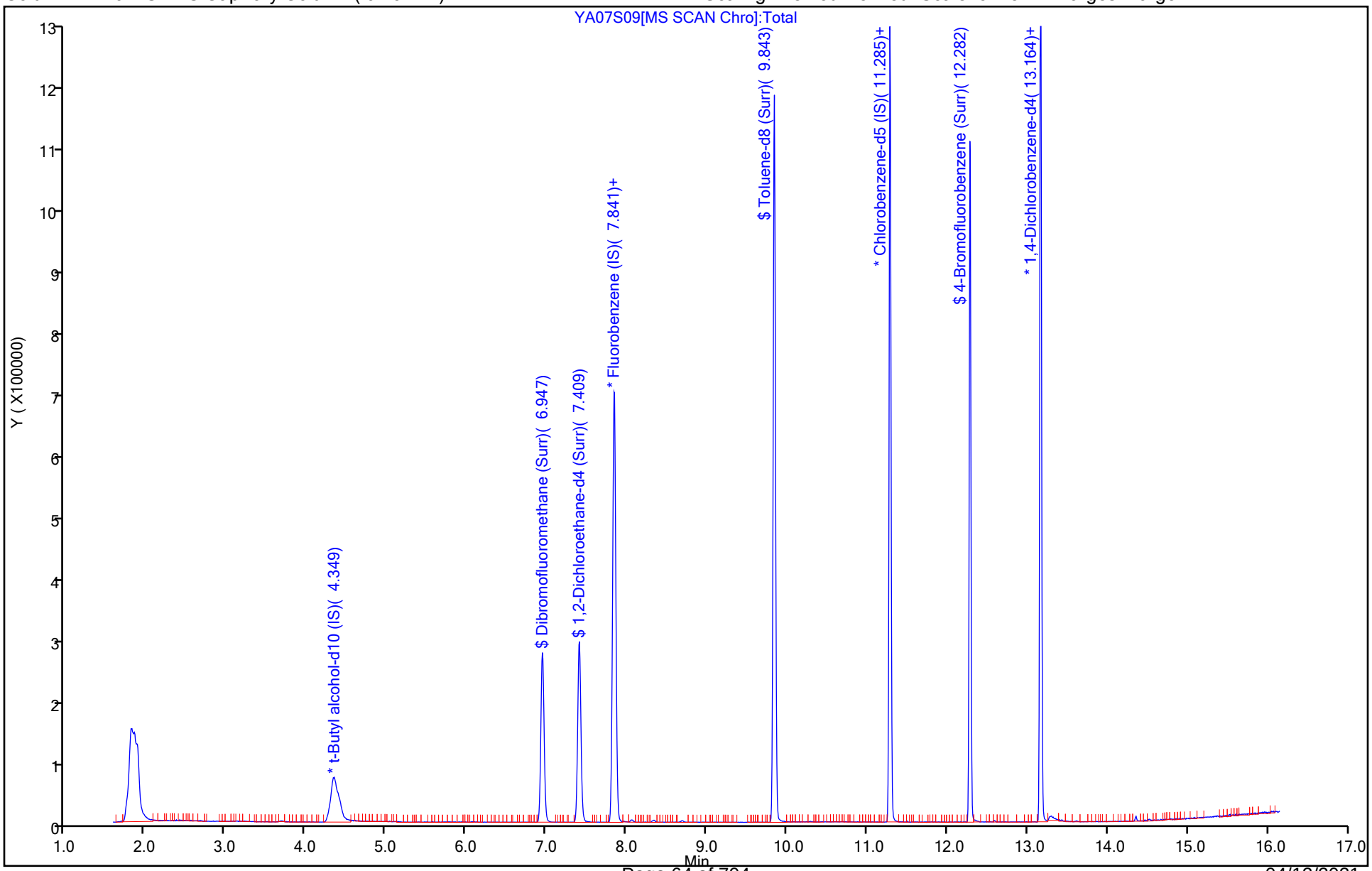
Report Date: 08-Apr-2021 00:00:43 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S09.D

Injection Date:	07-Apr-2021 15:33:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-2	Lab Sample ID:	410-34553-2	Worklist Smp#:	16
Client ID:	MW-10S-20210331				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-10D-20210331 Lab Sample ID: 410-34553-3

Matrix: Groundwater Lab File ID: YA07S10.D

Analysis Method: 8260C Date Collected: 03/31/2021 12:25

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 15:55

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S10.D
Lims ID: 410-34553-A-3
Client ID: MW-10D-20210331
Sample Type: Client
Inject. Date: 07-Apr-2021 15:55:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-017
Misc. Info.: 410-34553-A-3
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:55:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	312505	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	239066	54.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	60612	52.4	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	944012	50.0	
$ 77 Toluene-d8 (Surr)	98	9.837	9.837	0.000	94	925860	48.3	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	733393	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	335863	47.0	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	409836	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

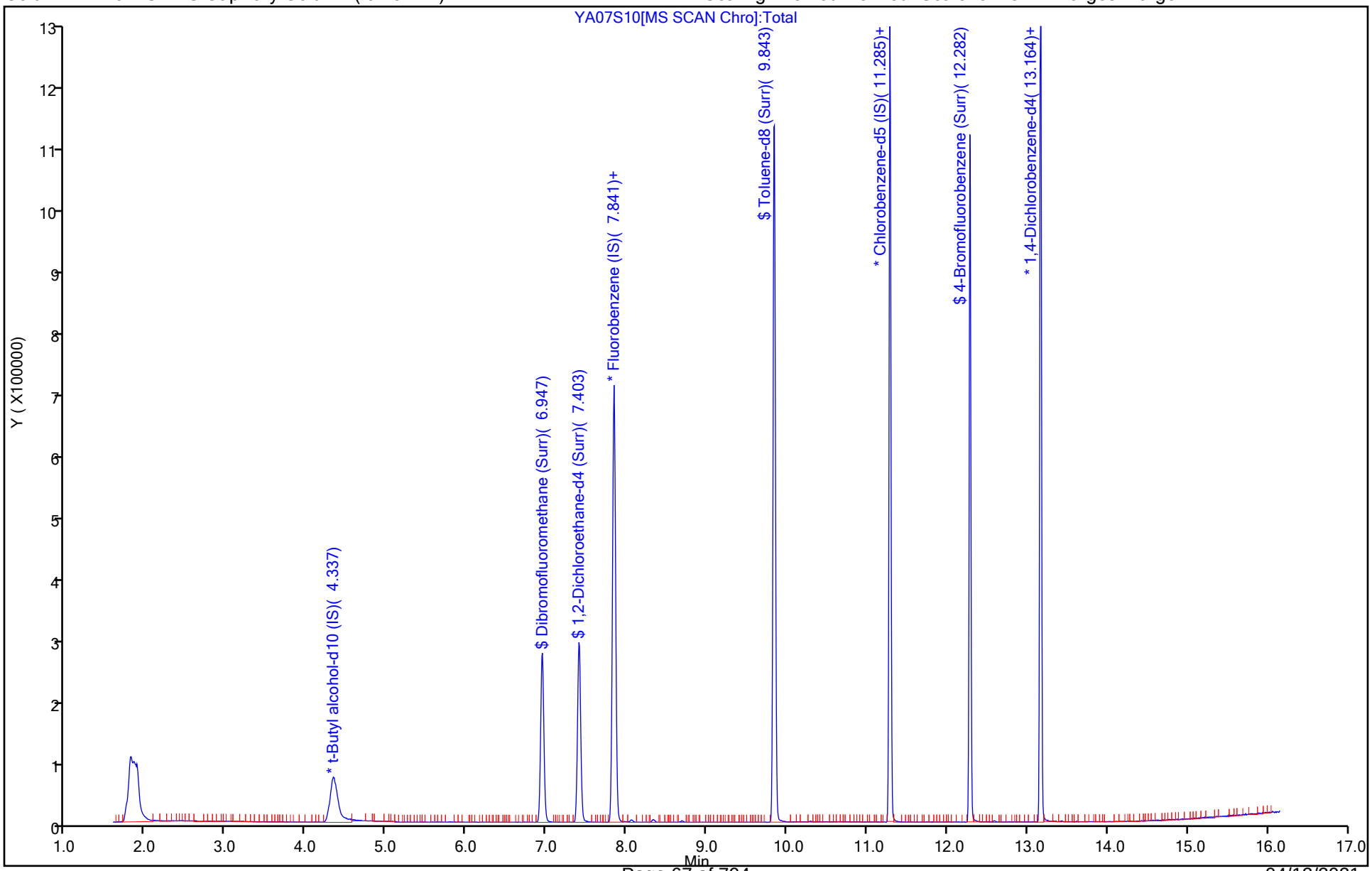
Report Date: 08-Apr-2021 00:00:44 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S10.D

Injection Date:	07-Apr-2021 15:55:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-3	Lab Sample ID:	410-34553-3	Worklist Smp#:	17
Client ID:	MW-10D-20210331				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-7S-20210331 Lab Sample ID: 410-34553-4

Matrix: Groundwater Lab File ID: YA07S05.D

Analysis Method: 8260C Date Collected: 03/31/2021 14:45

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 14:05

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.31	J	1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S05.D
Lims ID: 410-34553-A-4
Client ID: MW-7S-20210331
Sample Type: Client
Inject. Date: 07-Apr-2021 14:05:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-012
Misc. Info.: 410-34553-A-4
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 21:30:21 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 21:30:21

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.989				ND	
2	Dichlorodifluoromethane	85		2.038				ND	
3	Chlorodifluoromethane	51	2.056	2.044	0.012	95	6176	1.31	
4	Chloromethane	50		2.244				ND	
6	Vinyl chloride	62		2.366				ND	7
5	Butadiene	39		2.366				ND	7
7	2-Chloro-1,1,1-Trifluoroethane	118		2.427				ND	
8	Bromomethane	94		2.707				ND	
9	Chloroethane	64		2.786				ND	
10	Dichlorofluoromethane	67	3.029	3.035	-0.006	92	7532	1.07	
11	Trichlorofluoromethane	101		3.108				ND	
12	Pentane	43		3.133				ND	
13	Ethanol	45		3.193				ND	
14	Ethyl ether	59		3.346				ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		3.431				ND	
16	Acrolein	56		3.510				ND	
17	1,1-Dichloroethene	96		3.680				ND	
18	Acetone	58	3.686	3.680	0.006	99	580	0.4678	
19	112TCTFE	101		3.711				ND	
20	Isopropyl alcohol	45		3.851				ND	
21	Iodomethane	142		3.887				ND	
22	Carbon disulfide	76		4.027				ND	
23	Acetonitrile	41		4.033				ND	
24	Methyl acetate	43		4.118				ND	
25	3-Chloro-1-propene	41		4.149				ND	
* 26	t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	308935	250.0	
27	Methylene Chloride	84		4.355				ND	
28	2-Methyl-2-propanol	59		4.465				ND	
30	Acrylonitrile	53		4.660				ND	
31	Methyl tert-butyl ether	73		4.763				ND	
32	trans-1,2-Dichloroethene	96		4.775				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Hexane	57		5.201				ND	
34 Vinyl acetate	43		5.408				ND	
35 1,1-Dichloroethane	63		5.420				ND	
36 Isopropyl ether	45		5.481				ND	
37 2-Chloro-1,3-butadiene	53		5.536				ND	
38 Tert-butyl ethyl ether	59		6.022				ND	
S 39 1,2-Dichloroethene, Total	100		6.155				ND	7
40 2-Butanone (MEK)	43		6.205				ND	
41 cis-1,2-Dichloroethene	96		6.247				ND	
42 Ethyl acetate	43		6.272				ND	
43 2,2-Dichloropropane	77		6.272				ND	
44 Propionitrile	54		6.284				ND	
45 Methacrylonitrile	67		6.503				ND	
46 Chlorobromomethane	128		6.582				ND	
47 Tetrahydrofuran	71		6.606				ND	
48 Chloroform	83		6.728				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	94	230204	55.5	
50 1,1,1-Trichloroethane	97		6.965				ND	
51 Cyclohexane	56		7.081				ND	
52 1,1-Dichloropropene	75		7.178				ND	
53 Carbon tetrachloride	117		7.184				ND	
54 Isobutyl alcohol	41		7.294				ND	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	56843	51.8	
56 Benzene	78	7.440	7.440	0.000	84	7174	0.3073	
57 Isopropyl acetate	43		7.501				ND	
58 1,2-Dichloroethane	62	7.513	7.507	0.006	81	1282	0.1568	
59 Tert-amyl methyl ether	73		7.635				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	897029	50.0	
60 t-Amyl alcohol	73	7.841	7.842	-0.001	35	11103	NC	
62 n-Heptane	43		7.854				ND	
63 n-Butanol	56		8.170				ND	
64 Trichloroethene	95		8.328				ND	
65 Methylcyclohexane	83		8.644				ND	
66 1,2-Dichloropropane	63		8.650				ND	
67 2-ethoxy-2-methyl butane	87		8.657				ND	
68 Methyl methacrylate	69		8.723				ND	
69 1,4-Dioxane	88		8.742				ND	
70 Dibromomethane	93		8.766				ND	
71 n-Propyl acetate	61		8.796				ND	
72 Dichlorobromomethane	83		8.997				ND	
73 2-Nitropropane	41		9.241				ND	
74 2-Chloroethyl vinyl ether	63		9.338				ND	
75 cis-1,3-Dichloropropene	75		9.533				ND	
76 4-Methyl-2-pentanone (MIBK)	43		9.685				ND	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	93	882958	48.5	
78 Toluene	92		9.916				ND	
79 1,3-Dichlorobutene-2(total)	89		10.000				ND	7
T 209 Bromoethane TIC	108	13.164	10.000	3.164	1	1185	0.0661	
T 208 1,3-Dichlorobutene-2(total) TIC	89	11.285	10.000	1.285	8	5908	0.3293	7
S 80 1,3-Dichloropropene, Total	100		10.060				ND	7
81 trans-1,3-Dichloropropene	75		10.159				ND	
82 Ethyl methacrylate	69		10.220				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	97		10.366				ND	
84 Tetrachloroethene	166		10.463				ND	
85 1,3-Dichloropropane	76		10.524				ND	
86 3,4-Dichloro-1-butene	75		10.561				ND	
87 2-Hexanone	43		10.567				ND	
88 n-Butyl acetate	43		10.688				ND	
89 Chlorodibromomethane	129		10.743				ND	
90 Ethylene Dibromide	107		10.859				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	695818	50.0	
92 1-Chlorohexane	91		11.291				ND	U
94 Chlorobenzene	112		11.315				ND	
95 1,1,1,2-Tetrachloroethane	131		11.394				ND	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	7
98 o-Xylene	106		11.838				ND	
99 Styrene	104		11.850				ND	
100 Bromoform	173		12.015				ND	
101 Isopropylbenzene	105	12.136	12.136	0.000	95	5556	0.2029	
102 cis-1,4-Dichloro-2-butene	88		12.173				ND	
103 Cyclohexanone	55		12.209				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	323356	47.7	
105 1,1,2,2-Tetrachloroethane	83		12.374				ND	
107 Bromobenzene	156		12.398				ND	
106 trans-1,4-Dichloro-2-butene	53		12.398				ND	
108 1,2,3-Trichloropropane	110		12.422				ND	
109 N-Propylbenzene	91		12.465				ND	7
110 2-Chlorotoluene	126		12.544				ND	
111 1,3,5-Trimethylbenzene	105	12.562	12.599	-0.037	85	4168	0.1656	
112 4-Chlorotoluene	126		12.635				ND	
113 2,3,4-Trichlorobutene	109		12.647				ND	
114 tert-Butylbenzene	134		12.842				ND	
115 Pentachloroethane	167		12.879				ND	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.000	96	5637	0.2168	
117 sec-Butylbenzene	105		13.006				ND	
118 1,3-Dichlorobenzene	146		13.110				ND	
119 4-Isopropyltoluene	119		13.116				ND	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	397062	50.0	
121 1,4-Dichlorobenzene	146		13.183				ND	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	90	2760	0.1022	
123 Benzyl chloride	91		13.256				ND	7
124 1,3-Diethylbenzene	119		13.310				ND	7
125 p-Diethylbenzene	119		13.383				ND	7
126 n-Butylbenzene	92		13.408				ND	
127 1,2-Dichlorobenzene	146		13.438				ND	
128 o-diethylbenzene	119		13.457				ND	
129 Hexachloroethane	201		13.560				ND	
130 1,2-Dibromo-3-Chloropropane	75		13.980				ND	
131 1,3,5-Trichlorobenzene	180		14.114				ND	
132 1,2,4-Trichlorobenzene	180		14.533				ND	
133 Hexachlorobutadiene	225		14.618				ND	
134 Naphthalene	128		14.716				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
135 1,2,3-Trichlorobenzene	180		14.862				ND	
136 2-Methylnaphthalene	142		15.507				ND	
137 C4-C10	1		0.000				ND	
172 Propene oxide	1		0.000				ND	
173 Methyl acrylate	1		0.000				ND	
174 1,3-Divinylbenzene	1		0.000				ND	
175 Ethyl bromide	1		0.000				ND	
176 Chloroacetonitrile	1		0.000				ND	
S 177 divinyl benzene	1		0.000				ND	7
198 beta-Propiolactone TIC	1		0.000				ND	
197 n-Propylamine (TIC)	1		0.000				ND	
180 Dodecane	57		0.000				ND	
181 Butane	1		0.000				ND	
182 2,3-Dibromo-1-propanol TIC	1		0.000				ND	
183 1-Methyl-2-pyrrilidinone TIC	1		0.000				ND	
184 2-Bromoethanol TIC	1		0.000				ND	
185 2-Chloroethanol TIC	1		0.000				ND	
196 1,3-Dichloro-2-propanol TIC	1		0.000				ND	
199 Propargyl alcohol TIC	1		0.000				ND	
188 Epichlorohydrin TIC	1		0.000				ND	
164 1-Bromo-2-chloroethane	1		0.000				ND	
163 C5-C12	1		0.000				ND	
162 Diethoxymethane	1		0.000				ND	
161 2,3-Dichloro-1,3-butadiene	1		0.000				ND	
160 cis-1,2,3-Trichlorobutene-2	1		0.000				ND	
141 Pentachloroethane TIC	1		0.000				ND	
148 1-Bromopropane TIC	1		0.000				ND	
149 Allyl Alcohol TIC	1		0.000				ND	
156 1-Chlorobutane	1		0.000				ND	
139 Nitrobenzene TIC	1		0.000				ND	
189 2-Bromo-3-chloropropene TIC	1		0.000				ND	
190 Ethylene oxide TIC	1		0.000				ND	
191 2,3-Dibromopropene TIC	1		0.000				ND	
192 3-Chloro-1,2-propanediol TIC	1		0.000				ND	
193 1-Bromo-2-chloroethane TIC	1		0.000				ND	
194 1,2,3,4-Diepoxybutane (TIC)	1		0.000				ND	
195 N-Nitrosodi-n-butylamine TIC	1		0.000				ND	
138 C6-C10	1		0.000				ND	
140 Chloroacetaldehyde TIC	1		0.000				ND	
157 1,4-Divinylbenzene	1		0.000				ND	
210 Propene oxide TIC	1		0.000				ND	
179 n-Decane	57		0.000				ND	
143 Methanol TIC	1		0.000				ND	
144 Bromoacetone (TIC)	1		0.000				ND	
145 Epibromohydrin TIC	1		0.000				ND	
146 Paraldehyde TIC	1		0.000				ND	
147 Pentafluorobenzene TIC	1		0.000				ND	
153 o-toluidine TIC	1		0.000				ND	
167 3-chloro-1-Butene	1		0.000				ND	
150 Vinyl acetate (TIC)	1		0.000				ND	
151 2-Picoline (TIC)	1		0.000				ND	
169 Ethyl acrylate	55		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
152 Vinyl bromide TIC	1		0.000				ND	
154 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000				ND	
155 C4-C12	1		0.000				ND	
S 166 Total Diethylbenzene	1		0.000				ND	7
165 C6-C12	1		0.000				ND	
158 trans-1,2,3-Trichlorobutene-2	1		0.000				ND	
201 Malononitrile (TIC)	1		0.000				ND	
211 Acetonitrile TIC	1		0.000				ND	
212 Propane TIC	1		0.000				ND	
213 Propionaldehyde TIC	1		0.000				ND	
214 1-Chlorobutane TIC	1		0.000				ND	
215 Isooctane TIC	1		0.000				ND	
159 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
216 n-butyl Acetate TIC	1		0.000				ND	
186 Monochloroacetic acid TIC	1		0.000				ND	
178 Methylal	1		0.000				ND	
219 Ethyl Acetate TIC	1		0.000				ND	
171 Hexachloroethane TIC	1		0.000				ND	
168 2-Pentanone (TIC)	1		0.000				ND	
170 Ethanol TIC	1		0.000				ND	
202 tert-Butyl Formate	1		0.000				ND	
187 Bis(2-chloroethyl)sulfide (TIC)	1		0.000				ND	
200 Propanol TIC	1		0.000				ND	
217 Ethyl acrylate TIC	1		0.000				ND	
218 Ethyl ether TIC	1		0.000				ND	
142 Chloral hydrate (TIC)	1		0.000				ND	
220 Chlorodifluoromethane 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_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

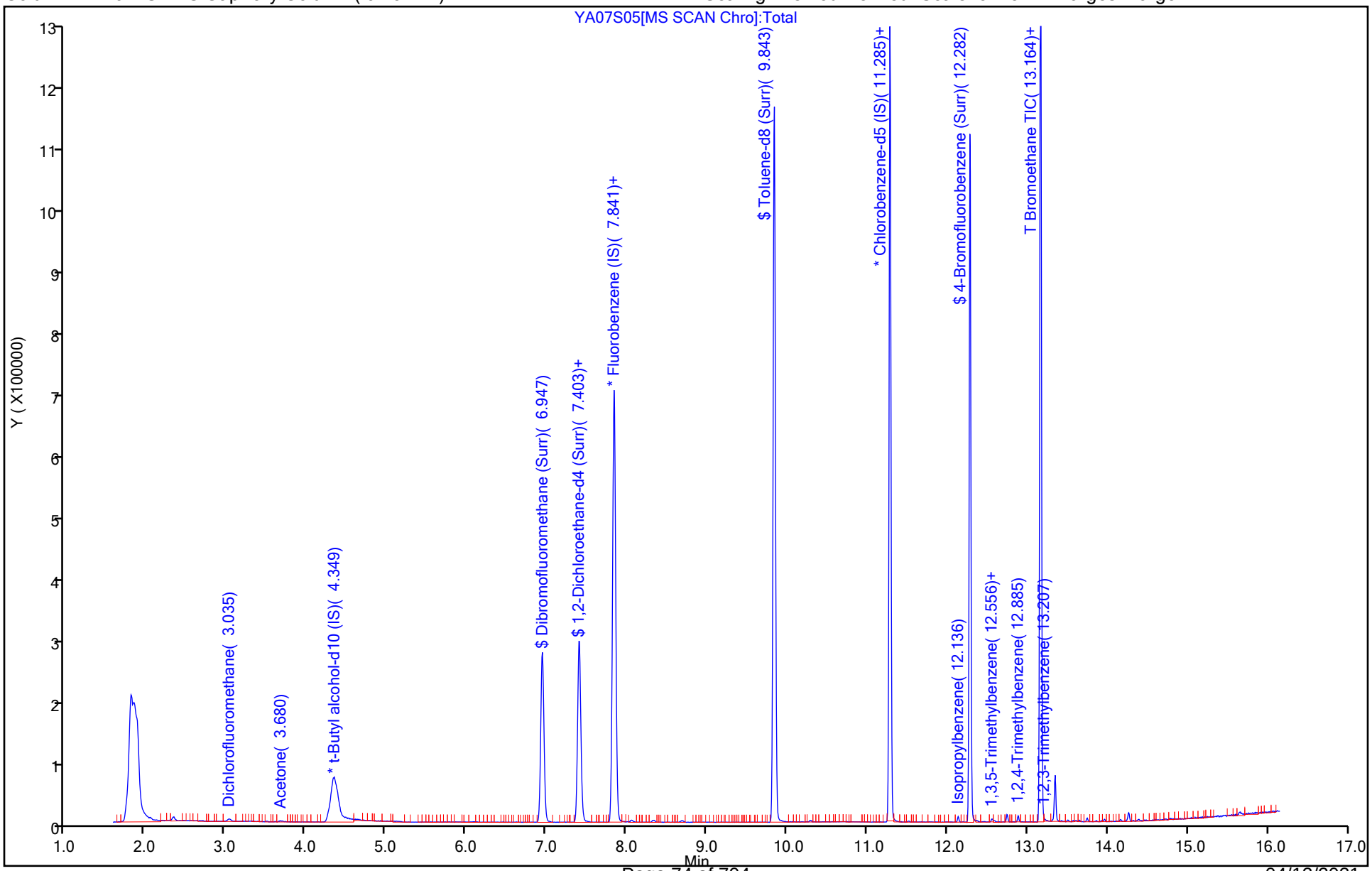
Report Date: 07-Apr-2021 21:30:39 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S05.D

Injection Date:	07-Apr-2021 14:05:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-4	Lab Sample ID:	410-34553-4	Worklist Smp#:	12
Client ID:	MW-7S-20210331				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

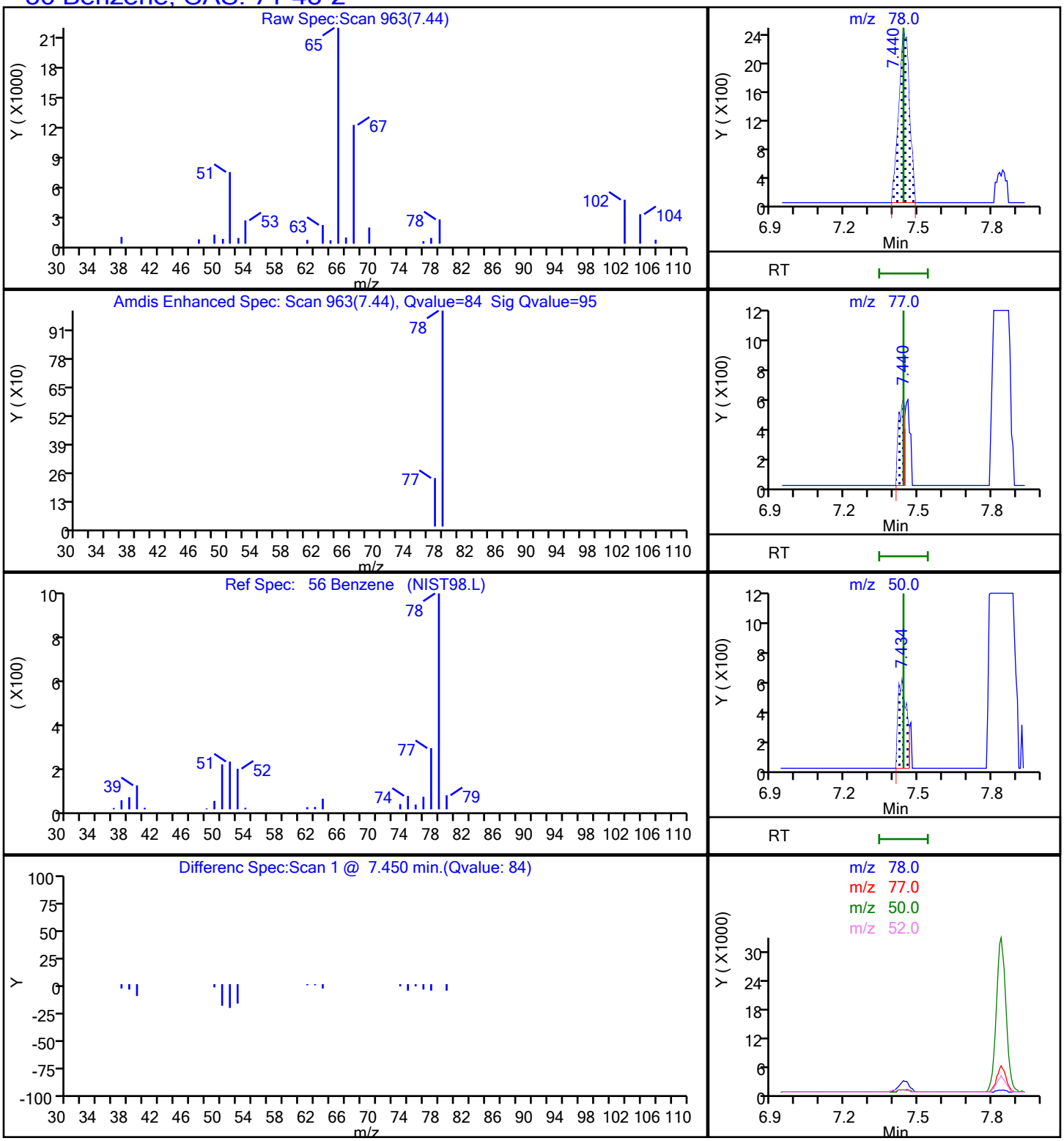
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S05.D				
Injection Date:	07-Apr-2021 14:05:30	Instrument ID:	9355		
Lims ID:	410-34553-A-4	Lab Sample ID:	410-34553-4		
Client ID:	MW-7S-20210331				
Operator ID:	lcp00895	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

56 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-7D-20210331 Lab Sample ID: 410-34553-5

Matrix: Groundwater Lab File ID: YA07S11.D

Analysis Method: 8260C Date Collected: 03/31/2021 15:38

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 16:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S11.D
Lims ID: 410-34553-A-5
Client ID: MW-7D-20210331
Sample Type: Client
Inject. Date: 07-Apr-2021 16:17:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-018
Misc. Info.: 410-34553-A-5
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:55:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.325	0.024	0	314729	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	94	235778	55.3	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	59465	52.6	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	922817	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	908030	48.3	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	719182	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	332974	47.5	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	406770	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

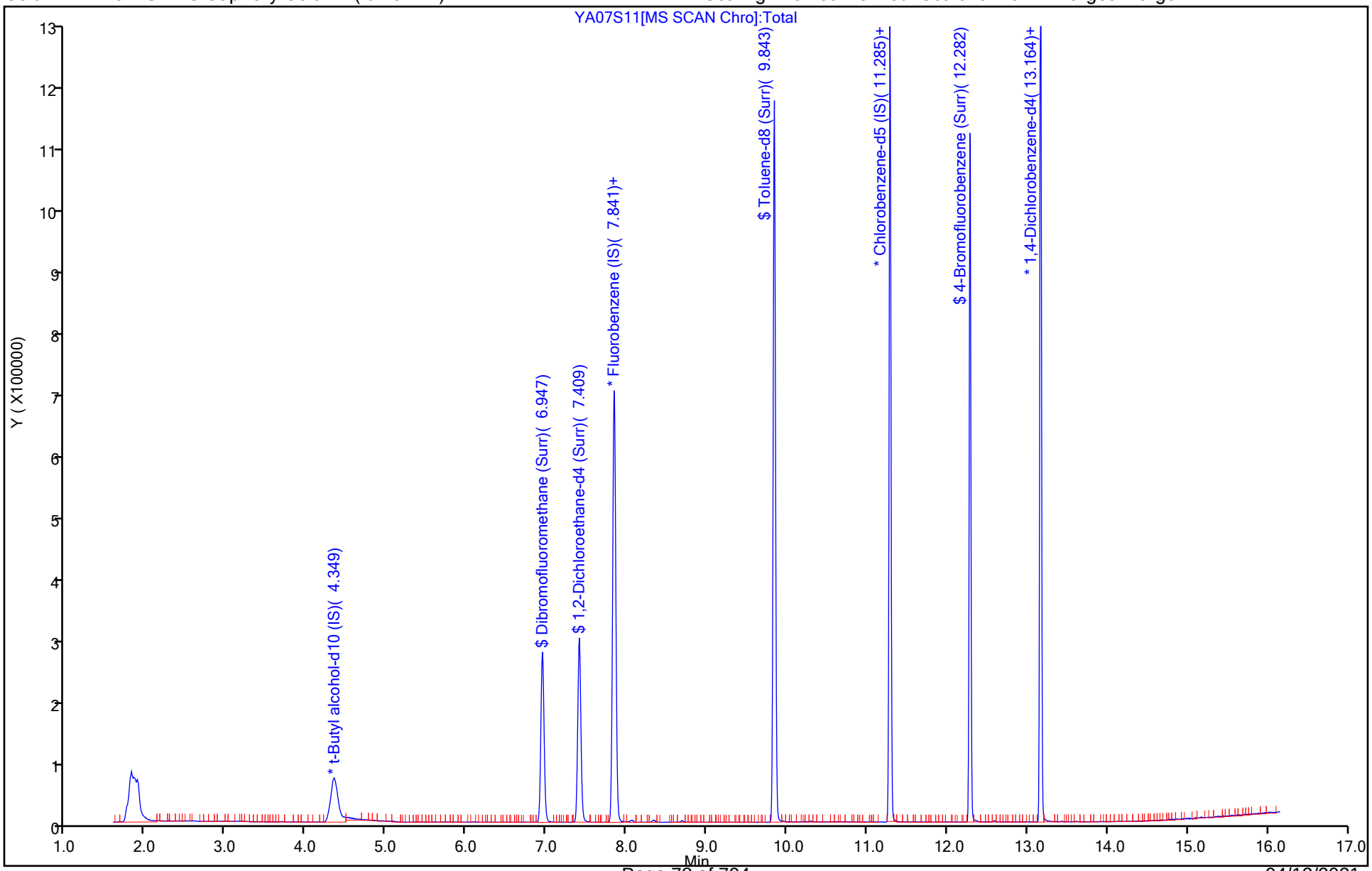
Report Date: 08-Apr-2021 00:00:44 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S11.D

Injection Date:	07-Apr-2021 16:17:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-5	Lab Sample ID:	410-34553-5	Worklist Smp#:	18
Client ID:	MW-7D-20210331				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-14S-20210331 Lab Sample ID: 410-34553-6

Matrix: Groundwater Lab File ID: YA07S12.D

Analysis Method: 8260C Date Collected: 03/31/2021 16:30

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 16:39

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S12.D
Lims ID: 410-34553-A-6
Client ID: MW-14S-20210331
Sample Type: Client
Inject. Date: 07-Apr-2021 16:39:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-019
Misc. Info.: 410-34553-A-6
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:56:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.325	0.024	0	290633	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	230313	55.2	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	57901	52.4	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.847	7.835	0.012	99	901974	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	886905	48.1	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	705559	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	327611	47.7	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	395424	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

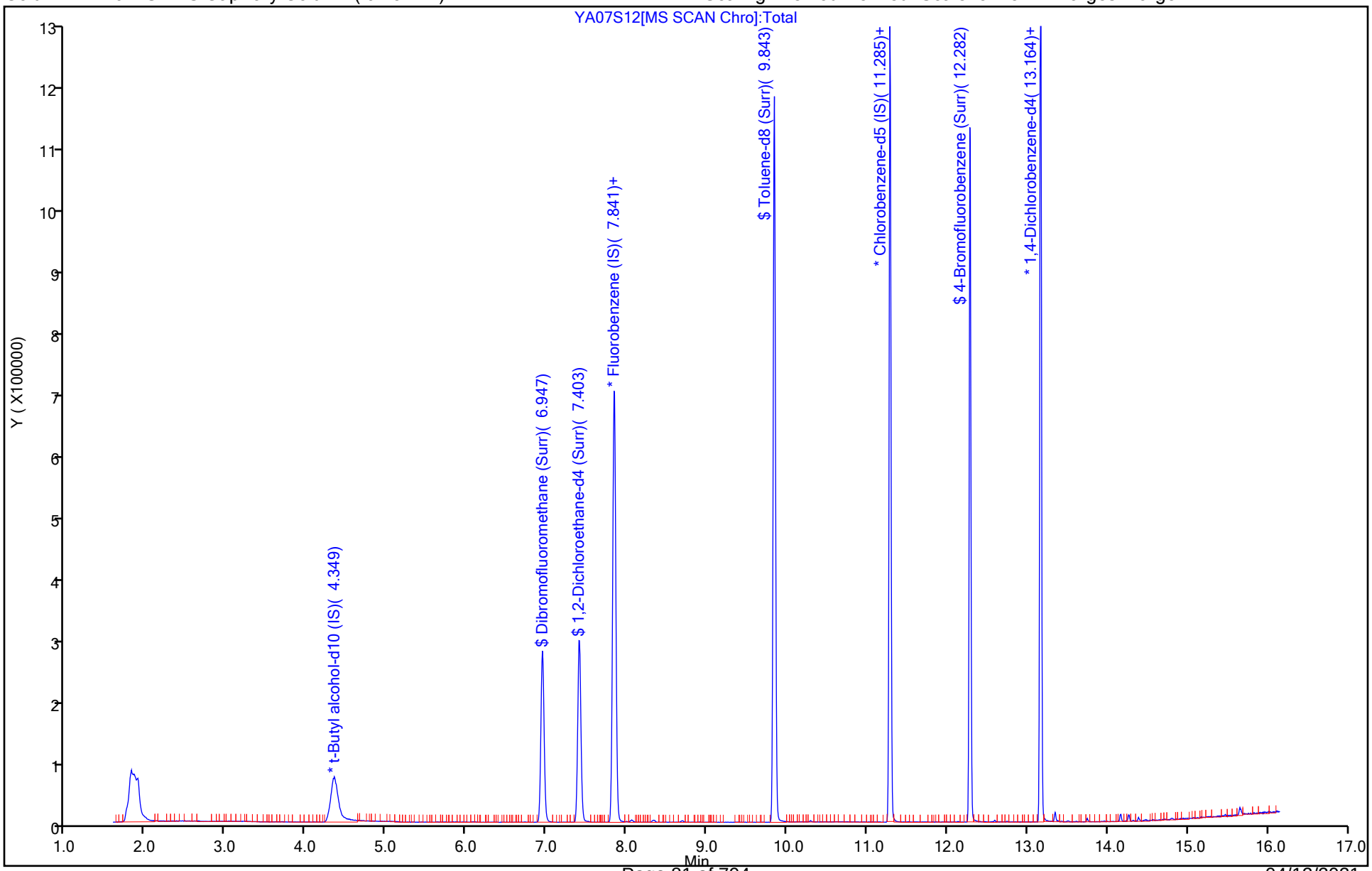
Report Date: 08-Apr-2021 00:00:45 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S12.D

Injection Date:	07-Apr-2021 16:39:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-6	Lab Sample ID:	410-34553-6	Worklist Smp#:	19
Client ID:	MW-14S-20210331				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-14D-20210331 Lab Sample ID: 410-34553-7

Matrix: Groundwater Lab File ID: YA07S13.D

Analysis Method: 8260C Date Collected: 03/31/2021 17:43

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 17:01

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S13.D
Lims ID: 410-34553-A-7
Client ID: MW-14D-20210331
Sample Type: Client
Inject. Date: 07-Apr-2021 17:01:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-020
Misc. Info.: 410-34553-A-7
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:56:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.331	4.325	0.006	0	283186	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	93	219490	55.1	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	54931	52.1	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	861110	50.0	
$ 77 Toluene-d8 (Surr)	98	9.837	9.837	0.000	94	843409	47.8	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	674856	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	306348	46.6	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.001	94	378645	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

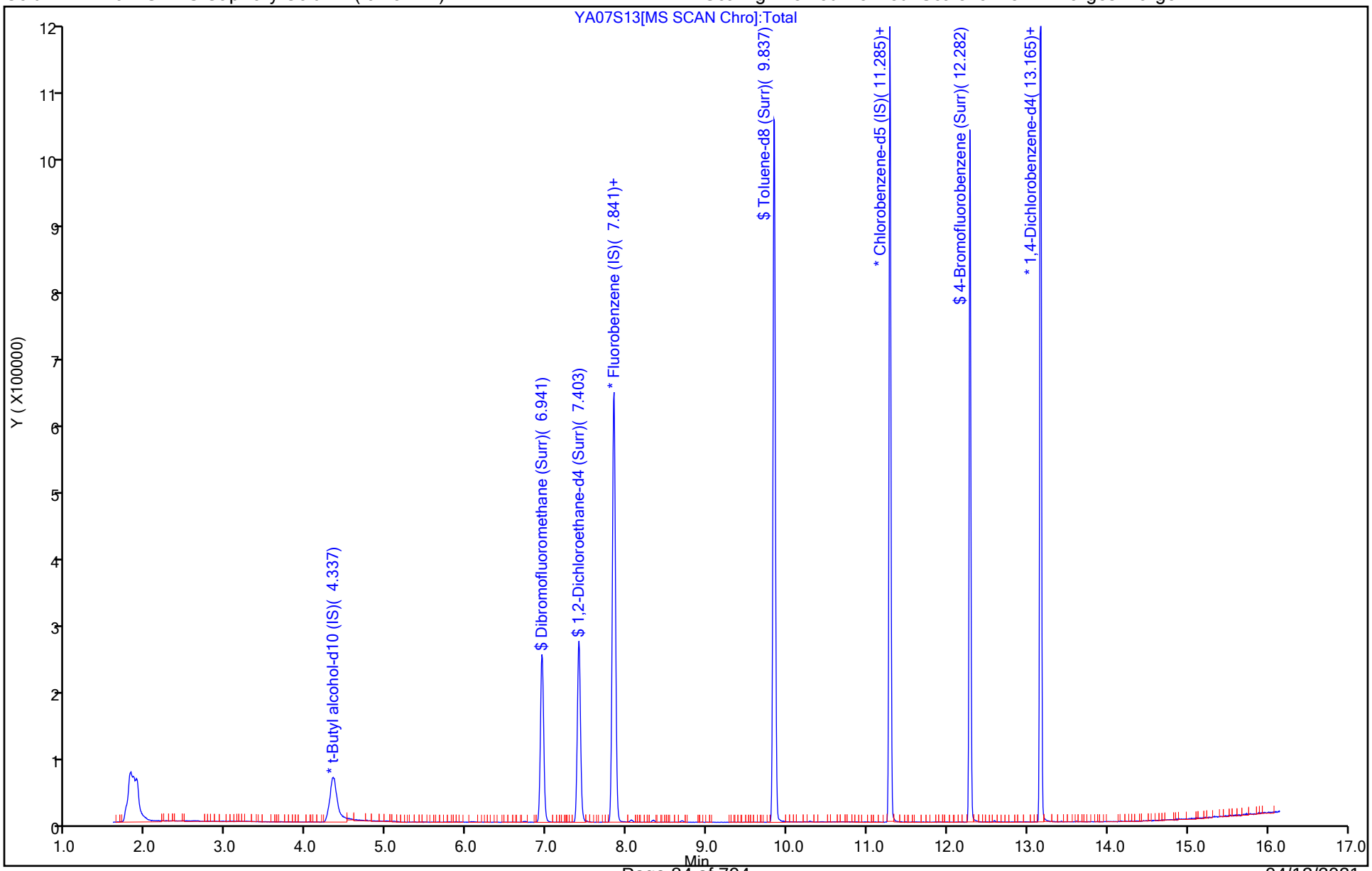
Report Date: 08-Apr-2021 00:00:46 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S13.D

Injection Date:	07-Apr-2021 17:01:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-7	Lab Sample ID:	410-34553-7	Worklist Smp#:	20
Client ID:	MW-14D-20210331				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-8S-20210401 Lab Sample ID: 410-34553-8

Matrix: Groundwater Lab File ID: YA07S14.D

Analysis Method: 8260C Date Collected: 04/01/2021 11:20

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 17:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	0.21	J	1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S14.D
Lims ID: 410-34553-A-8
Client ID: MW-8S-20210401
Sample Type: Client
Inject. Date: 07-Apr-2021 17:23:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-021
Misc. Info.: 410-34553-A-8
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:57:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.337	4.325	0.012	0	279541	250.0	
31 Methyl tert-butyl ether	73	4.757	4.763	-0.006	84	3562	0.2066	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	222049	55.5	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	55328	52.3	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	864484	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	850005	48.2	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	674046	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	312804	47.7	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.000	94	382182	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

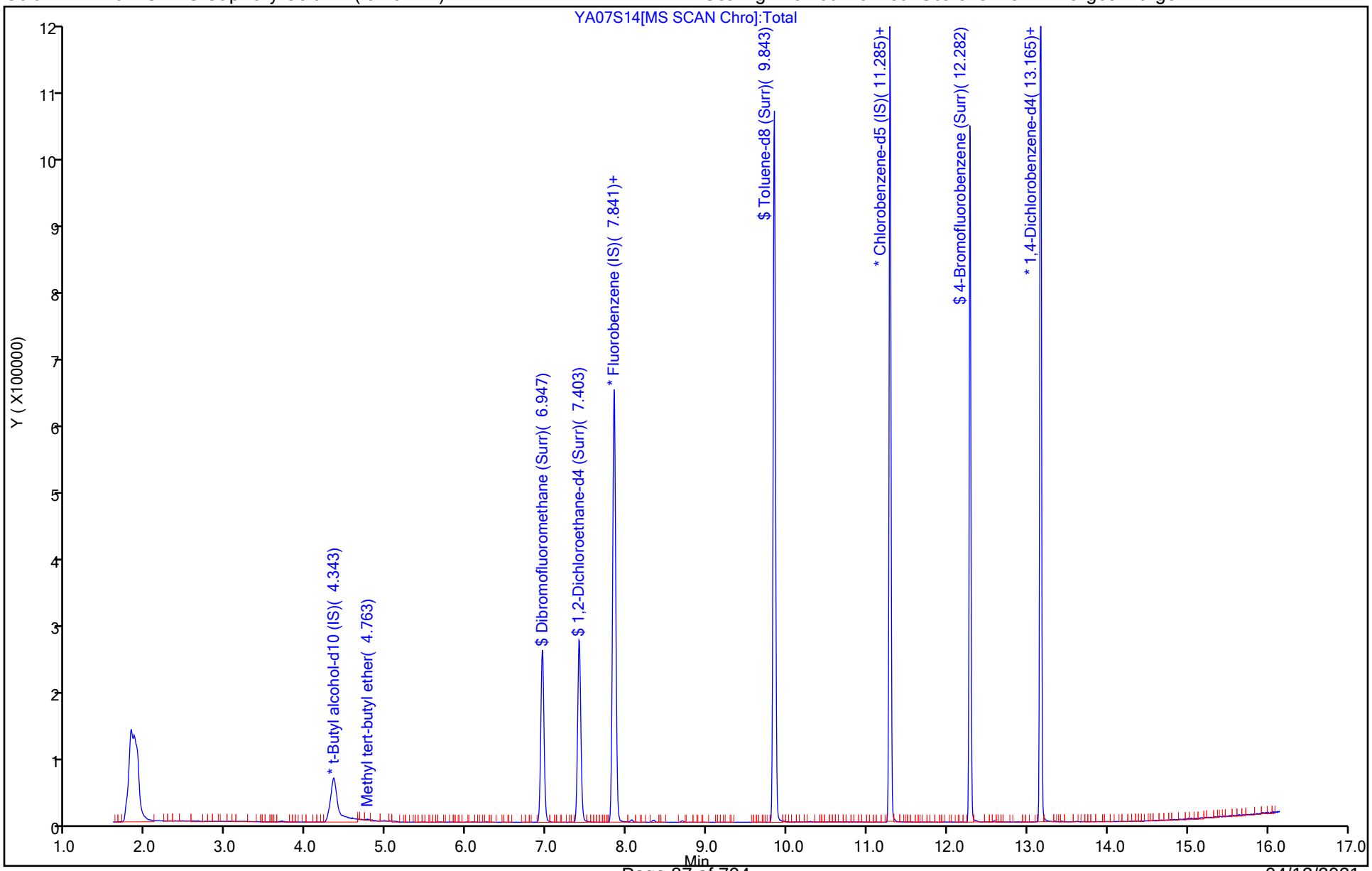
Report Date: 08-Apr-2021 00:00:47 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S14.D

Injection Date:	07-Apr-2021 17:23:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-8	Lab Sample ID:	410-34553-8	Worklist Smp#:	21
Client ID:	MW-8S-20210401				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 08-Apr-2021 00:00:47 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S14.D

Injection Date: 07-Apr-2021 17:23:30 Instrument ID: 9355

Lims ID: 410-34553-A-8 Lab Sample ID: 410-34553-8

Client ID: MW-8S-20210401

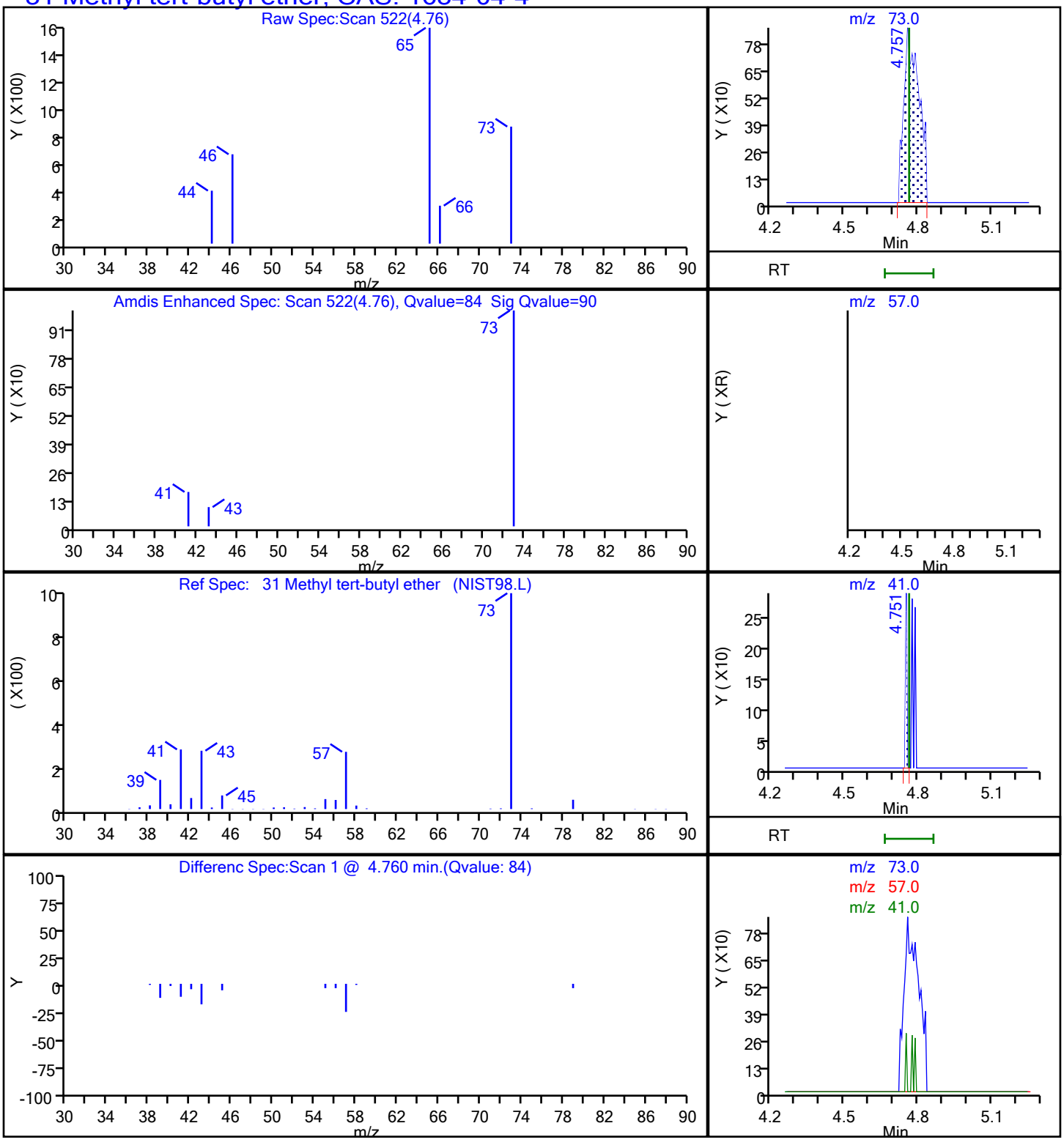
Operator ID: lcp00895 ALS Bottle#: 20 Worklist Smp#: 21

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

31 Methyl tert-butyl ether, CAS: 1634-04-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-8D-20210401 Lab Sample ID: 410-34553-9

Matrix: Groundwater Lab File ID: YA07S16.D

Analysis Method: 8260C Date Collected: 04/01/2021 11:59

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 18:08

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	113		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S16.D
Lims ID: 410-34553-A-9
Client ID: MW-8D-20210401
Sample Type: Client
Inject. Date: 07-Apr-2021 18:08:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-023
Misc. Info.: 410-34553-A-9
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:57:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	270760	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	212704	56.5	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	53440	53.6	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.847	7.835	0.012	99	814446	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	799275	47.8	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	640212	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	296118	47.5	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.001	95	360374	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

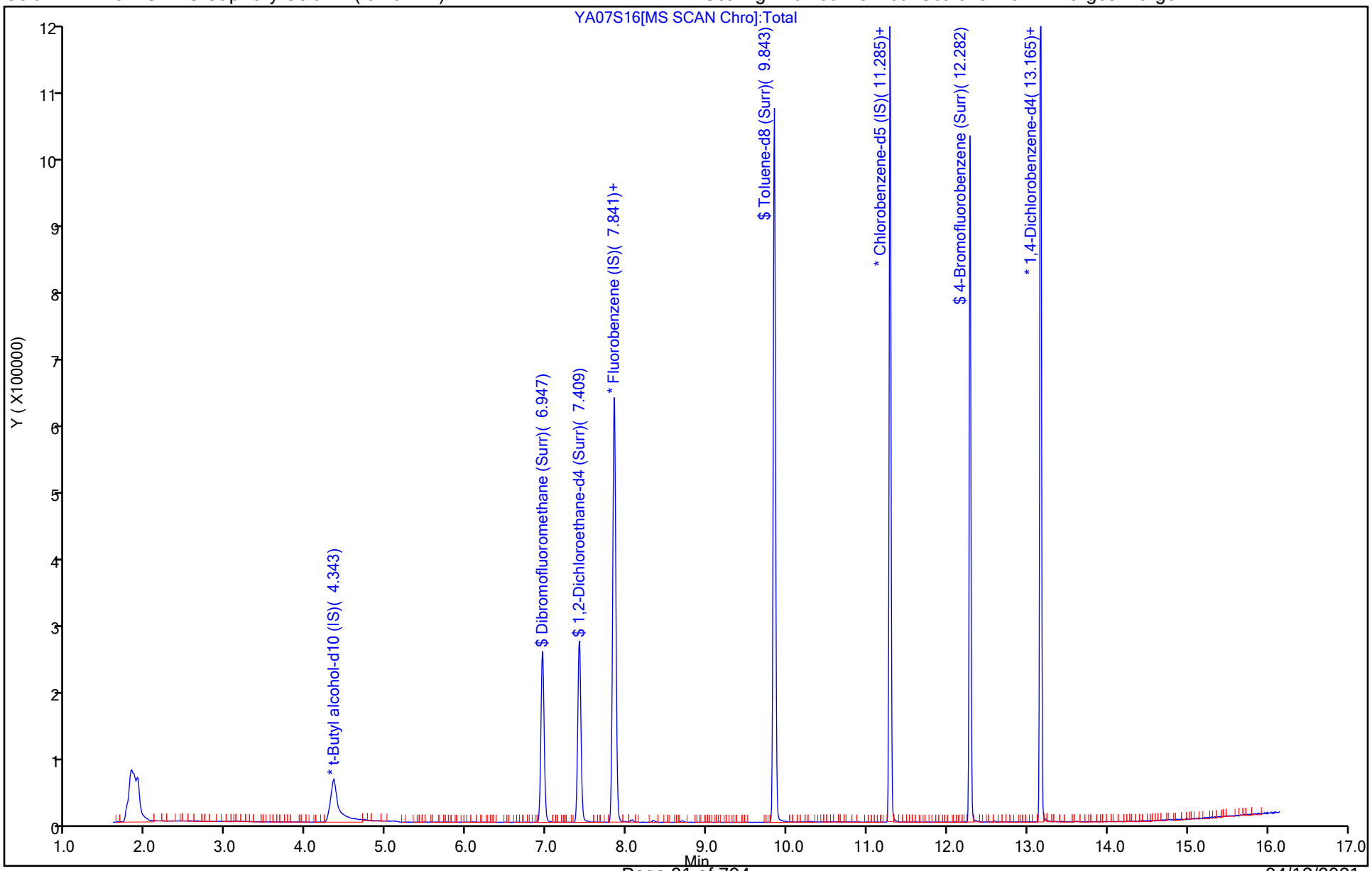
Report Date: 08-Apr-2021 00:00:49 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S16.D

Injection Date:	07-Apr-2021 18:08:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-9	Lab Sample ID:	410-34553-9	Worklist Smp#:	23
Client ID:	MW-8D-20210401				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-12S-20210401 Lab Sample ID: 410-34553-10

Matrix: Groundwater Lab File ID: YA07S17.D

Analysis Method: 8260C Date Collected: 04/01/2021 13:31

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 18:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S17.D
Lims ID: 410-34553-A-10
Client ID: MW-12S-20210401
Sample Type: Client
Inject. Date: 07-Apr-2021 18:30:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-024
Misc. Info.: 410-34553-A-10
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:58:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.337	4.325	0.012	0	264833	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	93	209210	57.2	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	50681	52.4	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	790402	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	782657	47.7	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	627517	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	289117	47.3	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	353219	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

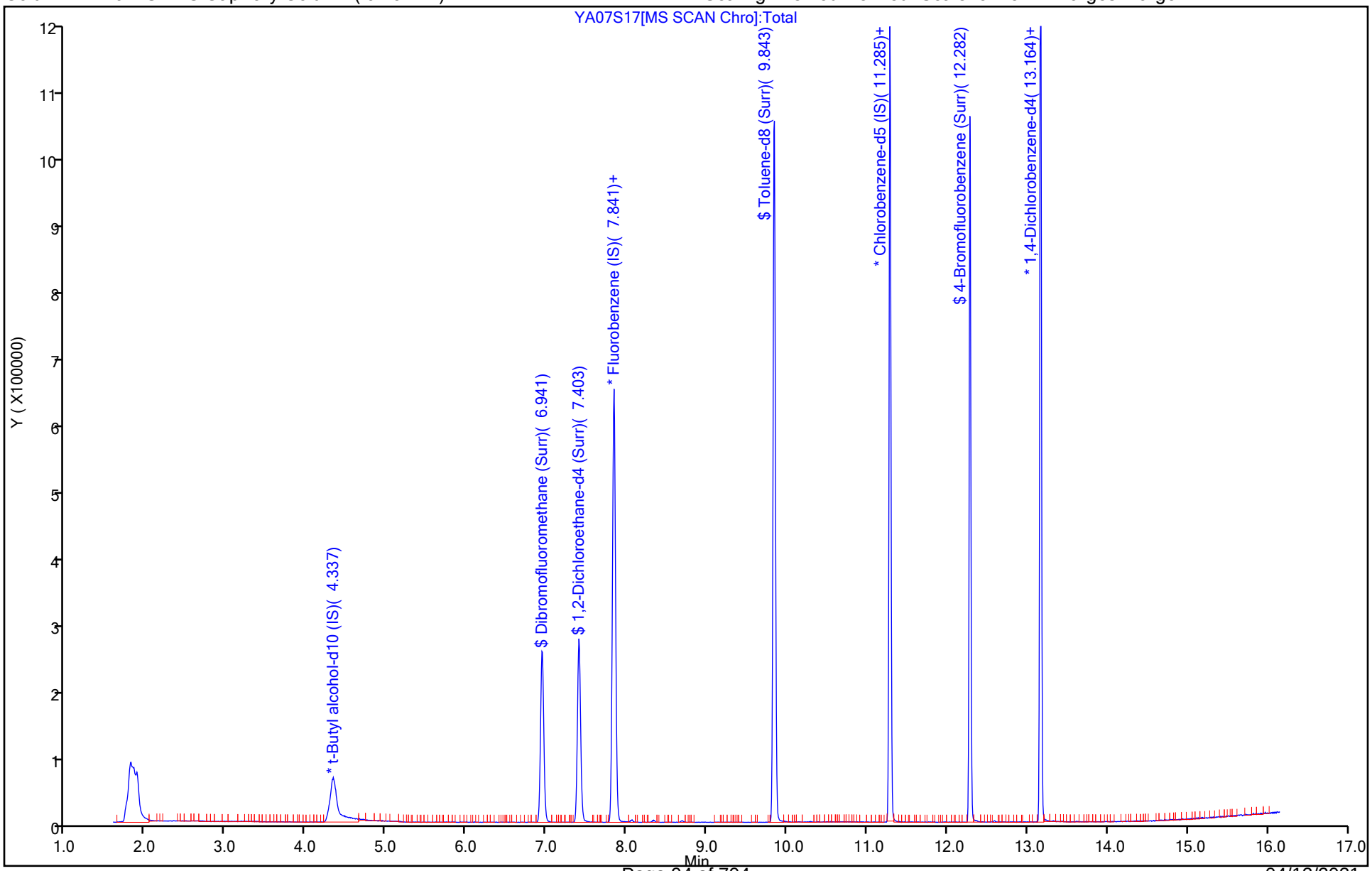
Report Date: 08-Apr-2021 00:00:51 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S17.D

Injection Date:	07-Apr-2021 18:30:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-10	Lab Sample ID:	410-34553-10	Worklist Smp#:	24
Client ID:	MW-12S-20210401				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-12D-20210401 Lab Sample ID: 410-34553-11

Matrix: Groundwater Lab File ID: YA07S18.D

Analysis Method: 8260C Date Collected: 04/01/2021 14:09

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 18:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S18.D
Lims ID: 410-34553-A-11
Client ID: MW-12D-20210401
Sample Type: Client
Inject. Date: 07-Apr-2021 18:52:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-025
Misc. Info.: 410-34553-A-11
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:58:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	257957	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	205824	57.2	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	50075	52.6	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.847	7.835	0.012	99	778070	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	771440	47.7	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.284	11.285	-0.001	85	618603	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	284140	47.2	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	348491	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

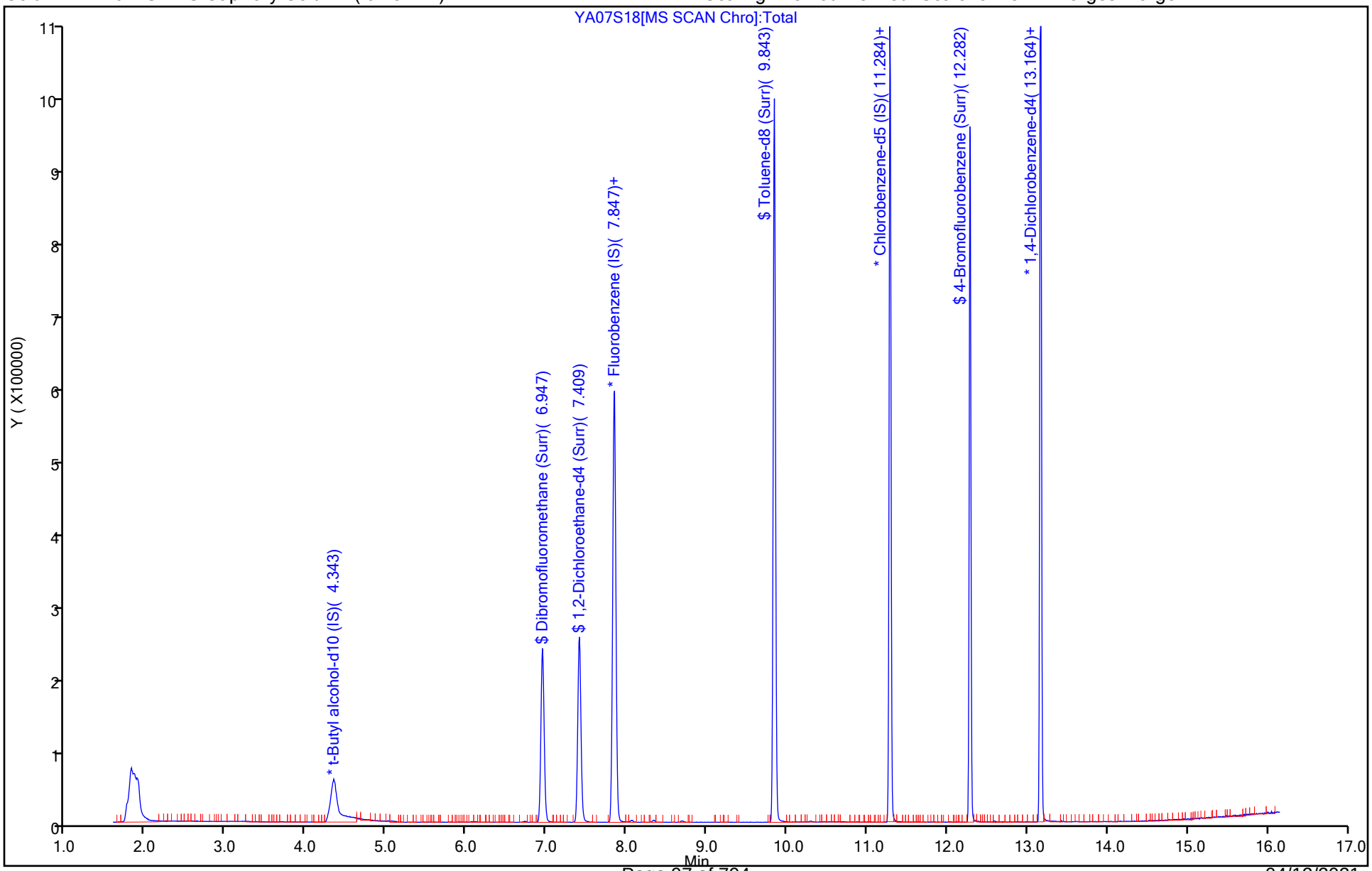
Report Date: 08-Apr-2021 00:00:52 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S18.D

Injection Date:	07-Apr-2021 18:52:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-11	Lab Sample ID:	410-34553-11	Worklist Smp#:	25
Client ID:	MW-12D-20210401				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-11S-20210401 Lab Sample ID: 410-34553-12

Matrix: Groundwater Lab File ID: YA07S19.D

Analysis Method: 8260C Date Collected: 04/01/2021 14:58

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 19:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.3		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	115		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S19.D
Lims ID: 410-34553-A-12
Client ID: MW-11S-20210401
Sample Type: Client
Inject. Date: 07-Apr-2021 19:14:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-026
Misc. Info.: 410-34553-A-12
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:58:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.337	4.325	0.012	0	257126	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	205967	57.7	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	49538	52.4	
56 Benzene	78	7.440	7.440	0.000	97	25841	1.29	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	772485	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	765041	47.5	
78 Toluene	92		9.916				ND	7
S 91 Xylenes, Total	106				0		0.9739	
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	616438	50.0	
96 Ethylbenzene	91		11.394				ND	7
97 m-Xylene & p-Xylene	106	11.516	11.510	0.006	98	5530	0.5517	
98 o-Xylene	106	11.838	11.838	0.000	97	4069	0.4223	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	291557	48.6	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.000	95	357109	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

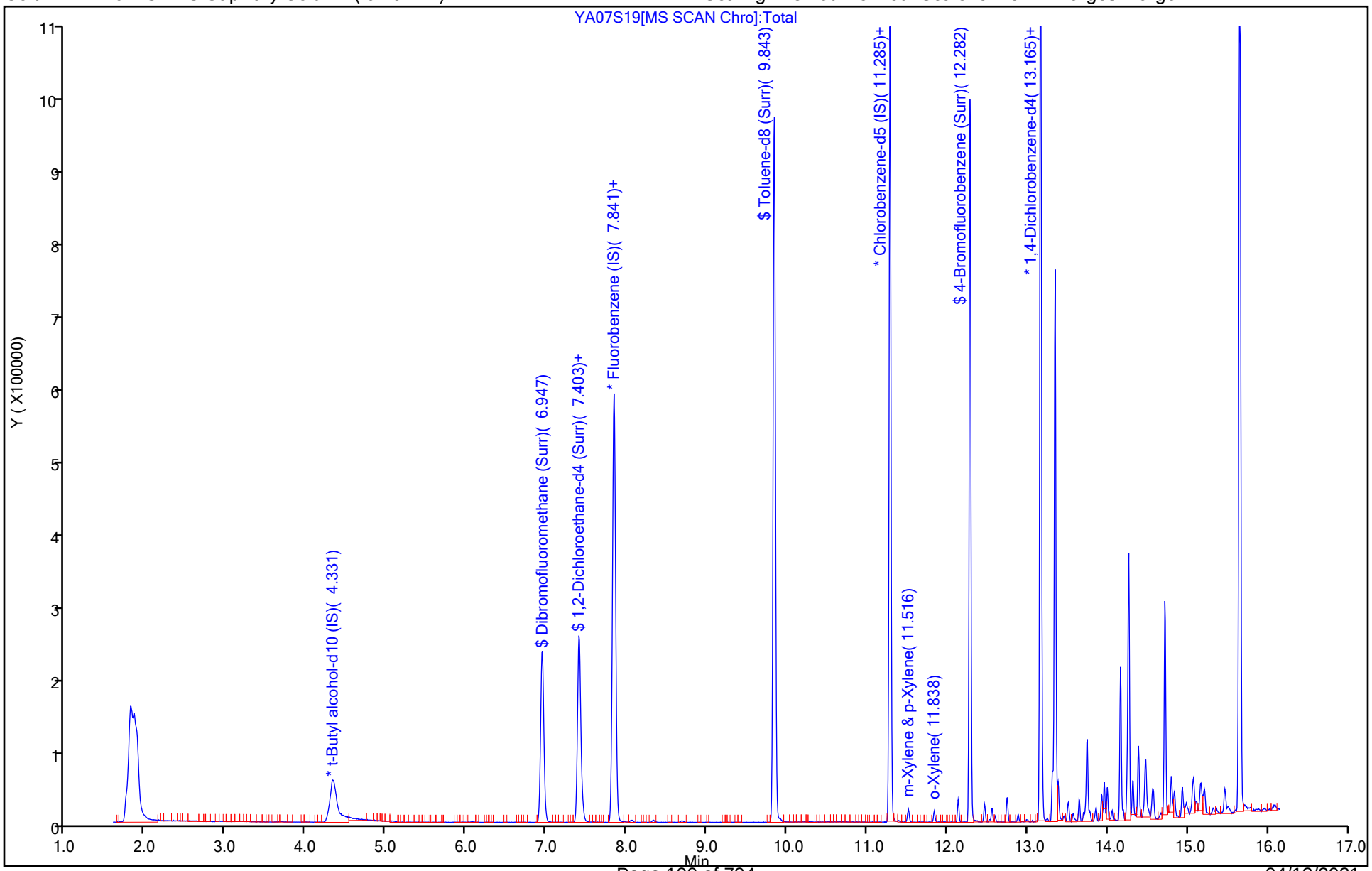
Report Date: 08-Apr-2021 00:00:53 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S19.D

Injection Date:	07-Apr-2021 19:14:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-12	Lab Sample ID:	410-34553-12	Worklist Smp#:	26
Client ID:	MW-11S-20210401				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

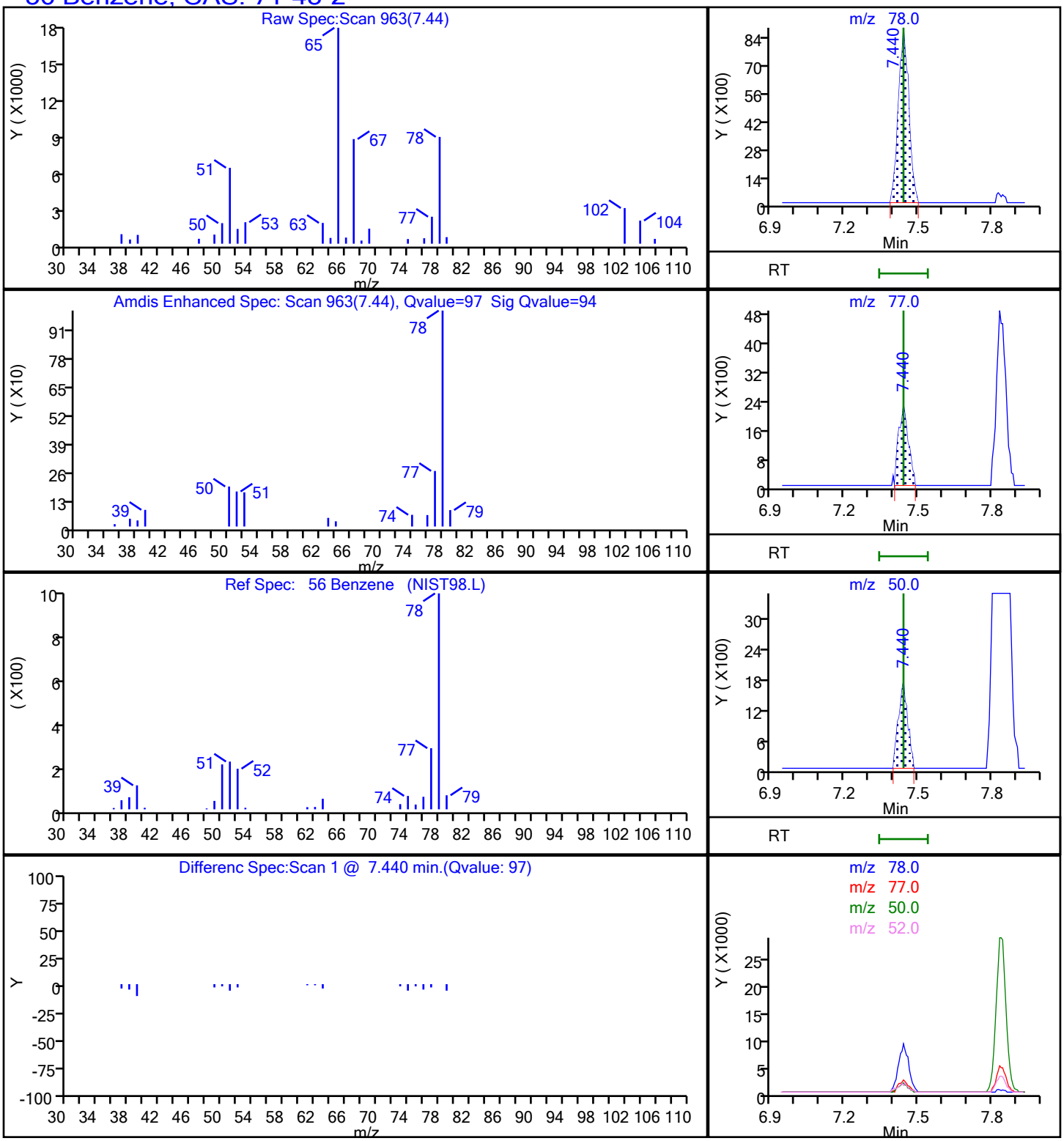
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S19.D				
Injection Date:	07-Apr-2021 19:14:30	Instrument ID:	9355		
Lims ID:	410-34553-A-12	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	lcp00895	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

56 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-11D-20210401 Lab Sample ID: 410-34553-13

Matrix: Groundwater Lab File ID: YA07S20.D

Analysis Method: 8260C Date Collected: 04/01/2021 15:38

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 19:36

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S20.D
Lims ID: 410-34553-A-13
Client ID: MW-11D-20210401
Sample Type: Client
Inject. Date: 07-Apr-2021 19:36:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-027
Misc. Info.: 410-34553-A-13
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:58:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	269362	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	205929	56.9	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	49321	51.5	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.847	7.835	0.012	99	782181	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	771428	48.2	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	612033	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	282306	47.4	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.000	95	351596	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

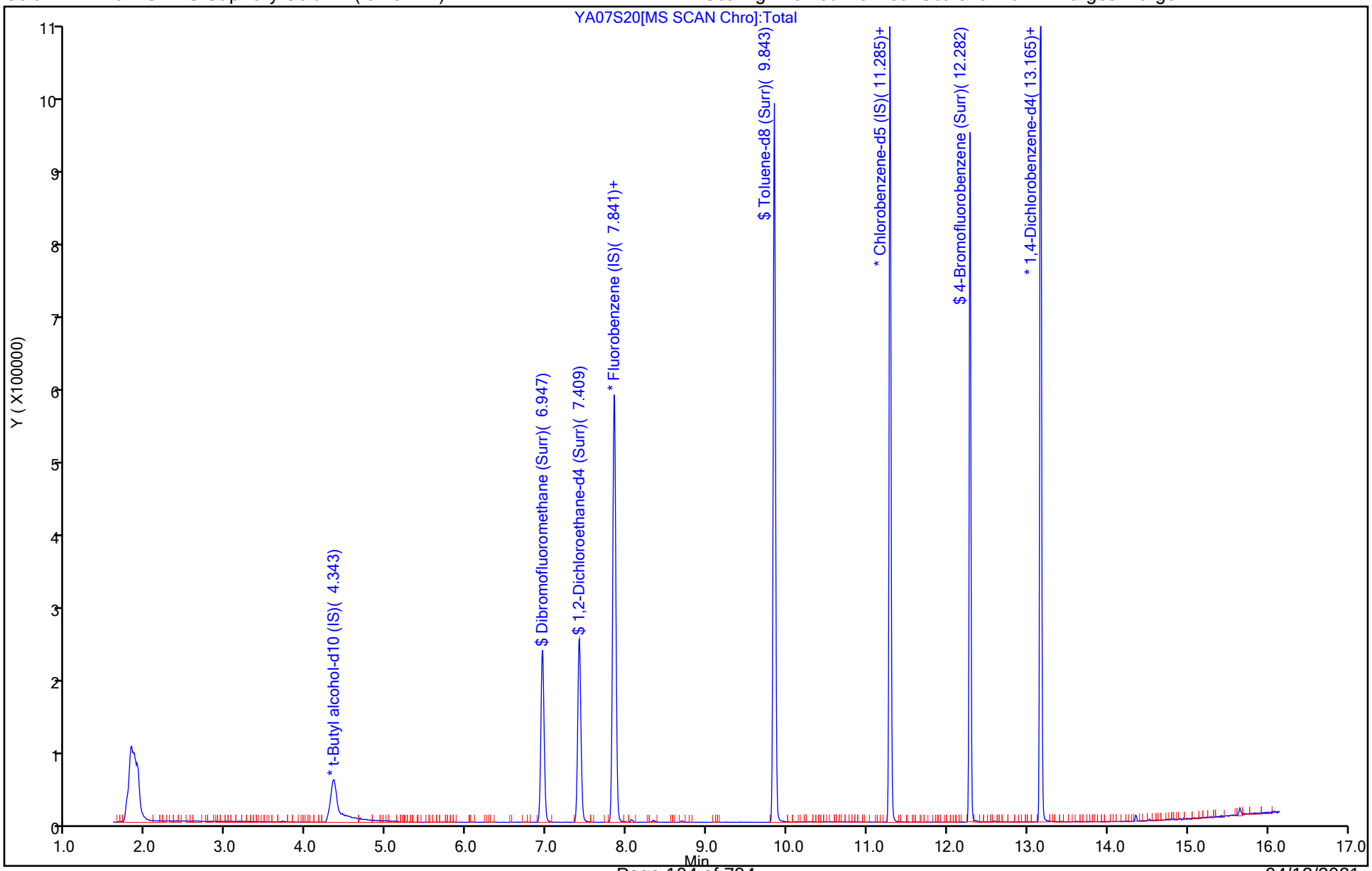
Report Date: 08-Apr-2021 00:00:54 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S20.D

Injection Date:	07-Apr-2021 19:36:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-13	Lab Sample ID:	410-34553-13	Worklist Smp#:	27
Client ID:	MW-11D-20210401				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-4S-20210402 Lab Sample ID: 410-34553-14

Matrix: Groundwater Lab File ID: YA07S21.D

Analysis Method: 8260C Date Collected: 04/02/2021 09:44

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 19:58

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.56	J	1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	115		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S21.D
Lims ID: 410-34553-A-14
Client ID: MW-4S-20210402
Sample Type: Client
Inject. Date: 07-Apr-2021 19:58:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-028
Misc. Info.: 410-34553-A-14
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:59:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.331	4.325	0.006	0	263483	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	93	203432	57.3	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	49059	52.2	
56 Benzene	78	7.434	7.440	-0.006	91	11220	0.5617	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	767402	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	761318	48.2	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	86	603711	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	283217	48.2	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	345882	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

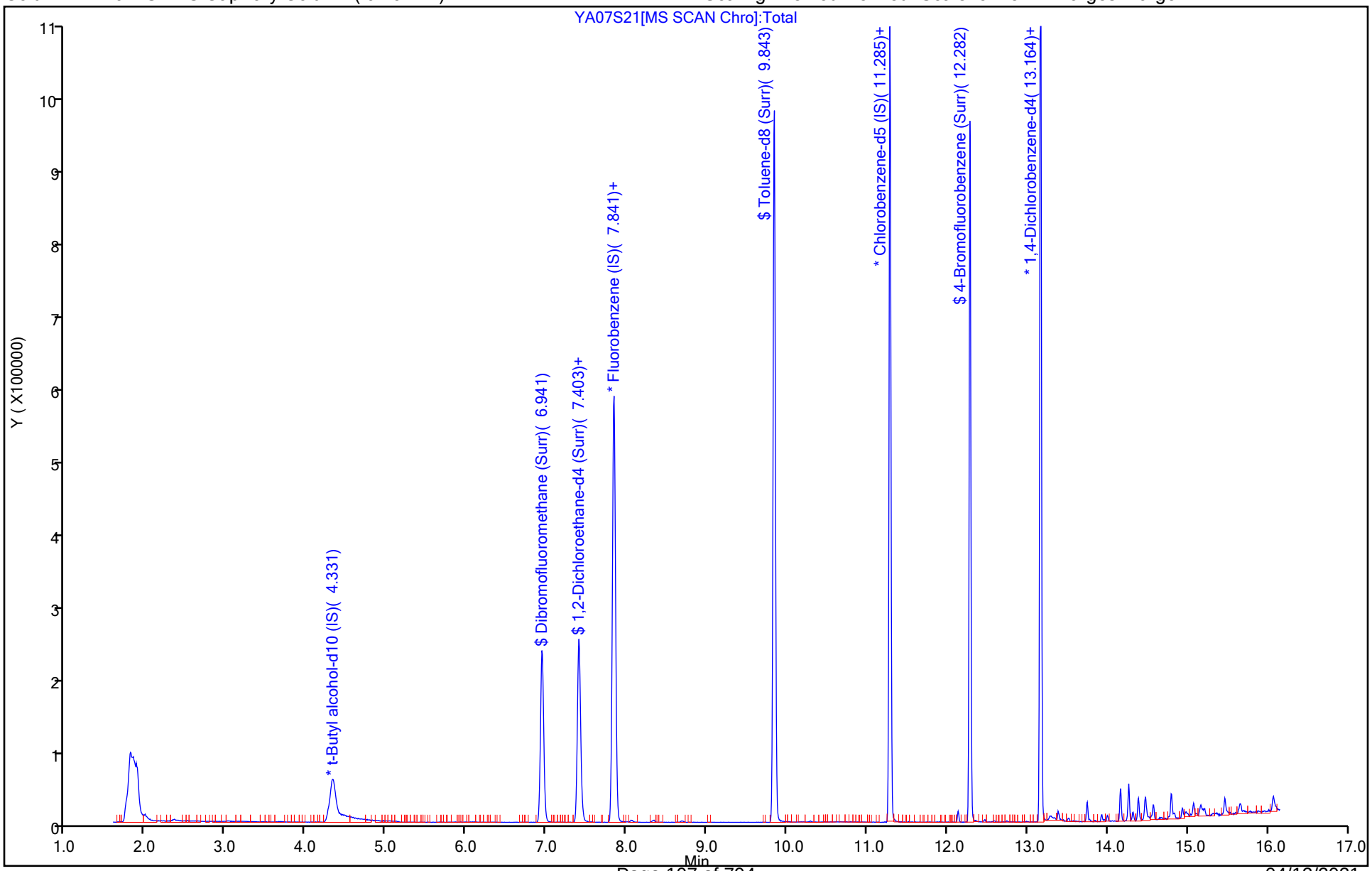
Report Date: 08-Apr-2021 00:00:55 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S21.D

Injection Date:	07-Apr-2021 19:58:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-14	Lab Sample ID:	410-34553-14	Worklist Smp#:	28
Client ID:	MW-4S-20210402				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 08-Apr-2021 00:00:55 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S21.D

Injection Date: 07-Apr-2021 19:58:30 Instrument ID: 9355

Lims ID: 410-34553-A-14 Lab Sample ID: 410-34553-14

Client ID: MW-4S-20210402

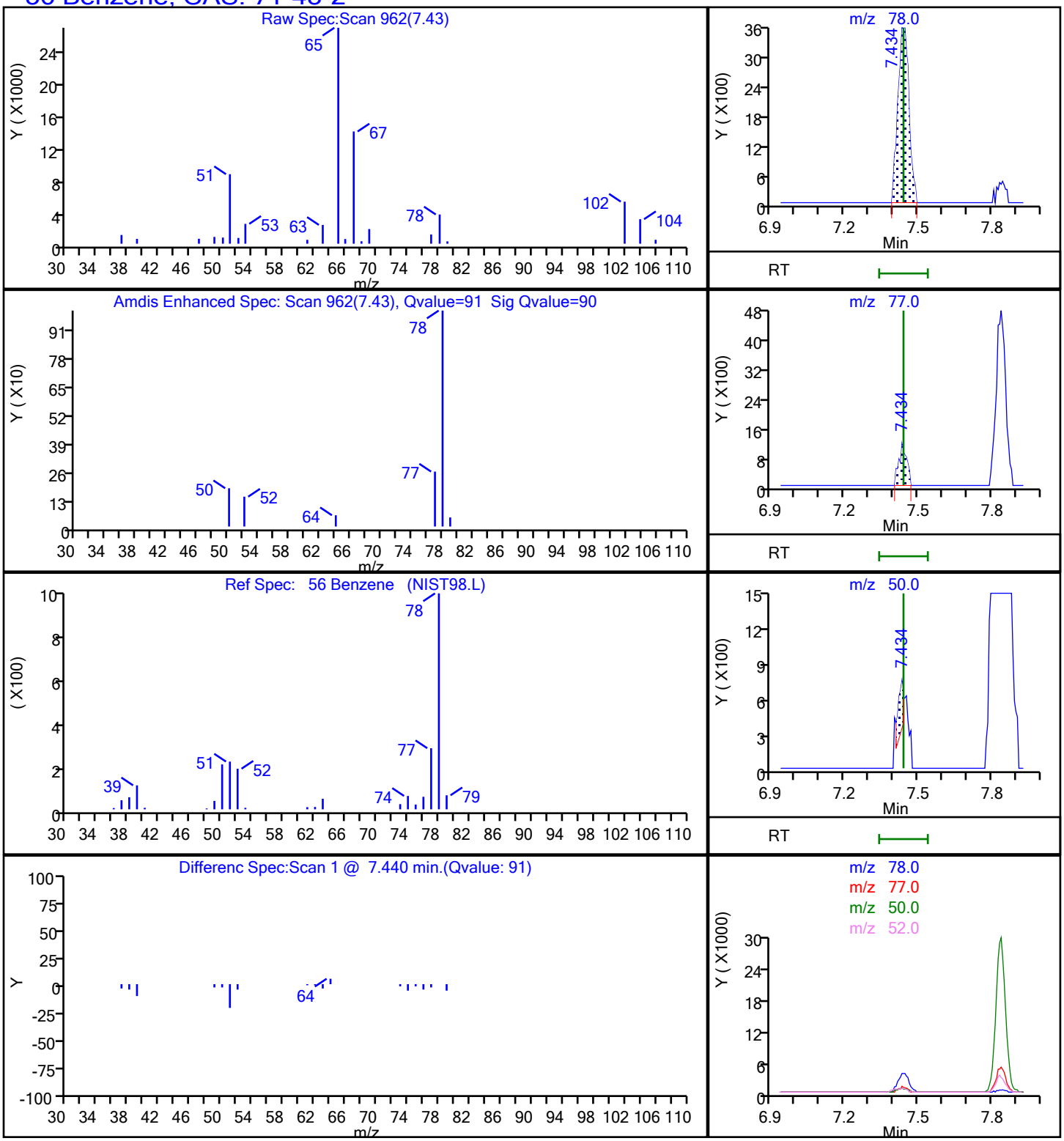
Operator ID: lcp00895 ALS Bottle#: 27 Worklist Smp#: 28

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

56 Benzene, CAS: 71-43-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-4D-20210402 Lab Sample ID: 410-34553-15

Matrix: Groundwater Lab File ID: YA07S22.D

Analysis Method: 8260C Date Collected: 04/02/2021 10:26

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 20:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	115		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S22.D
Lims ID: 410-34553-A-15
Client ID: MW-4D-20210402
Sample Type: Client
Inject. Date: 07-Apr-2021 20:20:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-029
Misc. Info.: 410-34553-A-15
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:59:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	261671	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	202703	57.7	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	48431	52.1	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	759238	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	753626	47.7	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	603903	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	278411	47.3	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	345372	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

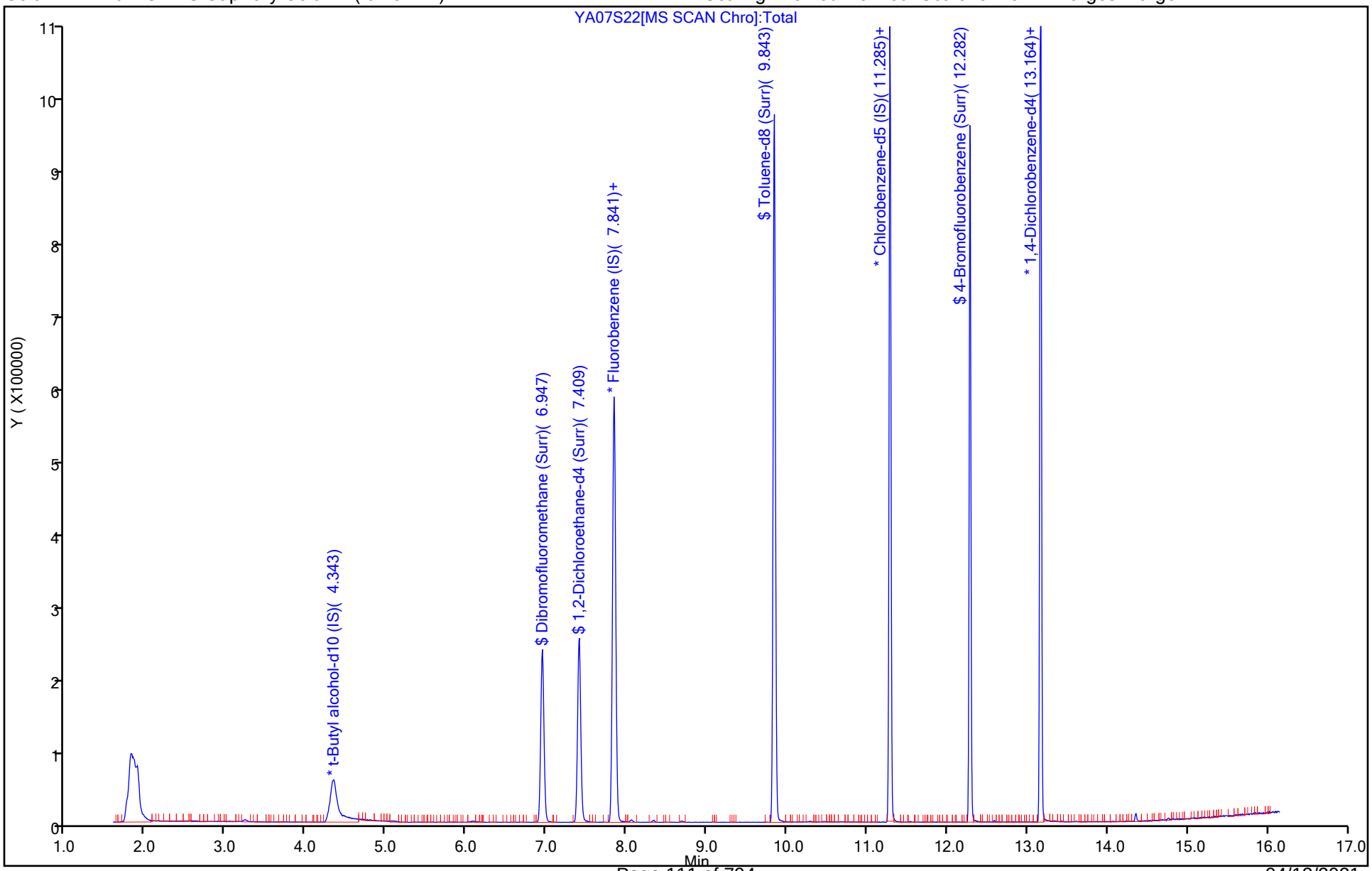
Report Date: 08-Apr-2021 00:00:56 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S22.D

Injection Date:	07-Apr-2021 20:20:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-15	Lab Sample ID:	410-34553-15	Worklist Smp#:	29
Client ID:	MW-4D-20210402				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-3-20210402 Lab Sample ID: 410-34553-16

Matrix: Groundwater Lab File ID: YA07S23.D

Analysis Method: 8260C Date Collected: 04/02/2021 11:07

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 20:42

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.74	J	1.0	0.20
100-41-4	Ethylbenzene	3.7		1.0	0.40
108-88-3	Toluene	0.82	J	1.0	0.20
1330-20-7	Xylenes, Total	4.9	J	6.0	1.4
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S23.D
Lims ID: 410-34553-A-16
Client ID: MW-3-20210402
Sample Type: Client
Inject. Date: 07-Apr-2021 20:42:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-030
Misc. Info.: 410-34553-A-16
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:59:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.331	4.325	0.006	0	227747	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	189948	57.0	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	45918	52.0	
56 Benzene	78	7.446	7.440	0.006	93	13907	0.7415	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	720580	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	713505	47.7	
78 Toluene	92	9.916	9.916	0.000	97	10177	0.8163	
S 91 Xylenes, Total	106				0		4.95	
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	572087	50.0	
96 Ethylbenzene	91	11.394	11.394	0.000	98	85978	3.69	
97 m-Xylene & p-Xylene	106	11.510	11.510	0.000	99	23262	2.50	
98 o-Xylene	106	11.838	11.838	0.000	97	21876	2.45	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	278604	50.0	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	348336	50.0	

QC Flag Legend
Processing Flags

Reagents:
MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

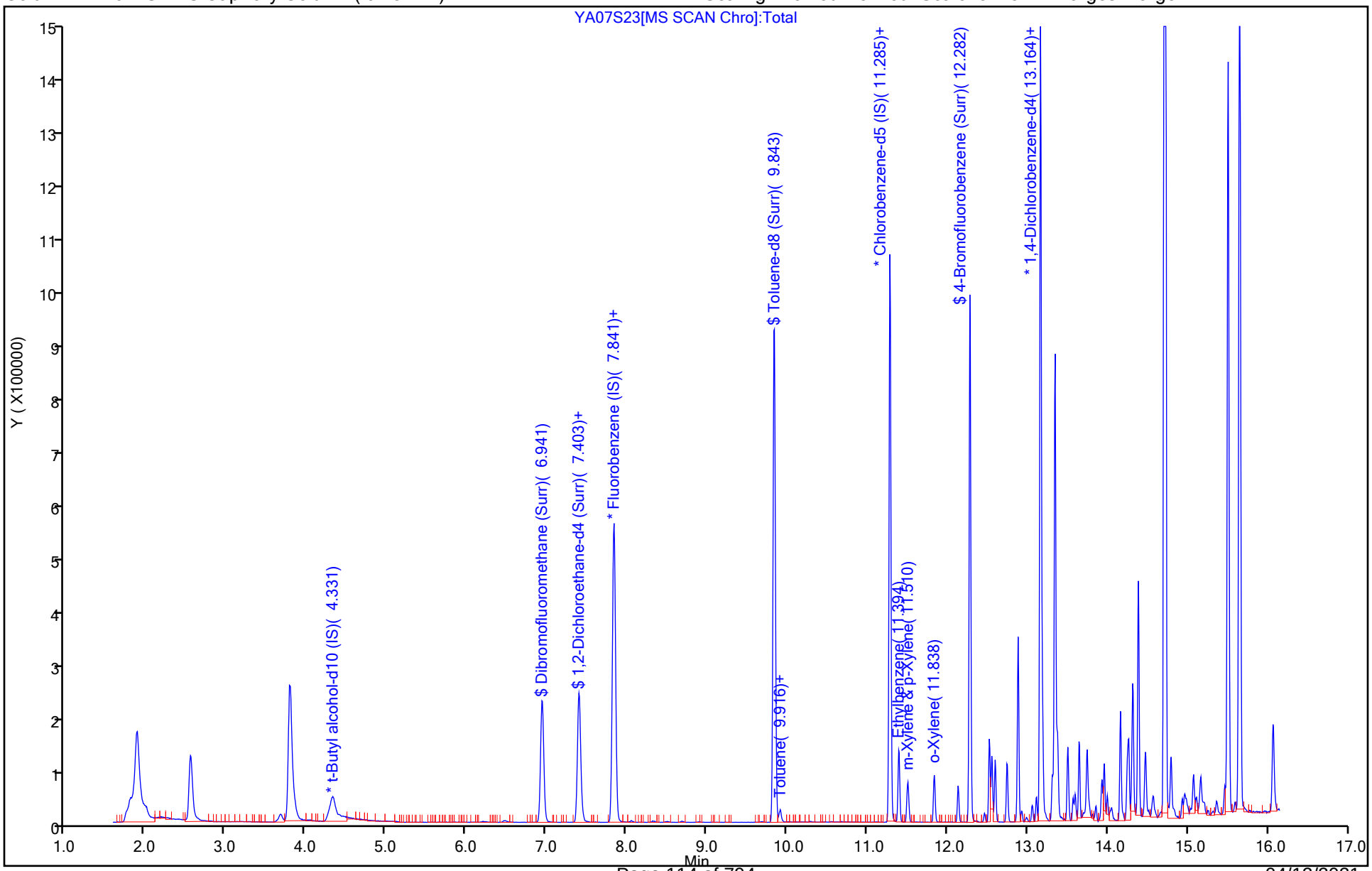
Report Date: 08-Apr-2021 00:00:57 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S23.D

Injection Date:	07-Apr-2021 20:42:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-16	Lab Sample ID:	410-34553-16	Worklist Smp#:	30
Client ID:	MW-3-20210402				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 08-Apr-2021 00:00:57 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S23.D

Injection Date: 07-Apr-2021 20:42:30 Instrument ID: 9355

Lims ID: 410-34553-A-16 Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

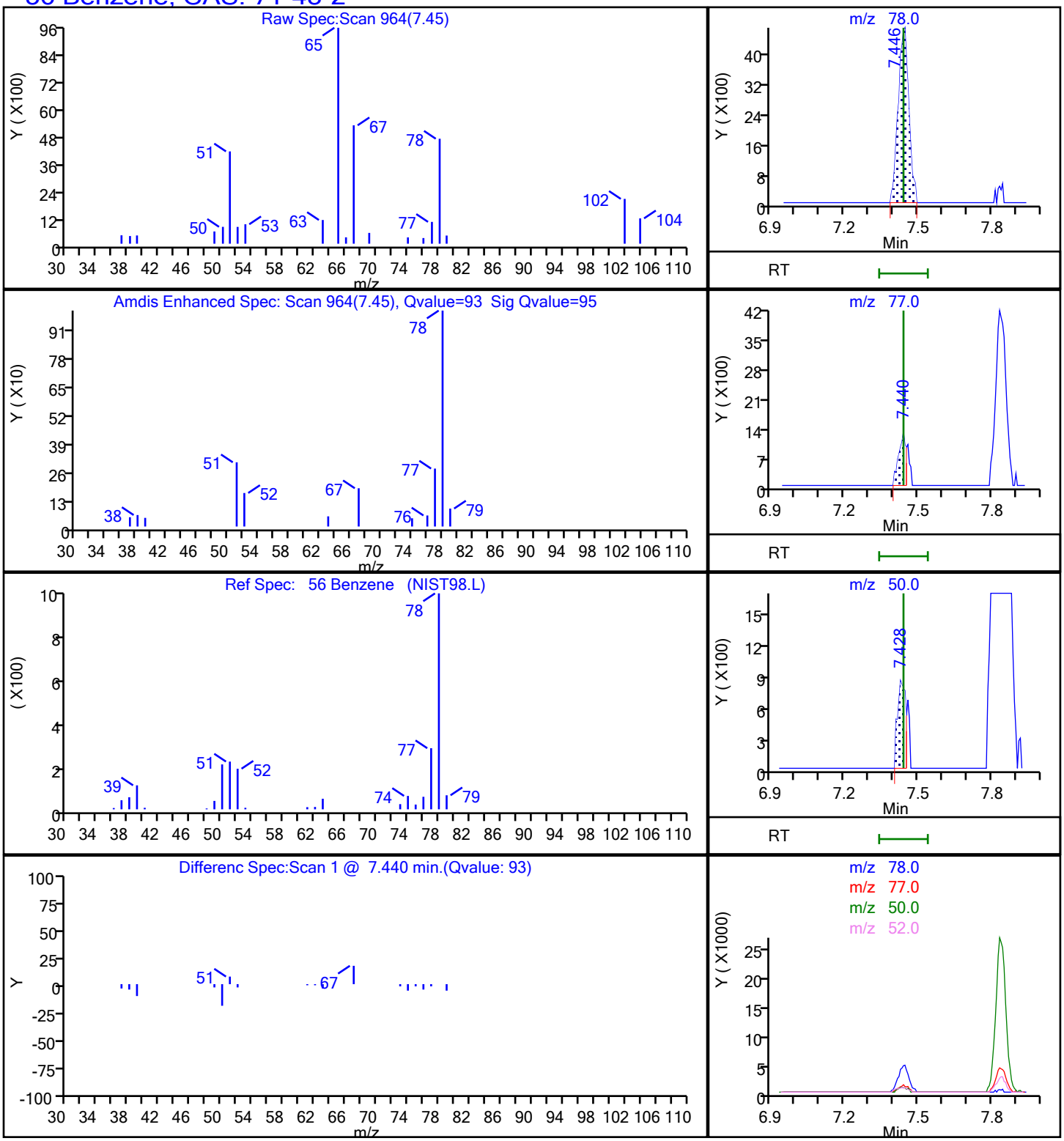
Operator ID: lcp00895 ALS Bottle#: 29 Worklist Smp#: 30

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

56 Benzene, CAS: 71-43-2



Report Date: 08-Apr-2021 00:00:57 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S23.D

Injection Date: 07-Apr-2021 20:42:30 Instrument ID: 9355

Lims ID: 410-34553-A-16 Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

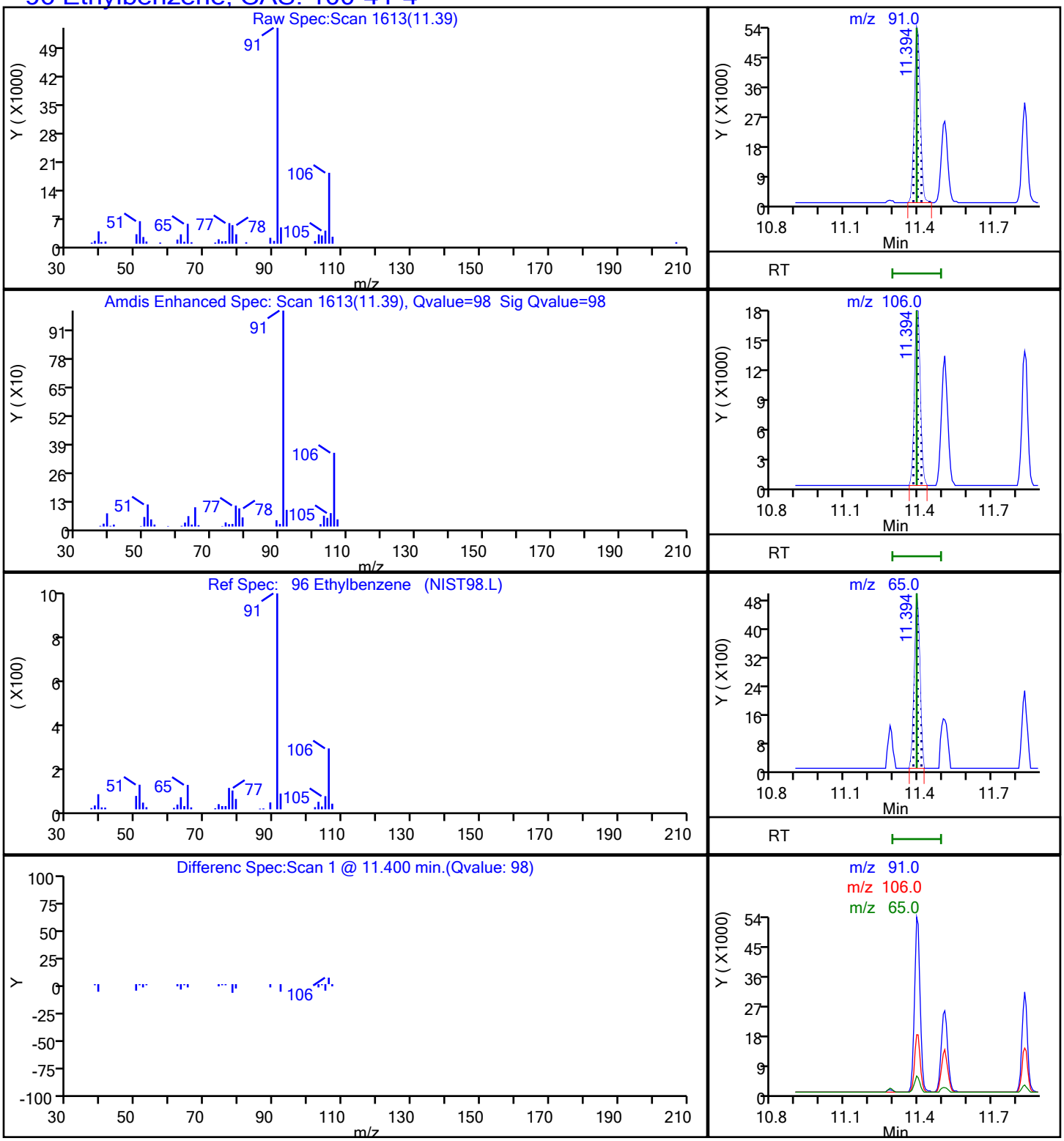
Operator ID: lcp00895 ALS Bottle#: 29 Worklist Smp#: 30

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

96 Ethylbenzene, CAS: 100-41-4



Report Date: 08-Apr-2021 00:00:57 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S23.D

Injection Date: 07-Apr-2021 20:42:30 Instrument ID: 9355

Lims ID: 410-34553-A-16 Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

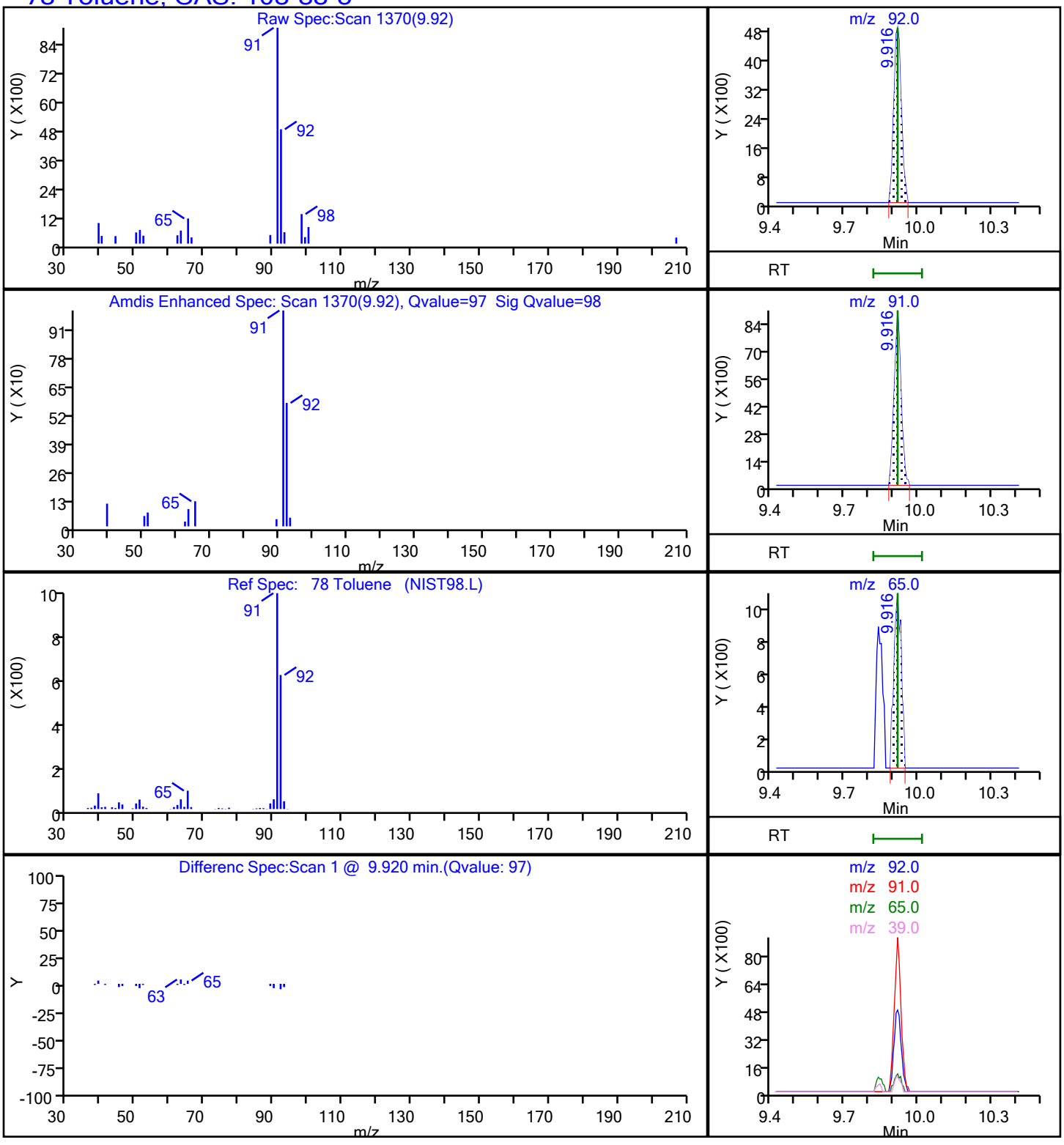
Operator ID: lcp00895 ALS Bottle#: 29 Worklist Smp#: 30

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

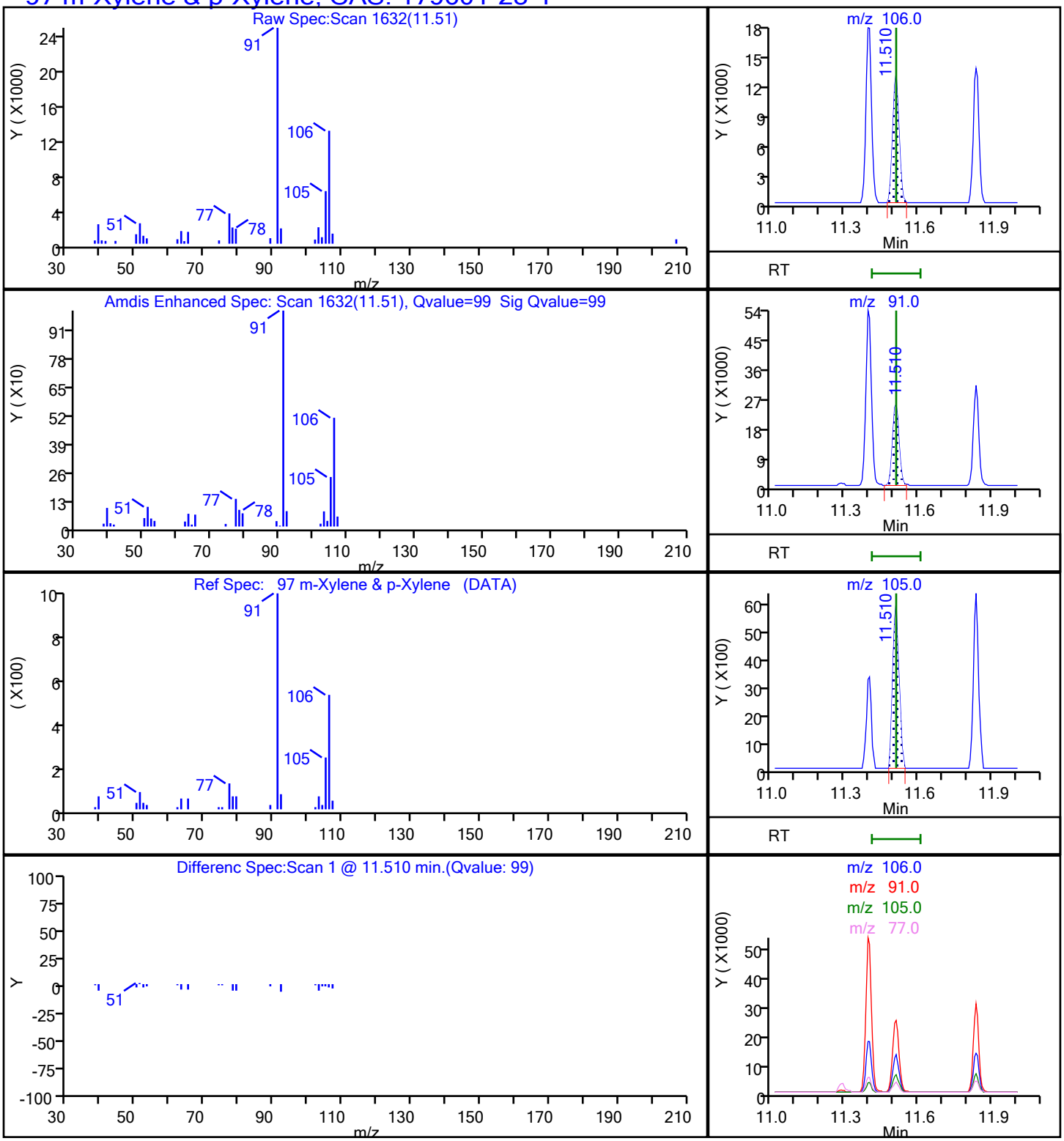
78 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S23.D				
Injection Date:	07-Apr-2021 20:42:30	Instrument ID:	9355		
Lims ID:	410-34553-A-16	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	lcp00895	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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



Report Date: 08-Apr-2021 00:00:57 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S23.D

Injection Date: 07-Apr-2021 20:42:30 Instrument ID: 9355

Lims ID: 410-34553-A-16 Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

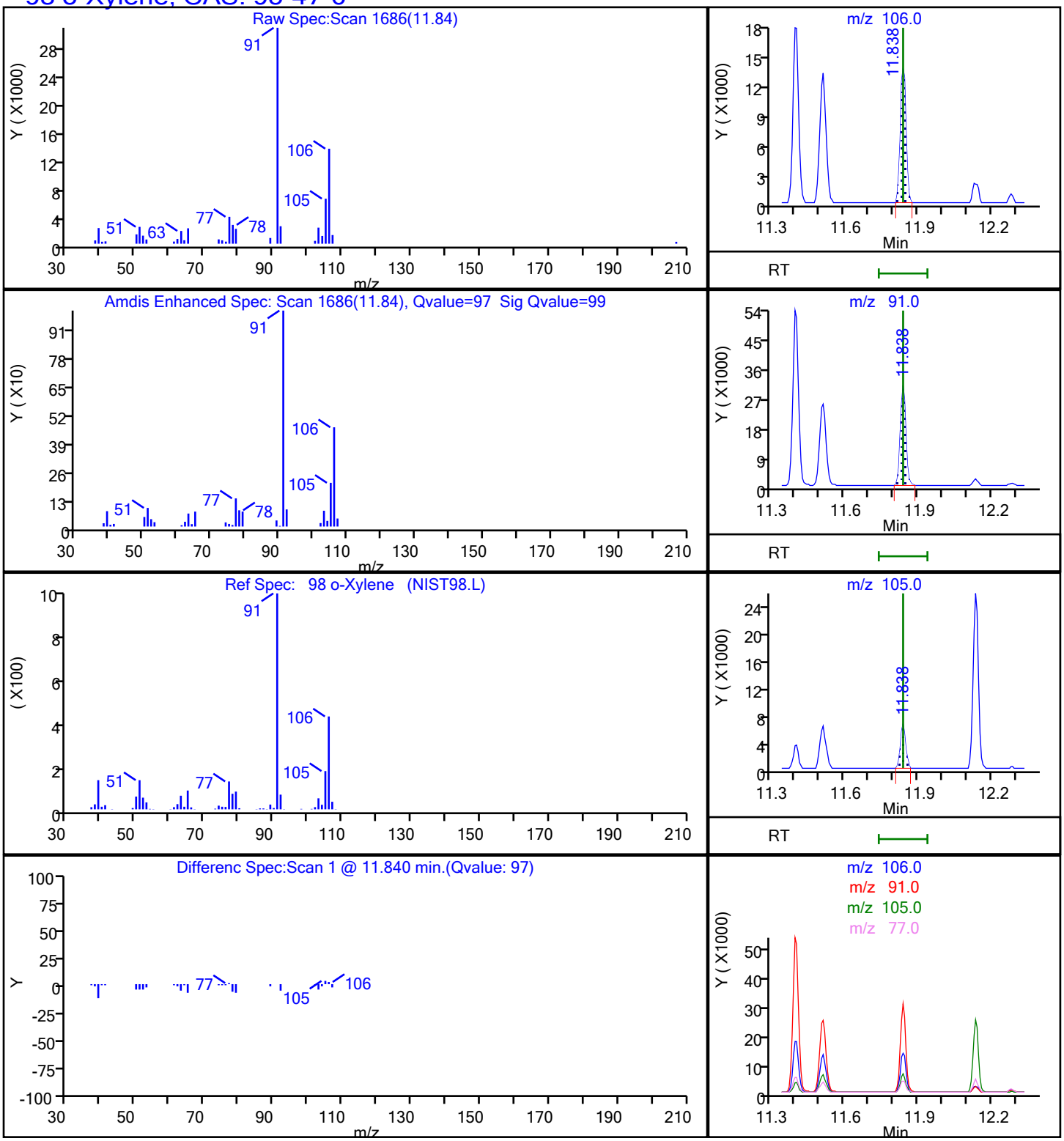
Operator ID: lcp00895 ALS Bottle#: 29 Worklist Smp#: 30

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: FB-20210402 Lab Sample ID: 410-34553-17

Matrix: Water Lab File ID: YA07S03.D

Analysis Method: 8260C Date Collected: 04/02/2021 11:40

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 13:21

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S03.D
Lims ID: 410-34553-A-17
Client ID: FB-20210402
Sample Type: Client
Inject. Date: 07-Apr-2021 13:21:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-010
Misc. Info.: 410-34553-A-17
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 21:30:21 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 21:28:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.325	0.024	0	324663	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	242060	55.5	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	60226	52.1	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	943612	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	93	929305	48.3	
78 Toluene	92		9.916				ND	7
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	735933	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	338771	47.3	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	414646	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

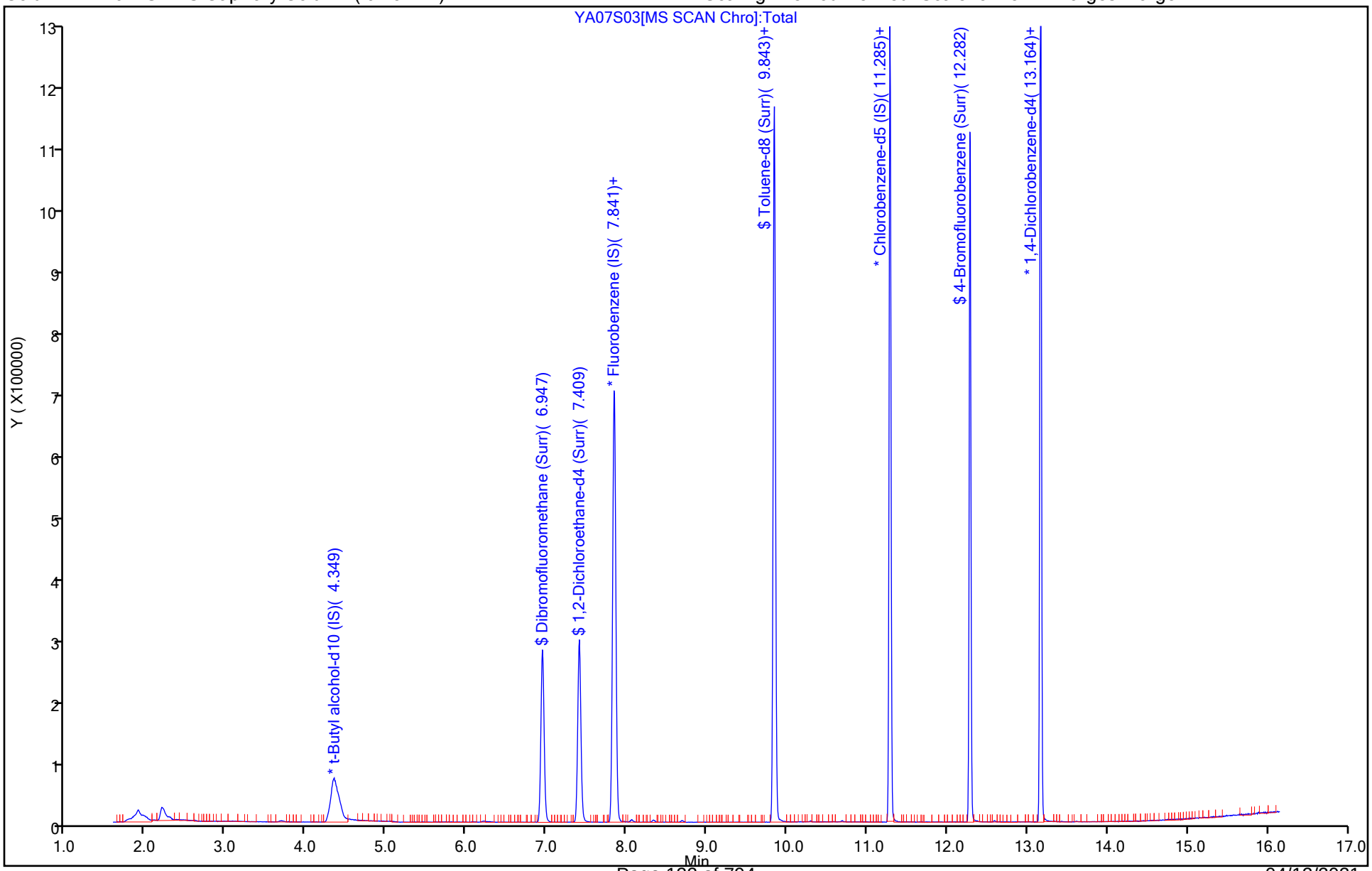
Report Date: 07-Apr-2021 21:30:37 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S03.D

Injection Date:	07-Apr-2021 13:21:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-17	Lab Sample ID:	410-34553-17	Worklist Smp#:	10
Client ID:	FB-20210402				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-13S-20210402 Lab Sample ID: 410-34553-18

Matrix: Groundwater Lab File ID: YA07S24.D

Analysis Method: 8260C Date Collected: 04/02/2021 11:56

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 21:04

Soil Aliquot Vol: Dilution Factor: 5

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1.4	J	5.0	1.0
100-41-4	Ethylbenzene	2.6	J	5.0	2.0
108-88-3	Toluene	ND		5.0	1.0
1330-20-7	Xylenes, Total	ND		30	7.0
1634-04-4	Methyl tertiary butyl ether	ND		5.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S24.D
Lims ID: 410-34553-A-18
Client ID: MW-13S-20210402
Sample Type: Client
Inject. Date: 07-Apr-2021 21:04:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 5.0000
Sample Info: 410-0026049-031
Misc. Info.: 410-34553-A-18
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:59:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.325	4.325	0.000	0	267937	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	93	201871	56.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	48762	51.8	
56 Benzene	78	7.440	7.440	0.000	62	5542	0.2769	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	768941	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	765559	48.6	
78 Toluene	92	9.916	9.916	0.000	96	1472	0.1120	
S 91 Xylenes, Total	106				0		0.6421	
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	603048	50.0	
96 Ethylbenzene	91	11.400	11.394	0.006	98	12732	0.5178	
97 m-Xylene & p-Xylene	106	11.510	11.510	0.000	95	3004	0.3063	
98 o-Xylene	106	11.838	11.838	0.000	97	3165	0.3357	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	288274	49.1	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	353362	50.0	

QC Flag Legend
Processing Flags

Reagents:
MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

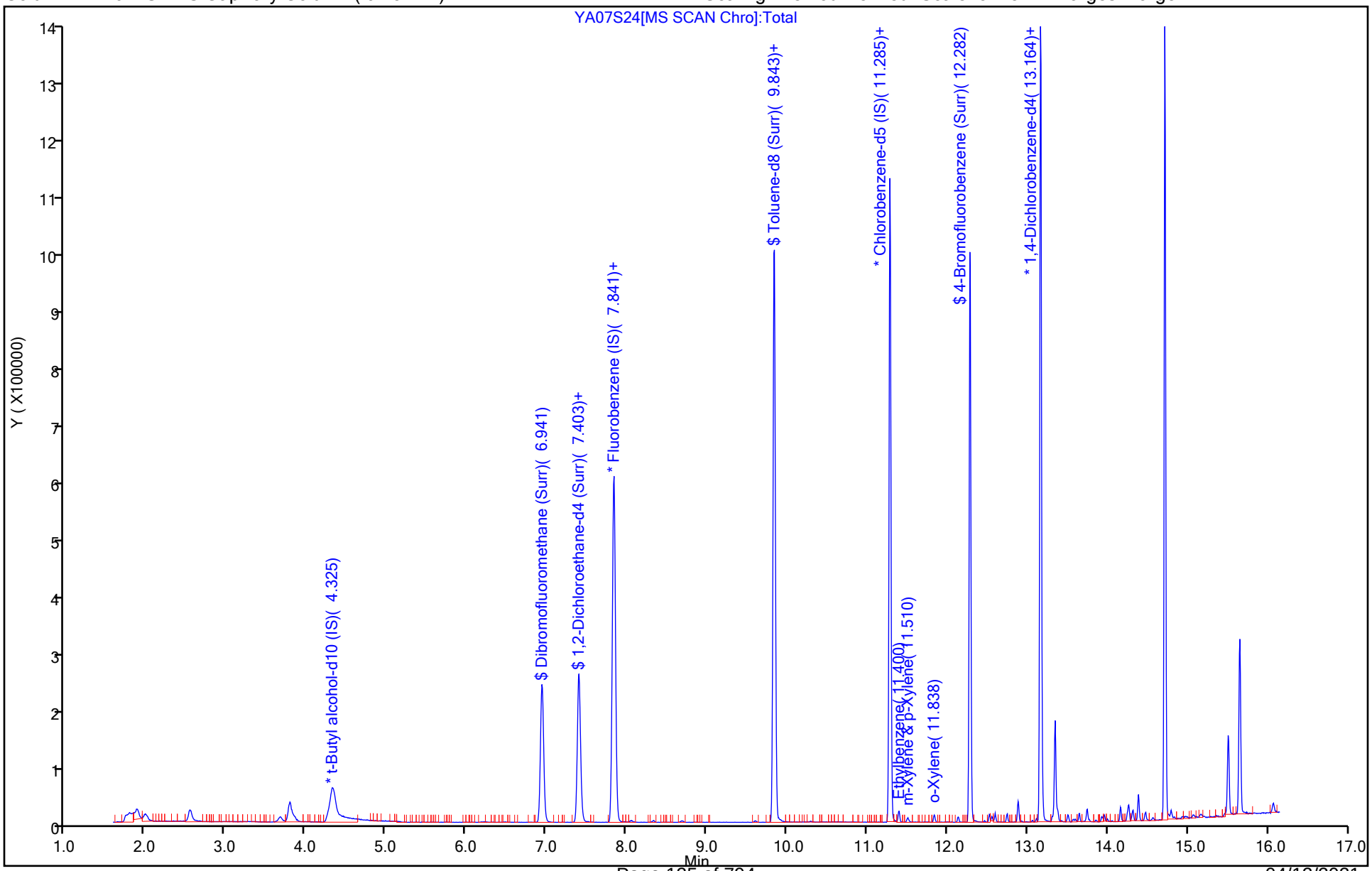
Report Date: 08-Apr-2021 00:00:58 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S24.D

Injection Date:	07-Apr-2021 21:04:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-18	Lab Sample ID:	410-34553-18	Worklist Smp#:	31
Client ID:	MW-13S-20210402				
Purge Vol:	5.000 mL	Dil. Factor:	5.0000	ALS Bottle#:	30
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 08-Apr-2021 00:00:58 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S24.D

Injection Date: 07-Apr-2021 21:04:30 Instrument ID: 9355

Lims ID: 410-34553-A-18 Lab Sample ID: 410-34553-18

Client ID: MW-13S-20210402

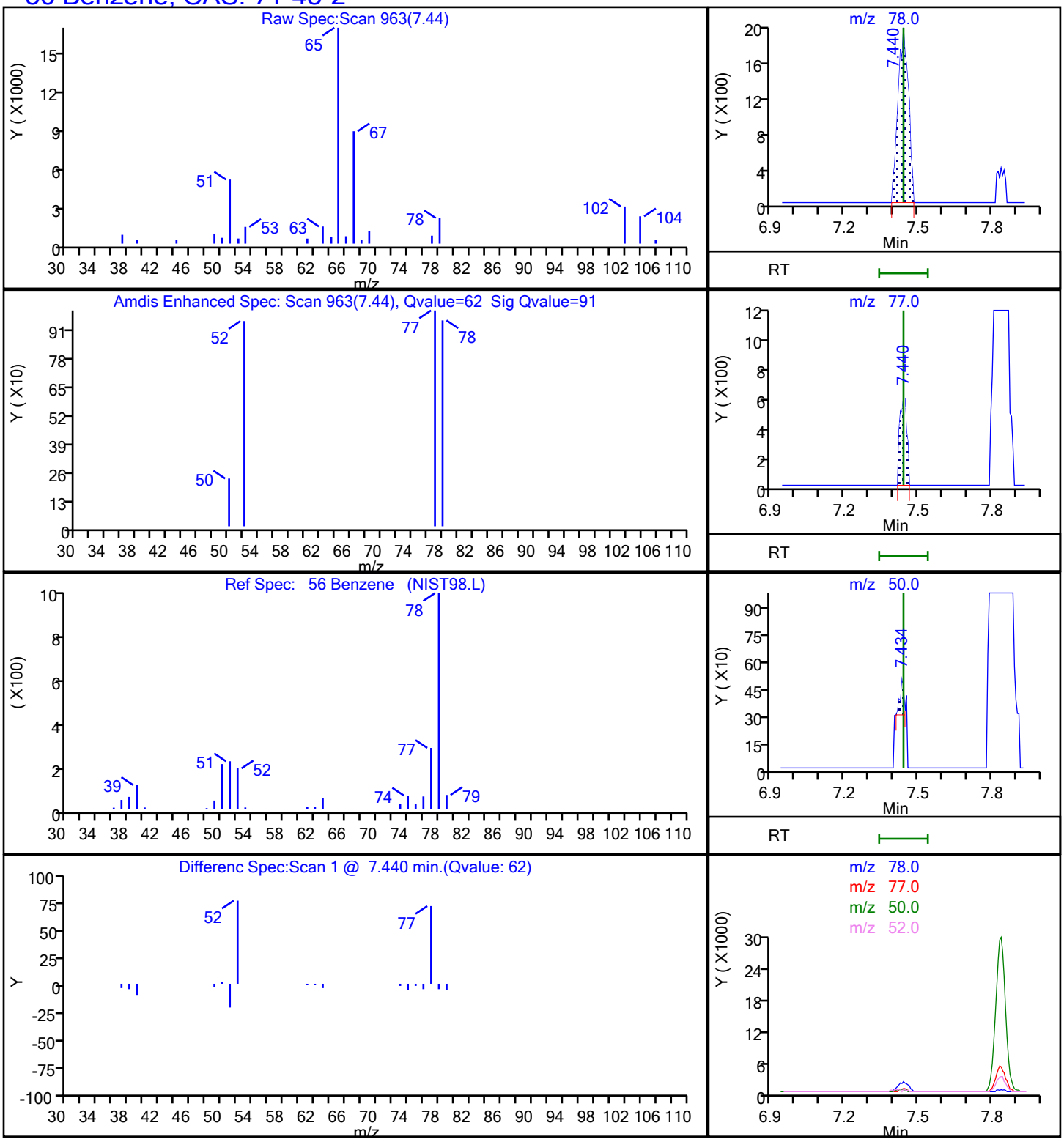
Operator ID: lcp00895 ALS Bottle#: 30 Worklist Smp#: 31

Purge Vol: 5.000 mL Dil. Factor: 5.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

56 Benzene, CAS: 71-43-2



Report Date: 08-Apr-2021 00:00:58 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S24.D

Injection Date: 07-Apr-2021 21:04:30 Instrument ID: 9355

Lims ID: 410-34553-A-18 Lab Sample ID: 410-34553-18

Client ID: MW-13S-20210402

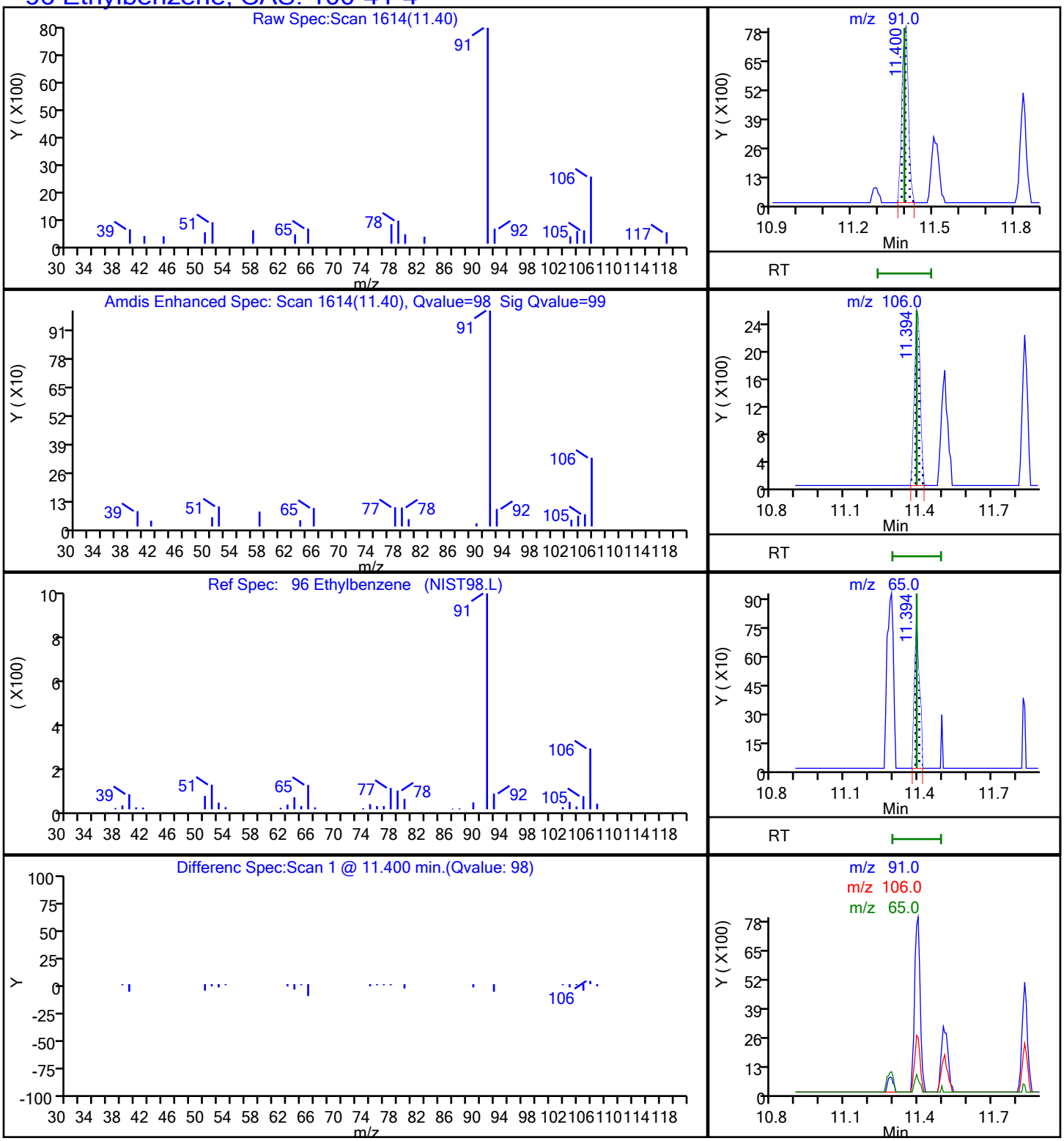
Operator ID: lcp00895 ALS Bottle#: 30 Worklist Smp#: 31

Purge Vol: 5.000 mL Dil. Factor: 5.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

96 Ethylbenzene, CAS: 100-41-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-13D-20210402 Lab Sample ID: 410-34553-19

Matrix: Groundwater Lab File ID: YA07S25.D

Analysis Method: 8260C Date Collected: 04/02/2021 12:35

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 21:27

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	115		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S25.D
Lims ID: 410-34553-A-19
Client ID: MW-13D-20210402
Sample Type: Client
Inject. Date: 07-Apr-2021 21:27:30 ALS Bottle#: 31 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-032
Misc. Info.: 410-34553-A-19
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:59:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.337	4.325	0.012	0	275655	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	208573	57.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	50320	52.3	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	785468	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	780016	48.0	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	621157	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	290705	48.1	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.000	95	350383	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

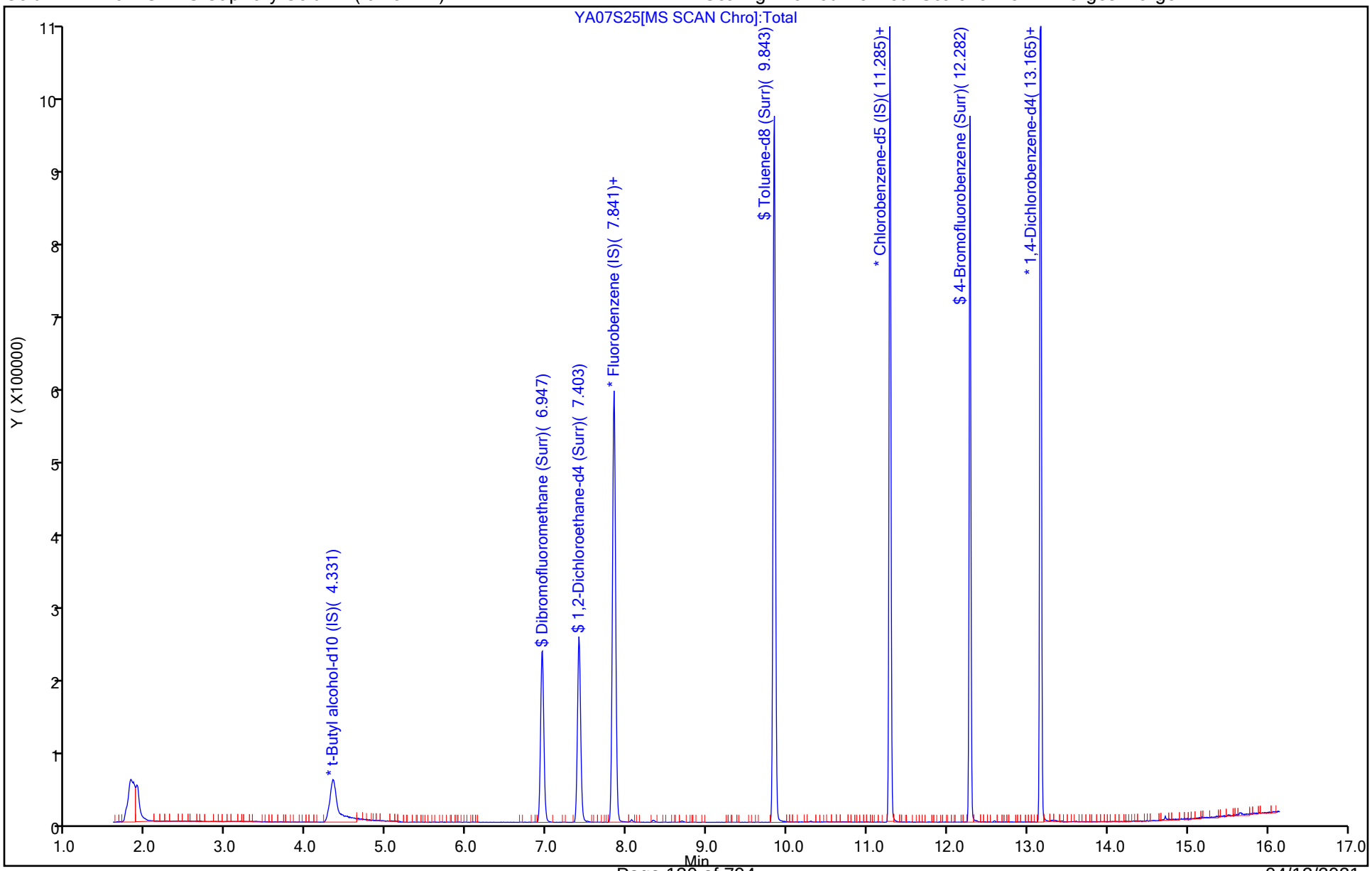
Report Date: 08-Apr-2021 00:00:59 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S25.D

Injection Date:	07-Apr-2021 21:27:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-19	Lab Sample ID:	410-34553-19	Worklist Smp#:	32
Client ID:	MW-13D-20210402				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: DUP-20210402 Lab Sample ID: 410-34553-20

Matrix: Groundwater Lab File ID: YA07S26.D

Analysis Method: 8260C Date Collected: 04/02/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 21:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.73	J	1.0	0.20
100-41-4	Ethylbenzene	3.6		1.0	0.40
108-88-3	Toluene	0.79	J	1.0	0.20
1330-20-7	Xylenes, Total	4.9	J	6.0	1.4
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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	115		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D
Lims ID: 410-34553-A-20
Client ID: DUP-20210402
Sample Type: Client
Inject. Date: 07-Apr-2021 21:49:30 ALS Bottle#: 32 Worklist Smp#: 33
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-033
Misc. Info.: 410-34553-A-20
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Apr-2021 00:00:27 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 08-Apr-2021 00:00:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.325	4.325	0.000	0	243455	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	93	198676	57.3	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	48071	52.3	
56 Benzene	78	7.434	7.440	-0.006	84	14183	0.7264	M
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	750083	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	94	754992	48.0	
78 Toluene	92	9.910	9.916	-0.006	98	10305	0.7855	
S 91 Xylenes, Total	106				0		4.87	
* 93 Chlorobenzene-d5 (IS)	117	11.284	11.285	-0.001	85	602019	50.0	
96 Ethylbenzene	91	11.394	11.394	0.000	98	87515	3.57	
97 m-Xylene & p-Xylene	106	11.503	11.510	-0.007	99	24063	2.46	
98 o-Xylene	106	11.838	11.838	0.000	96	22738	2.42	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	293858	50.1	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	361124	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

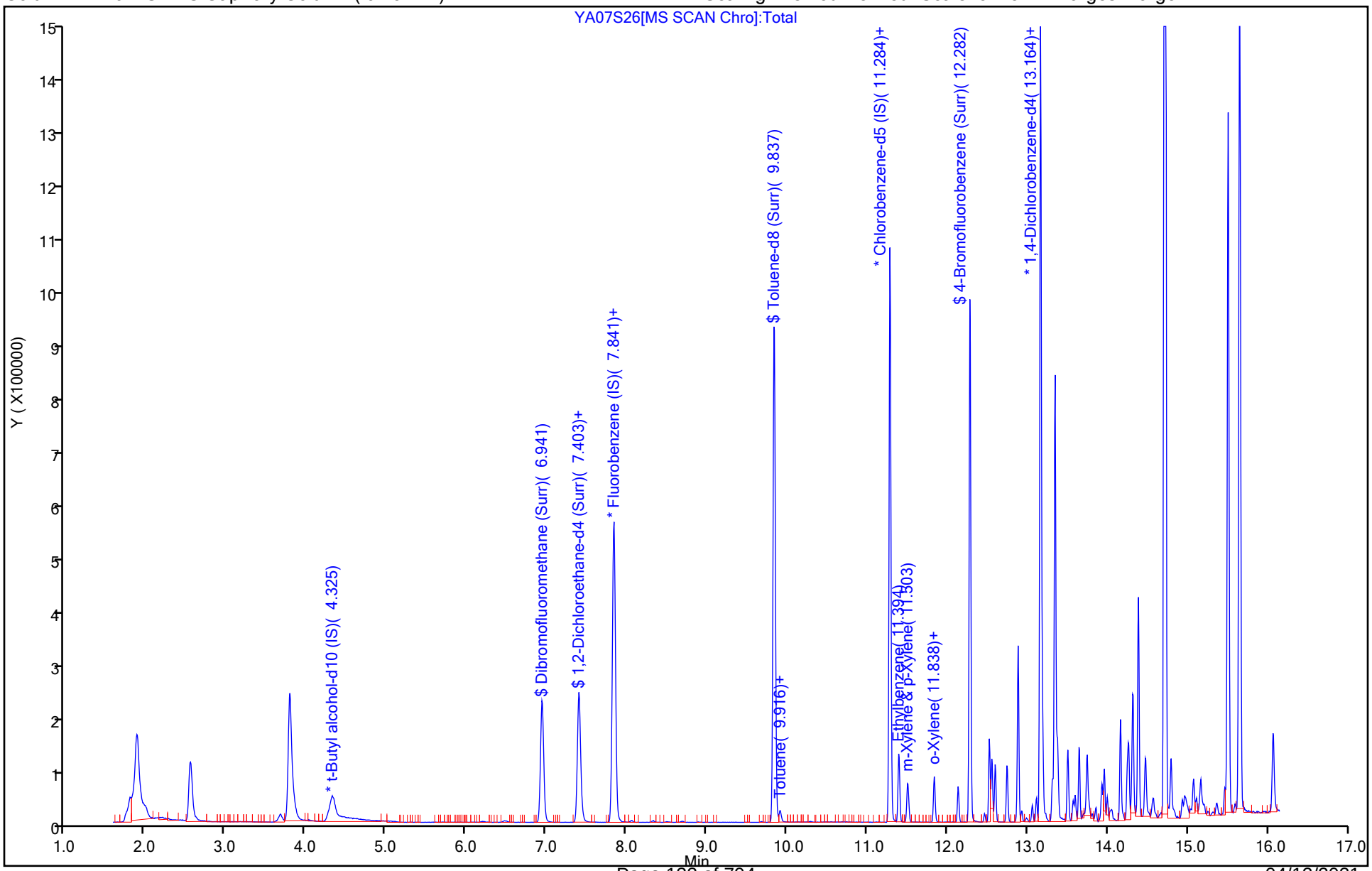
Report Date: 08-Apr-2021 00:01:00 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D

Injection Date:	07-Apr-2021 21:49:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-20	Lab Sample ID:	410-34553-20	Worklist Smp#:	33
Client ID:	DUP-20210402				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

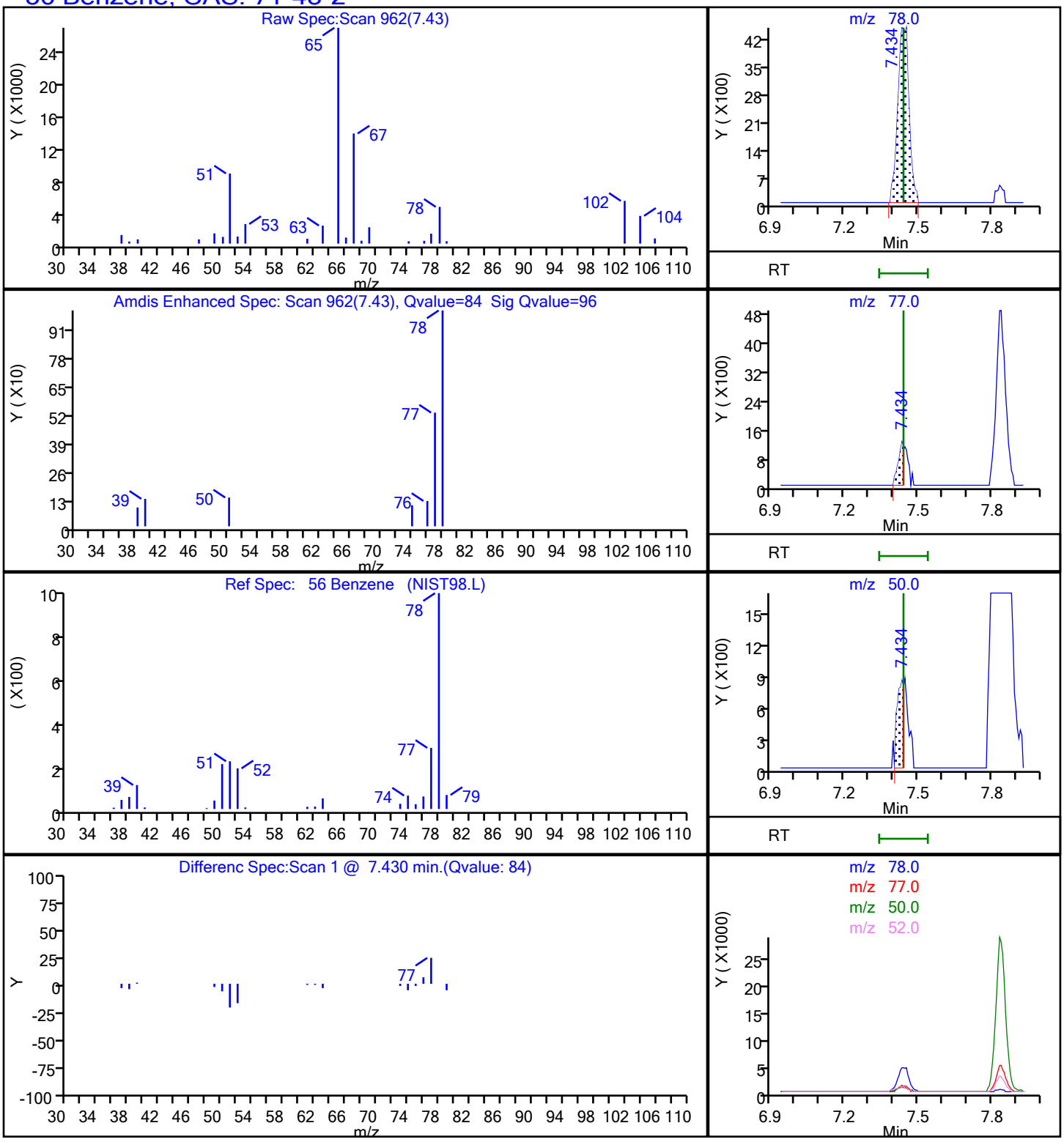
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D				
Injection Date:	07-Apr-2021 21:49:30	Instrument ID:	9355		
Lims ID:	410-34553-A-20	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	lcp00895	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

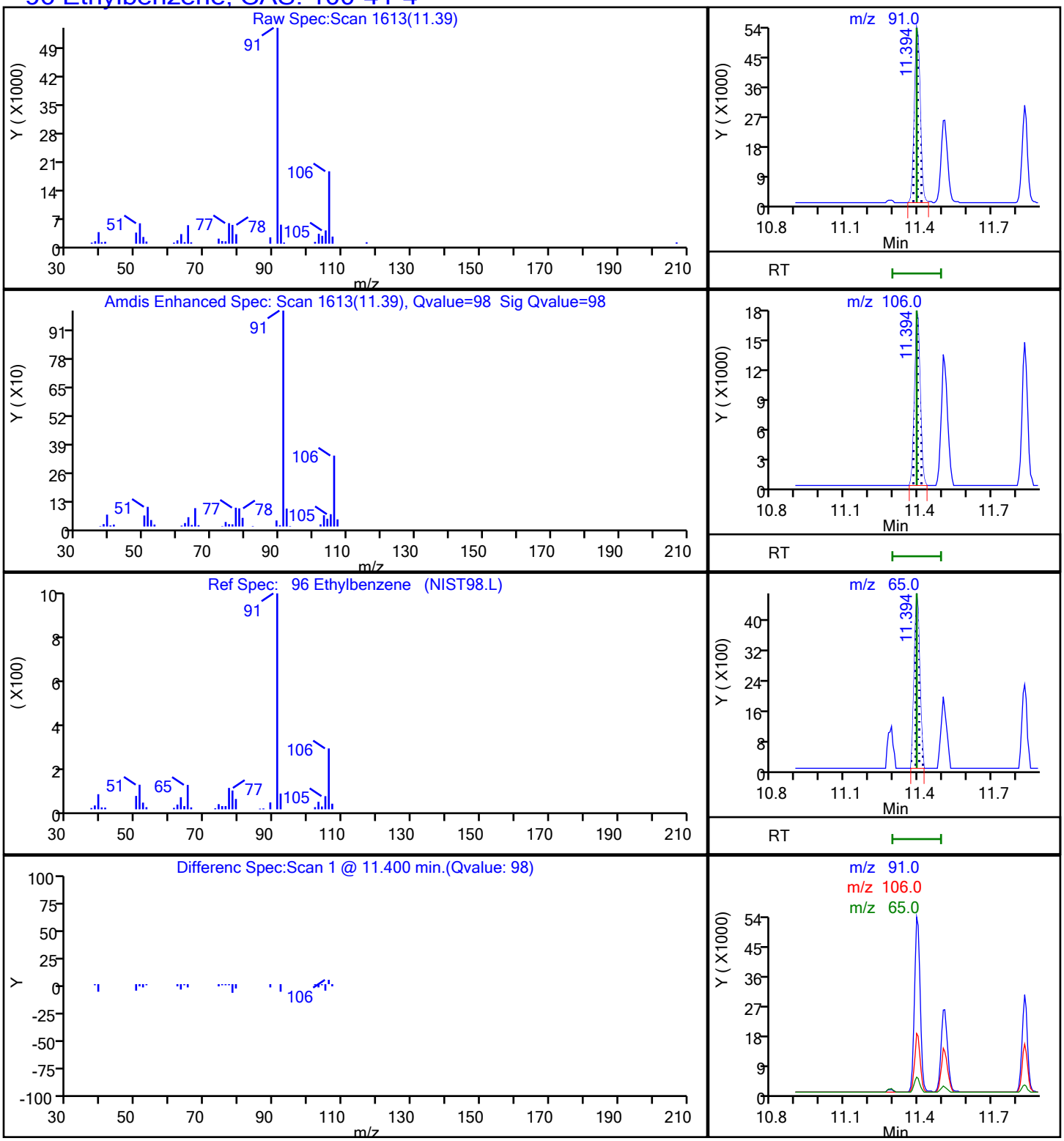
56 Benzene, CAS: 71-43-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D				
Injection Date:	07-Apr-2021 21:49:30	Instrument ID:	9355		
Lims ID:	410-34553-A-20	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	lcp00895	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

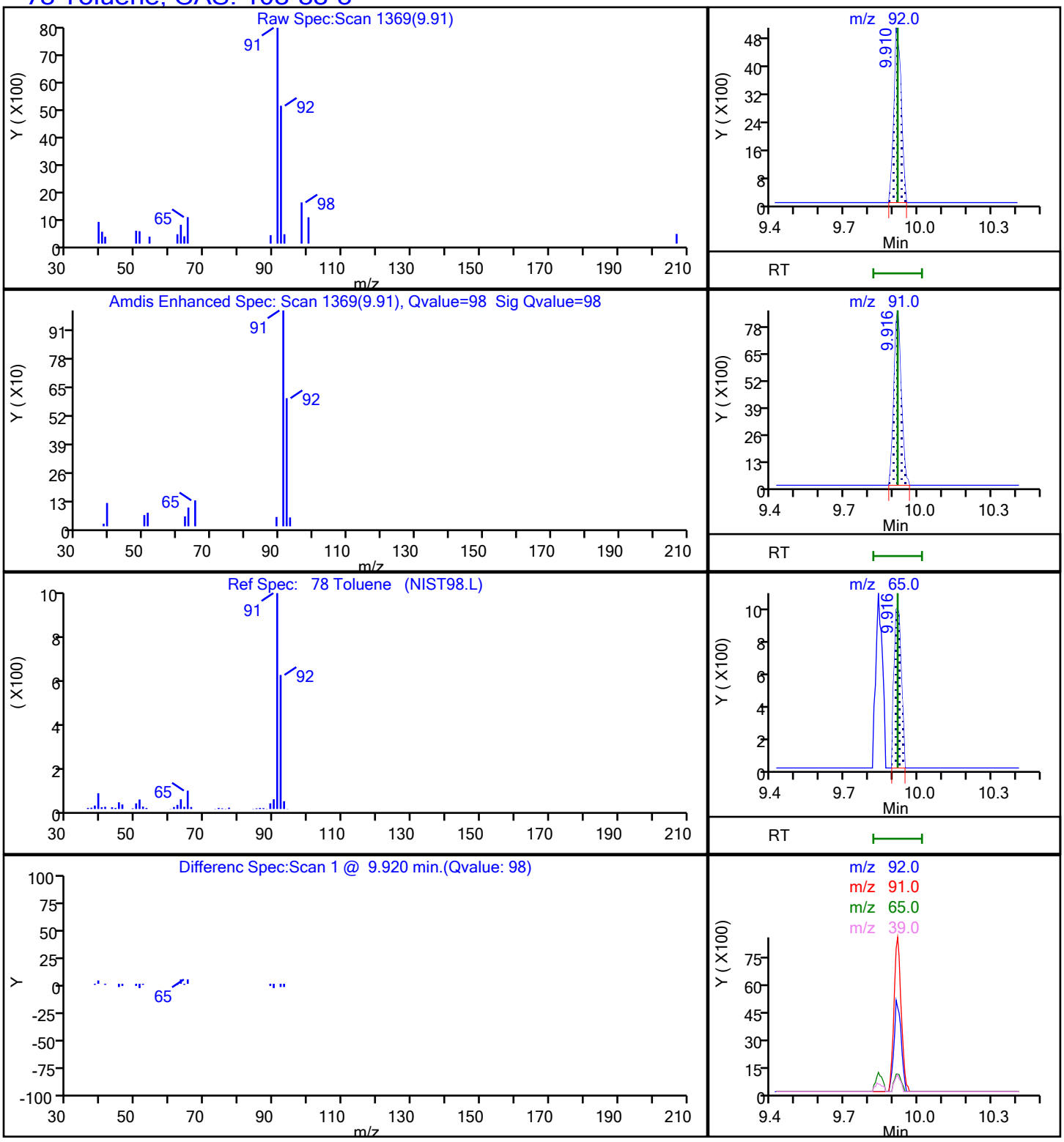
96 Ethylbenzene, CAS: 100-41-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D				
Injection Date:	07-Apr-2021 21:49:30	Instrument ID:	9355		
Lims ID:	410-34553-A-20	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	lcp00895	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

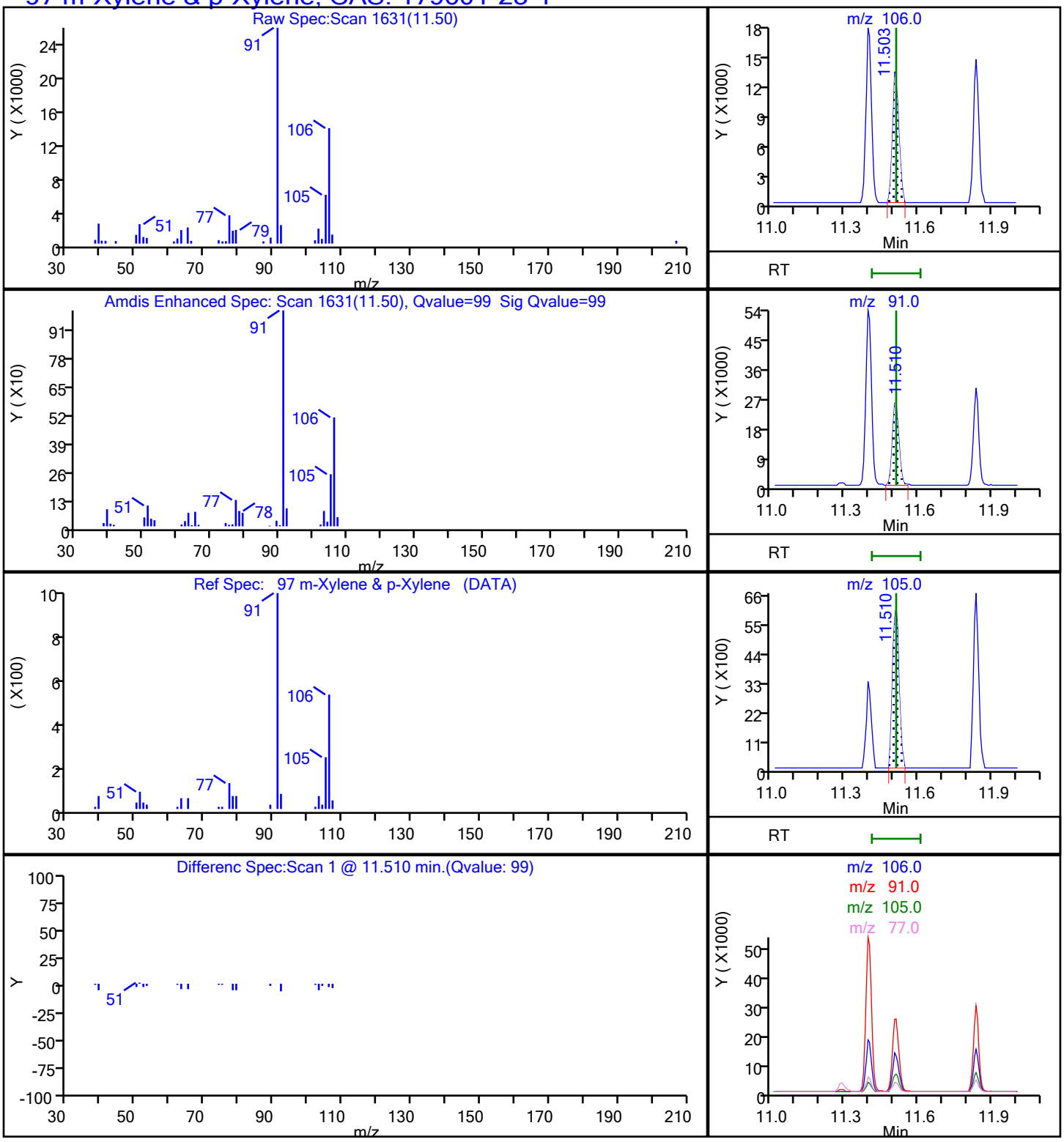
78 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D				
Injection Date:	07-Apr-2021 21:49:30	Instrument ID:	9355		
Lims ID:	410-34553-A-20	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	lcp00895	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

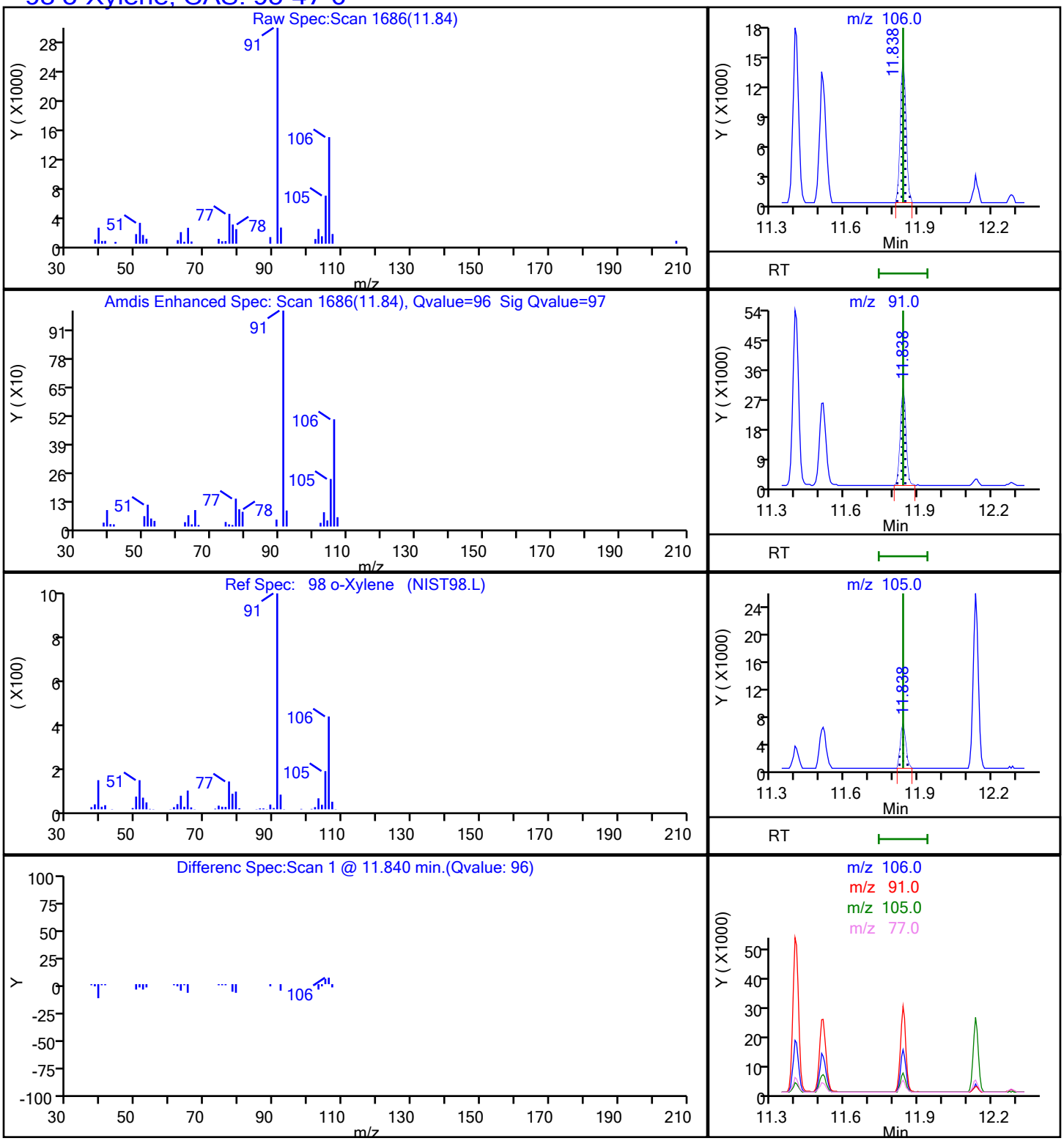
97 m-Xylene & p-Xylene, CAS: 179601-23-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D				
Injection Date:	07-Apr-2021 21:49:30	Instrument ID:	9355		
Lims ID:	410-34553-A-20	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	lcp00895	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

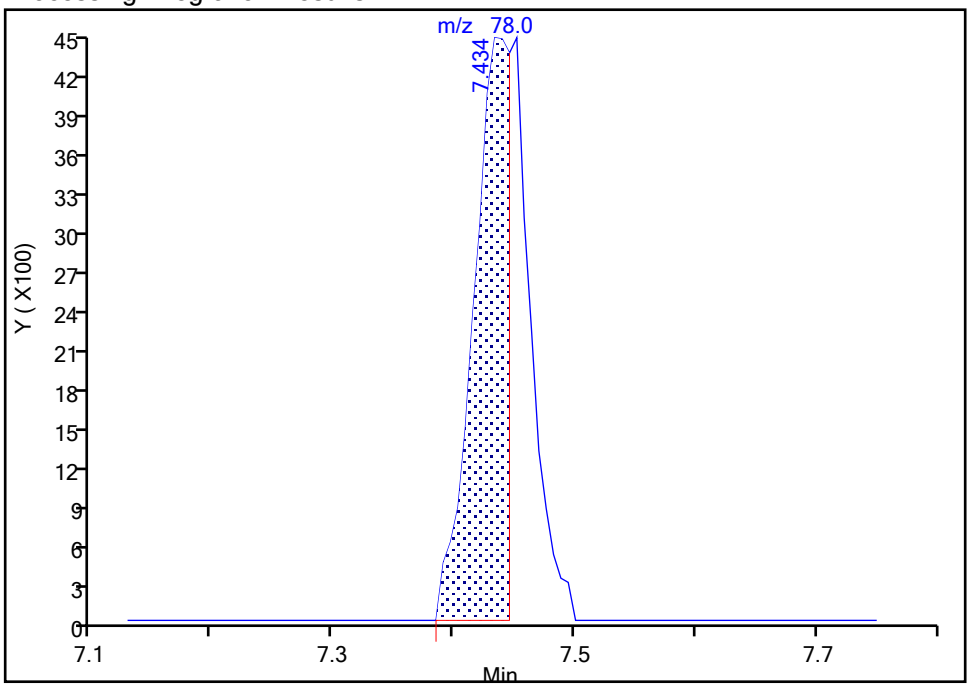
Data File:	\\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S26.D				
Injection Date:	07-Apr-2021 21:49:30	Instrument ID:	9355		
Lims ID:	410-34553-A-20	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	lcp00895	ALS Bottle#:	32	Worklist Smp#:	33
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 Benzene, CAS: 71-43-2

Signal: 1

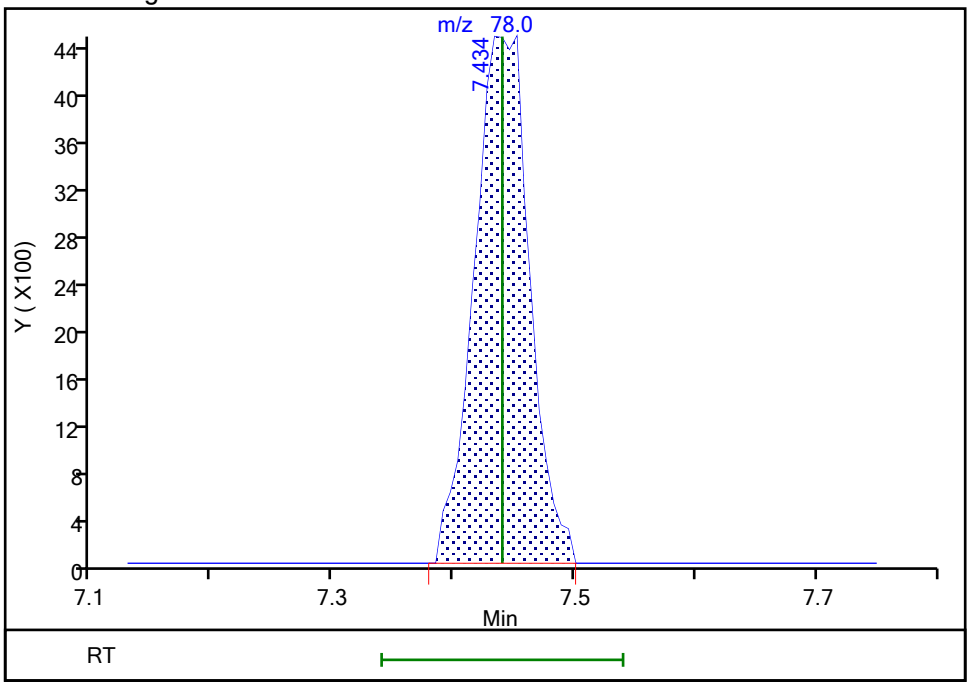
Processing Integration Results

RT: 7.43
Area: 9453
Amount: 0.484180
Amount Units: ug/l



Manual Integration Results

RT: 7.43
Area: 14183
Amount: 0.726449
Amount Units: ug/l



Reviewer: proctore, 08-Apr-2021 00:00:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: Trip-Blank Lab Sample ID: 410-34553-21

Matrix: Water Lab File ID: YA07S04.D

Analysis Method: 8260C Date Collected: 03/31/2021 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 13:43

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S04.D
Lims ID: 410-34553-A-21
Client ID: Trip-Blank
Sample Type: Client
Inject. Date: 07-Apr-2021 13:43:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-011
Misc. Info.: 410-34553-A-21
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 21:30:21 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 21:29:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	339051	250.0	
31 Methyl tert-butyl ether	73		4.763				ND	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	94	244805	55.0	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	60854	51.7	
56 Benzene	78		7.440				ND	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	961660	50.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	93	943405	48.1	
78 Toluene	92		9.916				ND	
S 91 Xylenes, Total	106		11.245				ND	7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	749887	50.0	
96 Ethylbenzene	91		11.394				ND	
97 m-Xylene & p-Xylene	106		11.510				ND	
98 o-Xylene	106		11.838				ND	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	345757	47.3	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.001	94	419877	50.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

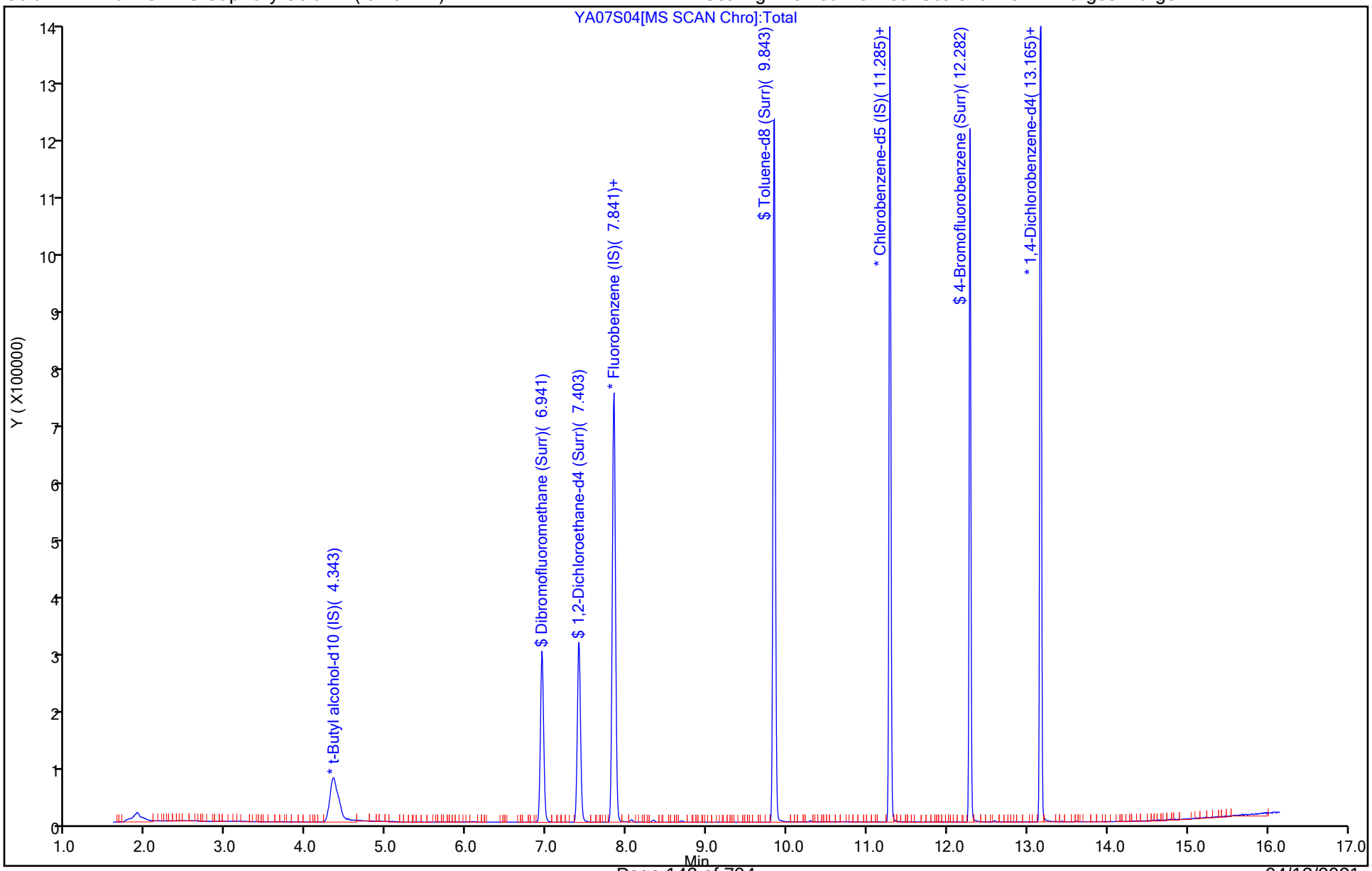
Report Date: 07-Apr-2021 21:30:38 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S04.D

Injection Date:	07-Apr-2021 13:43:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	410-34553-A-21	Lab Sample ID:	410-34553-21	Worklist Smp#:	11
Client ID:	Trip-Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-90578/16	YF03x16.D
Level 2	IC 410-90578/15	YF03x15.D
Level 3	IC 410-90578/14	YF03x14.D
Level 4	IC 410-90578/13	YF03x13.D
Level 5	ICIS 410-90578/12	YF03x12.D
Level 6	IC 410-90578/11	YF03x11.D
Level 7	IC 410-90578/10	YF03x10.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	0.2207 0.3439	0.2850 0.3161	0.3156	0.3255	0.3601	Ave		0.3096			0.1000	14.8		20.0			
Chloromethane	0.3008 0.3422	0.3058 0.2812	0.3220	0.3317	0.3280	Ave		0.3160			0.1000	6.7		20.0			
1,3-Butadiene	0.2814 0.2962	0.2855 0.2609	0.2608	0.2868	0.2730	Ave		0.2778				4.9		20.0			
Vinyl chloride	0.2426 0.3244	0.2820 0.2744	0.2968	0.3049	0.3239	Ave		0.2927			0.1000	10.0		20.0			
Bromomethane	0.1843 0.2041	0.1999 0.1833	0.2196	0.2186	0.2175	Ave		0.2039			0.1000	7.7		20.0			
Chloroethane	0.1554 0.1732	0.1753 0.1516	0.1883	0.1898	0.1892	Ave		0.1747			0.1000	9.2		20.0			
Dichlorofluoromethane	0.3785 0.4251	0.3793 0.3824	0.3715	0.3806	0.4305	Ave		0.3926			0.1000	6.2		20.0			
Trichlorofluoromethane	0.3162 0.4113	0.3698 0.3901	0.3915	0.3939	0.4265	Ave		0.3856			0.1000	9.2		20.0			
n-Pentane	0.3834 0.4185	0.4398 0.3698	0.3610	0.4366	0.4198	Ave		0.4041				8.0		20.0			
Ethyl ether	0.2215 0.2435	0.2310 0.2221	0.2157	0.2521	0.2377	Ave		0.2319				5.7		20.0			
Freon 123a	0.3028 0.2876	0.2929 0.2680	0.2791	0.2948	0.2813	Ave		0.2867				4.0		20.0			
Acrolein	1.8332 1.9454	1.7204 1.7147	2.0205	1.6770	1.8258	Ave		1.8196				7.0		20.0			
1,1-Dichloroethene	0.2298 0.2577	0.2650 0.2575	0.2468	0.2710	0.2595	Ave		0.2553			0.1000	5.3		20.0			
Acetone	0.9982 0.9968	0.9633 0.9848	1.0389	0.9401	1.1015	Ave		1.0034			0.1000	5.3		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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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								
Freon 113	0.2111 0.2799	0.2790 0.2770	0.2459	0.2903	0.2809	Ave		0.2663			0.1000	10.5		20.0			
2-Propanol	0.7031 0.7174	0.6522 0.7061	0.7395	0.7384	0.7277	Ave		0.7121				4.2		20.0			
Methyl iodide	0.4348 0.4874	0.4885 0.4901	0.4689	0.5116	0.4892	Ave		0.4815				5.0		20.0			
Carbon disulfide	0.8260 0.9070	0.8782 0.9066	0.8296	0.9436	0.9057	Ave		0.8852			0.1000	4.9		20.0			
Methyl acetate	0.5349 0.5157	0.4989 0.5024	0.5034	0.5348	0.5154	Ave		0.5151			0.1000	2.9		20.0			
Allyl chloride	0.4319 0.4942	0.4869 0.4875	0.4761	0.5153	0.4912	Ave		0.4833				5.3		20.0			
Methylene Chloride	0.3084 0.3100	0.3136 0.3066	0.3081	0.3263	0.3106	Ave		0.3119			0.1000	2.1		20.0			
t-Butyl alcohol	1.2986 1.3319	1.2322 1.3543	1.3845	1.3912	1.3940	Ave		1.3409				4.4		20.0			
Acrylonitrile	0.2293 0.2686	0.2398 0.2563	0.2852	0.2754	0.2936	Ave		0.2640				8.9		20.0			
Methyl tertiary butyl ether	0.9072 1.0296	0.9766 1.0220	0.9716	1.0494	1.0227	Ave		0.9970			0.1000	4.9		20.0			
trans-1,2-Dichloroethene	0.2698 0.3005	0.3064 0.2986	0.2879	0.3172	0.3002	Ave		0.2972			0.1000	5.0		20.0			
n-Hexane	0.3890 0.5193	0.4841 0.5056	0.4018	0.5239	0.5026	Ave		0.4752				11.8		20.0			
1,1-Dichloroethane	0.5084 0.5534	0.5594 0.5521	0.5296	0.5829	0.5549	Ave		0.5487			0.2000	4.3		20.0			
di-Isopropyl ether	0.9066 1.0835	1.0066 1.0411	1.0155	1.1176	1.0813	Ave		1.0360				6.7		20.0			
2-Chloro-1,3-butadiene	0.3753 0.4967	0.4362 0.5066	0.4227	0.5045	0.4879	Ave		0.4614				11.0		20.0			
Ethyl t-butyl ether	0.8214 1.0062	0.9065 0.9901	0.9259	1.0145	0.9990	Ave		0.9519				7.5		20.0			
2-Butanone	0.3425 0.3909	0.3456 0.3613	0.4039	0.3885	0.4254	Ave		0.3797			0.1000	8.2		20.0			
cis-1,2-Dichloroethene	0.3082 0.3418	0.3442 0.3398	0.3297	0.3587	0.3412	Ave		0.3377			0.1000	4.6		20.0			
2,2-Dichloropropane	0.3653 0.4390	0.4150 0.4474	0.4008	0.4541	0.4363	Ave		0.4226				7.4		20.0			
Propionitrile	1.4308 1.4698	1.3846 1.5179	1.4769	1.5103	1.5033	Ave		1.4705				3.3		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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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								
Methacrylonitrile	0.2273 0.2595	0.2357 0.2531	0.2541	0.2667	0.2609	Ave		0.2510				5.7		20.0			
Bromochloromethane	0.1614 0.1797	0.1765 0.1835	0.1767	0.1856	0.1784	Ave		0.1774				4.4		20.0			
Tetrahydrofuran	1.1560 1.3900	1.1475 1.4955	1.3557	1.3019	1.4502	Ave		1.3281				10.2		20.0			
Chloroform	0.4910 0.5285	0.5204 0.5386	0.5029	0.5448	0.5236	Ave		0.5214			0.2000	3.6		20.0			
1,1,1-Trichloroethane	0.4003 0.4567	0.4343 0.4737	0.4175	0.4660	0.4504	Ave		0.4427			0.1000	6.0		20.0			
Cyclohexane	0.4506 0.5966	0.5540 0.5887	0.4811	0.5979	0.5906	Ave		0.5513			0.1000	11.0		20.0			
1,1-Dichloropropene	0.3691 0.4465	0.4271 0.4518	0.4049	0.4580	0.4464	Ave		0.4291				7.5		20.0			
Carbon tetrachloride	0.3082 0.4010	0.3634 0.4204	0.3479	0.3989	0.3926	Ave		0.3761			0.1000	10.3		20.0			
Isobutyl alcohol	0.4173 0.4497	0.4112 0.4620	0.4741	0.4605	0.4704	Ave		0.4493				5.6		20.0			
Benzene	1.2384 1.3112	1.3154 1.2921	1.2630	1.3793	1.3107	Ave		1.3014			0.5000	3.4		20.0			
1,2-Dichloroethane	0.4795 0.4532	0.4529 0.4594	0.4356	0.4635	0.4460	Ave		0.4557			0.1000	3.0		20.0			
t-Amyl methyl ether	0.8202 0.9895	0.9086 0.9649	0.9208	1.0121	0.9924	Ave		0.9441				7.1		20.0			
n-Heptane	0.4845 0.5858	0.5881 0.5672	0.4589	0.5975	0.5710	Ave		0.5504				10.0		20.0			
n-Butanol	0.3542 0.4177	0.3692 0.4217	0.4378	0.4308	0.4288	Ave		0.4086				8.1		20.0			
Trichloroethene	0.3184 0.3291	0.3276 0.3362	0.3103	0.3439	0.3275	Ave		0.3276			0.2000	3.4		20.0			
Methylcyclohexane	0.4653 0.6162	0.5805 0.5986	0.5520	0.6288	0.6028	Ave		0.5777			0.1000	9.6		20.0			
1,2-Dichloropropane	0.3267 0.3529	0.3470 0.3324	0.3418	0.3716	0.3554	Ave		0.3468			0.1000	4.3		20.0			
t-Amyl ethyl ether	0.3867 0.5112	0.4539 0.4925	0.4729	0.5166	0.5058	Ave		0.4771				9.6		20.0			
Methyl methacrylate	0.2979 0.3946	0.3342 0.3997	0.3461	0.3875	0.3902	Ave		0.3643				10.7		20.0			
1,4-Dioxane	0.0825 0.0970	0.0924 0.0999	0.1026	0.1019	0.0968	Ave		0.0961			0.0050	7.2		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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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								
Dibromomethane	0.2072 0.2243	0.2096 0.2284	0.2132	0.2254	0.2222	Ave		0.2186				3.9		20.0			
Bromodichloromethane	0.3252 0.4155	0.3533 0.4349	0.3636	0.4026	0.4017	Ave		0.3853			0.2000	10.1		20.0			
2-Nitropropane	1.6166 2.4311	1.7607 2.7315	2.1268	2.1363	2.5137	Ave		2.1881				18.4		20.0			
2-Chloroethyl vinyl ether	0.1417 0.2212	0.1572 0.2297	0.1926	0.2098	0.2127	Ave		0.1950				17.1		20.0			
cis-1,3-Dichloropropene	0.4369 0.5758	0.4933 0.5858	0.5159	0.5725	0.5652	Ave		0.5350			0.2000	10.3		20.0			
4-Methyl-2-pentanone	0.5117 0.7020	0.5733 0.6399	0.7360	0.7001	0.7736	Ave		0.6624			0.1000	14.0		20.0			
Toluene	1.0256 1.0944	1.1068 1.1011	1.0433	1.1541	1.1018	Ave		1.0896			0.4000	3.9		20.0			
trans-1,3-Dichloropropene	0.5321 0.7158	0.5938 0.7376	0.6179	0.6979	0.7065	Ave		0.6574			0.1000	11.6		20.0			
Ethyl methacrylate	0.5037 0.8115	0.6117 0.8165	0.6926	0.7848	0.7971	Ave		0.7168				16.8		20.0			
1,1,2-Trichloroethane	0.3926 0.4343	0.4198 0.4402	0.4198	0.4530	0.4373	Ave		0.4281			0.1000	4.6		20.0			
Tetrachloroethene	0.4195 0.4958	0.4813 0.4958	0.4269	0.5088	0.5172	Ave		0.4779			0.2000	8.2		20.0			
1,3-Dichloropropane	0.6918 0.7635	0.7279 0.7566	0.7241	0.7824	0.7712	Ave		0.7454				4.3		20.0			
2-Hexanone	0.5430 0.7639	0.6138 0.6930	0.8239	0.7647	0.8585	Ave		0.7230			0.1000	15.7		20.0			
Dibromochloromethane	0.3377 0.4740	0.3862 0.5048	0.3962	0.4543	0.4647	Ave		0.4311				13.7		20.0			
1,2-Dibromoethane	0.4269 0.4886	0.4486 0.5028	0.4522	0.4924	0.4837	Ave		0.4708			0.1000	6.0		20.0			
1-Chlorohexane	0.5645 0.6141	0.5853 0.6074	0.5085	0.6268	0.6129	Ave		0.5885				7.0		20.0			
Chlorobenzene	1.2066 1.2487	1.2853 1.2351	1.2218	1.3085	1.2581	Ave		1.2520			0.5000	2.8		20.0			
1,1,1,2-Tetrachloroethane	0.3624 0.4274	0.3871 0.4352	0.3934	0.4313	0.4270	Ave		0.4091				6.9		20.0			
Ethylbenzene	1.8259 2.1030	2.0709 1.9968	1.9490	2.2007	2.1238	Ave		2.0386			0.1000	6.1		20.0			
m&p-Xylene	0.7055 0.8393	0.8229 0.8091	0.7840	0.8801	0.8506	Ave		0.8131			0.1000	6.9		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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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								
o-Xylene	0.6496 0.8197	0.7653 0.8023	0.7545	0.8499	0.8300	Ave		0.7816			0.3000	8.6		20.0			
Styrene	0.9265 1.4024	1.1881 1.3604	1.2525	1.4139	1.3984	Ave		1.2775			0.3000	13.8		20.0			
Bromoform	0.2475 0.3746	0.2705 0.4090	0.2978	0.3455	0.3634	Ave		0.3298			0.1000	17.9		20.0			
Isopropylbenzene	1.5803 2.0866	1.9639 2.0039	1.8557	2.1651	2.1171	Ave		1.9675			0.1000	10.2		20.0			
Cyclohexanone	0.3952 0.5911	0.4993 0.5502	0.5615	0.5725	0.5716	Ave		0.5345				12.7		20.0			
1,1,2,2-Tetrachloroethane	1.3125 1.3692	1.3825 1.3233	1.4756	1.4468	1.4034	Ave		1.3876			0.3000	4.3		20.0			
trans-1,4-Dichloro-2-butene	0.4305 0.4982	0.4570 0.4611	0.5067	0.5181	0.5148	Ave		0.4838				7.0		20.0			
Bromobenzene	1.0203 1.0228	1.0038 0.9875	0.9890	1.0454	1.0270	Ave		1.0137				2.1		20.0			
1,2,3-Trichloropropane	0.4499 0.4406	0.4437 0.4340	0.4552	0.4510	0.4466	Ave		0.4459				1.6		20.0			
N-Propylbenzene	4.1294 4.5098	4.6245 4.0499	4.1889	4.7631	4.5861	Ave		4.4074				6.3		20.0			
2-Chlorotoluene	0.8965 0.9618	0.9429 0.9529	0.9138	0.9974	0.9666	Ave		0.9474				3.6		20.0			
1,3,5-Trimethylbenzene	2.7123 3.3229	3.2059 3.1370	3.0070	3.4636	3.3327	Ave		3.1688				7.9		20.0			
4-Chlorotoluene	0.8815 1.0104	0.9969 0.9948	0.9671	1.0574	1.0203	Ave		0.9898				5.6		20.0			
tert-Butylbenzene	0.5349 0.7270	0.7031 0.7147	0.6074	0.7382	0.7217	Ave		0.6781				11.3		20.0			
Pentachloroethane	0.4562 0.5743	0.5082 0.6178	0.5975	0.5696	0.5209	Ave		0.5492				10.3		20.0			
1,2,4-Trimethylbenzene	2.6362 3.4766	3.2895 3.2131	3.2403	3.5707	3.4897	Ave		3.2737				9.6		20.0			
sec-Butylbenzene	3.3969 4.3249	4.2049 3.8651	3.7724	4.4896	4.3250	Ave		4.0541				9.6		20.0			
1,3-Dichlorobenzene	1.8228 1.9509	1.9736 1.8426	1.8885	2.0174	1.9694	Ave		1.9236			0.6000	3.8		20.0			
p-Isopropyltoluene	2.7161 3.7633	3.5470 3.3712	3.2656	3.8236	3.7607	Ave		3.4639				11.3		20.0			
1,4-Dichlorobenzene	2.0167 1.9977	2.0248 1.8920	1.9586	2.0670	2.0140	Ave		1.9958			0.5000	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trimethylbenzene	3.2072 3.4662	3.3602 3.1822	3.5420	3.5873	3.4536	Ave		3.3998				4.6		20.0			
Benzyl chloride	2.1546 3.0174	2.4380 2.9262	2.8131	2.9470	3.0155	Ave		2.7588				12.1		20.0			
1,3-Diethylbenzene	1.8379 2.2769	2.1496 2.1626	2.2398	2.3558	2.2522	Ave		2.1821				7.7		20.0			
1,4-Diethylbenzene	1.9141 2.4012	2.2943 2.2332	2.3368	2.4879	2.3660	Ave		2.2905				8.1		20.0			
n-Butylbenzene	1.6097 1.9340	1.8966 1.7807	1.6977	2.0003	1.9227	Ave		1.8345				7.7		20.0			
1,2-Dichlorobenzene	1.7668 1.8883	1.8871 1.8198	1.8631	1.9475	1.9032	Ave		1.8680			0.4000	3.2		20.0			
1,2-Diethylbenzene	1.5729 1.8782	1.8038 1.7687	1.8889	1.9408	1.8586	Ave		1.8160				6.7		20.0			
1,2-Dibromo-3-Chloropropane	0.3081 0.4017	0.3327 0.4035	0.3774	0.3835	0.3987	Ave		0.3722			0.0500	10.0		20.0			
1,3,5-Trichlorobenzene	1.3659 1.5250	1.4546 1.4526	1.3619	1.5014	1.4752	Ave		1.4481				4.3		20.0			
1,2,4-Trichlorobenzene	1.2432 1.4151	1.2786 1.3610	1.2511	1.3589	1.3665	Ave		1.3249			0.2000	5.0		20.0			
Hexachlorobutadiene	0.6742 0.6534	0.6392 0.6190	0.5191	0.6480	0.6173	Ave		0.6243				8.1		20.0			
Naphthalene	3.7527 4.9187	4.2169 4.2870	4.6141	4.8591	4.9091	Ave		4.5082				9.8		20.0			
1,2,3-Trichlorobenzene	1.2476 1.3543	1.2829 1.3231	1.2363	1.3090	1.3118	Ave		1.2950				3.2		20.0			
2-Methylnaphthalene	1.8729 2.9974	2.1032 2.8463	2.7211	2.7258	2.7689	Ave		2.5765				16.2		20.0			
Dibromofluoromethane (Surr)	0.2282 0.2323	0.2301 0.2337	0.2307	0.2318	0.2317	Ave		0.2312				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0607 0.0612	0.0617 0.0607	0.0622	0.0612	0.0609	Ave		0.0612				0.9		20.0			
Toluene-d8 (Surr)	1.2948 1.2989	1.3024 1.3306	1.3040	1.3094	1.3082	Ave		1.3069				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.4857 0.4823	0.4868 0.5004	0.4852	0.4841	0.4838	Ave		0.4869				1.3		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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-90578/16	YF03x16.D
Level 2	IC 410-90578/15	YF03x15.D
Level 3	IC 410-90578/14	YF03x14.D
Level 4	IC 410-90578/13	YF03x13.D
Level 5	ICIS 410-90578/12	YF03x12.D
Level 6	IC 410-90578/11	YF03x11.D
Level 7	IC 410-90578/10	YF03x10.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	5180 797518	27082 2011694	73783	155550	432702	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	7061 793625	29056 1789401	75281	158522	394163	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	6606 687002	27122 1659919	60978	137054	328000	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	5695 752370	26793 1746051	69404	145714	389237	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	4327 473223	18991 1166696	51349	104467	261358	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	3647 401639	16659 964451	44034	90683	227358	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	8884 985797	36039 2433619	86849	181908	517295	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	7423 953803	35133 2482522	91537	188264	512432	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	9000 970673	41782 2352973	84406	208633	504410	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	5201 564935	21951 1413338	50450	120497	285648	1.00 100	4.00 300	10.0	20.0	50.0
Freon 123a	FB	Ave	7107 667004	27830 1705719	65249	140899	338062	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd10	Ave	32415 3397840	127792 7338214	376163	633793	1696678	10.0 1000	40.0 3000	100	200	500
1,1-Dichloroethene	FB	Ave	5395 597534	25173 1638537	57714	129498	311850	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd10	Ave	3530 348198	14310 842840	38682	71056	204710	2.00 200	8.00 600	20.0	40.0	100
Freon 113	FB	Ave	4955	26512	57505	138757	337526	1.00	4.00	10.0	20.0	50.0

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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
			649138	1762617				100	300			
2-Propanol	TBAd10	Ave	24865 626467	96882 1510912	137665	279035	338111	20.0 500	80.0 1500	100	200	250
Methyl iodide	FB	Ave	10206 1130419	46416 3118549	109630	244481	587821	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	19391 2103430	83434 5769235	193957	450956	1088316	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	12557 1195898	47404 3197142	117695	255602	619260	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	10139 1146034	46256 3102449	111309	246244	590222	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	7240 718826	29793 1951021	72043	155925	373180	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	45923 1163096	183047 2897673	257749	525730	647660	20.0 500	80.0 1500	100	200	250
Acrylonitrile	FB	Ave	5382 622891	22787 1630963	66683	131591	352829	1.00 100	4.00 300	10.0	20.0	50.0
Methyl tertiary butyl ether	FB	Ave	21297 2387683	92781 6503716	227181	501491	1228829	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	6333 696840	29111 1900063	67316	151594	360716	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	9132 1204387	45997 3217651	93937	250367	603898	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	11935 1283480	53150 3513407	123823	278556	666756	1.00 100	4.00 300	10.0	20.0	50.0
di-Isopropyl ether	FB	Ave	21282 2512737	95635 6625072	237422	534125	1299268	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	8811 1151840	41441 3223857	98838	241119	586266	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	19281 2333514	86128 6300312	216480	484853	1200334	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone	FB	Ave	16078 1813311	65673 4598612	188860	371291	1022322	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	7236 792669	32700 2162462	77093	171431	410043	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	8575 1018034	39431 2846762	93713	217026	524292	1.00 100	4.00 300	10.0	20.0	50.0
Propionitrile	TBAd10	Ave	50597 1283510	205695 3247766	274947	570762	698452	20.0 500	80.0 1500	100	200	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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
Methacrylonitrile	FB	Ave	53358 1504459	223938 4026336	297109	637197	783845	10.0 250	40.0 750	50.0	100	125
Bromochloromethane	FB	Ave	3789 416705	16765 1167530	41324	88702	214411	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd10	Ave	4088 485540	17047 1279951	50478	98403	269511	2.00 200	8.00 600	20.0	40.0	100
Chloroform	FB	Ave	11525 1225673	49445 3427397	117581	260350	629125	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	9398 1059124	41261 3014664	97615	222706	541184	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	10578 1383568	52630 3746474	112486	285715	709601	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	8665 1035529	40581 2875071	94668	218857	536349	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	7235 930046	34523 2675368	81336	190646	471782	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd10	Ave	36892 981661	152723 2471072	220642	435037	546386	50.0 1250	200 3750	250	500	625
Benzene	FB	Ave	29070 3040751	124978 8222187	295303	659181	1574913	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	11256 1050976	43026 2923438	101845	221519	535911	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	19254 2294704	86325 6140038	215298	483663	1192401	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	11373 1358466	55872 3609382	107291	285543	686064	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd10	Ave	62634 1823829	274233 4511546	407524	814106	996232	100 2500	400 7500	500	1000	1250
Trichloroethene	FB	Ave	7475 763315	31127 2139244	72541	164368	393465	1.00 100	4.00 300	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	10922 1429093	55150 3809425	129072	300484	724328	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	7670 818397	32965 2115406	79926	177599	427036	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	9078 1185482	43125 3134281	110567	246877	607820	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	6992 915166	31755 2543376	80912	185193	468917	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	TBAd10	Ave	7290 211659	34317 534584	47734	96289	112457	50.0 1250	200 3750	250	500	625
Dibromomethane	FB	Ave	4864 520075	19910 1453413	49840	107727	267051	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	7635 963539	33563 2767776	85002	192423	482641	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd10	Ave	5717 849201	26157 2337798	79190	161464	467162	2.00 200	8.00 600	20.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	3327 513019	14937 1461716	45025	100259	255632	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	10257 1335312	46865 3727673	120618	273586	679100	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone	FB	Ave	24024 3256147	108946 8144492	344165	669126	1859086	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd5	Ave	17978 1942770	79059 5336176	184988	417260	1003374	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd5	Ave	9328 1270687	42416 3574563	109551	252309	643349	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd5	Ave	8829 1440531	43693 3956990	122798	283753	725882	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	6882 771009	29986 2133088	74424	163769	398192	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	7353 880143	34380 2402690	75690	183963	471003	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	12127 1355384	51994 3666480	128393	282874	702310	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	19038 2712286	87678 6716570	292147	552932	1563622	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	5919 841431	27583 2446505	70239	164253	423146	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane	CBZd5	Ave	7484 867417	32044 2436818	80178	178044	440443	1.00 100	4.00 300	10.0	20.0	50.0
1-Chlorohexane	CBZd5	Ave	9895 1090178	41810 2943409	90165	226604	558107	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	21151 2216737	91807 5985489	216632	473089	1145696	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	6352 758783	27650 2108965	69748	155924	388828	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	32006 3733224	147921 9676377	345563	795664	1934013	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
m&p-Xylene	CBZd5	Ave	24732 2979815	117552 7842335	278002	636424	1549107	2.00 200	8.00 600	20.0	40.0	100
o-Xylene	CBZd5	Ave	11387 1455164	54662 3887996	133776	307273	755791	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	16240 2489569	84864 6592599	222076	511187	1273475	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	4339 665020	19320 1982070	52808	124921	330893	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	27702 3704233	140275 9710917	329018	782786	1927923	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd10	Ave	34937 1290349	185440 2942859	261334	540879	663860	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd4	Ave	12487 1331717	54132 3556430	142301	286352	696293	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	40956 1211554	178960 3098161	244313	512775	638567	10.0 250	40.0 750	50.0	100	125
Bromobenzene	DCBd4	Ave	9707 994816	39305 2654010	95370	206904	509541	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	4280 428594	17375 1166386	43900	89272	221594	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	39286 4386424	181076 10884695	403960	942752	2275303	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	8529 935469	36921 2561065	88119	197412	479588	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	25804 3232043	125529 8430985	289980	685543	1653460	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	8386 982807	39033 2673554	93263	209282	506196	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	5089 707112	27530 1920834	58573	146110	358045	1.00 100	4.00 300	10.0	20.0	50.0
Pentachloroethane	DCBd4	Ave	4340 558549	19898 1660351	57616	112742	258427	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd4	Ave	25080 3381495	128804 8635465	312478	706737	1731342	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	32317 4206561	164645 10387994	363786	888617	2145787	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	17342 1897518	77278 4952134	182119	399301	977096	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd4	Ave	25840 3660396	138883 9060587	314921	756796	1865815	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	19186	79282	188881	409119	999229	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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
			1943038	5084864				100	300			
1,2,3-Trimethylbenzene	DCBd4	Ave	30512 3371394	131570 8552473	341569	710015	1713436	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd4	Ave	20498 2934885	95463 7864403	271277	583295	1496108	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd4	Ave	17485 2214615	84170 5812329	215996	466277	1117417	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd4	Ave	18210 2335519	89834 6001875	225352	492413	1173850	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	15314 1881054	74262 4785900	163719	395903	953923	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	16809 1836627	73892 4891066	179668	385453	944254	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd4	Ave	14964 1826791	70628 4753523	182155	384142	922107	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	2931 390734	13026 1084581	36396	75903	197811	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	12995 1483265	56954 3904064	131335	297162	731906	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	11827 1376395	50063 3657842	120651	268968	677952	1.00 100	4.00 300	10.0	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	6414 635537	25030 1663543	50062	128254	306248	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	35702 4784156	165115 11521863	444963	961743	2435563	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	11869 1317223	50231 3556025	119220	259086	650821	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd4	Ave	17818 2915375	82350 7649859	262408	539511	1373753	1.00 100	4.00 300	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	267880 269364	273286 247882	269653	276971	278366	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	71250 70923	73240 64351	72738	73098	73162	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd5	Ave	1134827 1152898	1162846 1074714	1156022	1183498	1191289	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	425712 428119	434665 404181	430113	437556	440564	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-90578/16	YF03x16.D
Level 2	IC 410-90578/15	YF03x15.D
Level 3	IC 410-90578/14	YF03x14.D
Level 4	IC 410-90578/13	YF03x13.D
Level 5	ICIS 410-90578/12	YF03x12.D
Level 6	IC 410-90578/11	YF03x11.D
Level 7	IC 410-90578/10	YF03x10.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	-28.7 2.1	-7.9	1.9	5.1	16.3	11.1	50 30	30	30	30	30	30
Chloromethane	-4.8 -11.0	-3.2	1.9	5.0	3.8	8.3	50 30	30	30	30	30	30
1,3-Butadiene	1.3 -6.1	2.8	-6.1	3.2	-1.7	6.6	50 30	30	30	30	30	30
Vinyl chloride	-17.1 -6.3	-3.7	1.4	4.2	10.7	10.8	50 30	30	30	30	30	30
Bromomethane	-9.6 -10.1	-2.0	7.7	7.2	6.7	0.1	50 30	30	30	30	30	30
Chloroethane	-11.1 -13.2	0.4	7.8	8.6	8.3	-0.9	50 30	30	30	30	30	30
Dichlorofluoromethane	-3.6 -2.6	-3.4	-5.4	-3.0	9.7	8.3	50 30	30	30	30	30	30
Trichlorofluoromethane	-18.0 1.2	-4.1	1.5	2.2	10.6	6.7	50 30	30	30	30	30	30
n-Pentane	-5.1 -8.5	8.8	-10.7	8.0	3.9	3.6	50 30	30	30	30	30	30
Ethyl ether	-4.5 -4.3	-0.4	-7.0	8.7	2.5	5.0	50 30	30	30	30	30	30
Freon 123a	5.6 -6.5	2.2	-2.6	2.9	-1.9	0.3	50 30	30	30	30	30	30
Acrolein	0.7 -5.8	-5.5	11.0	-7.8	0.3	6.9	50 30	30	30	30	30	30
1,1-Dichloroethene	-10.0 0.8	3.8	-3.3	6.1	1.6	0.9	50 30	30	30	30	30	30
Acetone	-0.5 -1.9	-4.0	3.5	-6.3	9.8	-0.7	50 30	30	30	30	30	30
Freon 113	-20.7 4.0	4.8	-7.6	9.0	5.5	5.1	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
2-Propanol	-1.3 -0.8	-8.4	3.8	3.7	2.2	0.8	50 30	30	30	30	30	30
Methyl iodide	-9.7 1.8	1.5	-2.6	6.2	1.6	1.2	50 30	30	30	30	30	30
Carbon disulfide	-6.7 2.4	-0.8	-6.3	6.6	2.3	2.5	50 30	30	30	30	30	30
Methyl acetate	3.9 -2.5	-3.1	-2.3	3.8	0.1	0.1	50 30	30	30	30	30	30
Allyl chloride	-10.6 0.9	0.7	-1.5	6.6	1.6	2.3	50 30	30	30	30	30	30
Methylene Chloride	-1.1 -1.7	0.5	-1.2	4.6	-0.4	-0.6	50 30	30	30	30	30	30
t-Butyl alcohol	-3.2 1.0	-8.1	3.2	3.7	4.0	-0.7	50 30	30	30	30	30	30
Acrylonitrile	-13.2 -2.9	-9.2	8.0	4.3	11.2	1.7	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-9.0 2.5	-2.1	-2.5	5.3	2.6	3.3	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-9.2 0.5	3.1	-3.1	6.7	1.0	1.1	50 30	30	30	30	30	30
n-Hexane	-18.1 6.4	1.9	-15.5	10.2	5.8	9.3	50 30	30	30	30	30	30
1,1-Dichloroethane	-7.3 0.6	2.0	-3.5	6.2	1.1	0.9	50 30	30	30	30	30	30
di-Isopropyl ether	-12.5 0.5	-2.8	-2.0	7.9	4.4	4.6	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-18.7 9.8	-5.5	-8.4	9.3	5.7	7.6	50 30	30	30	30	30	30
Ethyl t-butyl ether	-13.7 4.0	-4.8	-2.7	6.6	4.9	5.7	50 30	30	30	30	30	30
2-Butanone	-9.8 -4.8	-9.0	6.4	2.3	12.0	3.0	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-8.7 0.6	1.9	-2.4	6.2	1.1	1.2	50 30	30	30	30	30	30
2,2-Dichloropropane	-13.6 5.9	-1.8	-5.1	7.5	3.3	3.9	50 30	30	30	30	30	30
Propionitrile	-2.7 3.2	-5.8	0.4	2.7	2.2	0.0	50 30	30	30	30	30	30
Methacrylonitrile	-9.5 0.8	-6.1	1.2	6.2	3.9	3.4	50 30	30	30	30	30	30
Bromochloromethane	-9.0 3.4	-0.5	-0.4	4.6	0.6	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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
Tetrahydrofuran	-13.0 12.6	-13.6	2.1	-2.0	9.2	4.7	50 30	30	30	30	30	30
Chloroform	-5.8 3.3	-0.2	-3.5	4.5	0.4	1.4	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-9.6 7.0	-1.9	-5.7	5.3	1.7	3.2	50 30	30	30	30	30	30
Cyclohexane	-18.3 6.8	0.5	-12.7	8.4	7.1	8.2	50 30	30	30	30	30	30
1,1-Dichloropropene	-14.0 5.3	-0.5	-5.6	6.7	4.0	4.1	50 30	30	30	30	30	30
Carbon tetrachloride	-18.0 11.8	-3.4	-7.5	6.1	4.4	6.6	50 30	30	30	30	30	30
Isobutyl alcohol	-7.1 2.8	-8.5	5.5	2.5	4.7	0.1	50 30	30	30	30	30	30
Benzene	-4.8 -0.7	1.1	-3.0	6.0	0.7	0.7	50 30	30	30	30	30	30
1,2-Dichloroethane	5.2 0.8	-0.6	-4.4	1.7	-2.1	-0.6	50 30	30	30	30	30	30
t-Amyl methyl ether	-13.1 2.2	-3.8	-2.5	7.2	5.1	4.8	50 30	30	30	30	30	30
n-Heptane	-12.0 3.1	6.8	-16.6	8.6	3.7	6.4	50 30	30	30	30	30	30
n-Butanol	-13.3 3.2	-9.6	7.1	5.4	4.9	2.2	50 30	30	30	30	30	30
Trichloroethene	-2.8 2.6	0.0	-5.3	5.0	0.0	0.5	50 30	30	30	30	30	30
Methylcyclohexane	-19.5 3.6	0.5	-4.4	8.8	4.3	6.7	50 30	30	30	30	30	30
1,2-Dichloropropane	-5.8 -4.2	0.0	-1.4	7.1	2.5	1.7	50 30	30	30	30	30	30
t-Amyl ethyl ether	-18.9 3.2	-4.9	-0.9	8.3	6.0	7.1	50 30	30	30	30	30	30
Methyl methacrylate	-18.2 9.7	-8.3	-5.0	6.4	7.1	8.3	50 30	30	30	30	30	30
1,4-Dioxane	-14.2 3.9	-3.9	6.7	6.0	0.7	0.8	50 30	30	30	30	30	30
Dibromomethane	-5.2 4.5	-4.1	-2.5	3.1	1.7	2.6	50 30	30	30	30	30	30
Bromodichloromethane	-15.6 12.9	-8.3	-5.6	4.5	4.3	7.8	50 30	30	30	30	30	30
2-Nitropropane	-26.1 24.8	-19.5	-2.8	-2.4	14.9	11.1	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
2-Chloroethyl vinyl ether	-27.3 17.8	-19.4	-1.2	7.6	9.1	13.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-18.3 9.5	-7.8	-3.6	7.0	5.6	7.6	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-22.7 -3.4	-13.4	11.1	5.7	16.8	6.0	50 30	30	30	30	30	30
Toluene	-5.9 1.1	1.6	-4.2	5.9	1.1	0.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-19.0 12.2	-9.7	-6.0	6.2	7.5	8.9	50 30	30	30	30	30	30
Ethyl methacrylate	-29.7 13.9	-14.7	-3.4	9.5	11.2	13.2	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-8.3 2.8	-1.9	-2.0	5.8	2.1	1.4	50 30	30	30	30	30	30
Tetrachloroethene	-12.2 3.7	0.7	-10.7	6.5	8.2	3.7	50 30	30	30	30	30	30
1,3-Dichloropropane	-7.2 1.5	-2.3	-2.8	5.0	3.5	2.4	50 30	30	30	30	30	30
2-Hexanone	-24.9 -4.1	-15.1	14.0	5.8	18.7	5.7	50 30	30	30	30	30	30
Dibromochloromethane	-21.7 17.1	-10.4	-8.1	5.4	7.8	9.9	50 30	30	30	30	30	30
1,2-Dibromoethane	-9.3 6.8	-4.7	-3.9	4.6	2.7	3.8	50 30	30	30	30	30	30
1-Chlorohexane	-4.1 3.2	-0.5	-13.6	6.5	4.1	4.4	50 30	30	30	30	30	30
Chlorobenzene	-3.6 -1.4	2.7	-2.4	4.5	0.5	-0.3	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-11.4 6.4	-5.4	-3.8	5.4	4.4	4.5	50 30	30	30	30	30	30
Ethylbenzene	-10.4 -2.1	1.6	-4.4	8.0	4.2	3.2	50 30	30	30	30	30	30
m&p-Xylene	-13.2 -0.5	1.2	-3.6	8.2	4.6	3.2	50 30	30	30	30	30	30
o-Xylene	-16.9 2.6	-2.1	-3.5	8.7	6.2	4.9	50 30	30	30	30	30	30
Styrene	-27.5 6.5	-7.0	-2.0	10.7	9.5	9.8	50 30	30	30	30	30	30
Bromoform	-24.9 24.0	-18.0	-9.7	4.8	10.2	13.6	50 30	30	30	30	30	30
Isopropylbenzene	-19.7 1.8	-0.2	-5.7	10.0	7.6	6.1	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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
Cyclohexanone	-26.1 2.9	-6.6	5.1	7.1	6.9	10.6	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-5.4 -4.6	-0.4	6.3	4.3	1.1	-1.3	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-11.0 -4.7	-5.5	4.7	7.1	6.4	3.0	50 30	30	30	30	30	30
Bromobenzene	0.7 -2.6	-1.0	-2.4	3.1	1.3	0.9	50 30	30	30	30	30	30
1,2,3-Trichloropropane	0.9 -2.7	-0.5	2.1	1.2	0.2	-1.2	50 30	30	30	30	30	30
N-Propylbenzene	-6.3 -8.1	4.9	-5.0	8.1	4.1	2.3	50 30	30	30	30	30	30
2-Chlorotoluene	-5.4 0.6	-0.5	-3.6	5.3	2.0	1.5	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-14.4 -1.0	1.2	-5.1	9.3	5.2	4.9	50 30	30	30	30	30	30
4-Chlorotoluene	-10.9 0.5	0.7	-2.3	6.8	3.1	2.1	50 30	30	30	30	30	30
tert-Butylbenzene	-21.1 5.4	3.7	-10.4	8.9	6.4	7.2	50 30	30	30	30	30	30
Pentachloroethane	-16.9 12.5	-7.5	8.8	3.7	-5.2	4.6	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-19.5 -1.9	0.5	-1.0	9.1	6.6	6.2	50 30	30	30	30	30	30
sec-Butylbenzene	-16.2 -4.7	3.7	-6.9	10.7	6.7	6.7	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-5.2 -4.2	2.6	-1.8	4.9	2.4	1.4	50 30	30	30	30	30	30
p-Isopropyltoluene	-21.6 -2.7	2.4	-5.7	10.4	8.6	8.6	50 30	30	30	30	30	30
1,4-Dichlorobenzene	1.0 -5.2	1.5	-1.9	3.6	0.9	0.1	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-5.7 -6.4	-1.2	4.2	5.5	1.6	2.0	50 30	30	30	30	30	30
Benzyl chloride	-21.9 6.1	-11.6	2.0	6.8	9.3	9.4	50 30	30	30	30	30	30
1,3-Diethylbenzene	-15.8 -0.9	-1.5	2.6	8.0	3.2	4.3	50 30	30	30	30	30	30
1,4-Diethylbenzene	-16.4 -2.5	0.2	2.0	8.6	3.3	4.8	50 30	30	30	30	30	30
n-Butylbenzene	-12.3 -2.9	3.4	-7.5	9.0	4.8	5.4	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.: 410-34553-1 Analy Batch No.: 90578

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/03/2021 17:13 Calibration End Date: 02/03/2021 19:26 Calibration ID: 19872

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
1,2-Dichlorobenzene	-5.4 -2.6	1.0	-0.3	4.3	1.9	1.1	50 30	30	30	30	30	30
1,2-Diethylbenzene	-13.4 -2.6	-0.7	4.0	6.9	2.3	3.4	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-17.2 8.4	-10.6	1.4	3.0	7.1	7.9	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-5.7 0.3	0.4	-6.0	3.7	1.9	5.3	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-6.2 2.7	-3.5	-5.6	2.6	3.1	6.8	50 30	30	30	30	30	30
Hexachlorobutadiene	8.0 -0.9	2.4	-16.8	3.8	-1.1	4.7	50 30	30	30	30	30	30
Naphthalene	-16.8 -4.9	-6.5	2.3	7.8	8.9	9.1	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-3.7 2.2	-0.9	-4.5	1.1	1.3	4.6	50 30	30	30	30	30	30
2-Methylnaphthalene	-27.3 10.5	-18.4	5.6	5.8	7.5	16.3	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-1.3 1.1	-0.5	-0.2	0.3	0.2	0.5	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.8 -0.9	0.7	1.6	-0.1	-0.5	-0.1	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.9 1.8	-0.3	-0.2	0.2	0.1	-0.6	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.2 2.8	0.0	-0.4	-0.6	-0.6	-0.9	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x10.D
Lims ID: IC level7 300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 03-Feb-2021 17:13:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-010
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:31:39 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 18:37:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.044	-0.006	99	2011694	300.0	306.4	
4 Chloromethane	50	2.244	2.250	-0.006	99	1789401	300.0	267.0	
5 Butadiene	39	2.360	2.366	-0.006	93	1659919	300.0	281.7	
6 Vinyl chloride	62	2.360	2.372	-0.012	98	1746051	300.0	281.2	
8 Bromomethane	94	2.695	2.707	-0.012	90	1166696	300.0	269.7	
9 Chloroethane	64	2.780	2.786	-0.006	100	964451	300.0	260.3	
10 Dichlorofluoromethane	67	3.023	3.029	-0.006	97	2433619	300.0	292.3	
11 Trichlorofluoromethane	101	3.102	3.108	-0.006	98	2482522	300.0	303.5	
12 Pentane	43	3.133	3.145	-0.012	96	2352973	300.0	274.5	
14 Ethyl ether	59	3.346	3.358	-0.012	90	1413338	300.1	287.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	90	1705719	300.0	280.5	
16 Acrolein	56	3.516	3.528	-0.012	99	7338214	3000.1	2827.2	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	98	1638537	300.0	302.5	
18 Acetone	58	3.686	3.698	-0.012	100	842840	600.0	588.9	
19 112TCTFE	101	3.704	3.717	-0.013	92	1762617	300.0	312.0	
20 Isopropyl alcohol	45	3.857	3.863	-0.006	99	1510912	1500.0	1487.6	
21 Iodomethane	142	3.881	3.887	-0.006	98	3118549	300.0	305.3	
22 Carbon disulfide	76	3.996	4.009	-0.013	99	5769235	300.0	307.2	
24 Methyl acetate	43	4.118	4.130	-0.012	98	3197142	300.0	292.6	
25 3-Chloro-1-propene	41	4.155	4.167	-0.012	92	3102449	300.0	302.6	
* 26 t-Butyl alcohol-d10 (IS)	65	4.355	4.349	0.006	0	356612	250.0	250.0	
27 Methylene Chloride	84	4.349	4.355	-0.006	93	1951021	300.0	294.9	
28 2-Methyl-2-propanol	59	4.477	4.483	-0.006	99	2897673	1500.0	1514.9	
30 Acrylonitrile	53	4.666	4.678	-0.012	99	1630963	300.0	291.2	
31 Methyl tert-butyl ether	73	4.763	4.769	-0.006	96	6503716	300.0	307.5	
32 trans-1,2-Dichloroethene	96	4.775	4.787	-0.012	99	1900063	300.0	301.4	
33 Hexane	57	5.201	5.213	-0.012	93	3217651	300.0	319.2	
35 1,1-Dichloroethane	63	5.426	5.432	-0.006	96	3513407	300.0	301.9	
36 Isopropyl ether	45	5.487	5.493	-0.006	94	6625072	300.0	301.5	
37 2-Chloro-1,3-butadiene	53	5.536	5.548	-0.012	91	3223857	300.0	329.4	
38 Tert-butyl ethyl ether	59	6.022	6.028	-0.006	97	6300312	300.0	312.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 39 1,2-Dichloroethene, Total	100				0			603.3	
40 2-Butanone (MEK)	43	6.217	6.211	0.006	100	4598612	600.0	570.9	
41 cis-1,2-Dichloroethene	96	6.253	6.259	-0.006	83	2162462	300.0	301.9	
43 2,2-Dichloropropane	77	6.278	6.278	0.000	87	2846762	300.0	317.6	
44 Propionitrile	54	6.290	6.290	0.000	99	3247766	1500.0	1548.3	
45 Methacrylonitrile	67	6.515	6.515	0.000	92	4026336	750.0	756.1	
46 Chlorobromomethane	128	6.588	6.594	-0.006	94	1167530	300.0	310.3	
47 Tetrahydrofuran	71	6.612	6.618	-0.006	90	1279951	600.0	675.6	
48 Chloroform	83	6.734	6.740	-0.006	93	3427397	300.0	309.9	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.953	-0.006	93	247882	50.0	50.5	
50 1,1,1-Trichloroethane	97	6.971	6.971	0.000	98	3014664	300.0	321.0	
51 Cyclohexane	56	7.087	7.087	0.000	90	3746474	300.0	320.4	
52 1,1-Dichloropropene	75	7.184	7.184	0.000	97	2875071	300.0	315.9	
53 Carbon tetrachloride	117	7.190	7.196	-0.006	97	2675368	300.0	335.4	
54 Isobutyl alcohol	41	7.306	7.300	0.006	95	2471072	3750.0	3855.7	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.409	0.000	0	64351	50.0	49.6	
56 Benzene	78	7.446	7.446	0.000	96	8222187	300.0	297.8	
58 1,2-Dichloroethane	62	7.513	7.519	-0.006	98	2923438	300.0	302.4	
59 Tert-amyl methyl ether	73	7.634	7.634	0.000	98	6140038	300.0	306.6	
* 61 Fluorobenzene (IS)	96	7.847	7.847	0.000	99	1060581	50.0	50.0	
62 n-Heptane	43	7.860	7.866	-0.006	92	3609382	300.0	309.2	
63 n-Butanol	56	8.182	8.182	0.000	95	4511546	7500.0	7740.2	
64 Trichloroethene	95	8.328	8.328	0.000	98	2139244	300.0	307.9	
65 Methylcyclohexane	83	8.650	8.650	0.000	95	3809425	300.0	310.8	
66 1,2-Dichloropropane	63	8.663	8.656	0.007	77	2115406	300.0	287.5	
67 2-ethoxy-2-methyl butane	87	8.669	8.662	0.007	92	3134281	300.0	309.7	
68 Methyl methacrylate	69	8.729	8.729	0.000	92	2543376	300.0	329.1	
69 1,4-Dioxane	88	8.748	8.748	0.000	90	534584	3750.0	3897.8	M
70 Dibromomethane	93	8.772	8.772	0.000	97	1453413	300.0	313.4	
72 Dichlorobromomethane	83	9.003	9.003	0.000	99	2767776	300.0	338.7	
73 2-Nitropropane	41	9.247	9.247	0.000	96	2337798	600.0	749.0	
74 2-Chloroethyl vinyl ether	63	9.350	9.350	0.000	92	1461716	300.0	353.4	
75 cis-1,3-Dichloropropene	75	9.539	9.539	0.000	96	3727673	300.0	328.5	
76 4-Methyl-2-pentanone (MIBK)	43	9.697	9.691	0.006	96	8144492	600.0	579.7	
$ 77 Toluene-d8 (Surr)	98	9.849	9.843	0.006	93	1074714	50.0	50.9	
78 Toluene	92	9.922	9.922	0.000	98	5336176	300.0	303.2	
S 80 1,3-Dichloropropene, Total	100				0			665.1	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	92	3574563	300.0	336.6	
82 Ethyl methacrylate	69	10.226	10.220	0.006	90	3956990	300.0	341.7	
83 1,1,2-Trichloroethane	97	10.372	10.372	0.000	91	2133088	300.0	308.4	
84 Tetrachloroethene	166	10.469	10.469	0.000	97	2402690	300.0	311.2	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	91	3666480	300.0	304.5	
87 2-Hexanone	43	10.573	10.567	0.006	95	6716570	600.0	575.1	
89 Chlorodibromomethane	129	10.749	10.749	0.000	90	2446505	300.0	351.3	
90 Ethylene Dibromide	107	10.865	10.865	0.000	98	2436818	300.0	320.4	
S 91 Xylenes, Total	106				0			905.1	
92 1-Chlorohexane	91	11.291	11.291	0.000	98	2943409	300.0	309.6	
* 93 Chlorobenzene-d5 (IS)	117	11.291	11.291	0.000	86	807677	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	95	5985489	300.0	295.9	
95 1,1,1,2-Tetrachloroethane	131	11.400	11.394	0.006	96	2108965	300.0	319.1	
96 Ethylbenzene	91	11.400	11.400	0.000	98	9676377	300.0	293.8	
97 m-Xylene & p-Xylene	106	11.516	11.516	0.000	97	7842335	600.0	597.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 o-Xylene	106	11.844	11.838	0.006	96	3887996	300.0	307.9	
99 Styrene	104	11.856	11.856	0.000	94	6592599	300.0	319.5	
100 Bromoform	173	12.021	12.021	0.000	98	1982070	300.0	372.1	
101 Isopropylbenzene	105	12.142	12.136	0.006	96	9710917	300.0	305.5	
103 Cyclohexanone	55	12.215	12.209	0.006	92	2942859	3749.8	3859.8	
$ 104 4-Bromofluorobenzene (Surr)	95	12.288	12.282	0.006	90	404181	50.0	51.4	
105 1,1,2,2-Tetrachloroethane	83	12.380	12.373	0.007	94	3556430	300.0	286.1	
106 trans-1,4-Dichloro-2-butene	53	12.404	12.398	0.006	84	3098161	750.0	714.8	
107 Bromobenzene	156	12.404	12.404	0.000	91	2654010	300.0	292.3	
108 1,2,3-Trichloropropane	110	12.428	12.422	0.006	84	1166386	300.0	292.0	
109 N-Propylbenzene	91	12.471	12.465	0.006	97	10884695	300.0	275.7	
110 2-Chlorotoluene	126	12.550	12.544	0.006	97	2561065	300.0	301.7	
111 1,3,5-Trimethylbenzene	105	12.605	12.599	0.006	95	8430985	300.0	297.0	
112 4-Chlorotoluene	126	12.641	12.635	0.006	97	2673554	300.0	301.5	
114 tert-Butylbenzene	134	12.848	12.842	0.006	92	1920834	300.0	316.2	
115 Pentachloroethane	167	12.878	12.878	0.000	94	1660351	300.0	337.5	
116 1,2,4-Trimethylbenzene	105	12.891	12.885	0.007	97	8635465	300.0	294.4	
117 sec-Butylbenzene	105	13.012	13.006	0.006	95	10387994	300.0	286.0	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	97	4952134	300.0	287.4	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	95	9060587	300.0	292.0	
* 120 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.000	87	447937	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.183	0.006	94	5084864	300.0	284.4	
122 1,2,3-Trimethylbenzene	105	13.195	13.189	0.006	98	8552473	300.0	280.8	
123 Benzyl chloride	91	13.256	13.256	0.000	98	7864403	300.0	318.2	
124 1,3-Diethylbenzene	119	13.317	13.316	0.001	94	5812329	300.0	297.3	
125 p-Diethylbenzene	119	13.390	13.389	0.001	93	6001875	300.0	292.5	
126 n-Butylbenzene	92	13.408	13.408	0.000	97	4785900	300.0	291.2	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	98	4891066	300.0	292.3	
128 o-diethylbenzene	119	13.463	13.456	0.007	95	4753523	300.0	292.2	
130 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	88	1084581	300.0	325.2	
131 1,3,5-Trichlorobenzene	180	14.120	14.113	0.007	98	3904064	300.0	300.9	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	3657842	300.0	308.2	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	97	1663543	300.0	297.4	
134 Naphthalene	128	14.722	14.716	0.006	98	11521863	300.0	285.3	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	3556025	300.0	306.5	
136 2-Methylnaphthalene	142	15.513	15.507	0.006	91	7649859	300.0	331.4	
S 166 Total Diethylbenzene	1				0			882.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	30.00	Units: uL	
MSV_V_EE_00004	Amount Added:	15.00	Units: uL	
MSV_DCFM_00034	Amount Added:	7.50	Units: uL	
MSV_V_2CEVE_00139	Amount Added:	15.00	Units: uL	
MSV_V_VOA1_00127	Amount Added:	15.00	Units: uL	
MSV_V_VOA3_00066	Amount Added:	6.00	Units: uL	
MSV_V_VOA6_00073	Amount Added:	15.00	Units: uL	
MSV_V_Gas_00209	Amount Added:	7.50	Units: uL	
MSV_HP20_ISSS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Feb-2021 21:31:40 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x10.D

Injection Date: 03-Feb-2021 17:13:30 Instrument ID: 9355 Operator ID: kas02648

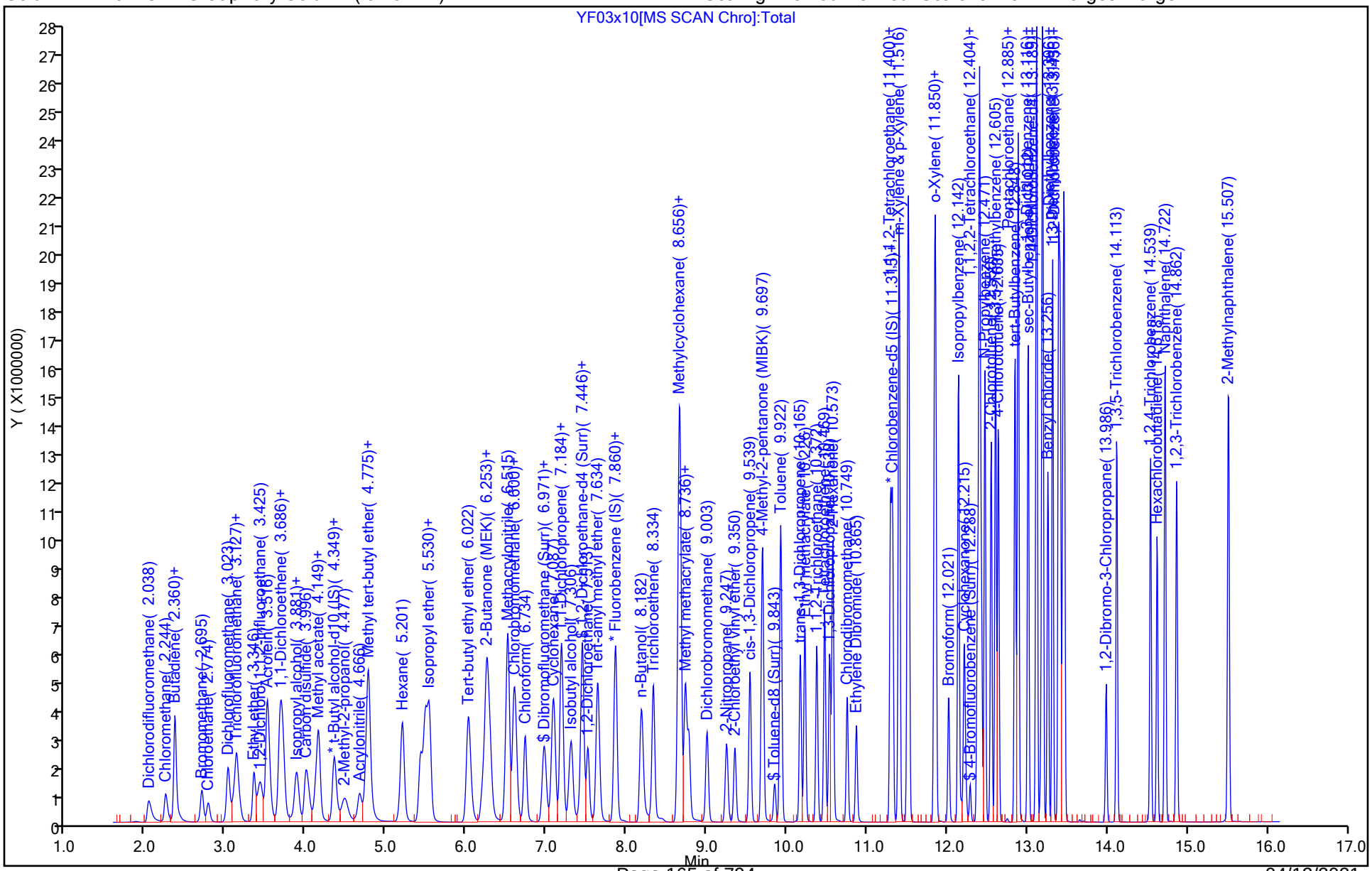
Lims ID: IC level7 300 Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

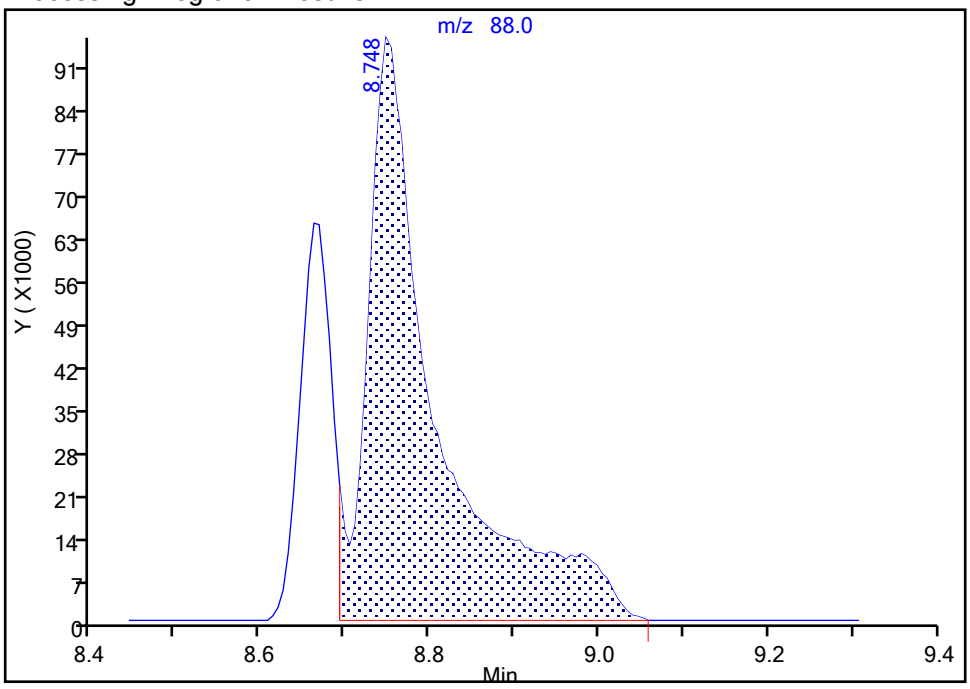
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x10.D
Injection Date: 03-Feb-2021 17:13:30 Instrument ID: 9355
Lims ID: IC level7 300
Client ID:
Operator ID: kas02648 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

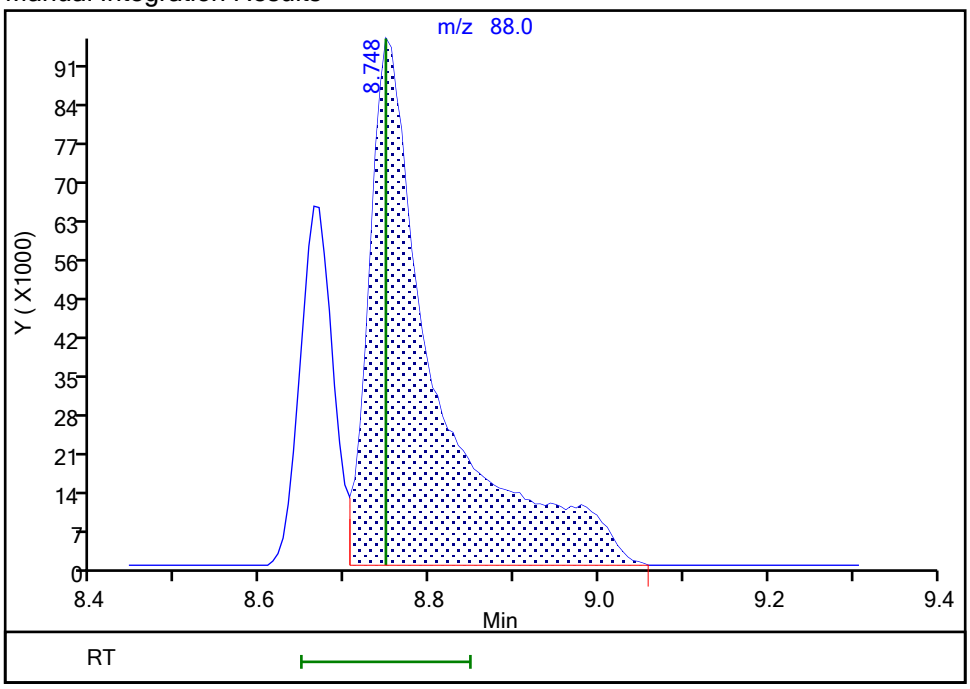
Processing Integration Results

RT: 8.75
Area: 548056
Amount: 3865.5537
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 534584
Amount: 3897.7597
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 18:37:16
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x11.D
Lims ID: IC std6 100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 03-Feb-2021 17:36:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-011
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:31:51 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 18:37:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.044	-0.006	99	797518	100.0	111.1	
4 Chloromethane	50	2.244	2.250	-0.006	99	793625	100.0	108.3	
5 Butadiene	39	2.360	2.366	-0.006	92	687002	100.0	106.6	
6 Vinyl chloride	62	2.366	2.372	-0.006	98	752370	100.0	110.8	
8 Bromomethane	94	2.701	2.707	-0.006	90	473223	100.0	100.1	
9 Chloroethane	64	2.780	2.786	-0.006	100	401639	100.0	99.1	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	985797	100.0	108.3	
11 Trichlorofluoromethane	101	3.108	3.108	0.000	98	953803	100.0	106.7	
12 Pentane	43	3.139	3.145	-0.006	96	970673	100.0	103.6	
14 Ethyl ether	59	3.352	3.358	-0.006	90	564935	100.0	105.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	91	667004	100.0	100.3	
16 Acrolein	56	3.516	3.528	-0.012	99	3397840	1000.0	1069.2	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	98	597534	100.0	100.9	
18 Acetone	58	3.686	3.698	-0.012	100	348198	200.0	198.7	
19 112TCTFE	101	3.705	3.717	-0.012	92	649138	100.0	105.1	
20 Isopropyl alcohol	45	3.857	3.863	-0.006	100	626467	500.0	503.8	
21 Iodomethane	142	3.881	3.887	-0.006	98	1130419	100.0	101.2	
22 Carbon disulfide	76	4.003	4.009	-0.006	99	2103430	100.0	102.5	
24 Methyl acetate	43	4.124	4.130	-0.006	98	1195898	100.0	100.1	
25 3-Chloro-1-propene	41	4.161	4.167	-0.006	93	1146034	100.0	102.3	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.349	0.000	0	436626	250.0	250.0	
27 Methylene Chloride	84	4.349	4.355	-0.006	94	718826	100.0	99.4	
28 2-Methyl-2-propanol	59	4.471	4.483	-0.012	99	1163096	500.0	496.6	
30 Acrylonitrile	53	4.672	4.678	-0.006	99	622891	100.0	101.7	
31 Methyl tert-butyl ether	73	4.769	4.769	0.000	95	2387683	100.0	103.3	
32 trans-1,2-Dichloroethene	96	4.781	4.787	-0.006	98	696840	100.0	101.1	
33 Hexane	57	5.207	5.213	-0.006	93	1204387	100.0	109.3	
35 1,1-Dichloroethane	63	5.426	5.432	-0.006	96	1283480	100.0	100.9	
36 Isopropyl ether	45	5.487	5.493	-0.006	94	2512737	100.0	104.6	
37 2-Chloro-1,3-butadiene	53	5.542	5.548	-0.006	90	1151840	100.0	107.6	
38 Tert-butyl ethyl ether	59	6.022	6.028	-0.006	98	2333514	100.0	105.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 39 1,2-Dichloroethene, Total	100				0			202.3	
40 2-Butanone (MEK)	43	6.211	6.211	0.000	100	1813311	200.0	205.9	
41 cis-1,2-Dichloroethene	96	6.254	6.259	-0.005	83	792669	100.0	101.2	
43 2,2-Dichloropropane	77	6.278	6.278	0.000	87	1018034	100.0	103.9	
44 Propionitrile	54	6.290	6.290	0.000	99	1283510	500.0	499.8	
45 Methacrylonitrile	67	6.515	6.515	0.000	93	1504459	250.0	258.4	
46 Chlorobromomethane	128	6.588	6.594	-0.006	95	416705	100.0	101.3	
47 Tetrahydrofuran	71	6.613	6.618	-0.006	92	485540	200.0	209.3	
48 Chloroform	83	6.734	6.740	-0.006	93	1225673	100.0	101.4	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.953	-0.006	94	269364	50.0	50.2	
50 1,1,1-Trichloroethane	97	6.971	6.971	0.000	98	1059124	100.0	103.2	
51 Cyclohexane	56	7.081	7.087	-0.006	91	1383568	100.0	108.2	
52 1,1-Dichloropropene	75	7.184	7.184	0.000	97	1035529	100.0	104.1	
53 Carbon tetrachloride	117	7.190	7.196	-0.006	97	930046	100.0	106.6	
54 Isobutyl alcohol	41	7.300	7.300	0.000	96	981661	1250.0	1251.0	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.409	0.000	0	70923	50.0	50.0	
56 Benzene	78	7.446	7.446	0.000	96	3040751	100.0	100.7	
58 1,2-Dichloroethane	62	7.513	7.519	-0.006	97	1050976	100.0	99.4	
59 Tert-amyl methyl ether	73	7.635	7.634	0.001	98	2294704	100.0	104.8	
* 61 Fluorobenzene (IS)	96	7.847	7.847	0.000	99	1159574	50.0	50.0	
62 n-Heptane	43	7.860	7.866	-0.006	93	1358466	100.0	106.4	
63 n-Butanol	56	8.176	8.182	-0.006	89	1823829	2500.0	2555.6	
64 Trichloroethene	95	8.328	8.328	0.000	98	763315	100.0	100.5	
65 Methylcyclohexane	83	8.651	8.650	0.000	95	1429093	100.0	106.7	
66 1,2-Dichloropropane	63	8.657	8.656	0.001	72	818397	100.0	101.7	
67 2-ethoxy-2-methyl butane	87	8.663	8.662	0.001	93	1185482	100.0	107.1	
68 Methyl methacrylate	69	8.730	8.729	0.001	93	915166	100.0	108.3	
69 1,4-Dioxane	88	8.748	8.748	0.000	91	211659	1250.0	1260.4	M
70 Dibromomethane	93	8.772	8.772	0.000	97	520075	100.0	102.6	
72 Dichlorobromomethane	83	9.003	9.003	0.000	100	963539	100.0	107.8	
73 2-Nitropropane	41	9.247	9.247	0.000	96	849201	200.0	222.2	
74 2-Chloroethyl vinyl ether	63	9.350	9.350	0.000	91	513019	100.0	113.4	
75 cis-1,3-Dichloropropene	75	9.539	9.539	0.000	96	1335312	100.0	107.6	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.691	0.000	96	3256147	200.0	212.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1152898	50.0	49.7	
78 Toluene	92	9.922	9.922	0.000	98	1942770	100.0	100.4	
S 80 1,3-Dichloropropene, Total	100				0			216.5	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	92	1270687	100.0	108.9	
82 Ethyl methacrylate	69	10.220	10.220	0.000	90	1440531	100.0	113.2	
83 1,1,2-Trichloroethane	97	10.372	10.372	0.000	90	771009	100.0	101.4	
84 Tetrachloroethene	166	10.469	10.469	0.000	97	880143	100.0	103.7	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	91	1355384	100.0	102.4	
87 2-Hexanone	43	10.567	10.567	0.000	96	2712286	200.0	211.3	
89 Chlorodibromomethane	129	10.749	10.749	0.000	90	841431	100.0	109.9	
90 Ethylene Dibromide	107	10.865	10.865	0.000	98	867417	100.0	103.8	
S 91 Xylenes, Total	106				0			311.3	
92 1-Chlorohexane	91	11.291	11.291	0.000	98	1090178	100.0	104.4	
* 93 Chlorobenzene-d5 (IS)	117	11.291	11.291	0.000	86	887603	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	95	2216737	100.0	99.7	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	96	758783	100.0	104.5	
96 Ethylbenzene	91	11.400	11.400	0.000	98	3733224	100.0	103.2	
97 m-Xylene & p-Xylene	106	11.516	11.516	0.000	99	2979815	200.0	206.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 o-Xylene	106	11.838	11.838	0.000	96	1455164	100.0	104.9	
99 Styrene	104	11.857	11.856	0.001	94	2489569	100.0	109.8	
100 Bromoform	173	12.021	12.021	0.000	98	665020	100.0	113.6	
101 Isopropylbenzene	105	12.136	12.136	0.000	96	3704233	100.0	106.1	
103 Cyclohexanone	55	12.209	12.209	0.000	93	1290349	1249.9	1382.3	
$ 104 4-Bromofluorobenzene (Surr)	95	12.288	12.282	0.006	91	428119	50.0	49.5	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.373	0.001	93	1331717	100.0	98.7	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	84	1211554	250.0	257.5	
107 Bromobenzene	156	12.404	12.404	0.000	94	994816	100.0	100.9	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	82	428594	100.0	98.8	
109 N-Propylbenzene	91	12.471	12.465	0.006	98	4386424	100.0	102.3	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	935469	100.0	101.5	
111 1,3,5-Trimethylbenzene	105	12.605	12.599	0.006	94	3232043	100.0	104.9	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	982807	100.0	102.1	
114 tert-Butylbenzene	134	12.842	12.842	0.000	93	707112	100.0	107.2	
115 Pentachloroethane	167	12.879	12.878	0.001	90	558549	100.0	104.6	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.001	96	3381495	100.0	106.2	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	4206561	100.0	106.7	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	97	1897518	100.0	101.4	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	96	3660396	100.0	108.6	
* 120 1,4-Dichlorobenzene-d4	152	13.171	13.170	0.001	95	486324	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.183	0.006	95	1943038	100.0	100.1	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	3371394	100.0	102.0	
123 Benzyl chloride	91	13.256	13.256	0.000	98	2934885	100.0	109.4	
124 1,3-Diethylbenzene	119	13.317	13.316	0.001	95	2214615	100.0	104.3	
125 p-Diethylbenzene	119	13.390	13.389	0.001	94	2335519	100.0	104.8	
126 n-Butylbenzene	92	13.408	13.408	0.000	97	1881054	100.0	105.4	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	98	1836627	100.0	101.1	
128 o-diethylbenzene	119	13.463	13.456	0.007	95	1826791	100.0	103.4	
130 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	87	390734	100.0	107.9	
131 1,3,5-Trichlorobenzene	180	14.114	14.113	0.001	98	1483265	100.0	105.3	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	1376395	100.0	106.8	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	97	635537	100.0	104.7	
134 Naphthalene	128	14.722	14.716	0.006	97	4784156	100.0	109.1	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	1317223	100.0	104.6	
136 2-Methylnaphthalene	142	15.507	15.507	0.000	92	2915375	100.0	116.3	
S 166 Total Diethylbenzene	1				0			312.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	10.00	Units: uL	
MSV_V_EE_00004	Amount Added:	5.00	Units: uL	
MSV_DCFM_00034	Amount Added:	2.50	Units: uL	
MSV_V_VOA1_00127	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00066	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00073	Amount Added:	5.00	Units: uL	
MSV_V_2CEVE_00139	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00209	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Feb-2021 21:31:52 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x11.D

Injection Date: 03-Feb-2021 17:36:30 Instrument ID: 9355 Operator ID: kas02648

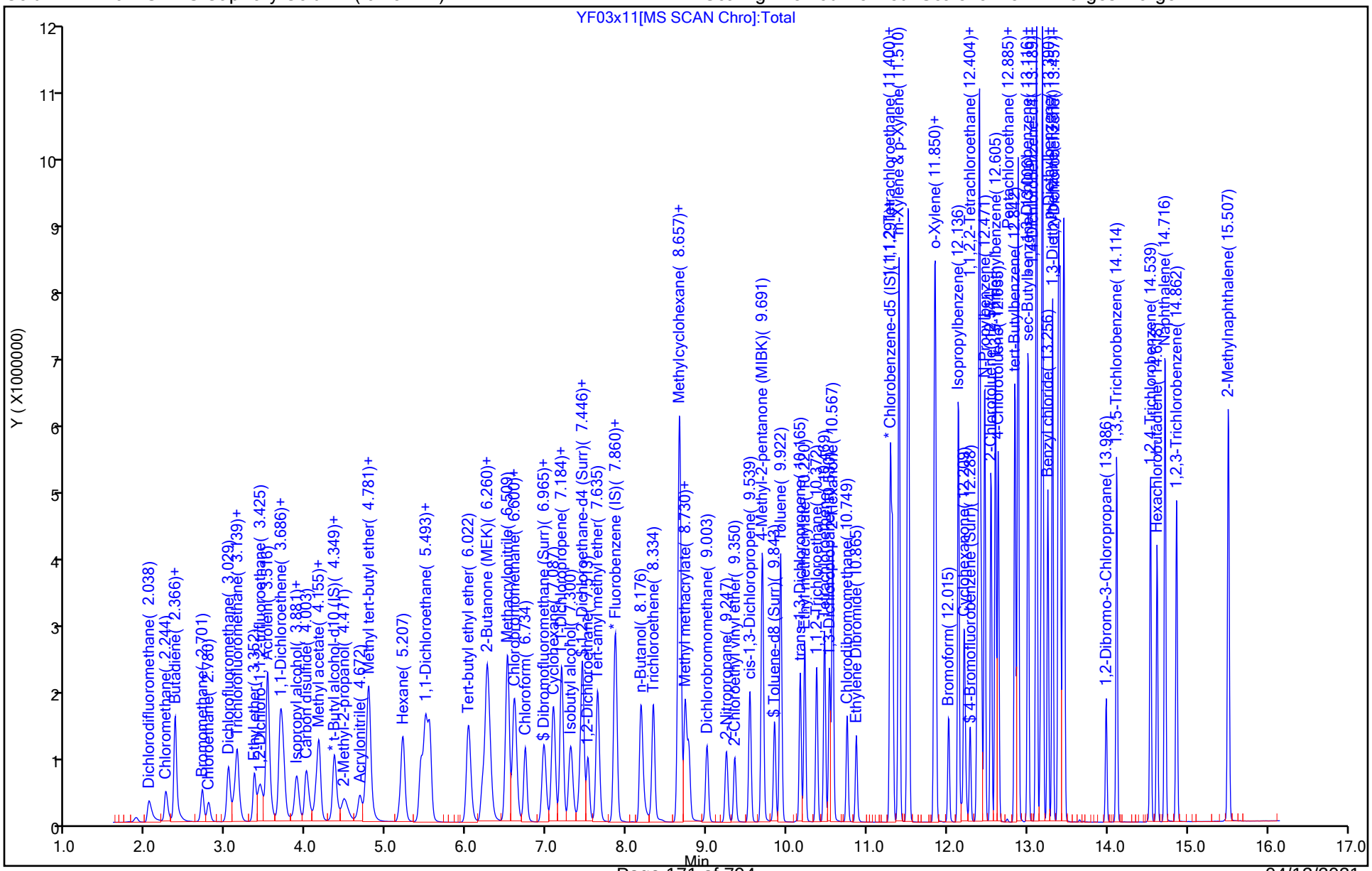
Lims ID: IC std6 100 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

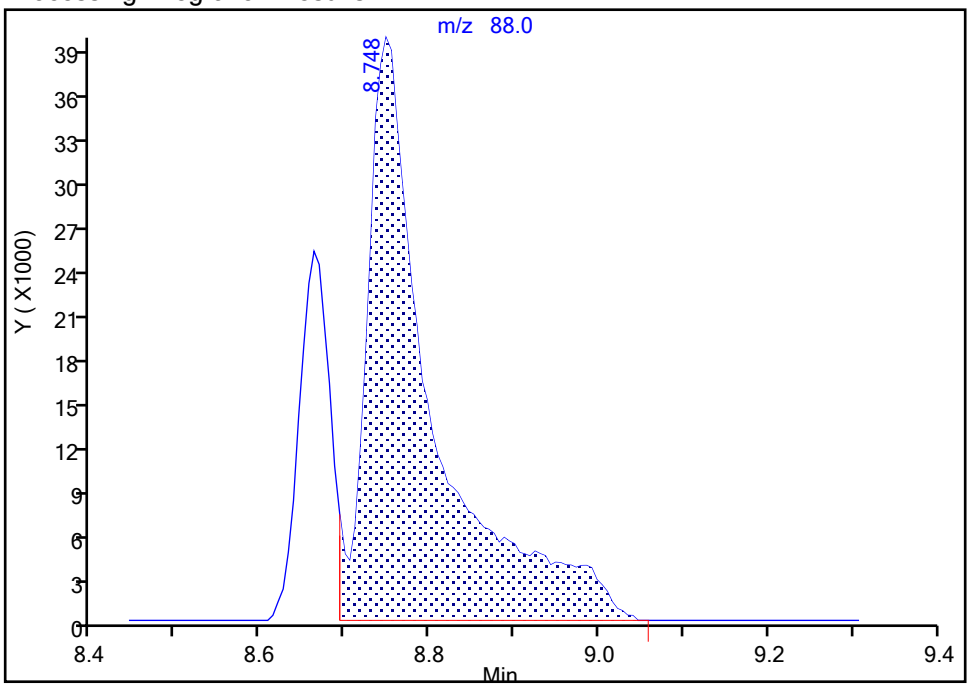
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x11.D
Injection Date: 03-Feb-2021 17:36:30 Instrument ID: 9355
Lims ID: IC std6 100
Client ID:
Operator ID: kas02648 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

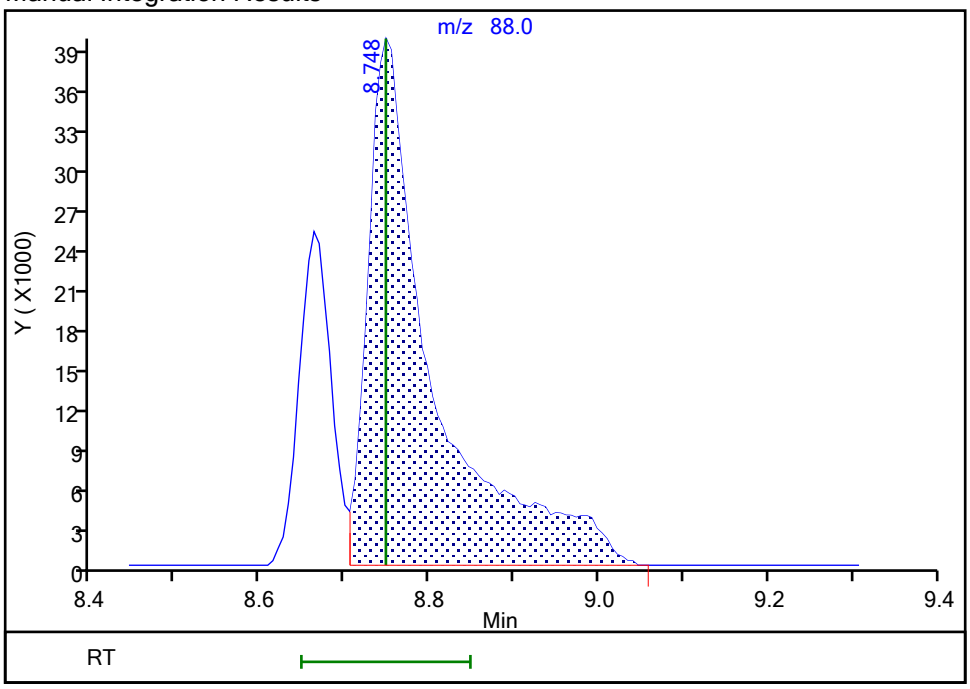
Processing Integration Results

RT: 8.75
Area: 215925
Amount: 2.619351
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 211659
Amount: 1260.4401
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 19:56:44
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x12.D
Lims ID: ICIS std5 50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 03-Feb-2021 17:58:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-012
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:32:04 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 19:58:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.031	2.031	0.000	99	432702	50.0	58.2	
4 Chloromethane	50	2.244	2.244	0.000	99	394163	50.0	51.9	
5 Butadiene	39	2.360	2.360	0.000	91	328000	50.0	49.1	
6 Vinyl chloride	62	2.360	2.360	0.000	98	389237	50.0	55.3	
8 Bromomethane	94	2.695	2.695	0.000	90	261358	50.0	53.3	
9 Chloroethane	64	2.780	2.780	0.000	100	227358	50.0	54.2	
10 Dichlorofluoromethane	67	3.023	3.023	0.000	97	517295	50.0	54.8	
11 Trichlorofluoromethane	101	3.102	3.102	0.000	98	512432	50.0	55.3	
12 Pentane	43	3.139	3.139	0.000	96	504410	50.0	51.9	
14 Ethyl ether	59	3.352	3.352	0.000	90	285648	50.0	51.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.425	0.000	91	338062	50.0	49.1	
16 Acrolein	56	3.516	3.516	0.000	99	1696678	500.0	501.7	
17 1,1-Dichloroethene	96	3.668	3.668	0.000	98	311850	50.0	50.8	
18 Acetone	58	3.680	3.680	0.000	100	204710	100.0	109.8	
19 112TCTFE	101	3.698	3.698	0.000	93	337526	50.0	52.7	
20 Isopropyl alcohol	45	3.850	3.850	0.000	100	338111	250.0	255.5	
21 Iodomethane	142	3.875	3.875	0.000	97	587821	50.0	50.8	
22 Carbon disulfide	76	3.996	3.996	0.000	99	1088316	50.0	51.2	
24 Methyl acetate	43	4.118	4.118	0.000	98	619260	50.0	50.0	
25 3-Chloro-1-propene	41	4.155	4.155	0.000	93	590222	50.0	50.8	
* 26 t-Butyl alcohol-d10 (IS)	65	4.337	4.337	0.000	0	464613	250.0	250.0	
27 Methylene Chloride	84	4.349	4.349	0.000	93	373180	50.0	49.8	
28 2-Methyl-2-propanol	59	4.465	4.465	0.000	99	647660	250.0	259.9	
30 Acrylonitrile	53	4.666	4.666	0.000	100	352829	50.0	55.6	
31 Methyl tert-butyl ether	73	4.763	4.763	0.000	95	1228829	50.0	51.3	
32 trans-1,2-Dichloroethene	96	4.781	4.781	0.000	99	360716	50.0	50.5	
33 Hexane	57	5.201	5.201	0.000	93	603898	50.0	52.9	
35 1,1-Dichloroethane	63	5.426	5.426	0.000	96	666756	50.0	50.6	
36 Isopropyl ether	45	5.487	5.487	0.000	94	1299268	50.0	52.2	
37 2-Chloro-1,3-butadiene	53	5.536	5.536	0.000	90	586266	50.0	52.9	
38 Tert-butyl ethyl ether	59	6.022	6.022	0.000	97	1200334	50.0	52.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	6.205	6.205	0.000	100	1022322	100.0	112.0	
41 cis-1,2-Dichloroethene	96	6.247	6.247	0.000	82	410043	50.0	50.5	
43 2,2-Dichloropropane	77	6.272	6.272	0.000	87	524292	50.0	51.6	
44 Propionitrile	54	6.284	6.284	0.000	99	698452	250.0	255.6	
45 Methacrylonitrile	67	6.509	6.509	0.000	93	783845	125.0	129.9	
46 Chlorobromomethane	128	6.588	6.588	0.000	95	214411	50.0	50.3	
47 Tetrahydrofuran	71	6.606	6.606	0.000	93	269511	100.0	109.2	
48 Chloroform	83	6.728	6.728	0.000	93	629125	50.0	50.2	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.947	0.000	94	278366	50.0	50.1	
50 1,1,1-Trichloroethane	97	6.971	6.971	0.000	98	541184	50.0	50.9	
51 Cyclohexane	56	7.081	7.081	0.000	91	709601	50.0	53.6	
52 1,1-Dichloropropene	75	7.178	7.178	0.000	98	536349	50.0	52.0	
53 Carbon tetrachloride	117	7.184	7.184	0.000	97	471782	50.0	52.2	
54 Isobutyl alcohol	41	7.300	7.300	0.000	95	546386	625.0	654.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.409	0.000	0	73162	50.0	49.7	
56 Benzene	78	7.446	7.446	0.000	96	1574913	50.0	50.4	
58 1,2-Dichloroethane	62	7.513	7.513	0.000	97	535911	50.0	48.9	
59 Tert-amyl methyl ether	73	7.634	7.634	0.000	98	1192401	50.0	52.6	
* 61 Fluorobenzene (IS)	96	7.841	7.841	0.000	99	1201593	50.0	50.0	
62 n-Heptane	43	7.860	7.860	0.000	93	686064	50.0	51.9	
63 n-Butanol	56	8.176	8.176	0.000	89	996232	1250.0	1311.9	
64 Trichloroethene	95	8.328	8.328	0.000	98	393465	50.0	50.0	
65 Methylcyclohexane	83	8.644	8.644	0.000	95	724328	50.0	52.2	
66 1,2-Dichloropropane	63	8.657	8.657	0.000	85	427036	50.0	51.2	
67 2-ethoxy-2-methyl butane	87	8.663	8.663	0.000	91	607820	50.0	53.0	
68 Methyl methacrylate	69	8.730	8.730	0.000	93	468917	50.0	53.6	
69 1,4-Dioxane	88	8.748	8.748	0.000	91	112457	625.0	629.3	
70 Dibromomethane	93	8.772	8.772	0.000	97	267051	50.0	50.8	
72 Dichlorobromomethane	83	8.997	8.997	0.000	99	482641	50.0	52.1	
73 2-Nitropropane	41	9.241	9.241	0.000	97	467162	100.0	114.9	
74 2-Chloroethyl vinyl ether	63	9.344	9.344	0.000	91	255632	50.0	54.6	
75 cis-1,3-Dichloropropene	75	9.533	9.533	0.000	98	679100	50.0	52.8	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.691	0.000	96	1859086	100.0	116.8	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1191289	50.0	50.0	
78 Toluene	92	9.916	9.916	0.000	98	1003374	50.0	50.6	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	92	643349	50.0	53.7	
82 Ethyl methacrylate	69	10.220	10.220	0.000	90	725882	50.0	55.6	
83 1,1,2-Trichloroethane	97	10.366	10.366	0.000	90	398192	50.0	51.1	
84 Tetrachloroethene	166	10.469	10.469	0.000	97	471003	50.0	54.1	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	90	702310	50.0	51.7	
87 2-Hexanone	43	10.567	10.567	0.000	97	1563622	100.0	118.7	
89 Chlorodibromomethane	129	10.749	10.749	0.000	90	423146	50.0	53.9	
90 Ethylene Dibromide	107	10.865	10.865	0.000	99	440443	50.0	51.4	
92 1-Chlorohexane	91	11.291	11.291	0.000	98	558107	50.0	52.1	
* 93 Chlorobenzene-d5 (IS)	117	11.291	11.291	0.000	86	910646	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	95	1145696	50.0	50.2	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	96	388828	50.0	52.2	
96 Ethylbenzene	91	11.400	11.400	0.000	98	1934013	50.0	52.1	
97 m-Xylene & p-Xylene	106	11.510	11.510	0.000	99	1549107	100.0	104.6	
98 o-Xylene	106	11.838	11.838	0.000	96	755791	50.0	53.1	
99 Styrene	104	11.856	11.856	0.000	95	1273475	50.0	54.7	
100 Bromoform	173	12.015	12.015	0.000	97	330893	50.0	55.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Isopropylbenzene	105	12.136	12.136	0.000	96	1927923	50.0	53.8	
103 Cyclohexanone	55	12.209	12.209	0.000	93	663860	625.0	668.3	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	90	440564	50.0	49.7	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.374	0.000	93	696293	50.0	50.6	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	83	638567	125.0	133.0	
107 Bromobenzene	156	12.404	12.404	0.000	93	509541	50.0	50.7	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	84	221594	50.0	50.1	
109 N-Propylbenzene	91	12.465	12.465	0.000	99	2275303	50.0	52.0	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	479588	50.0	51.0	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	1653460	50.0	52.6	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	506196	50.0	51.5	
114 tert-Butylbenzene	134	12.848	12.848	0.000	93	358045	50.0	53.2	
115 Pentachloroethane	167	12.879	12.879	0.000	89	258427	50.0	47.4	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.000	96	1731342	50.0	53.3	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	2145787	50.0	53.3	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	97	977096	50.0	51.2	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	1865815	50.0	54.3	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	496135	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	95	999229	50.0	50.5	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	1713436	50.0	50.8	
123 Benzyl chloride	91	13.256	13.256	0.000	98	1496108	50.0	54.7	
124 1,3-Diethylbenzene	119	13.317	13.317	0.000	95	1117417	50.0	51.6	
125 p-Diethylbenzene	119	13.390	13.390	0.000	95	1173850	50.0	51.6	
126 n-Butylbenzene	92	13.408	13.408	0.000	96	953923	50.0	52.4	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	98	944254	50.0	50.9	
128 o-diethylbenzene	119	13.463	13.463	0.000	94	922107	50.0	51.2	
130 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	87	197811	50.0	53.6	
131 1,3,5-Trichlorobenzene	180	14.113	14.113	0.000	98	731906	50.0	50.9	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	677952	50.0	51.6	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	97	306248	50.0	49.4	
134 Naphthalene	128	14.716	14.716	0.000	97	2435563	50.0	54.4	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	650821	50.0	50.6	
136 2-Methylnaphthalene	142	15.507	15.507	0.000	92	1373753	50.0	53.7	

QC Flag Legend

Processing Flags

Reagents:

MSV_VCYC_00005	Amount Added: 10.00	Units: uL	
MSV_V_EE_00004	Amount Added: 5.00	Units: uL	
MSV_DCFM_00034	Amount Added: 2.50	Units: uL	
MSV_V_2CEVE_00139	Amount Added: 5.00	Units: uL	
MSV_V_VOA1_00127	Amount Added: 5.00	Units: uL	
MSV_V_VOA3_00066	Amount Added: 2.00	Units: uL	
MSV_V_VOA6_00073	Amount Added: 5.00	Units: uL	
MSV_V_Gas_00209	Amount Added: 2.50	Units: uL	
MSV_HP20_ISSS_00037	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 03-Feb-2021 21:32:05 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x12.D

Injection Date: 03-Feb-2021 17:58:30 Instrument ID: 9355 Operator ID: kas02648

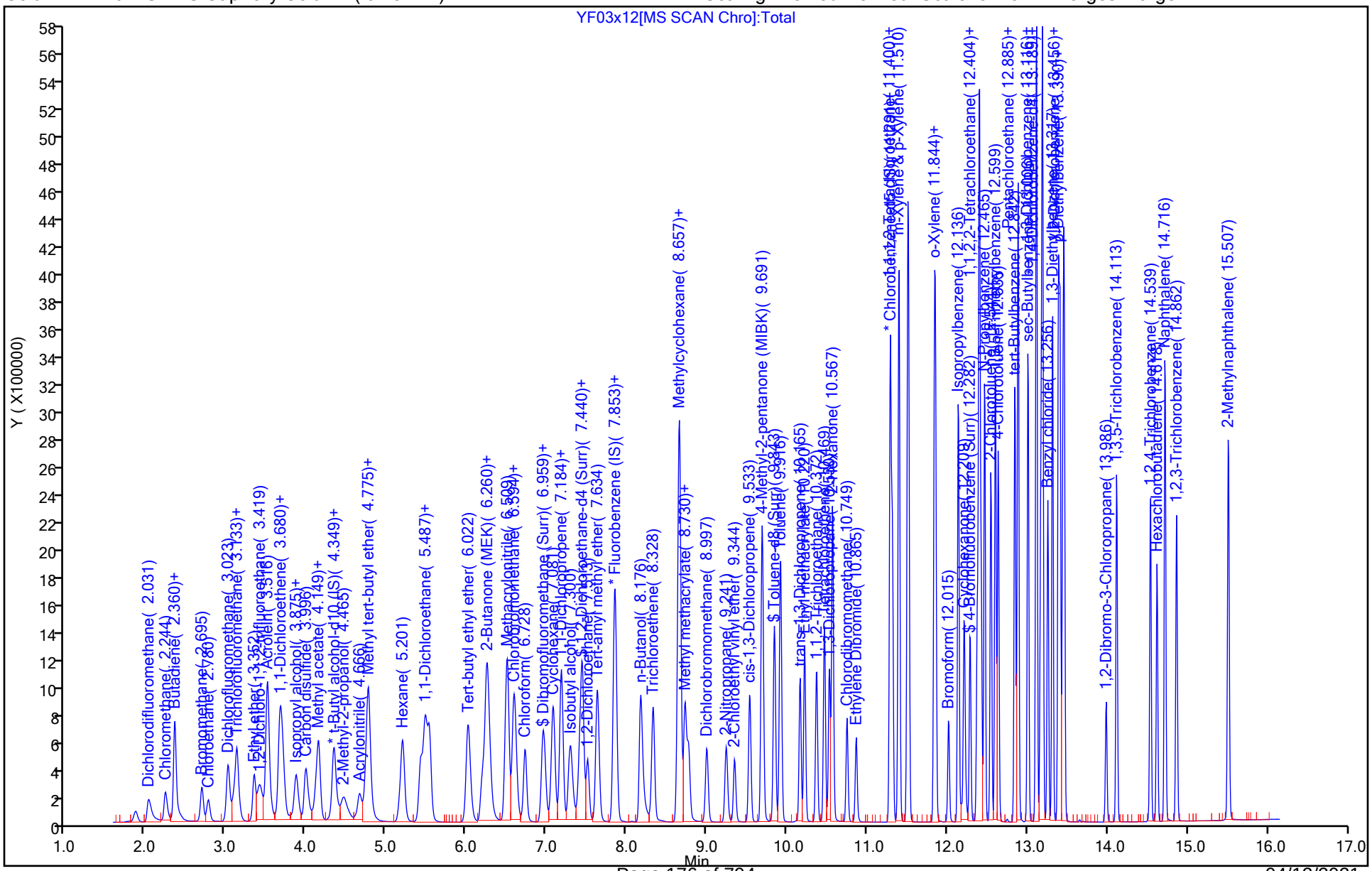
Lims ID: ICIS std5 50 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 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\9355\20210203-21230.b\YF03x13.D
Lims ID: IC std4 20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 03-Feb-2021 18:20:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-013
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:32:17 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 19:59:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.044	2.044	0.000	99	155550	20.0	21.0	
4 Chloromethane	50	2.250	2.250	0.000	99	158522	20.0	21.0	
5 Butadiene	39	2.366	2.366	0.000	94	137054	20.0	20.6	
6 Vinyl chloride	62	2.372	2.372	0.000	98	145714	20.0	20.8	
8 Bromomethane	94	2.707	2.707	0.000	89	104467	20.0	21.4	
9 Chloroethane	64	2.786	2.786	0.000	100	90683	20.0	21.7	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	97	181908	20.0	19.4	
11 Trichlorofluoromethane	101	3.108	3.108	0.000	98	188264	20.0	20.4	
12 Pentane	43	3.145	3.145	0.000	96	208633	20.0	21.6	
14 Ethyl ether	59	3.358	3.358	0.000	90	120497	20.0	21.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	91	140899	20.0	20.6	
16 Acrolein	56	3.528	3.528	0.000	100	633793	200.0	184.3	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	129498	20.0	21.2	
18 Acetone	58	3.698	3.698	0.000	100	71056	40.0	37.5	
19 112TCTFE	101	3.717	3.717	0.000	91	138757	20.0	21.8	
20 Isopropyl alcohol	45	3.863	3.863	0.000	99	279035	200.0	207.4	
21 Iodomethane	142	3.887	3.887	0.000	97	244481	20.0	21.2	
22 Carbon disulfide	76	4.009	4.009	0.000	99	450956	20.0	21.3	
24 Methyl acetate	43	4.130	4.130	0.000	98	255602	20.0	20.8	
25 3-Chloro-1-propene	41	4.167	4.167	0.000	93	246244	20.0	21.3	
* 26 t-Butyl alcohol-d10 (IS)	65	4.349	4.349	0.000	0	472387	250.0	250.0	
27 Methylene Chloride	84	4.355	4.355	0.000	93	155925	20.0	20.9	
28 2-Methyl-2-propanol	59	4.483	4.483	0.000	99	525730	200.0	207.5	
30 Acrylonitrile	53	4.678	4.678	0.000	99	131591	20.0	20.9	
31 Methyl tert-butyl ether	73	4.769	4.769	0.000	95	501491	20.0	21.1	
32 trans-1,2-Dichloroethene	96	4.787	4.787	0.000	98	151594	20.0	21.3	
33 Hexane	57	5.213	5.213	0.000	93	250367	20.0	22.0	
35 1,1-Dichloroethane	63	5.432	5.432	0.000	96	278556	20.0	21.2	
36 Isopropyl ether	45	5.493	5.493	0.000	94	534125	20.0	21.6	
37 2-Chloro-1,3-butadiene	53	5.548	5.548	0.000	90	241119	20.0	21.9	
38 Tert-butyl ethyl ether	59	6.028	6.028	0.000	97	484853	20.0	21.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 39 1,2-Dichloroethene, Total	100				0			42.6	
40 2-Butanone (MEK)	43	6.211	6.211	0.000	100	371291	40.0	40.9	
41 cis-1,2-Dichloroethene	96	6.259	6.259	0.000	82	171431	20.0	21.2	
43 2,2-Dichloropropane	77	6.278	6.278	0.000	89	217026	20.0	21.5	
44 Propionitrile	54	6.290	6.290	0.000	99	570762	200.0	205.4	
45 Methacrylonitrile	67	6.515	6.515	0.000	92	637197	100.0	106.2	
46 Chlorobromomethane	128	6.594	6.594	0.000	94	88702	20.0	20.9	
47 Tetrahydrofuran	71	6.618	6.618	0.000	93	98403	40.0	39.2	
48 Chloroform	83	6.740	6.740	0.000	93	260350	20.0	20.9	
$ 49 Dibromofluoromethane (Surr)	113	6.953	6.953	0.000	94	276971	50.0	50.1	
50 1,1,1-Trichloroethane	97	6.971	6.971	0.000	98	222706	20.0	21.1	
51 Cyclohexane	56	7.087	7.087	0.000	90	285715	20.0	21.7	
52 1,1-Dichloropropene	75	7.184	7.184	0.000	97	218857	20.0	21.3	
53 Carbon tetrachloride	117	7.196	7.196	0.000	97	190646	20.0	21.2	
54 Isobutyl alcohol	41	7.300	7.300	0.000	95	435037	500.0	512.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.409	0.000	0	73098	50.0	50.0	
56 Benzene	78	7.446	7.446	0.000	97	659181	20.0	21.2	
58 1,2-Dichloroethane	62	7.519	7.519	0.000	97	221519	20.0	20.3	
59 Tert-amyl methyl ether	73	7.634	7.634	0.000	98	483663	20.0	21.4	
* 61 Fluorobenzene (IS)	96	7.847	7.847	0.000	99	1194752	50.0	50.0	
62 n-Heptane	43	7.866	7.866	0.000	93	285543	20.0	21.7	
63 n-Butanol	56	8.182	8.182	0.000	89	814106	1000.0	1054.4	
64 Trichloroethene	95	8.328	8.328	0.000	98	164368	20.0	21.0	
65 Methylcyclohexane	83	8.650	8.650	0.000	93	300484	20.0	21.8	
66 1,2-Dichloropropane	63	8.656	8.656	0.000	72	177599	20.0	21.4	
67 2-ethoxy-2-methyl butane	87	8.662	8.662	0.000	95	246877	20.0	21.7	
68 Methyl methacrylate	69	8.729	8.729	0.000	92	185193	20.0	21.3	
69 1,4-Dioxane	88	8.748	8.748	0.000	92	96289	500.0	530.0	M
70 Dibromomethane	93	8.772	8.772	0.000	97	107727	20.0	20.6	
72 Dichlorobromomethane	83	9.003	9.003	0.000	100	192423	20.0	20.9	
73 2-Nitropropane	41	9.247	9.247	0.000	97	161464	40.0	39.1	
74 2-Chloroethyl vinyl ether	63	9.350	9.350	0.000	91	100259	20.0	21.5	
75 cis-1,3-Dichloropropene	75	9.539	9.539	0.000	96	273586	20.0	21.4	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.691	0.000	97	669126	40.0	42.3	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1183498	50.0	50.1	
78 Toluene	92	9.922	9.922	0.000	98	417260	20.0	21.2	
S 80 1,3-Dichloropropene, Total	100				0			42.6	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	92	252309	20.0	21.2	
82 Ethyl methacrylate	69	10.220	10.220	0.000	90	283753	20.0	21.9	
83 1,1,2-Trichloroethane	97	10.372	10.372	0.000	90	163769	20.0	21.2	
84 Tetrachloroethene	166	10.469	10.469	0.000	97	183963	20.0	21.3	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	91	282874	20.0	21.0	
87 2-Hexanone	43	10.567	10.567	0.000	97	552932	40.0	42.3	
89 Chlorodibromomethane	129	10.749	10.749	0.000	90	164253	20.0	21.1	
90 Ethylene Dibromide	107	10.865	10.865	0.000	98	178044	20.0	20.9	
S 91 Xylenes, Total	106				0			65.0	
92 1-Chlorohexane	91	11.291	11.291	0.000	97	226604	20.0	21.3	
* 93 Chlorobenzene-d5 (IS)	117	11.291	11.291	0.000	86	903872	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	95	473089	20.0	20.9	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	95	155924	20.0	21.1	
96 Ethylbenzene	91	11.400	11.400	0.000	98	795664	20.0	21.6	
97 m-Xylene & p-Xylene	106	11.516	11.516	0.000	100	636424	40.0	43.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 o-Xylene	106	11.838	11.838	0.000	96	307273	20.0	21.7	
99 Styrene	104	11.856	11.856	0.000	95	511187	20.0	22.1	
100 Bromoform	173	12.021	12.021	0.000	98	124921	20.0	21.0	
101 Isopropylbenzene	105	12.136	12.136	0.000	95	782786	20.0	22.0	
103 Cyclohexanone	55	12.209	12.209	0.000	92	540879	500.0	535.5	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	90	437556	50.0	49.7	
105 1,1,2,2-Tetrachloroethane	83	12.373	12.373	0.000	93	286352	20.0	20.9	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	90	512775	100.0	107.1	
107 Bromobenzene	156	12.404	12.404	0.000	70	206904	20.0	20.6	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	82	89272	20.0	20.2	
109 N-Propylbenzene	91	12.465	12.465	0.000	99	942752	20.0	21.6	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	197412	20.0	21.1	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	685543	20.0	21.9	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	209282	20.0	21.4	
114 tert-Butylbenzene	134	12.842	12.842	0.000	94	146110	20.0	21.8	
115 Pentachloroethane	167	12.878	12.878	0.000	89	112742	20.0	20.7	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.000	96	706737	20.0	21.8	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	888617	20.0	22.1	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	97	399301	20.0	21.0	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	756796	20.0	22.1	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	494816	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	94	409119	20.0	20.7	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	710015	20.0	21.1	
123 Benzyl chloride	91	13.256	13.256	0.000	98	583295	20.0	21.4	
124 1,3-Diethylbenzene	119	13.316	13.316	0.000	95	466277	20.0	21.6	
125 p-Diethylbenzene	119	13.389	13.389	0.000	94	492413	20.0	21.7	
126 n-Butylbenzene	92	13.408	13.408	0.000	96	395903	20.0	21.8	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	98	385453	20.0	20.9	
128 o-diethylbenzene	119	13.456	13.456	0.000	95	384142	20.0	21.4	
130 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	85	75903	20.0	20.6	
131 1,3,5-Trichlorobenzene	180	14.113	14.113	0.000	98	297162	20.0	20.7	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	268968	20.0	20.5	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	97	128254	20.0	20.8	
134 Naphthalene	128	14.716	14.716	0.000	97	961743	20.0	21.6	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	259086	20.0	20.2	
136 2-Methylnaphthalene	142	15.507	15.507	0.000	92	539511	20.0	21.2	
S 166 Total Diethylbenzene	1				0			64.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	16.00	Units: uL	
MSV_V_EE_00004	Amount Added:	4.00	Units: uL	
MSV_DCFM_00034	Amount Added:	2.00	Units: uL	
MSV_V_2CEVE_00139	Amount Added:	4.00	Units: uL	
MSV_V_VOA1_00127	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00066	Amount Added:	1.60	Units: uL	
MSV_V_VOA6_00073	Amount Added:	4.00	Units: uL	
MSV_V_VOA2_00069	Amount Added:	4.00	Units: uL	
MSV_V_Gas_00209	Amount Added:	2.00	Units: uL	
MSV_HP20_ISSS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Feb-2021 21:32:19 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x13.D

Injection Date: 03-Feb-2021 18:20:30 Instrument ID: 9355 Operator ID: kas02648

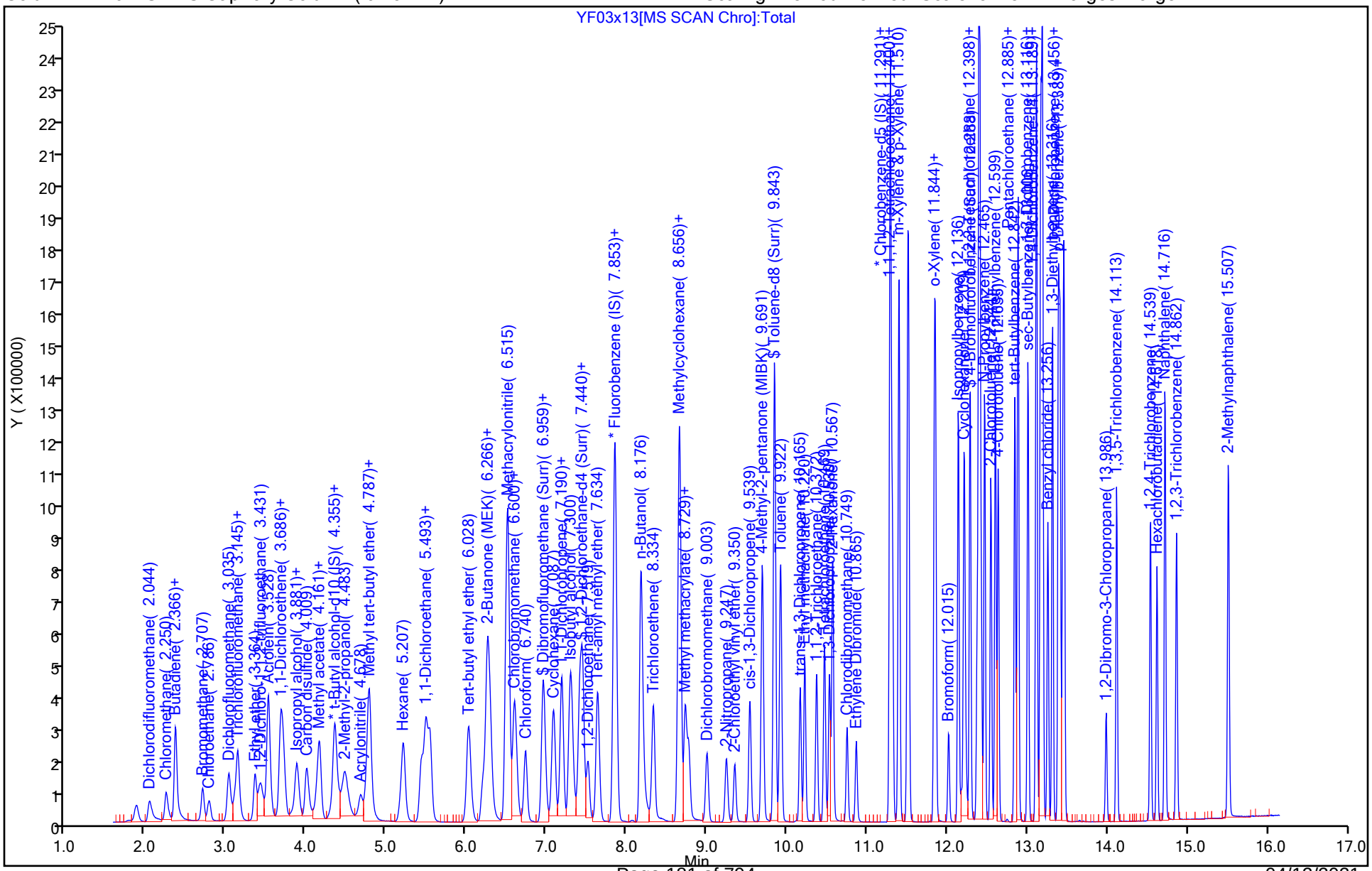
Lims ID: IC std4 20 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

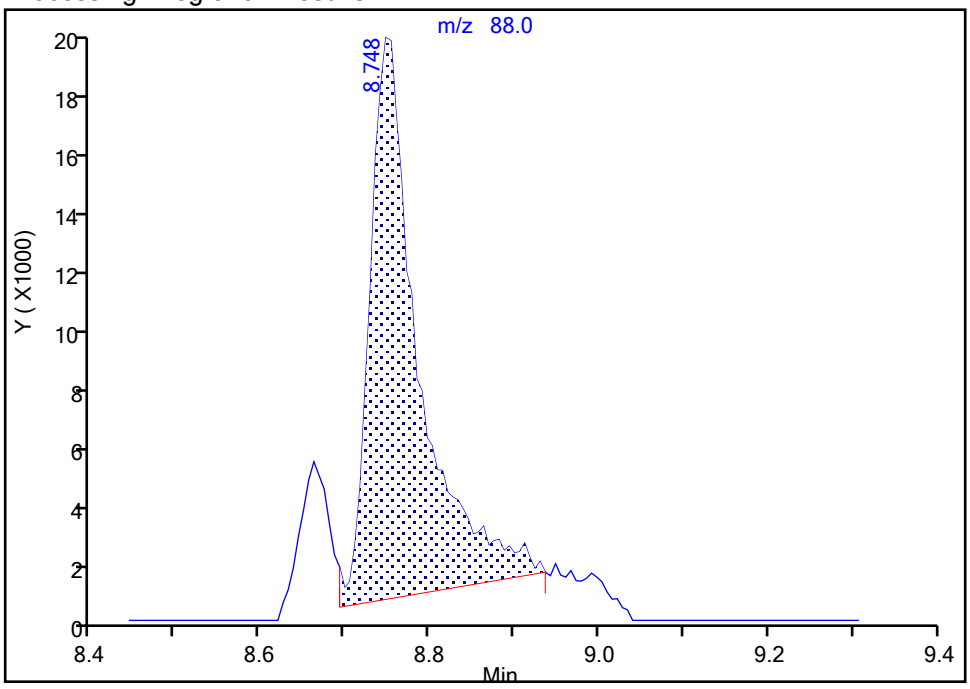
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x13.D
Injection Date: 03-Feb-2021 18:20:30 Instrument ID: 9355
Lims ID: IC std4 20
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

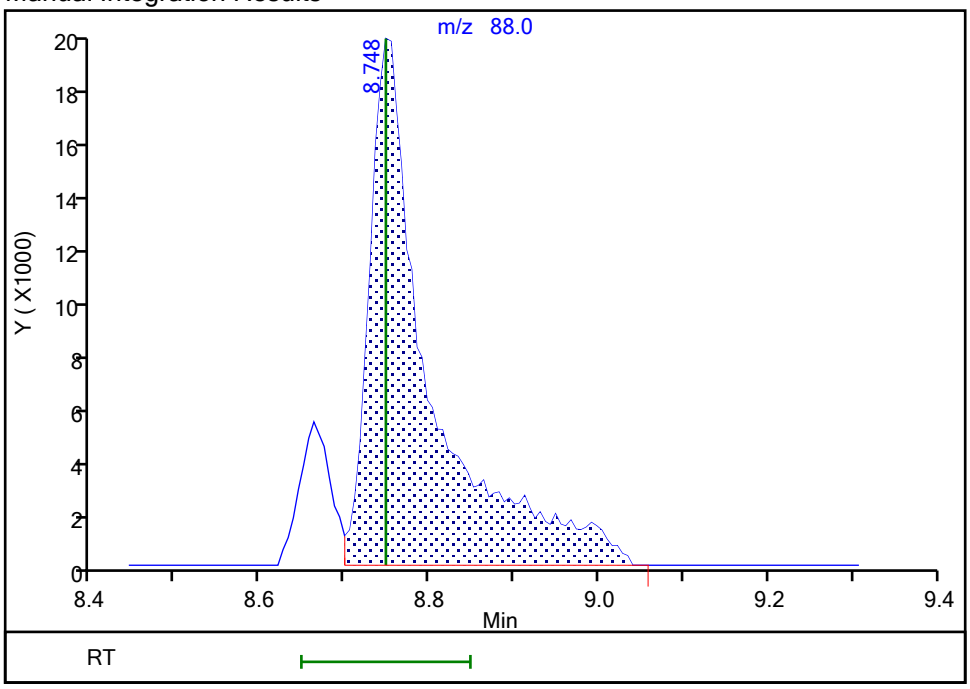
Processing Integration Results

RT: 8.75
Area: 74797
Amount: 0.838666
Amount Units: ug/l



Manual Integration Results

RT: 8.75
Area: 96289
Amount: 529.9975
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 19:59:15
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x14.D
Lims ID: IC std3 10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 03-Feb-2021 18:42:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-014
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:32:31 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 20:00:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.044	2.044	0.000	99	73783	10.0	10.2	M
4 Chloromethane	50	2.245	2.250	-0.005	99	75281	10.0	10.2	
5 Butadiene	39	2.366	2.366	0.000	91	60978	10.0	9.39	
6 Vinyl chloride	62	2.366	2.372	-0.006	86	69404	10.0	10.1	M
8 Bromomethane	94	2.707	2.707	0.000	90	51349	10.0	10.8	
9 Chloroethane	64	2.786	2.786	0.000	100	44034	10.0	10.8	
10 Dichlorofluoromethane	67	3.023	3.029	-0.006	97	86849	10.0	9.46	
11 Trichlorofluoromethane	101	3.102	3.108	-0.006	97	91537	10.0	10.2	
12 Pentane	43	3.139	3.145	-0.006	97	84406	10.0	8.93	
14 Ethyl ether	59	3.358	3.358	0.000	91	50450	10.0	9.30	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	92	65249	10.0	9.74	
16 Acrolein	56	3.516	3.528	-0.012	99	376163	100.0	111.0	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	98	57714	10.0	9.67	
18 Acetone	58	3.692	3.698	-0.006	100	38682	20.0	20.7	
19 112TCTFE	101	3.705	3.717	-0.012	92	57505	10.0	9.24	
20 Isopropyl alcohol	45	3.857	3.863	-0.006	99	137665	100.0	103.8	
21 Iodomethane	142	3.881	3.887	-0.006	98	109630	10.0	9.74	
22 Carbon disulfide	76	3.997	4.009	-0.012	99	193957	10.0	9.37	
24 Methyl acetate	43	4.124	4.130	-0.006	98	117695	10.0	9.77	
25 3-Chloro-1-propene	41	4.161	4.167	-0.006	94	111309	10.0	9.85	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.349	-0.006	0	465425	250.0	250.0	
27 Methylene Chloride	84	4.349	4.355	-0.006	93	72043	10.0	9.88	
28 2-Methyl-2-propanol	59	4.477	4.483	-0.006	99	257749	100.0	103.2	
30 Acrylonitrile	53	4.678	4.678	0.000	99	66683	10.0	10.8	
31 Methyl tert-butyl ether	73	4.769	4.769	0.000	96	227181	10.0	9.75	
32 trans-1,2-Dichloroethene	96	4.781	4.787	-0.006	99	67316	10.0	9.69	
33 Hexane	57	5.201	5.213	-0.012	93	93937	10.0	8.45	
35 1,1-Dichloroethane	63	5.432	5.432	0.000	96	123823	10.0	9.65	
36 Isopropyl ether	45	5.493	5.493	0.000	96	237422	10.0	9.80	
37 2-Chloro-1,3-butadiene	53	5.542	5.548	-0.006	90	98838	10.0	9.16	
38 Tert-butyl ethyl ether	59	6.022	6.028	-0.006	97	216480	10.0	9.73	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 39 1,2-Dichloroethene, Total	100				0			19.5	
40 2-Butanone (MEK)	43	6.211	6.211	0.000	100	188860	20.0	21.3	
41 cis-1,2-Dichloroethene	96	6.254	6.259	-0.005	82	77093	10.0	9.76	
43 2,2-Dichloropropane	77	6.266	6.278	-0.012	91	93713	10.0	9.49	
44 Propionitrile	54	6.290	6.290	0.000	100	274947	100.0	100.4	
45 Methacrylonitrile	67	6.509	6.515	-0.006	92	297109	50.0	50.6	
46 Chlorobromomethane	128	6.594	6.594	0.000	95	41324	10.0	9.96	
47 Tetrahydrofuran	71	6.613	6.618	-0.005	93	50478	20.0	20.4	
48 Chloroform	83	6.734	6.740	-0.006	93	117581	10.0	9.65	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.953	-0.006	94	269653	50.0	49.9	
50 1,1,1-Trichloroethane	97	6.978	6.971	0.007	99	97615	10.0	9.43	
51 Cyclohexane	56	7.081	7.087	-0.006	92	112486	10.0	8.73	
52 1,1-Dichloropropene	75	7.184	7.184	0.000	96	94668	10.0	9.44	
53 Carbon tetrachloride	117	7.190	7.196	-0.006	79	81336	10.0	9.25	
54 Isobutyl alcohol	41	7.300	7.300	0.000	95	220642	250.0	263.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.409	0.000	0	72738	50.0	50.8	
56 Benzene	78	7.446	7.446	0.000	96	295303	10.0	9.70	
58 1,2-Dichloroethane	62	7.513	7.519	-0.006	97	101845	10.0	9.56	
59 Tert-amyl methyl ether	73	7.635	7.634	0.001	98	215298	10.0	9.75	
* 61 Fluorobenzene (IS)	96	7.848	7.847	0.001	98	1169048	50.0	50.0	
62 n-Heptane	43	7.860	7.866	-0.006	94	107291	10.0	8.34	
63 n-Butanol	56	8.176	8.182	-0.006	89	407524	500.0	535.7	
64 Trichloroethene	95	8.328	8.328	0.000	98	72541	10.0	9.47	
65 Methylcyclohexane	83	8.651	8.650	0.001	95	129072	10.0	9.56	
66 1,2-Dichloropropane	63	8.657	8.656	0.001	75	79926	10.0	9.86	
67 2-ethoxy-2-methyl butane	87	8.663	8.662	0.001	94	110567	10.0	9.91	
68 Methyl methacrylate	69	8.730	8.729	0.001	91	80912	10.0	9.50	
69 1,4-Dioxane	88	8.748	8.748	0.000	92	47734	250.0	266.7	
70 Dibromomethane	93	8.766	8.772	-0.006	97	49840	10.0	9.75	
72 Dichlorobromomethane	83	8.997	9.003	-0.006	99	85002	10.0	9.44	
73 2-Nitropropane	41	9.241	9.247	-0.006	98	79190	20.0	19.4	
74 2-Chloroethyl vinyl ether	63	9.344	9.350	-0.006	91	45025	10.0	9.88	
75 cis-1,3-Dichloropropene	75	9.533	9.539	-0.006	96	120618	10.0	9.64	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.691	0.000	97	344165	20.0	22.2	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1156022	50.0	49.9	
78 Toluene	92	9.922	9.922	0.000	98	184988	10.0	9.58	
S 80 1,3-Dichloropropene, Total	100				0			19.0	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	93	109551	10.0	9.40	
82 Ethyl methacrylate	69	10.220	10.220	0.000	91	122798	10.0	9.66	
83 1,1,2-Trichloroethane	97	10.372	10.372	0.000	90	74424	10.0	9.80	
84 Tetrachloroethene	166	10.470	10.469	0.001	97	75690	10.0	8.93	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	90	128393	10.0	9.72	
87 2-Hexanone	43	10.567	10.567	0.000	97	292147	20.0	22.8	
89 Chlorodibromomethane	129	10.749	10.749	0.000	90	70239	10.0	9.19	
90 Ethylene Dibromide	107	10.865	10.865	0.000	99	80178	10.0	9.61	
S 91 Xylenes, Total	106				0			28.9	
92 1-Chlorohexane	91	11.291	11.291	0.000	97	90165	10.0	8.64	
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.291	-0.006	86	886520	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	96	216632	10.0	9.76	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	95	69748	10.0	9.62	
96 Ethylbenzene	91	11.400	11.400	0.000	98	345563	10.0	9.56	
97 m-Xylene & p-Xylene	106	11.510	11.516	-0.006	99	278002	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 o-Xylene	106	11.838	11.838	0.000	96	133776	10.0	9.65	
99 Styrene	104	11.857	11.856	0.001	95	222076	10.0	9.80	
100 Bromoform	173	12.015	12.021	-0.006	96	52808	10.0	9.03	
101 Isopropylbenzene	105	12.136	12.136	0.000	95	329018	10.0	9.43	
103 Cyclohexanone	55	12.209	12.209	0.000	92	261334	250.0	262.6	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	90	430113	50.0	49.8	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.373	0.001	93	142301	10.0	10.6	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	90	244313	50.0	52.4	
107 Bromobenzene	156	12.404	12.404	0.000	69	95370	10.0	9.76	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	82	43900	10.0	10.2	
109 N-Propylbenzene	91	12.465	12.465	0.000	99	403960	10.0	9.50	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	88119	10.0	9.64	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	289980	10.0	9.49	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	93263	10.0	9.77	
114 tert-Butylbenzene	134	12.842	12.842	0.000	93	58573	10.0	8.96	
115 Pentachloroethane	167	12.879	12.878	0.001	90	57616	10.0	10.9	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.001	97	312478	10.0	9.90	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	363786	10.0	9.31	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	98	182119	10.0	9.82	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	314921	10.0	9.43	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.001	95	482174	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	95	188881	10.0	9.81	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	341569	10.0	10.4	
123 Benzyl chloride	91	13.256	13.256	0.000	98	271277	10.0	10.2	
124 1,3-Diethylbenzene	119	13.317	13.316	0.001	95	215996	10.0	10.3	
125 p-Diethylbenzene	119	13.390	13.389	0.001	96	225352	10.0	10.2	
126 n-Butylbenzene	92	13.408	13.408	0.000	97	163719	10.0	9.25	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	98	179668	10.0	9.97	
128 o-diethylbenzene	119	13.457	13.456	0.001	95	182155	10.0	10.4	
130 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	85	36396	10.0	10.1	
131 1,3,5-Trichlorobenzene	180	14.114	14.113	0.001	97	131335	10.0	9.40	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	120651	10.0	9.44	
133 Hexachlorobutadiene	225	14.619	14.618	0.001	97	50062	10.0	8.32	
134 Naphthalene	128	14.722	14.716	0.006	97	444963	10.0	10.2	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	119220	10.0	9.55	
136 2-Methylnaphthalene	142	15.513	15.507	0.006	92	262408	10.0	10.6	
S 166 Total Diethylbenzene	1				0			30.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	8.00	Units: uL	
MSV_V_EE_00004	Amount Added:	2.00	Units: uL	
MSV_DCFM_00034	Amount Added:	1.00	Units: uL	
MSV_V_2CEVE_00139	Amount Added:	2.00	Units: uL	
MSV_V_VOA1_00127	Amount Added:	2.00	Units: uL	
MSV_V_VOA3_00066	Amount Added:	0.80	Units: uL	
MSV_V_VOA6_00073	Amount Added:	2.00	Units: uL	
MSV_V_VOA2_00069	Amount Added:	2.00	Units: uL	
MSV_V_Gas_00209	Amount Added:	1.00	Units: uL	
MSV_HP20_ISSS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Feb-2021 21:32:32 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x14.D

Injection Date: 03-Feb-2021 18:42:30 Instrument ID: 9355 Operator ID: kas02648

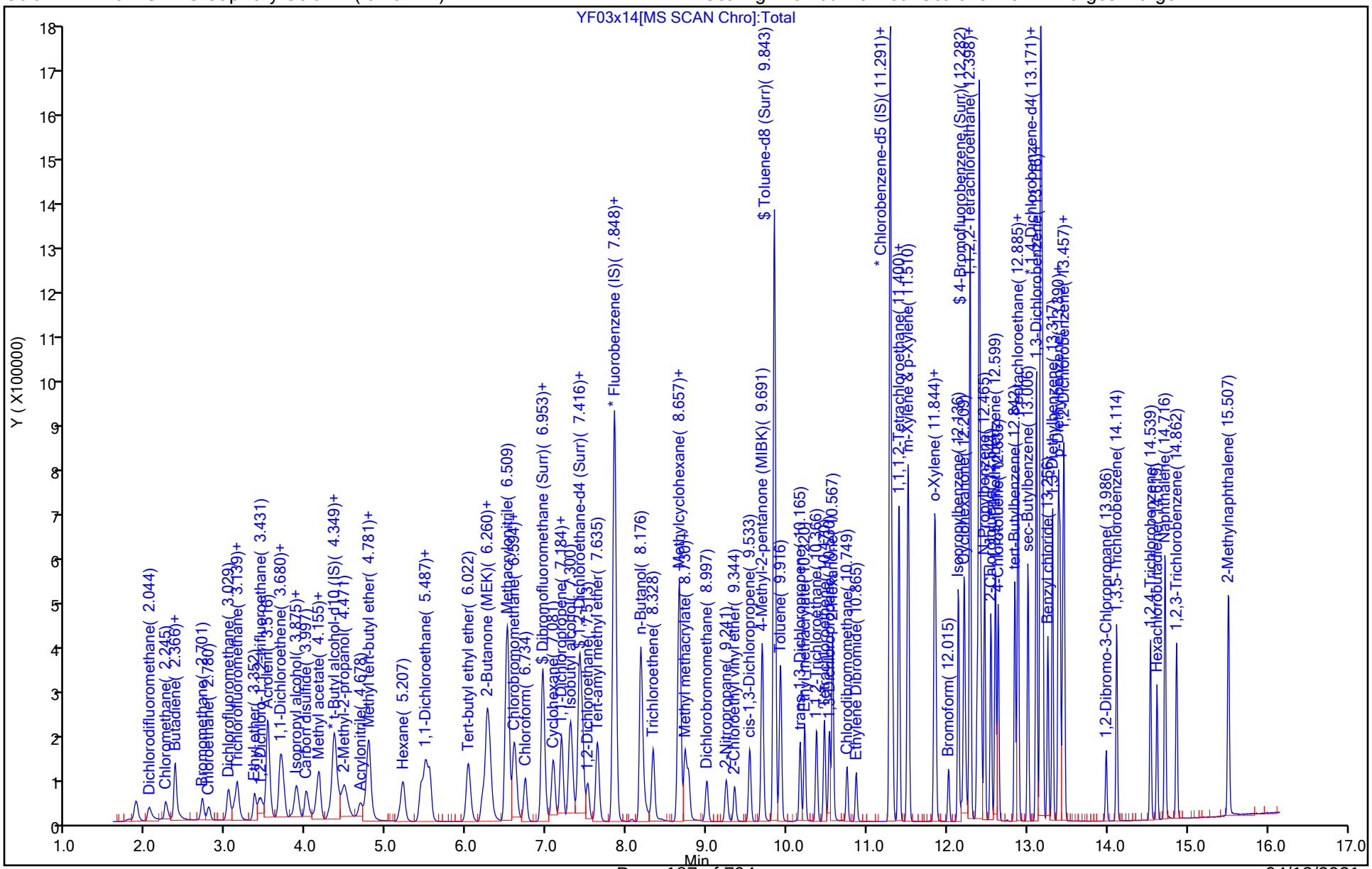
Lims ID: IC std3 10 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

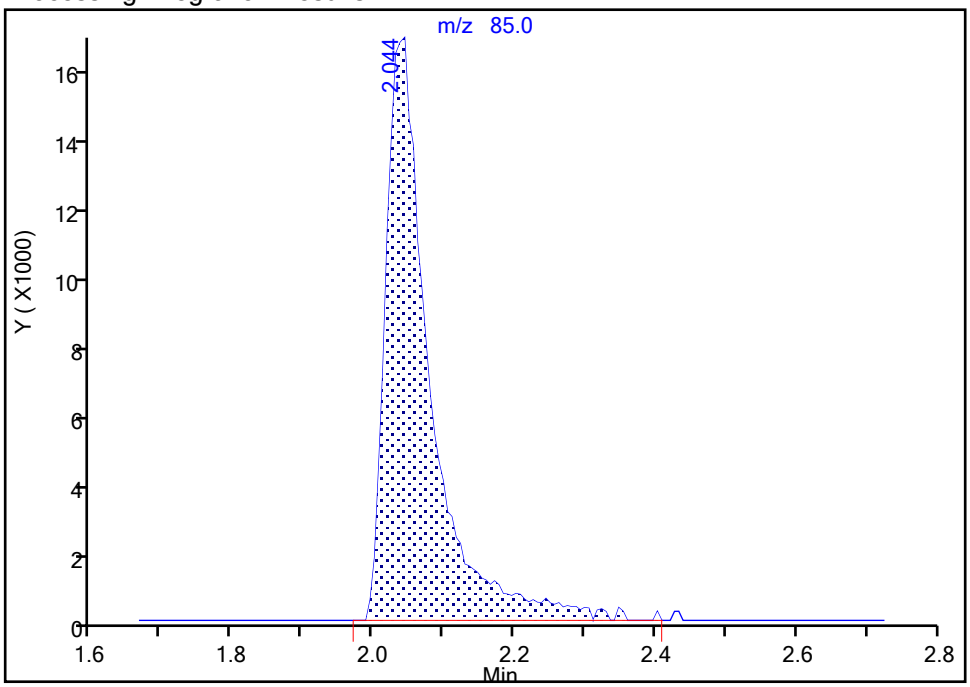
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x14.D
Injection Date: 03-Feb-2021 18:42:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

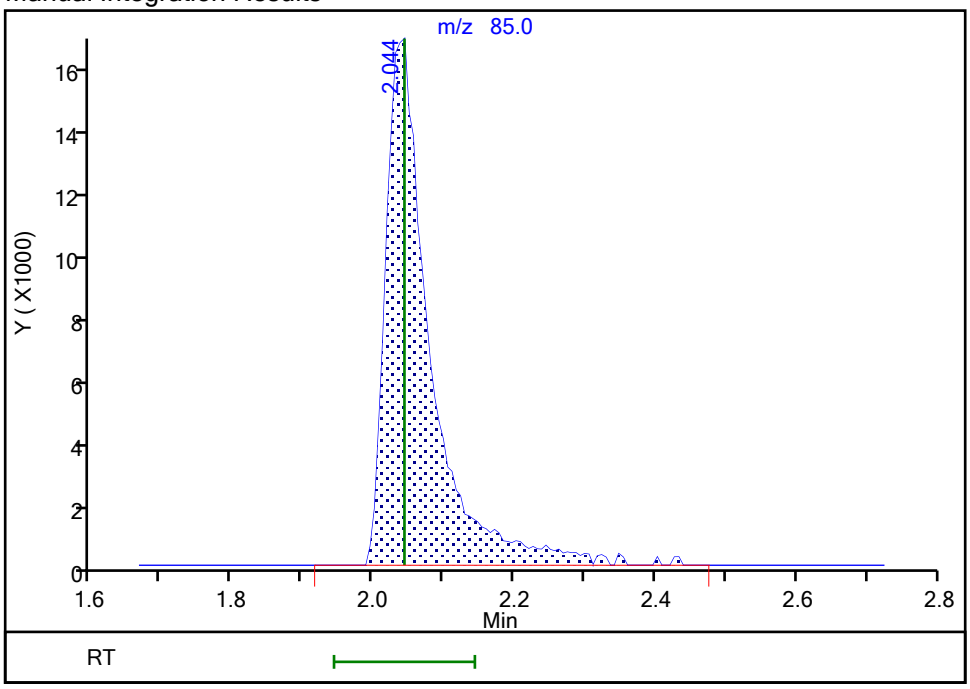
Processing Integration Results

RT: 2.04
Area: 73592
Amount: 10.171693
Amount Units: ug/l



Manual Integration Results

RT: 2.04
Area: 73783
Amount: 10.194248
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:05:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

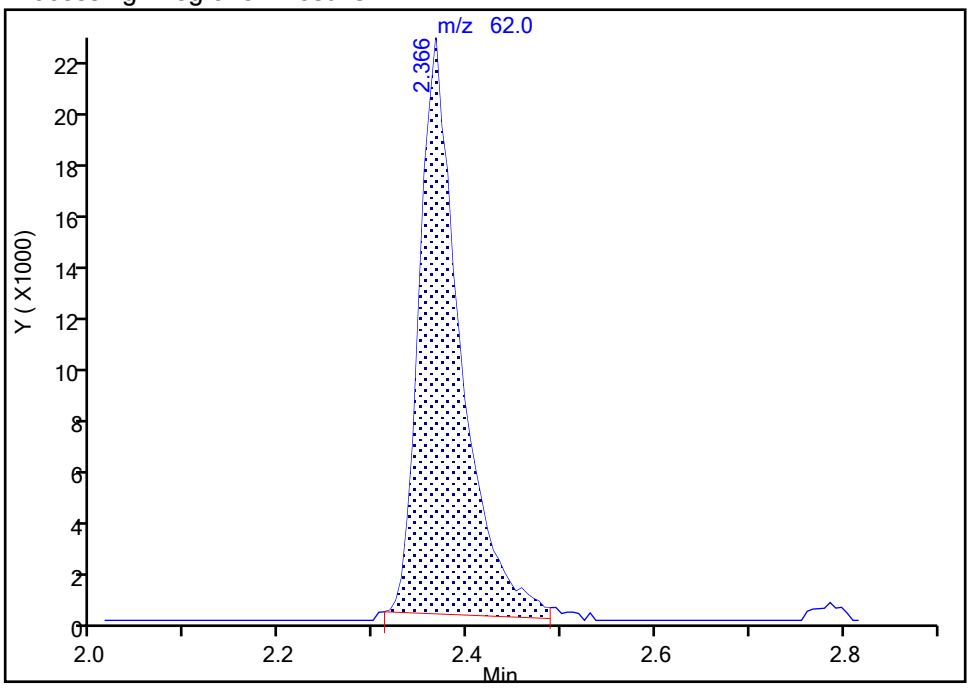
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x14.D
Injection Date: 03-Feb-2021 18:42:30 Instrument ID: 9355
Lims ID: IC std3 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

6 Vinyl chloride, CAS: 75-01-4

Signal: 1

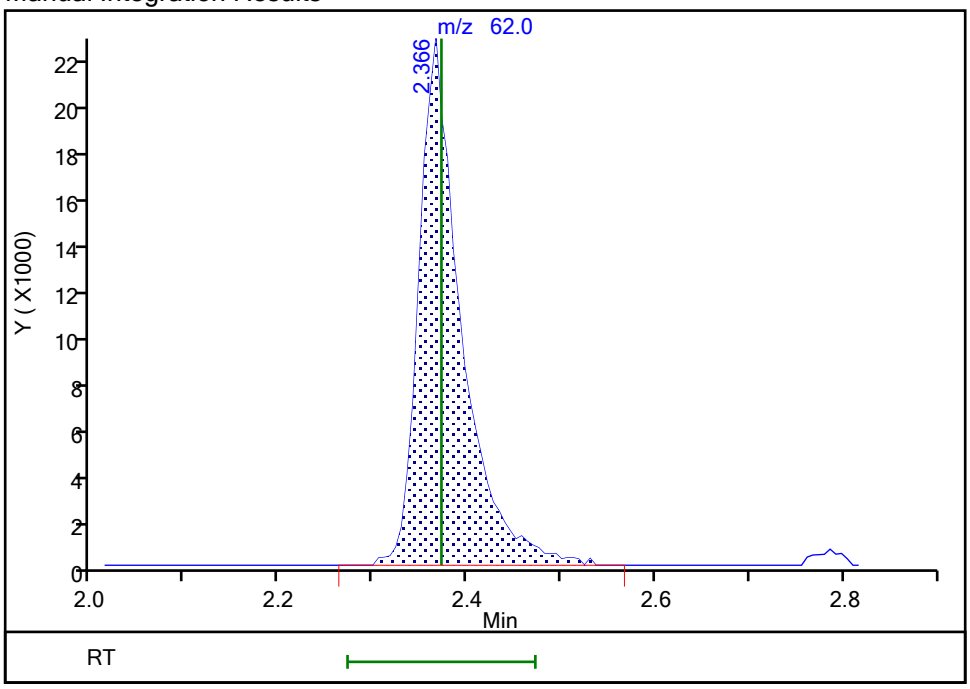
Processing Integration Results

RT: 2.37
Area: 66417
Amount: 9.111004
Amount Units: ug/l



Manual Integration Results

RT: 2.37
Area: 69404
Amount: 10.140491
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 19:59:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x15.D
Lims ID: IC std2 4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 03-Feb-2021 19:04:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-015
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:32:42 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 20:01:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.032	2.044	-0.012	99	27082	4.00	3.68	M
4 Chloromethane	50	2.244	2.250	-0.006	99	29056	4.00	3.87	
5 Butadiene	39	2.354	2.366	-0.012	93	27122	4.00	4.11	
6 Vinyl chloride	62	2.360	2.372	-0.012	79	26793	4.00	3.85	
8 Bromomethane	94	2.695	2.707	-0.012	92	18991	4.00	3.92	
9 Chloroethane	64	2.774	2.786	-0.012	99	16659	4.00	4.02	
10 Dichlorofluoromethane	67	3.023	3.029	-0.006	97	36039	4.00	3.87	
11 Trichlorofluoromethane	101	3.108	3.108	0.000	95	35133	4.00	3.84	
12 Pentane	43	3.133	3.145	-0.012	96	41782	4.00	4.35	
14 Ethyl ether	59	3.352	3.358	-0.006	90	21951	4.00	3.98	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.419	3.431	-0.012	88	27830	4.00	4.09	
16 Acrolein	56	3.516	3.528	-0.012	100	127792	40.0	37.8	
17 1,1-Dichloroethene	96	3.668	3.680	-0.012	98	25173	4.00	4.15	
18 Acetone	58	3.692	3.698	-0.006	97	14310	8.00	7.68	
19 112TCTFE	101	3.698	3.717	-0.019	86	26512	4.00	4.19	
20 Isopropyl alcohol	45	3.863	3.863	0.000	98	96882	80.0	73.3	
21 Iodomethane	142	3.875	3.887	-0.012	97	46416	4.00	4.06	
22 Carbon disulfide	76	3.997	4.009	-0.012	99	83434	4.00	3.97	
24 Methyl acetate	43	4.118	4.130	-0.012	98	47404	4.00	3.87	
25 3-Chloro-1-propene	41	4.155	4.167	-0.012	93	46256	4.00	4.03	
* 26 t-Butyl alcohol-d10 (IS)	65	4.337	4.349	-0.012	0	464239	250.0	250.0	
27 Methylene Chloride	84	4.343	4.355	-0.012	46	29793	4.00	4.02	
28 2-Methyl-2-propanol	59	4.471	4.483	-0.012	98	183047	80.0	73.5	
30 Acrylonitrile	53	4.672	4.678	-0.006	98	22787	4.00	3.63	
31 Methyl tert-butyl ether	73	4.757	4.769	-0.012	96	92781	4.00	3.92	
32 trans-1,2-Dichloroethene	96	4.781	4.787	-0.006	99	29111	4.00	4.12	
33 Hexane	57	5.201	5.213	-0.012	94	45997	4.00	4.08	
35 1,1-Dichloroethane	63	5.426	5.432	-0.006	96	53150	4.00	4.08	
36 Isopropyl ether	45	5.481	5.493	-0.012	94	95635	4.00	3.89	
37 2-Chloro-1,3-butadiene	53	5.536	5.548	-0.012	90	41441	4.00	3.78	
38 Tert-butyl ethyl ether	59	6.016	6.028	-0.012	97	86128	4.00	3.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 39 1,2-Dichloroethene, Total	100				0			8.20	
40 2-Butanone (MEK)	43	6.199	6.211	-0.012	100	65673	8.00	7.28	M
41 cis-1,2-Dichloroethene	96	6.254	6.259	-0.005	81	32700	4.00	4.08	
43 2,2-Dichloropropane	77	6.266	6.278	-0.012	88	39431	4.00	3.93	
44 Propionitrile	54	6.290	6.290	0.000	99	205695	80.0	75.3	
45 Methacrylonitrile	67	6.509	6.515	-0.006	93	223938	40.0	37.6	
46 Chlorobromomethane	128	6.594	6.594	0.000	93	16765	4.00	3.98	
47 Tetrahydrofuran	71	6.613	6.618	-0.006	91	17047	8.00	6.91	
48 Chloroform	83	6.728	6.740	-0.012	93	49445	4.00	3.99	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.953	-0.006	94	273286	50.0	49.8	
50 1,1,1-Trichloroethane	97	6.965	6.971	-0.006	98	41261	4.00	3.92	
51 Cyclohexane	56	7.081	7.087	-0.006	91	52630	4.00	4.02	
52 1,1-Dichloropropene	75	7.184	7.184	0.000	97	40581	4.00	3.98	
53 Carbon tetrachloride	117	7.190	7.196	-0.006	97	34523	4.00	3.86	
54 Isobutyl alcohol	41	7.294	7.300	-0.006	95	152723	200.0	183.1	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.409	-0.006	0	73240	50.0	50.4	
56 Benzene	78	7.440	7.446	-0.006	94	124978	4.00	4.04	
58 1,2-Dichloroethane	62	7.513	7.519	-0.006	97	43026	4.00	3.97	
59 Tert-amyl methyl ether	73	7.635	7.634	0.001	97	86325	4.00	3.85	
* 61 Fluorobenzene (IS)	96	7.841	7.847	-0.006	99	1187605	50.0	50.0	
62 n-Heptane	43	7.860	7.866	-0.006	93	55872	4.00	4.27	
63 n-Butanol	56	8.176	8.182	-0.006	90	274233	400.0	361.4	
64 Trichloroethene	95	8.328	8.328	0.000	97	31127	4.00	4.00	
65 Methylcyclohexane	83	8.650	8.650	0.000	94	55150	4.00	4.02	
66 1,2-Dichloropropane	63	8.657	8.656	0.001	73	32965	4.00	4.00	
67 2-ethoxy-2-methyl butane	87	8.663	8.662	0.001	93	43125	4.00	3.81	
68 Methyl methacrylate	69	8.724	8.729	-0.005	92	31755	4.00	3.67	
69 1,4-Dioxane	88	8.742	8.748	-0.006	96	34317	200.0	192.2	
70 Dibromomethane	93	8.772	8.772	0.000	97	19910	4.00	3.83	
72 Dichlorobromomethane	83	8.997	9.003	-0.006	99	33563	4.00	3.67	
73 2-Nitropropane	41	9.241	9.247	-0.006	98	26157	8.00	6.44	
74 2-Chloroethyl vinyl ether	63	9.344	9.350	-0.006	91	14937	4.00	3.23	
75 cis-1,3-Dichloropropene	75	9.533	9.539	-0.006	96	46865	4.00	3.69	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.691	0.000	97	108946	8.00	6.92	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1162846	50.0	49.8	
78 Toluene	92	9.916	9.922	-0.006	98	79059	4.00	4.06	
S 80 1,3-Dichloropropene, Total	100				0			7.30	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	93	42416	4.00	3.61	
82 Ethyl methacrylate	69	10.220	10.220	0.000	91	43693	4.00	3.41	
83 1,1,2-Trichloroethane	97	10.366	10.372	-0.006	91	29986	4.00	3.92	
84 Tetrachloroethene	166	10.469	10.469	0.000	97	34380	4.00	4.03	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	89	51994	4.00	3.91	
87 2-Hexanone	43	10.567	10.567	0.000	97	87678	8.00	6.79	
89 Chlorodibromomethane	129	10.749	10.749	0.000	89	27583	4.00	3.58	
90 Ethylene Dibromide	107	10.865	10.865	0.000	99	32044	4.00	3.81	
S 91 Xylenes, Total	106				0			12.0	
92 1-Chlorohexane	91	11.291	11.291	0.000	95	41810	4.00	3.98	
* 93 Chlorobenzene-d5 (IS)	117	11.291	11.291	0.000	86	892849	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	96	91807	4.00	4.11	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	95	27650	4.00	3.78	
96 Ethylbenzene	91	11.400	11.400	0.000	98	147921	4.00	4.06	
97 m-Xylene & p-Xylene	106	11.510	11.516	-0.006	100	117552	8.00	8.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 o-Xylene	106	11.838	11.838	0.000	95	54662	4.00	3.92	
99 Styrene	104	11.857	11.856	0.001	95	84864	4.00	3.72	
100 Bromoform	173	12.015	12.021	-0.006	96	19320	4.00	3.28	
101 Isopropylbenzene	105	12.136	12.136	0.000	96	140275	4.00	3.99	
103 Cyclohexanone	55	12.209	12.209	0.000	92	185440	200.0	186.8	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	90	434665	50.0	50.0	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.373	0.001	92	54132	4.00	3.99	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	93	178960	40.0	37.8	
107 Bromobenzene	156	12.404	12.404	0.000	59	39305	4.00	3.96	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	80	17375	4.00	3.98	
109 N-Propylbenzene	91	12.465	12.465	0.000	98	181076	4.00	4.20	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	36921	4.00	3.98	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	125529	4.00	4.05	
112 4-Chlorotoluene	126	12.635	12.635	0.000	98	39033	4.00	4.03	
114 tert-Butylbenzene	134	12.842	12.842	0.000	93	27530	4.00	4.15	
115 Pentachloroethane	167	12.879	12.878	0.001	91	19898	4.00	3.70	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.001	96	128804	4.00	4.02	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	164645	4.00	4.15	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	96	77278	4.00	4.10	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	138883	4.00	4.10	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.000	94	489444	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	93	79282	4.00	4.06	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	97	131570	4.00	3.95	
123 Benzyl chloride	91	13.256	13.256	0.000	98	95463	4.00	3.53	
124 1,3-Diethylbenzene	119	13.317	13.316	0.001	95	84170	4.00	3.94	
125 p-Diethylbenzene	119	13.390	13.389	0.001	94	89834	4.00	4.01	
126 n-Butylbenzene	92	13.408	13.408	0.000	97	74262	4.00	4.14	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	98	73892	4.00	4.04	
128 o-diethylbenzene	119	13.463	13.456	0.007	94	70628	4.00	3.97	
130 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	82	13026	4.00	3.57	
131 1,3,5-Trichlorobenzene	180	14.114	14.113	0.001	97	56954	4.00	4.02	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	95	50063	4.00	3.86	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	97	25030	4.00	4.10	
134 Naphthalene	128	14.722	14.716	0.006	97	165115	4.00	3.74	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	50231	4.00	3.96	
136 2-Methylnaphthalene	142	15.513	15.507	0.006	93	82350	4.00	3.27	
S 166 Total Diethylbenzene	1				0			11.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_VCYC_00005	Amount Added:	32.00	Units: uL	
MSV_V_EE_00004	Amount Added:	4.00	Units: uL	
MSV_DCFM_00034	Amount Added:	2.00	Units: uL	
MSV_V_2CEVE_00139	Amount Added:	4.00	Units: uL	
MSV_V_VOA1_00127	Amount Added:	4.00	Units: uL	
MSV_V_VOA3_00066	Amount Added:	1.60	Units: uL	
MSV_V_VOA6_00073	Amount Added:	4.00	Units: uL	
MSV_V_VOA2_00069	Amount Added:	12.00	Units: uL	
MSV_V_Gas_00209	Amount Added:	2.00	Units: uL	
MSV_HP20_ISSS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Feb-2021 21:32:44 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x15.D

Injection Date: 03-Feb-2021 19:04:30 Instrument ID: 9355 Operator ID: kas02648

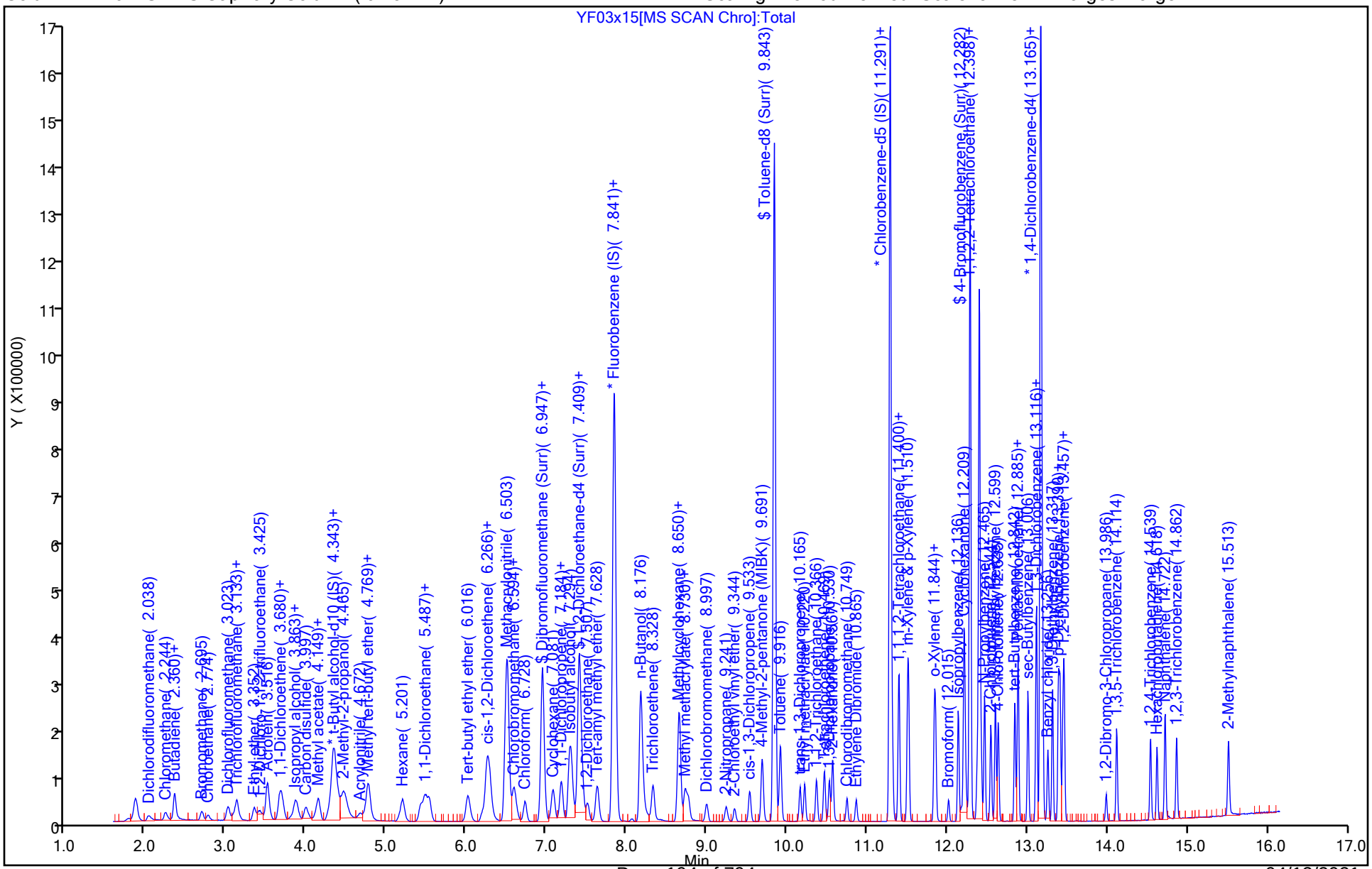
Lims ID: IC std2 4 Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

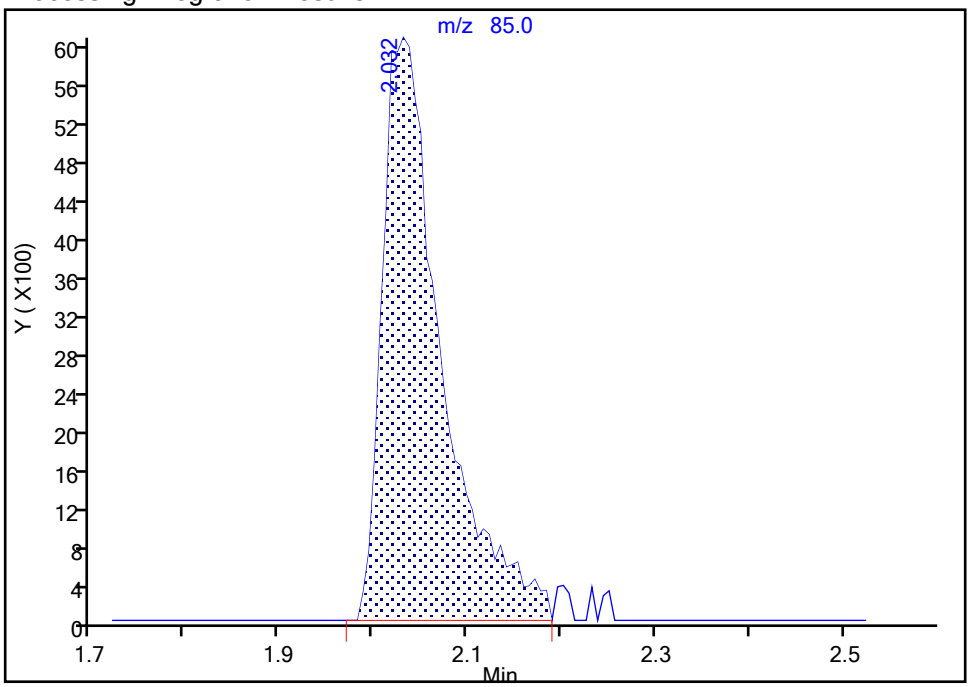
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x15.D
Injection Date: 03-Feb-2021 19:04:30 Instrument ID: 9355
Lims ID: IC std2 4
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

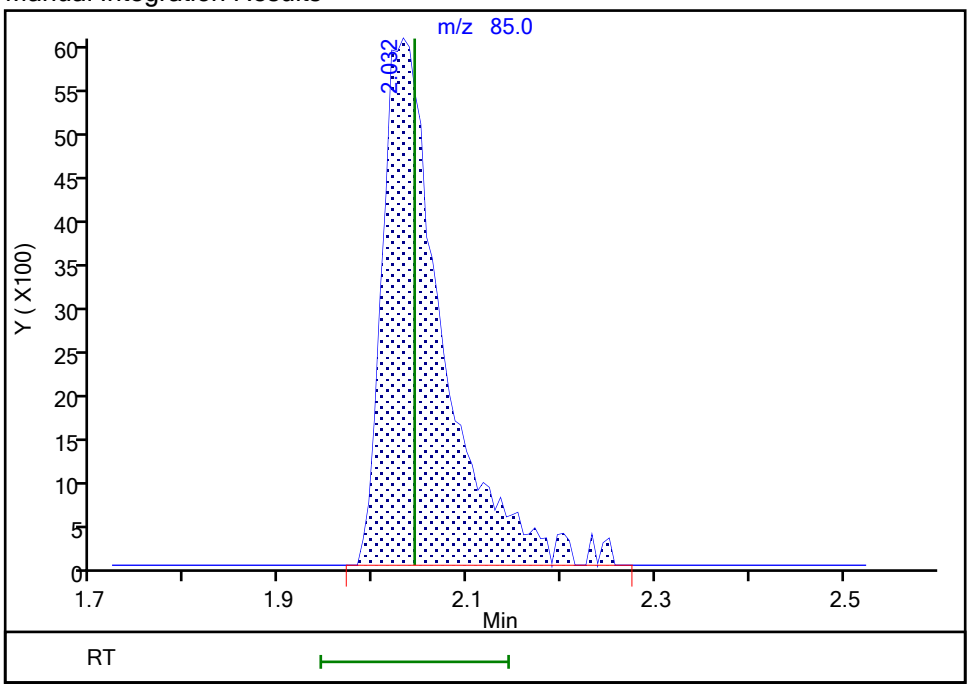
Processing Integration Results

RT: 2.03
Area: 26390
Amount: 3.695945
Amount Units: ug/l



Manual Integration Results

RT: 2.03
Area: 27082
Amount: 3.683324
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:05:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

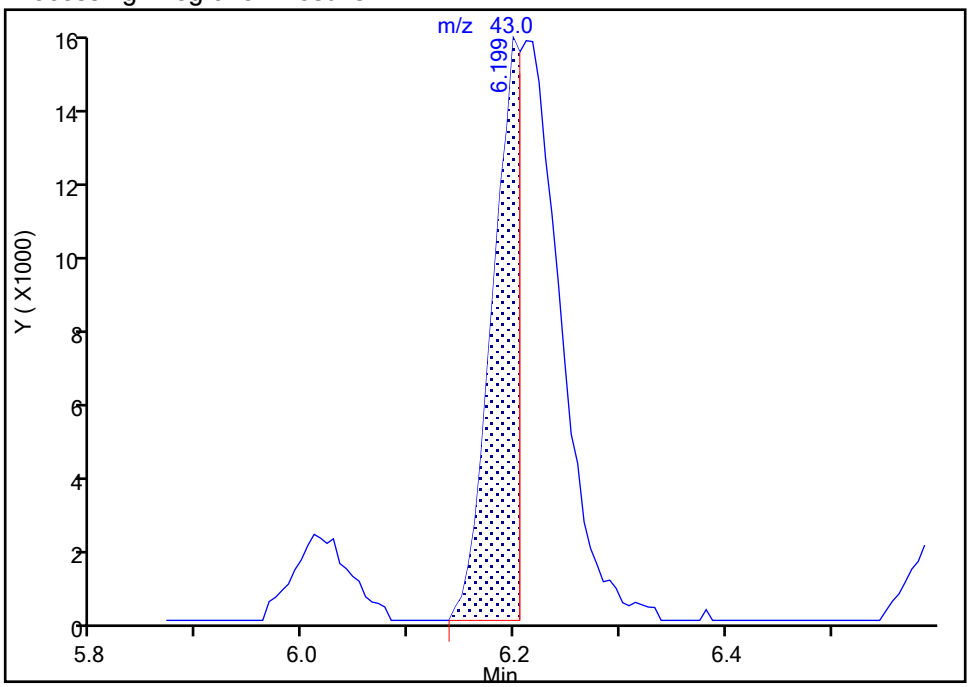
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x15.D
Injection Date: 03-Feb-2021 19:04:30 Instrument ID: 9355
Lims ID: IC std2 4
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

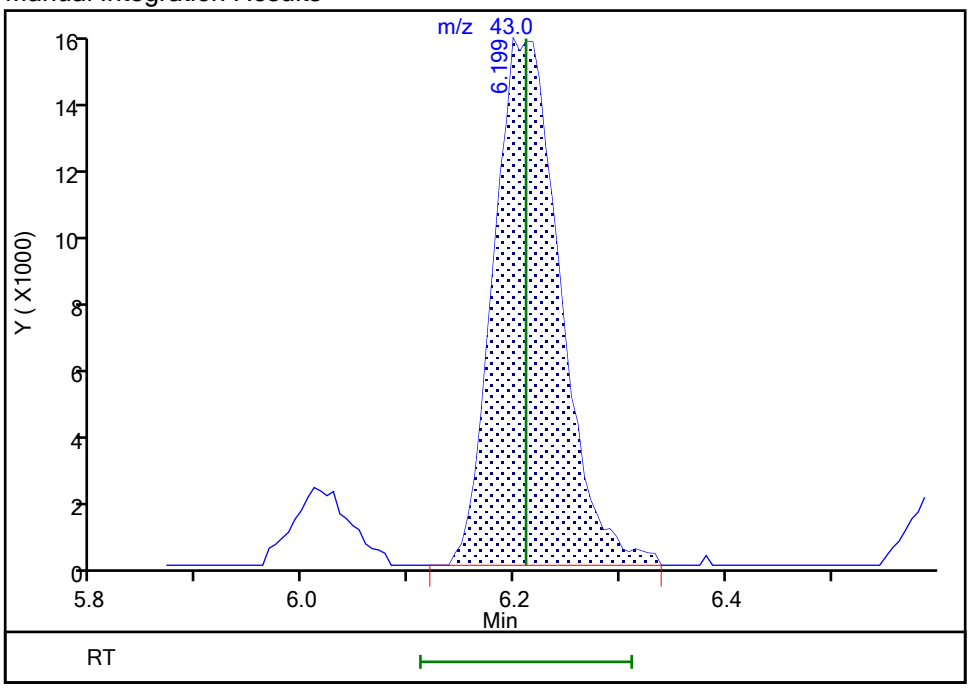
Processing Integration Results

RT: 6.20
Area: 28595
Amount: 1.405663
Amount Units: ug/l



Manual Integration Results

RT: 6.20
Area: 65673
Amount: 7.281390
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:01:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Lims ID: IC std1 1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 03-Feb-2021 19:26:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-016
Operator ID: kas02648 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:32:53 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 20:05:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.037	2.044	-0.007	93	5180	1.00	0.7128	
4 Chloromethane	50	2.250	2.250	0.000	97	7061	1.00	0.9520	
5 Butadiene	39	2.372	2.366	0.006	89	6606	1.00	1.01	M
6 Vinyl chloride	62	2.366	2.372	-0.006	75	5695	1.00	0.8288	M
8 Bromomethane	94	2.707	2.707	0.000	90	4327	1.00	0.9040	
9 Chloroethane	64	2.792	2.786	0.006	97	3647	1.00	0.8894	
10 Dichlorofluoromethane	67	3.029	3.029	0.000	96	8884	1.00	0.9641	
11 Trichlorofluoromethane	101	3.114	3.108	0.006	93	7423	1.00	0.8200	
12 Pentane	43	3.139	3.145	-0.006	97	9000	1.00	0.9487	
14 Ethyl ether	59	3.364	3.358	0.006	89	5201	1.00	0.9552	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.437	3.431	0.006	70	7107	1.00	1.06	
16 Acrolein	56	3.528	3.528	0.000	98	32415	10.0	10.1	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	95	5395	1.00	0.9001	
18 Acetone	58	3.704	3.698	0.006	95	3530	2.00	1.99	
19 112TCTFE	101	3.717	3.717	0.000	82	4955	1.00	0.7926	
20 Isopropyl alcohol	45	3.875	3.863	0.012	96	24865	20.0	19.7	M
21 Iodomethane	142	3.887	3.887	0.000	96	10206	1.00	0.9030	
22 Carbon disulfide	76	4.015	4.009	0.006	99	19391	1.00	0.9331	M
24 Methyl acetate	43	4.136	4.130	0.006	97	12557	1.00	1.04	
25 3-Chloro-1-propene	41	4.173	4.167	0.006	91	10139	1.00	0.8937	
* 26 t-Butyl alcohol-d10 (IS)	65	4.361	4.349	0.012	0	442048	250.0	250.0	
27 Methylene Chloride	84	4.361	4.355	0.006	33	7240	1.00	0.9887	
28 2-Methyl-2-propanol	59	4.483	4.483	0.000	97	45923	20.0	19.4	
30 Acrylonitrile	53	4.684	4.678	0.006	96	5382	1.00	0.8684	
31 Methyl tert-butyl ether	73	4.775	4.769	0.006	97	21297	1.00	0.9100	
32 trans-1,2-Dichloroethene	96	4.793	4.787	0.006	84	6333	1.00	0.9077	M
33 Hexane	57	5.213	5.213	0.000	93	9132	1.00	0.8187	
35 1,1-Dichloroethane	63	5.438	5.432	0.006	93	11935	1.00	0.9266	
36 Isopropyl ether	45	5.499	5.493	0.006	94	21282	1.00	0.8751	
37 2-Chloro-1,3-butadiene	53	5.548	5.548	0.000	43	8811	1.00	0.8134	
38 Tert-butyl ethyl ether	59	6.028	6.028	0.000	95	19281	1.00	0.8628	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 39 1,2-Dichloroethene, Total	100				0			1.82	
40 2-Butanone (MEK)	43	6.223	6.211	0.012	98	16078	2.00	1.80	
41 cis-1,2-Dichloroethene	96	6.260	6.259	0.001	80	7236	1.00	0.9129	
43 2,2-Dichloropropane	77	6.266	6.278	-0.012	55	8575	1.00	0.8645	M
44 Propionitrile	54	6.290	6.290	0.000	99	50597	20.0	19.5	
45 Methacrylonitrile	67	6.521	6.515	0.006	92	53358	10.0	9.05	
46 Chlorobromomethane	128	6.594	6.594	0.000	94	3789	1.00	0.9099	
47 Tetrahydrofuran	71	6.606	6.618	-0.012	90	4088	2.00	1.74	a
48 Chloroform	83	6.740	6.740	0.000	93	11525	1.00	0.9416	
$ 49 Dibromofluoromethane (Surr)	113	6.953	6.953	0.000	94	267880	50.0	49.4	
50 1,1,1-Trichloroethane	97	6.977	6.971	0.006	35	9398	1.00	0.9043	
51 Cyclohexane	56	7.087	7.087	0.000	89	10578	1.00	0.8173	
52 1,1-Dichloropropene	75	7.190	7.184	0.006	95	8665	1.00	0.8602	
53 Carbon tetrachloride	117	7.196	7.196	0.000	81	7235	1.00	0.8196	
54 Isobutyl alcohol	41	7.300	7.300	0.000	93	36892	50.0	46.4	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.415	7.409	0.006	0	71250	50.0	49.6	
56 Benzene	78	7.446	7.446	0.000	92	29070	1.00	0.9515	
58 1,2-Dichloroethane	62	7.519	7.519	0.000	96	11256	1.00	1.05	
59 Tert-amyl methyl ether	73	7.640	7.634	0.006	95	19254	1.00	0.8688	
* 61 Fluorobenzene (IS)	96	7.847	7.847	0.000	99	1173726	50.0	50.0	
62 n-Heptane	43	7.859	7.866	-0.007	52	11373	1.00	0.8802	
63 n-Butanol	56	8.182	8.182	0.000	90	62634	100.0	86.7	
64 Trichloroethene	95	8.328	8.328	0.000	98	7475	1.00	0.9721	
65 Methylcyclohexane	83	8.650	8.650	0.000	84	10922	1.00	0.8053	
66 1,2-Dichloropropane	63	8.663	8.656	0.006	75	7670	1.00	0.9420	
67 2-ethoxy-2-methyl butane	87	8.663	8.662	0.000	85	9078	1.00	0.8106	
68 Methyl methacrylate	69	8.723	8.729	-0.006	90	6992	1.00	0.8176	
69 1,4-Dioxane	88	8.748	8.748	0.000	94	7290	50.0	42.9	
70 Dibromomethane	93	8.772	8.772	0.000	97	4864	1.00	0.9478	
72 Dichlorobromomethane	83	9.003	9.003	0.000	96	7635	1.00	0.8442	
73 2-Nitropropane	41	9.240	9.247	-0.007	98	5717	2.00	1.48	
74 2-Chloroethyl vinyl ether	63	9.350	9.350	0.000	88	3327	1.00	0.7268	
75 cis-1,3-Dichloropropene	75	9.539	9.539	0.000	95	10257	1.00	0.8166	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.691	0.000	98	24024	2.00	1.55	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1134827	50.0	49.5	
78 Toluene	92	9.922	9.922	0.000	97	17978	1.00	0.9413	
S 80 1,3-Dichloropropene, Total	100				0			1.63	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	91	9328	1.00	0.8095	
82 Ethyl methacrylate	69	10.220	10.220	0.000	91	8829	1.00	0.7026	
83 1,1,2-Trichloroethane	97	10.372	10.372	0.000	90	6882	1.00	0.9170	
84 Tetrachloroethene	166	10.469	10.469	0.000	93	7353	1.00	0.8777	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	89	12127	1.00	0.9282	
87 2-Hexanone	43	10.573	10.567	0.006	98	19038	2.00	1.50	
89 Chlorodibromomethane	129	10.749	10.749	0.000	90	5919	1.00	0.7832	
90 Ethylene Dibromide	107	10.865	10.865	0.000	98	7484	1.00	0.9069	
S 91 Xylenes, Total	106				0			2.57	
92 1-Chlorohexane	91	11.291	11.291	0.000	51	9895	1.00	0.9592	
* 93 Chlorobenzene-d5 (IS)	117	11.291	11.291	0.000	85	876455	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	97	21151	1.00	0.9637	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	84	6352	1.00	0.8858	
96 Ethylbenzene	91	11.400	11.400	0.000	97	32006	1.00	0.8957	
97 m-Xylene & p-Xylene	106	11.516	11.516	0.000	99	24732	2.00	1.74	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 o-Xylene	106	11.844	11.838	0.006	96	11387	1.00	0.8311	
99 Styrene	104	11.856	11.856	0.000	93	16240	1.00	0.7252	
100 Bromoform	173	12.015	12.021	-0.006	94	4339	1.00	0.7506	
101 Isopropylbenzene	105	12.142	12.136	0.006	95	27702	1.00	0.8032	
103 Cyclohexanone	55	12.215	12.209	0.006	93	34937	50.0	37.0	
$ 104 4-Bromofluorobenzene (Surr)	95	12.288	12.282	0.006	91	425712	50.0	49.9	
105 1,1,2,2-Tetrachloroethane	83	12.373	12.373	0.000	93	12487	1.00	0.9459	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	93	40956	10.0	8.90	
107 Bromobenzene	156	12.404	12.404	0.000	63	9707	1.00	1.01	
108 1,2,3-Trichloropropane	110	12.428	12.422	0.006	66	4280	1.00	1.01	
109 N-Propylbenzene	91	12.465	12.465	0.000	99	39286	1.00	0.9369	
110 2-Chlorotoluene	126	12.550	12.544	0.006	98	8529	1.00	0.9462	
111 1,3,5-Trimethylbenzene	105	12.605	12.599	0.006	94	25804	1.00	0.8559	
112 4-Chlorotoluene	126	12.641	12.635	0.006	97	8386	1.00	0.8906	
114 tert-Butylbenzene	134	12.848	12.842	0.006	93	5089	1.00	0.7888	
115 Pentachloroethane	167	12.878	12.878	0.000	76	4340	1.00	0.8306	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.001	96	25080	1.00	0.8053	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	32317	1.00	0.8379	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	96	17342	1.00	0.9476	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	25840	1.00	0.7841	
* 120 1,4-Dichlorobenzene-d4	152	13.170	13.164	0.006	95	475686	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.189	13.183	0.006	94	19186	1.00	1.01	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	97	30512	1.00	0.9433	
123 Benzyl chloride	91	13.256	13.256	0.000	98	20498	1.00	0.7810	
124 1,3-Diethylbenzene	119	13.316	13.316	0.000	96	17485	1.00	0.8422	
125 p-Diethylbenzene	119	13.389	13.389	0.000	93	18210	1.00	0.8357	
126 n-Butylbenzene	92	13.408	13.408	0.000	98	15314	1.00	0.8774	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	97	16809	1.00	0.9458	
128 o-diethylbenzene	119	13.456	13.456	0.000	94	14964	1.00	0.8661	
130 1,2-Dibromo-3-Chloropropane	75	13.980	13.986	-0.006	82	2931	1.00	0.8277	
131 1,3,5-Trichlorobenzene	180	14.119	14.113	0.006	97	12995	1.00	0.9433	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	93	11827	1.00	0.9383	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	96	6414	1.00	1.08	
134 Naphthalene	128	14.722	14.716	0.006	97	35702	1.00	0.8324	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	95	11869	1.00	0.9634	
136 2-Methylnaphthalene	142	15.513	15.507	0.006	91	17818	1.00	0.7269	
S 166 Total Diethylbenzene	1				0			2.54	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_4ppbEE_00162	Amount Added: 25.00	Units: mL	
MSV_HP20_ISSS_00037	Amount Added: 1.00	Units: uL	Run Reagent

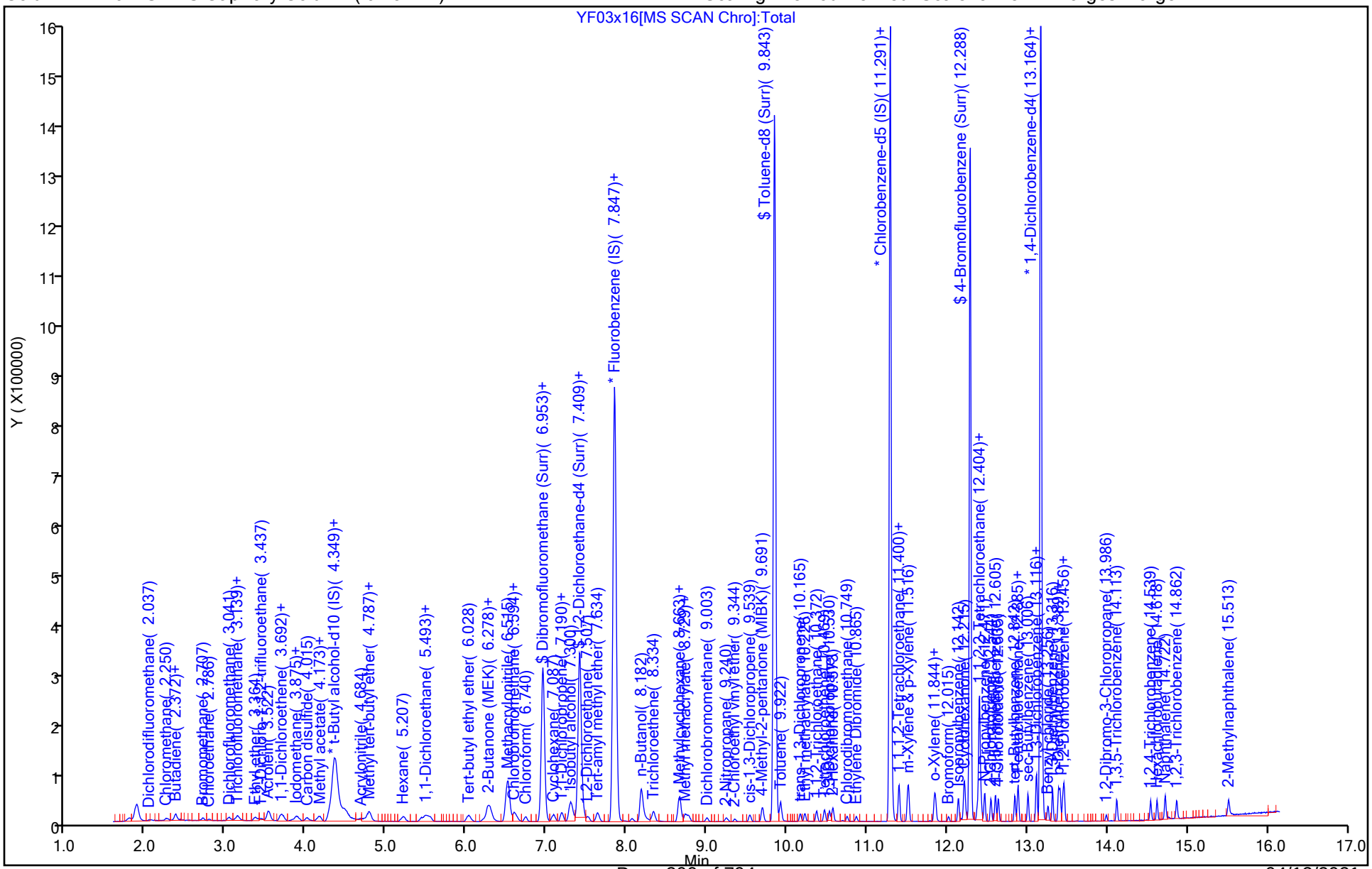
Report Date: 03-Feb-2021 21:32:55 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Injection Date:	03-Feb-2021 19:26:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	IC std1 1			Worklist Smp#:	16
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

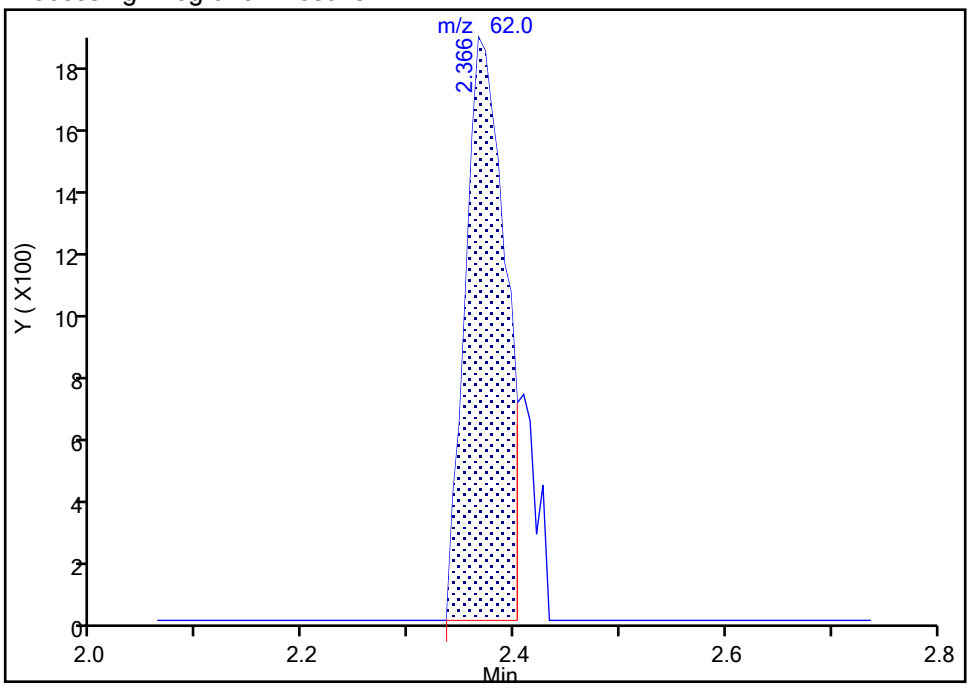
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Injection Date: 03-Feb-2021 19:26:30 Instrument ID: 9355
Lims ID: IC std1 1
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

6 Vinyl chloride, CAS: 75-01-4

Signal: 1

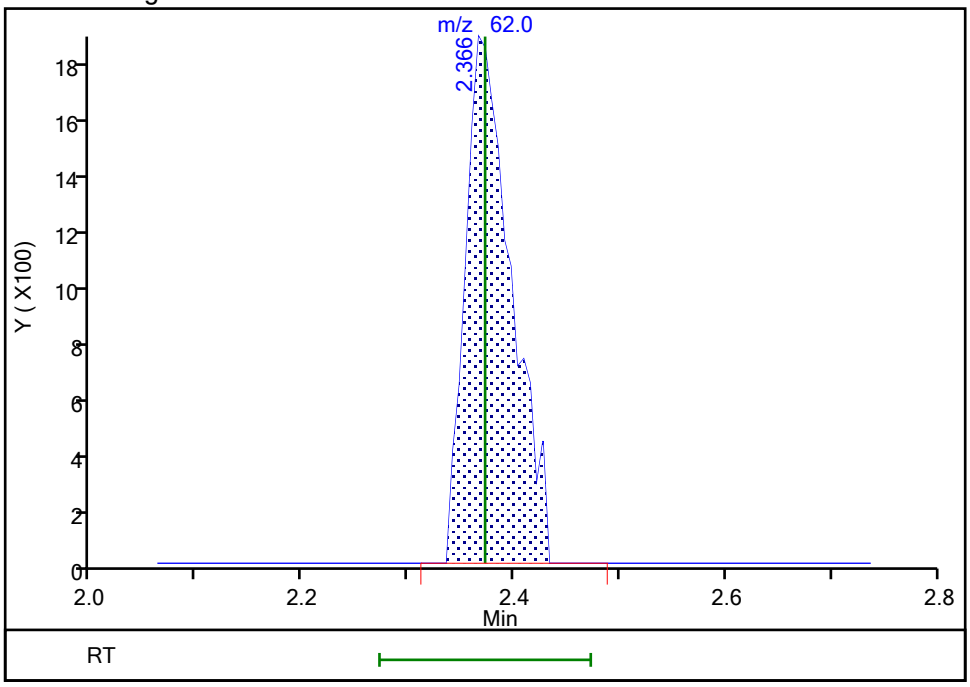
Processing Integration Results

RT: 2.37
Area: 4930
Amount: 0.729037
Amount Units: ug/l



Manual Integration Results

RT: 2.37
Area: 5695
Amount: 0.828770
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:02:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

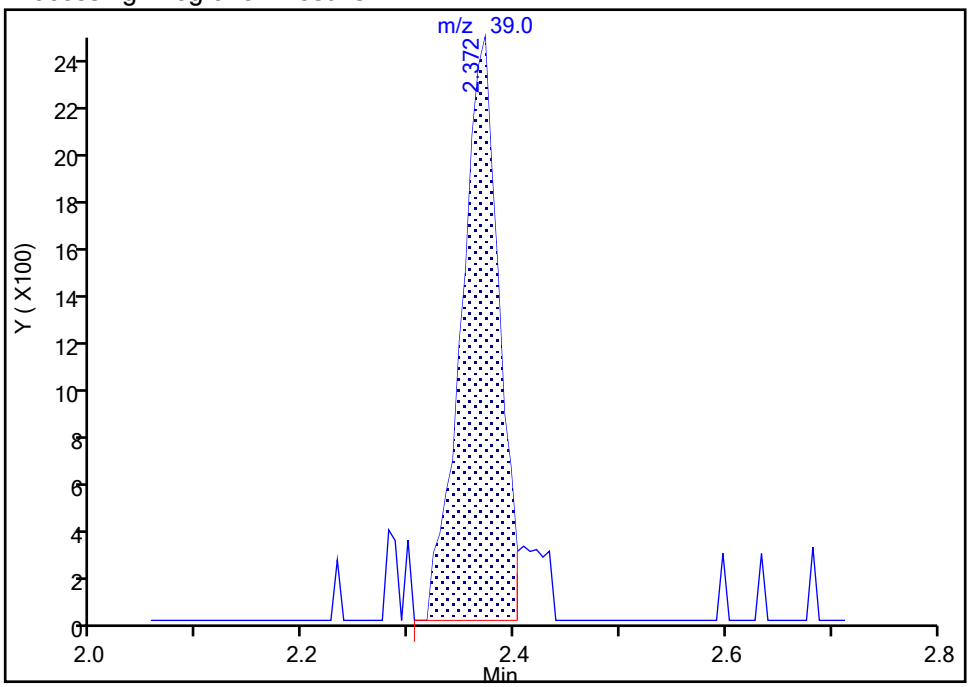
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Injection Date: 03-Feb-2021 19:26:30 Instrument ID: 9355
Lims ID: IC std1 1
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

5 Butadiene, CAS: 106-99-0

Signal: 1

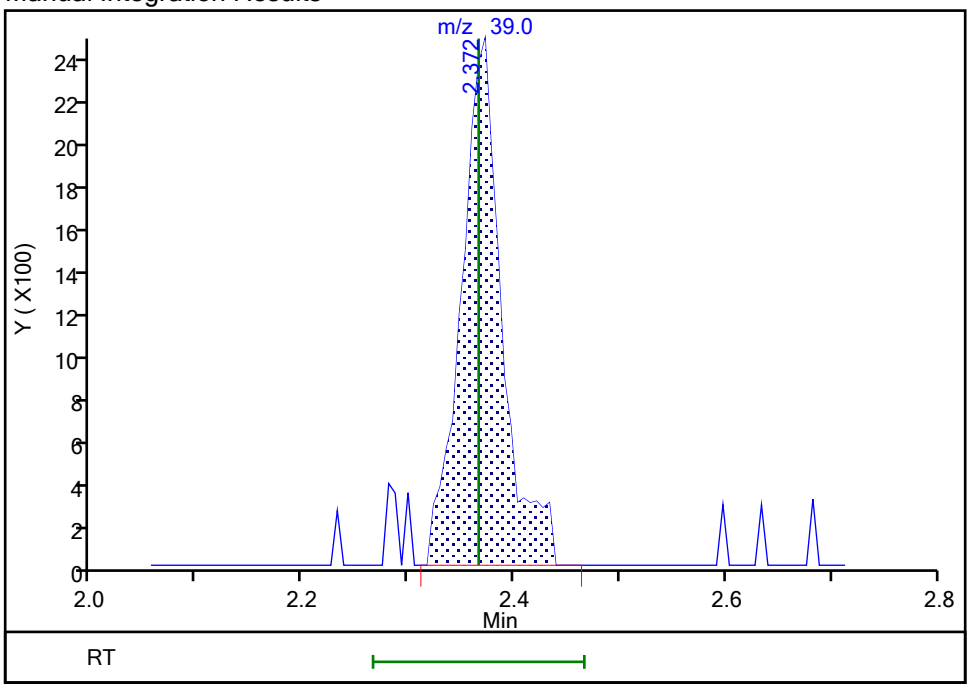
Processing Integration Results

RT: 2.37
Area: 6070
Amount: 0.941907
Amount Units: ug/l



Manual Integration Results

RT: 2.37
Area: 6606
Amount: 1.013043
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:01:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

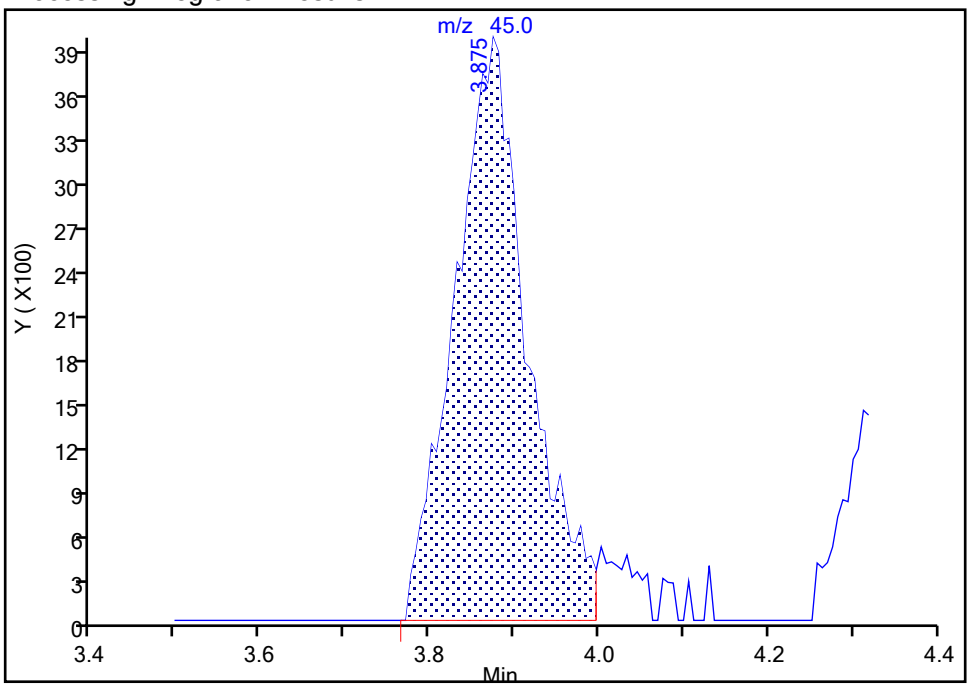
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Injection Date: 03-Feb-2021 19:26:30 Instrument ID: 9355
Lims ID: IC std1 1
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

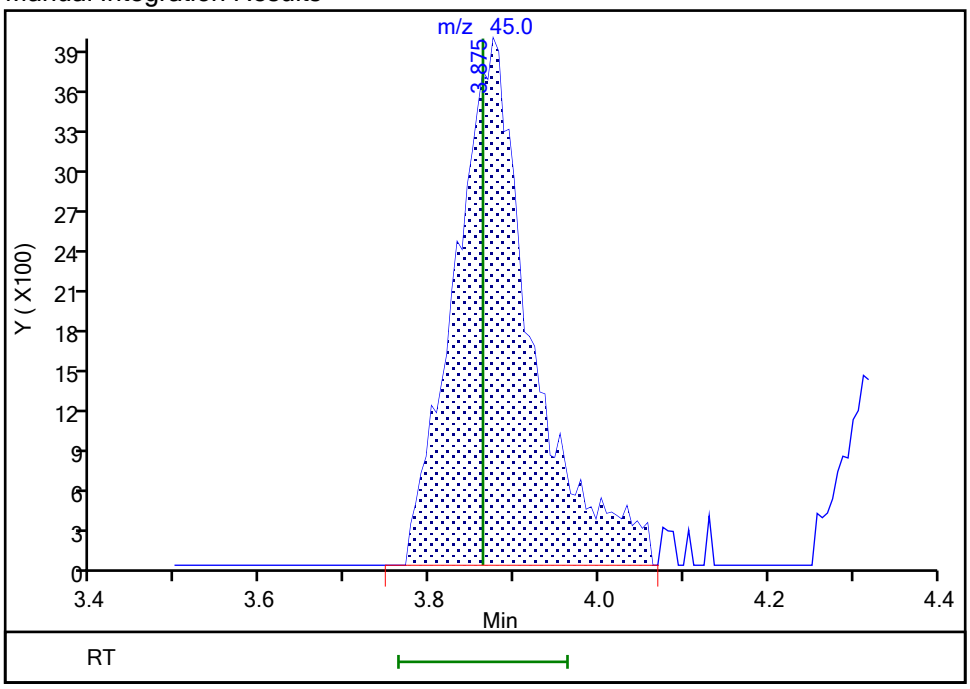
Processing Integration Results

RT: 3.87
Area: 23536
Amount: 18.835562
Amount Units: ug/l



Manual Integration Results

RT: 3.87
Area: 24865
Amount: 19.749110
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:02:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

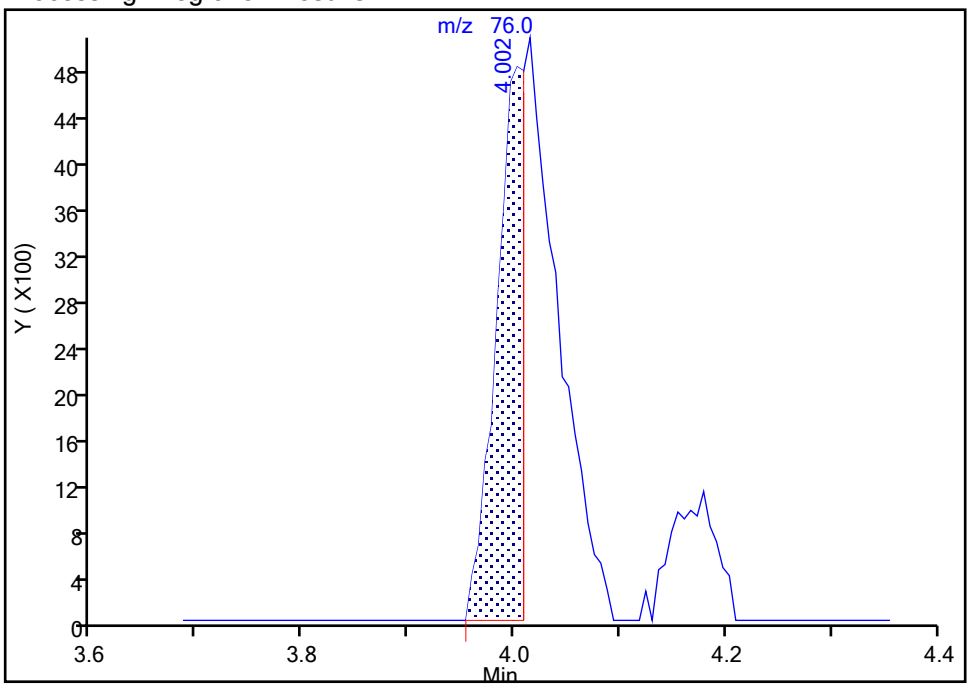
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Injection Date: 03-Feb-2021 19:26:30 Instrument ID: 9355
Lims ID: IC std1 1
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

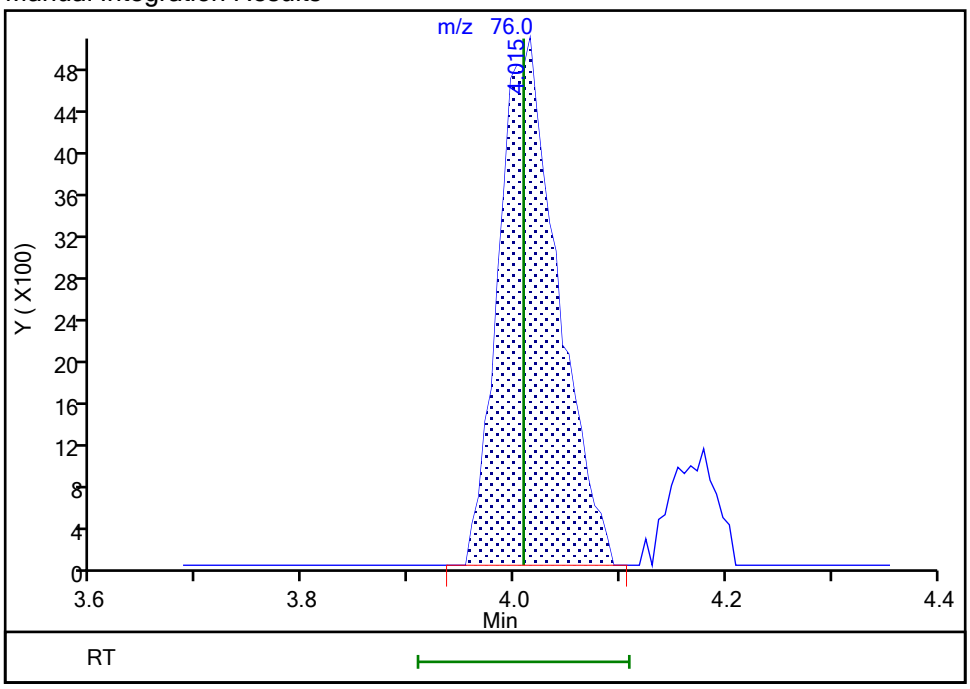
Processing Integration Results

RT: 4.00
Area: 8983
Amount: 0.587972
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 19391
Amount: 0.933125
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:02:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

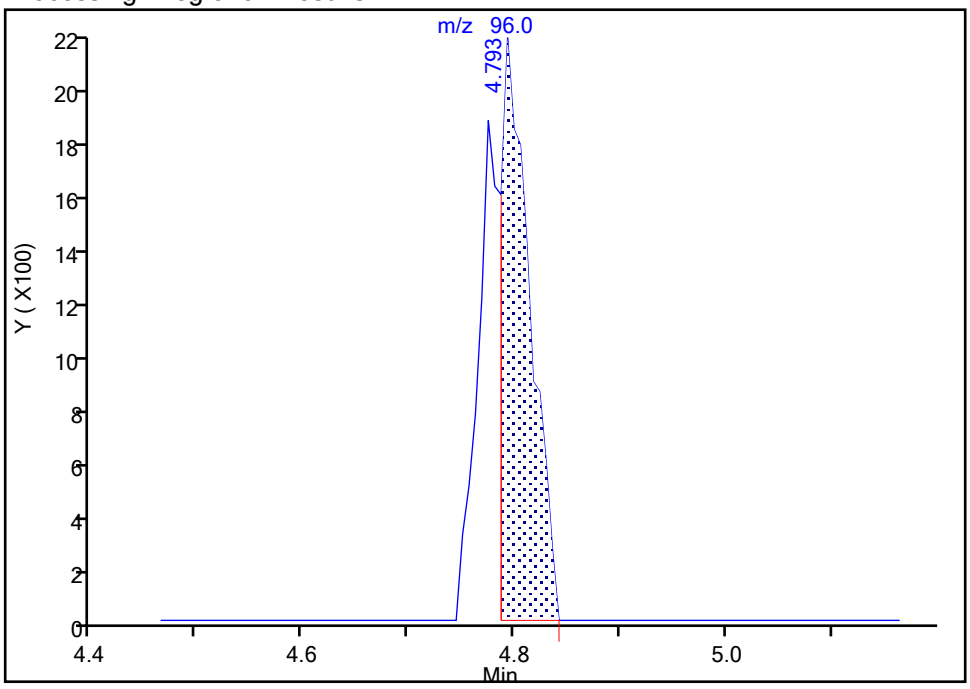
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Injection Date: 03-Feb-2021 19:26:30 Instrument ID: 9355
Lims ID: IC std1 1
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

32 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

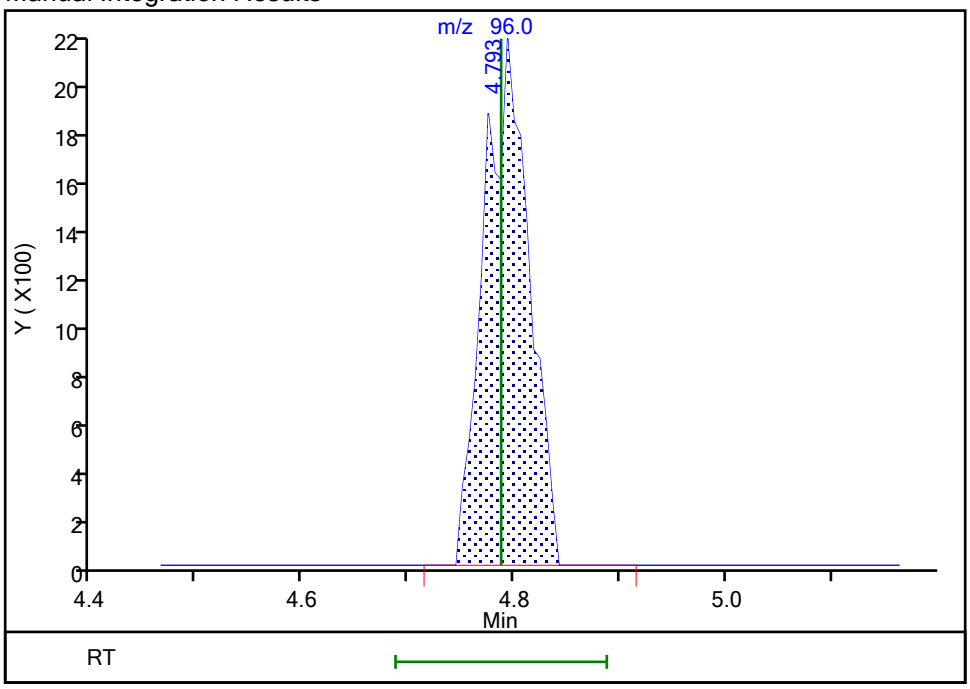
Processing Integration Results

RT: 4.79
Area: 4078
Amount: 0.612770
Amount Units: ug/l



Manual Integration Results

RT: 4.79
Area: 6333
Amount: 0.907674
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:02:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

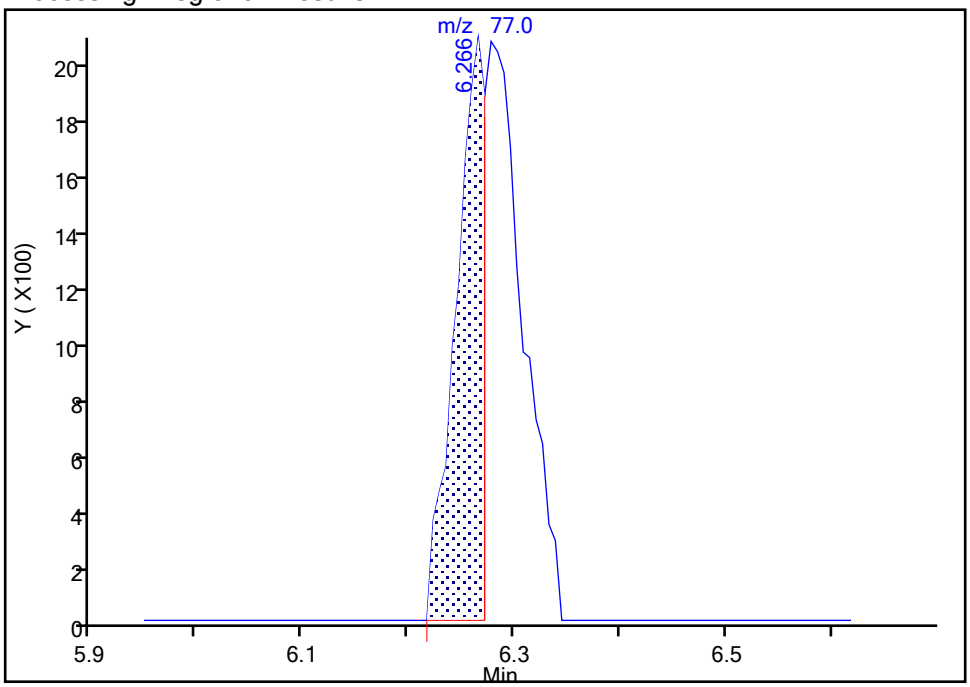
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Injection Date: 03-Feb-2021 19:26:30 Instrument ID: 9355
Lims ID: IC std1 1
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

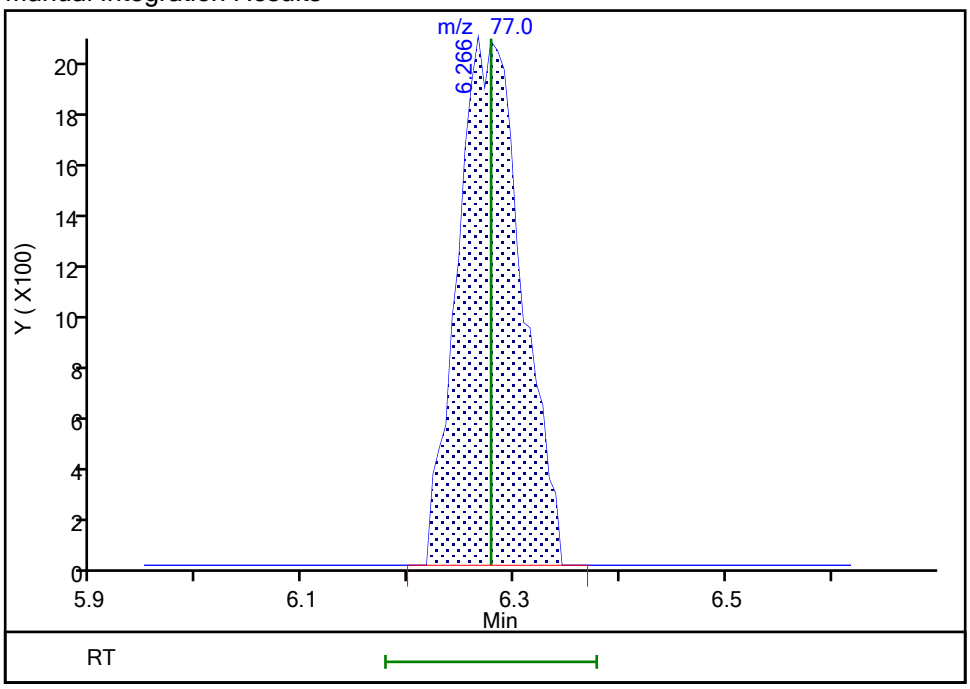
Processing Integration Results

RT: 6.27
Area: 3964
Amount: 0.428048
Amount Units: ug/l



Manual Integration Results

RT: 6.27
Area: 8575
Amount: 0.864472
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:02:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

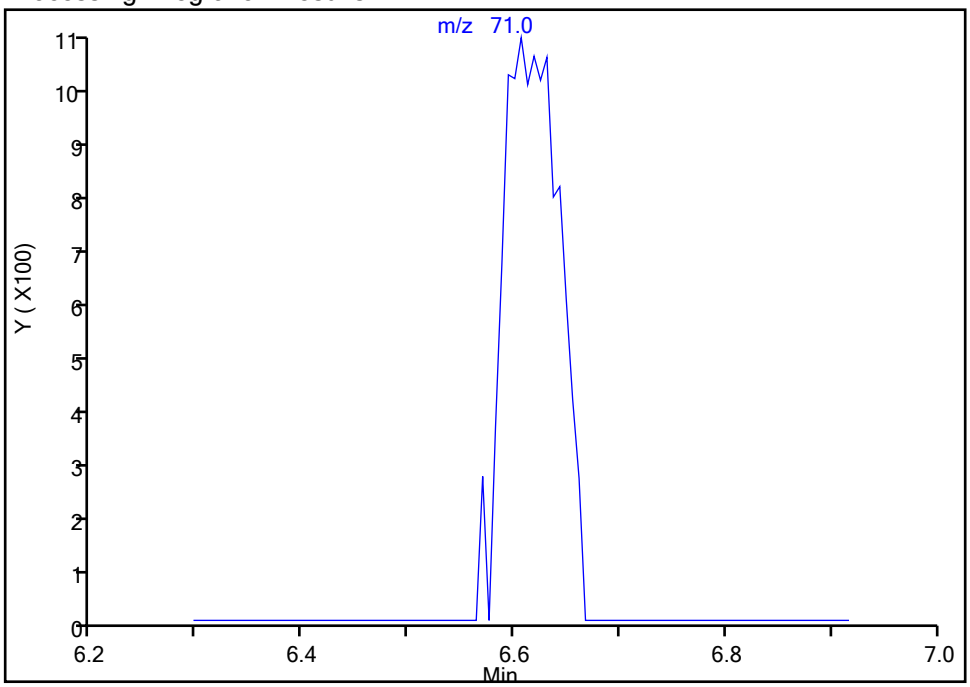
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D
Injection Date: 03-Feb-2021 19:26:30 Instrument ID: 9355
Lims ID: IC std1 1
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

47 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

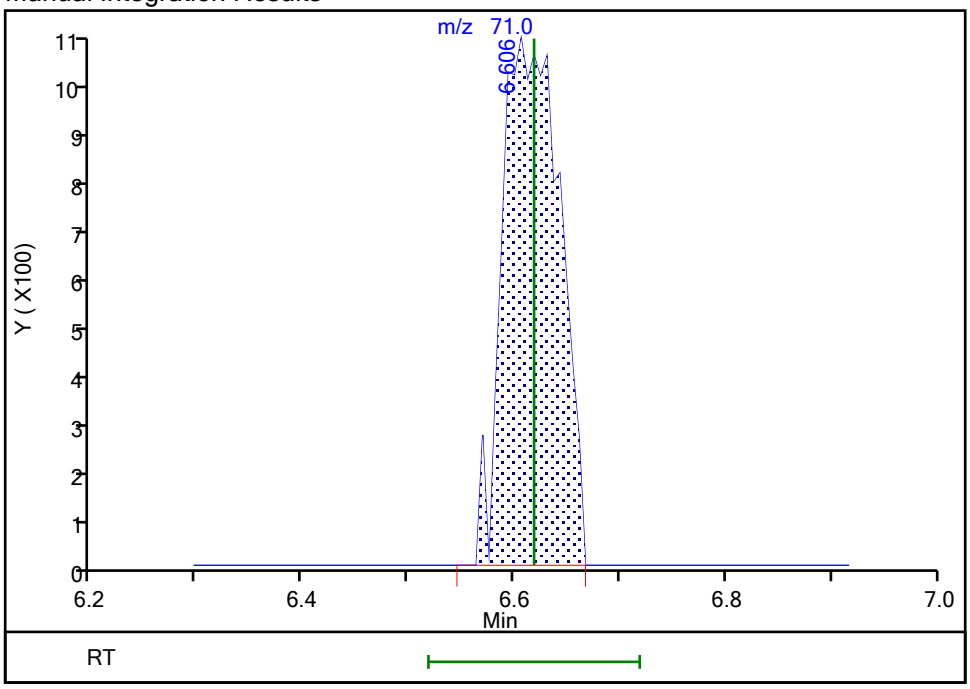
Not Detected
Expected RT: 6.62

Processing Integration Results



RT: 6.61
Area: 4088
Amount: 1.740779
Amount Units: ug/l

Manual Integration Results



Reviewer: campbellme, 03-Feb-2021 20:02:40
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

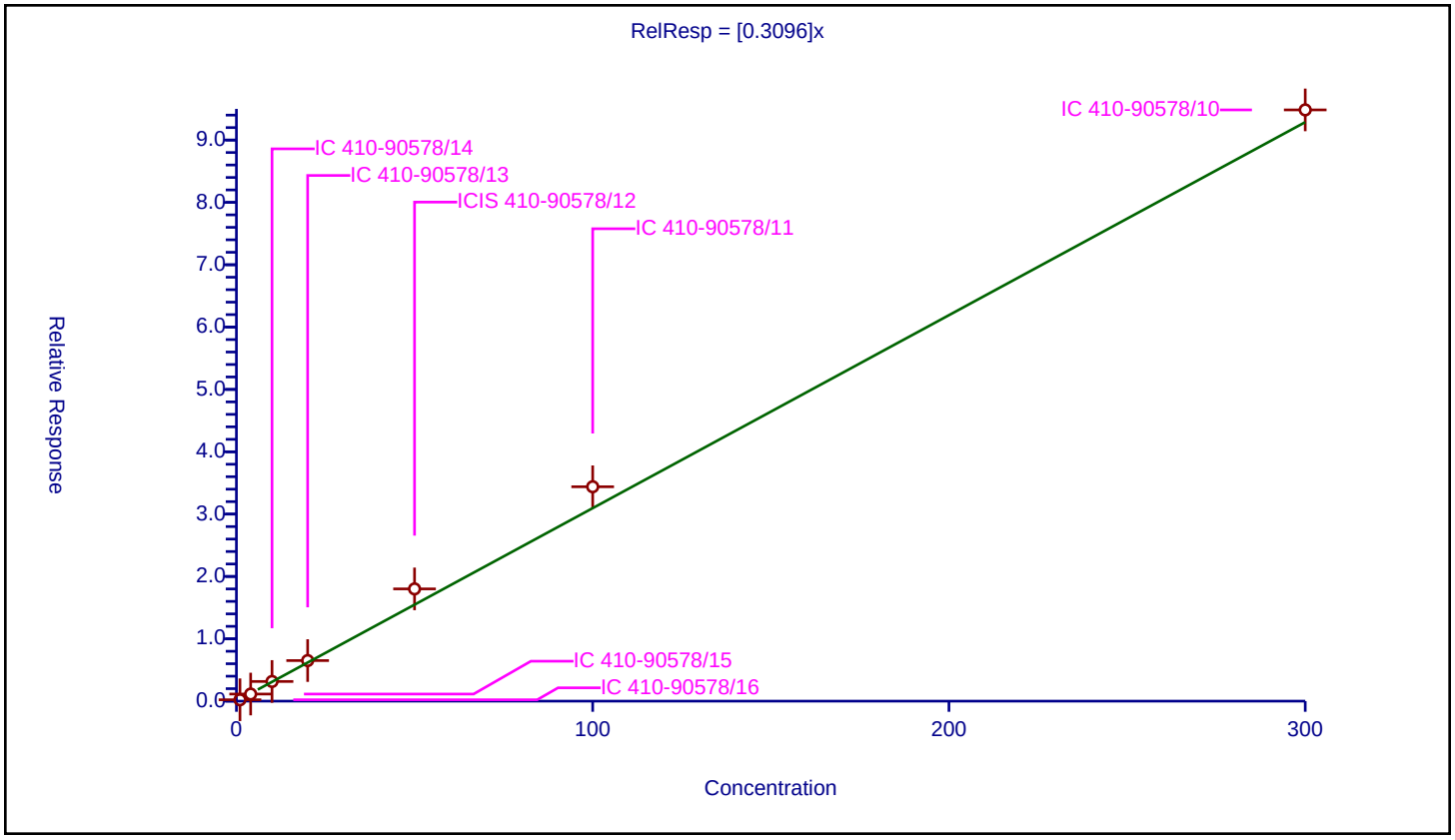
Curve Coefficients

Intercept:	0
Slope:	0.3096

Error Coefficients

Standard Error:	904000
Relative Standard Error:	14.8
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.220665	50.0	1173726.0	0.220665	Y
2	IC 410-90578/15	4.0	1.140194	50.0	1187605.0	0.285048	Y
3	IC 410-90578/14	10.0	3.155687	50.0	1169048.0	0.315569	Y
4	IC 410-90578/13	20.0	6.509719	50.0	1194752.0	0.325486	Y
5	ICIS 410-90578/12	50.0	18.005348	50.0	1201593.0	0.360107	Y
6	IC 410-90578/11	100.0	34.388405	50.0	1159574.0	0.343884	Y
7	IC 410-90578/10	300.0	94.839244	50.0	1060581.0	0.316131	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

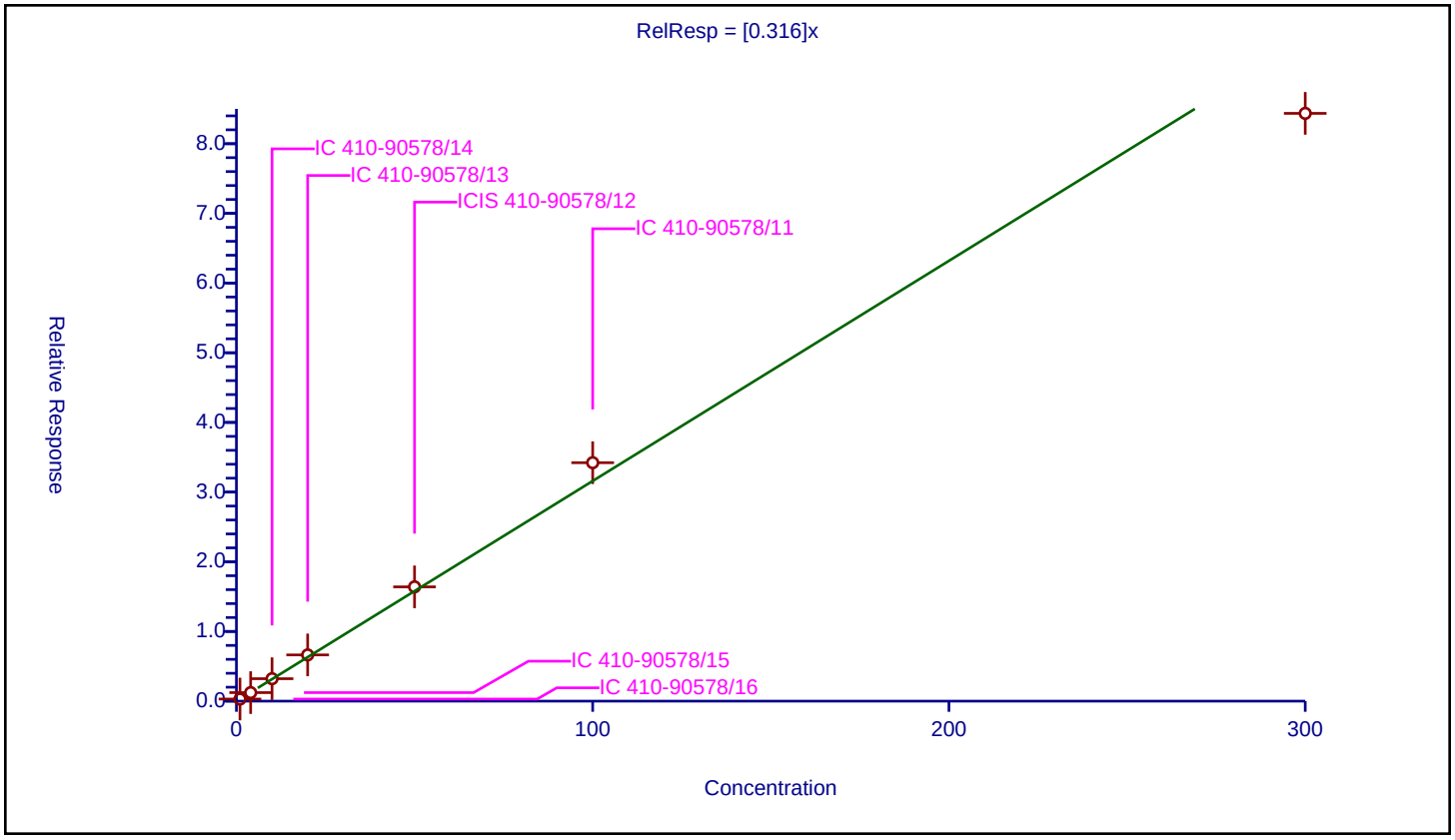
Curve Coefficients

Intercept:	0
Slope:	0.316

Error Coefficients

Standard Error:	818000
Relative Standard Error:	6.7
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.300794	50.0	1173726.0	0.300794	Y
2	IC 410-90578/15	4.0	1.223302	50.0	1187605.0	0.305826	Y
3	IC 410-90578/14	10.0	3.219757	50.0	1169048.0	0.321976	Y
4	IC 410-90578/13	20.0	6.634096	50.0	1194752.0	0.331705	Y
5	ICIS 410-90578/12	50.0	16.401685	50.0	1201593.0	0.328034	Y
6	IC 410-90578/11	100.0	34.220541	50.0	1159574.0	0.342205	Y
7	IC 410-90578/10	300.0	84.359469	50.0	1060581.0	0.281198	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

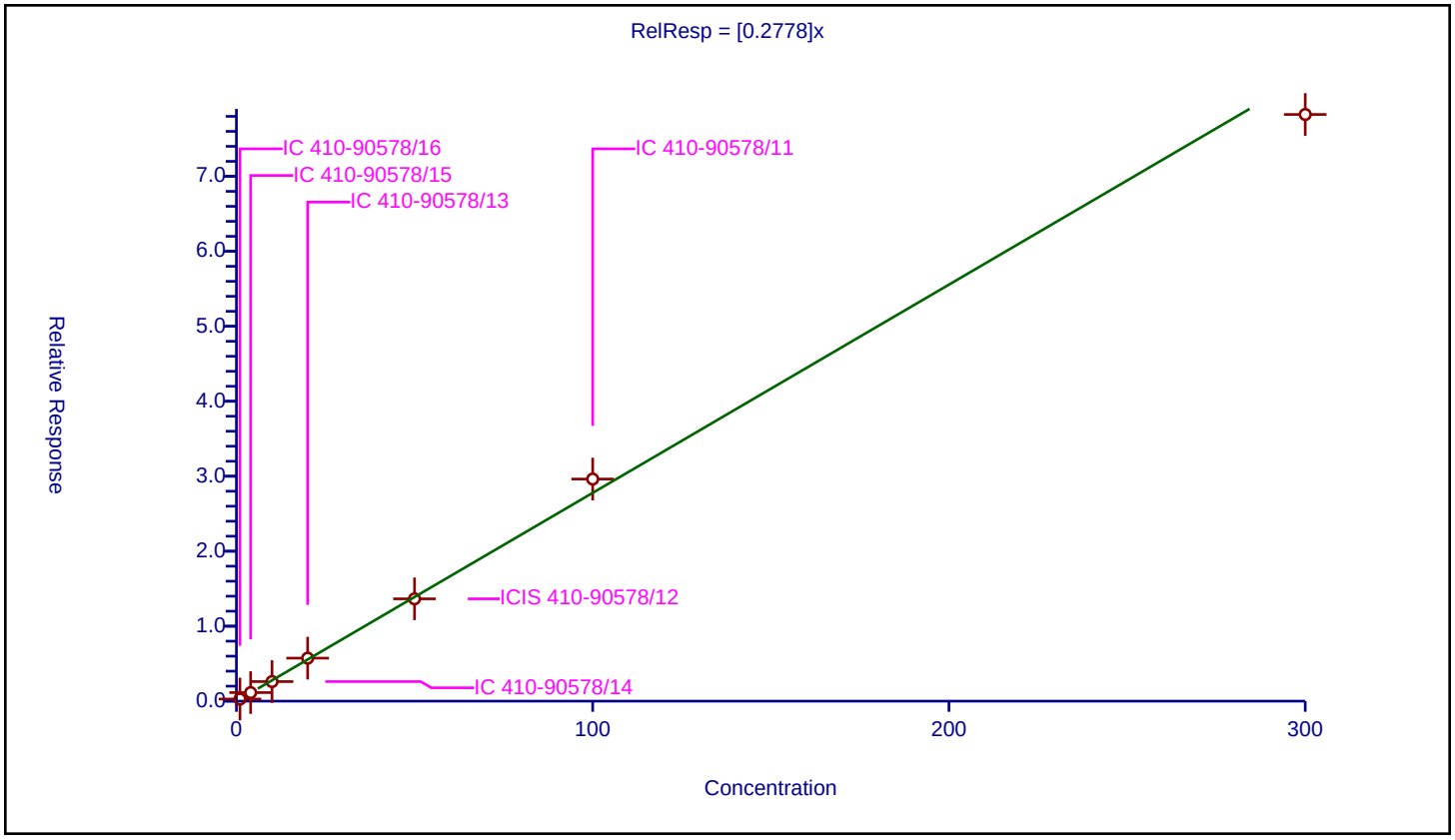
Curve Coefficients

Intercept:	0
Slope:	0.2778

Error Coefficients

Standard Error:	748000
Relative Standard Error:	4.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.281412	50.0	1173726.0	0.281412	Y
2	IC 410-90578/15	4.0	1.141878	50.0	1187605.0	0.285469	Y
3	IC 410-90578/14	10.0	2.60802	50.0	1169048.0	0.260802	Y
4	IC 410-90578/13	20.0	5.735667	50.0	1194752.0	0.286783	Y
5	ICIS 410-90578/12	50.0	13.648548	50.0	1201593.0	0.272971	Y
6	IC 410-90578/11	100.0	29.623034	50.0	1159574.0	0.29623	Y
7	IC 410-90578/10	300.0	78.255173	50.0	1060581.0	0.260851	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

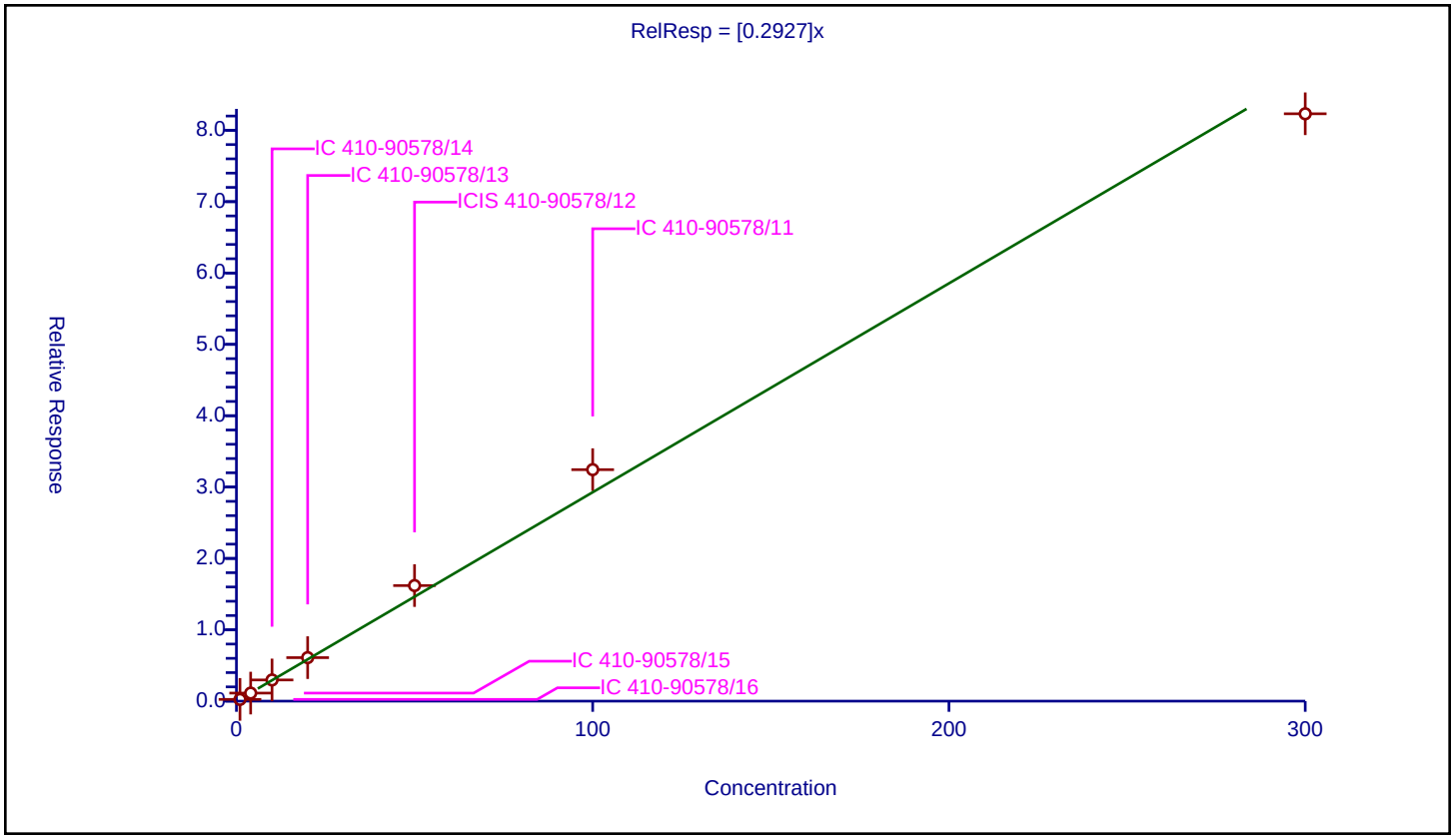
Curve Coefficients

Intercept:	0
Slope:	0.2927

Error Coefficients

Standard Error:	795000
Relative Standard Error:	10.0
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.242603	50.0	1173726.0	0.242603	Y
2	IC 410-90578/15	4.0	1.128027	50.0	1187605.0	0.282007	Y
3	IC 410-90578/14	10.0	2.968398	50.0	1169048.0	0.29684	Y
4	IC 410-90578/13	20.0	6.098086	50.0	1194752.0	0.304904	Y
5	ICIS 410-90578/12	50.0	16.196707	50.0	1201593.0	0.323934	Y
6	IC 410-90578/11	100.0	32.441655	50.0	1159574.0	0.324417	Y
7	IC 410-90578/10	300.0	82.315778	50.0	1060581.0	0.274386	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

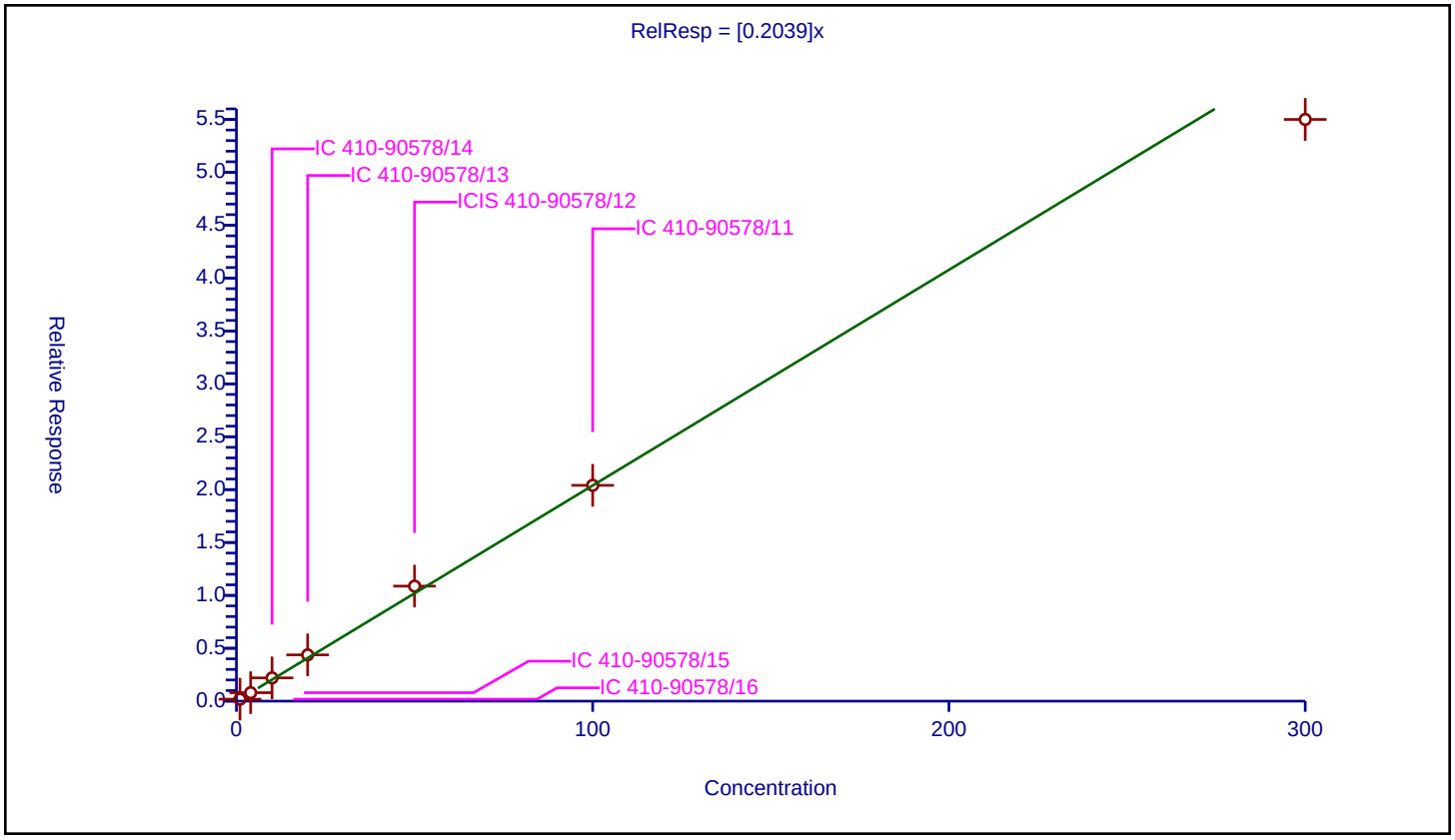
Curve Coefficients

Intercept:	0
Slope:	0.2039

Error Coefficients

Standard Error:	527000
Relative Standard Error:	7.7
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.184328	50.0	1173726.0	0.184328	Y
2	IC 410-90578/15	4.0	0.79955	50.0	1187605.0	0.199888	Y
3	IC 410-90578/14	10.0	2.196189	50.0	1169048.0	0.219619	Y
4	IC 410-90578/13	20.0	4.371911	50.0	1194752.0	0.218596	Y
5	ICIS 410-90578/12	50.0	10.875479	50.0	1201593.0	0.21751	Y
6	IC 410-90578/11	100.0	20.405037	50.0	1159574.0	0.20405	Y
7	IC 410-90578/10	300.0	55.002682	50.0	1060581.0	0.183342	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

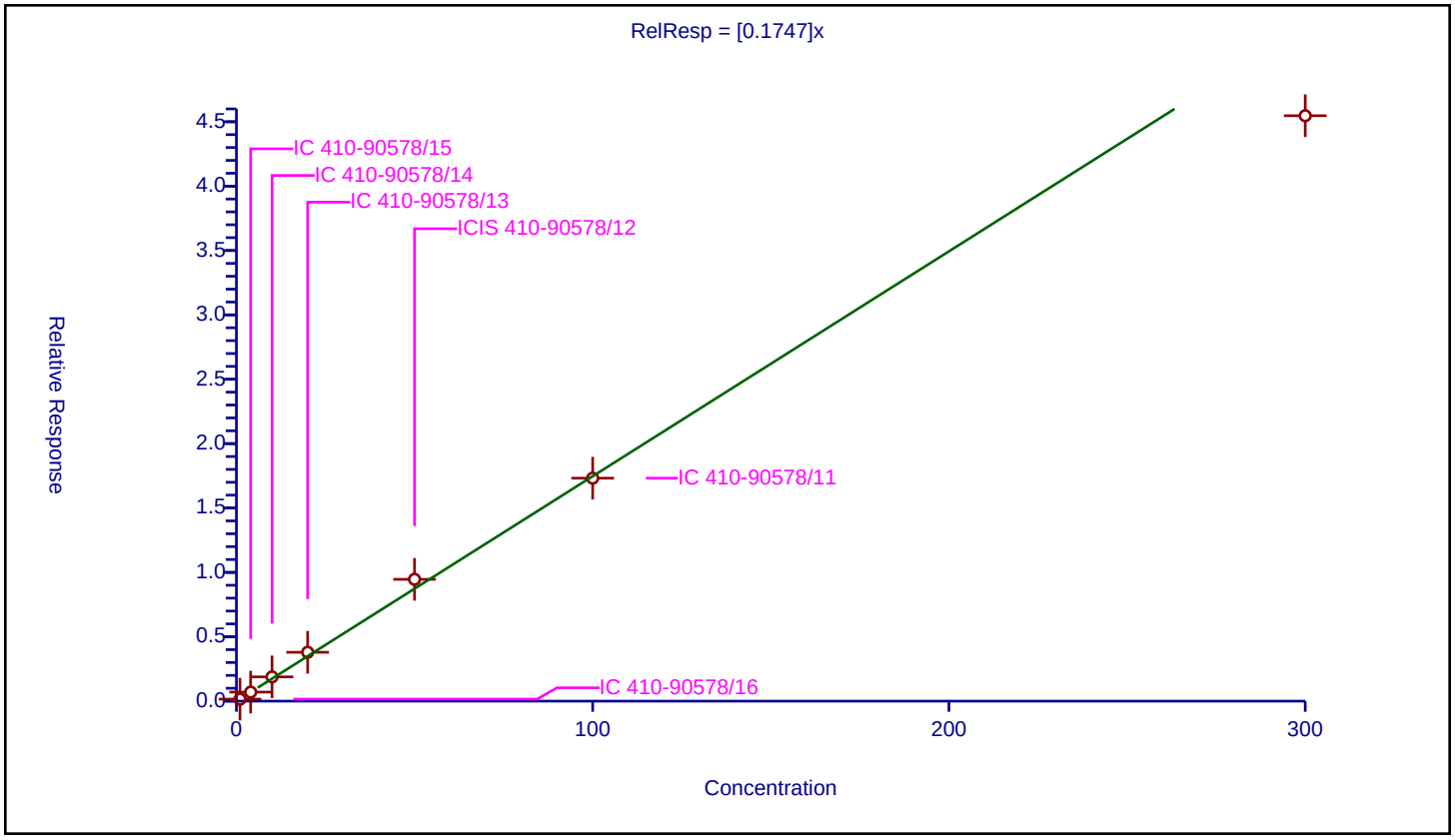
Curve Coefficients

Intercept:	0
Slope:	0.1747

Error Coefficients

Standard Error:	438000
Relative Standard Error:	9.2
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.15536	50.0	1173726.0	0.15536	Y
2	IC 410-90578/15	4.0	0.70137	50.0	1187605.0	0.175342	Y
3	IC 410-90578/14	10.0	1.883327	50.0	1169048.0	0.188333	Y
4	IC 410-90578/13	20.0	3.795055	50.0	1194752.0	0.189753	Y
5	ICIS 410-90578/12	50.0	9.460691	50.0	1201593.0	0.189214	Y
6	IC 410-90578/11	100.0	17.318386	50.0	1159574.0	0.173184	Y
7	IC 410-90578/10	300.0	45.46805	50.0	1060581.0	0.15156	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

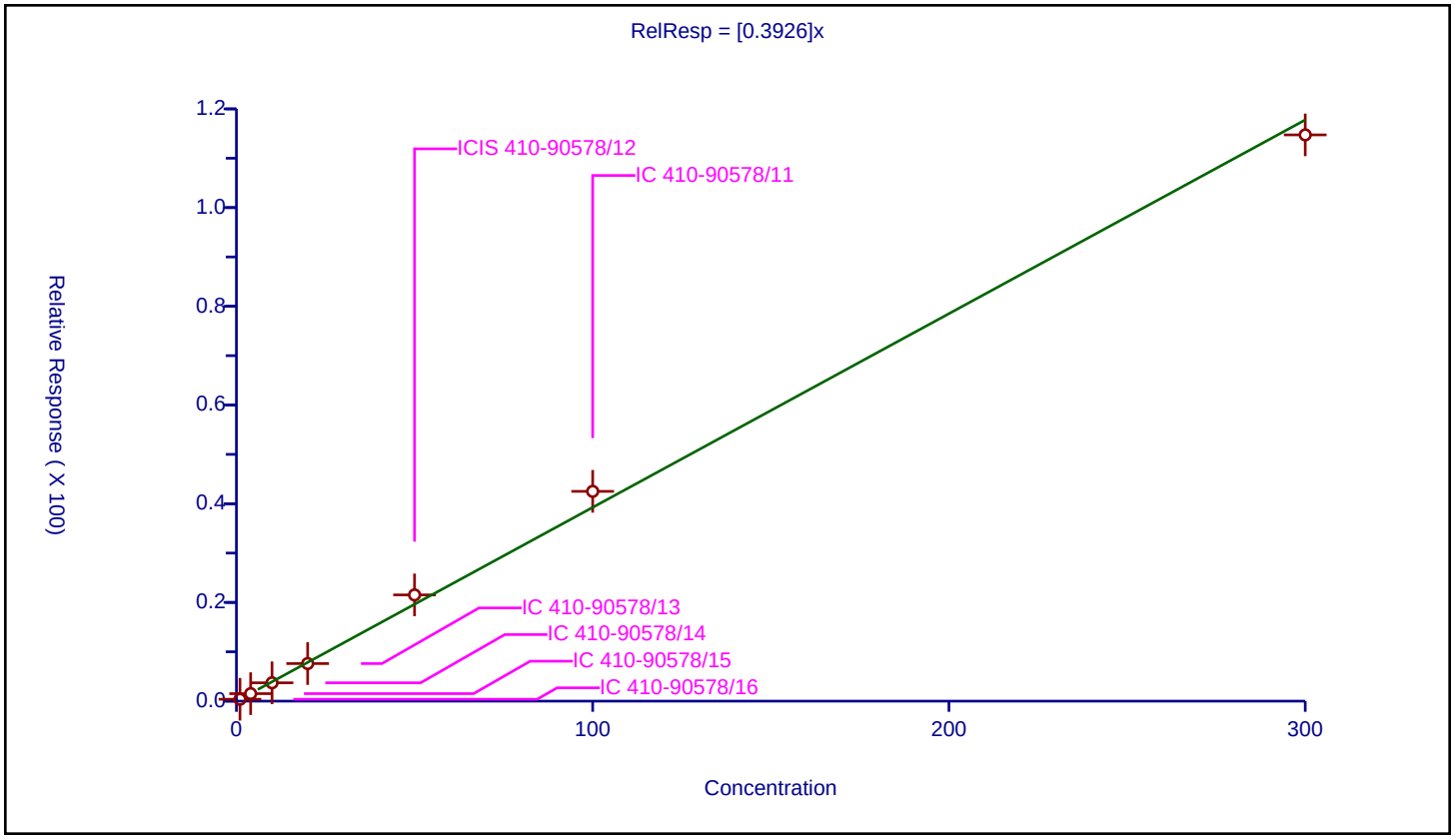
Curve Coefficients

Intercept:	0
Slope:	0.3926

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	6.2
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.378453	50.0	1173726.0	0.378453	Y
2	IC 410-90578/15	4.0	1.517297	50.0	1187605.0	0.379324	Y
3	IC 410-90578/14	10.0	3.714518	50.0	1169048.0	0.371452	Y
4	IC 410-90578/13	20.0	7.612793	50.0	1194752.0	0.38064	Y
5	ICIS 410-90578/12	50.0	21.525383	50.0	1201593.0	0.430508	Y
6	IC 410-90578/11	100.0	42.50686	50.0	1159574.0	0.425069	Y
7	IC 410-90578/10	300.0	114.730464	50.0	1060581.0	0.382435	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

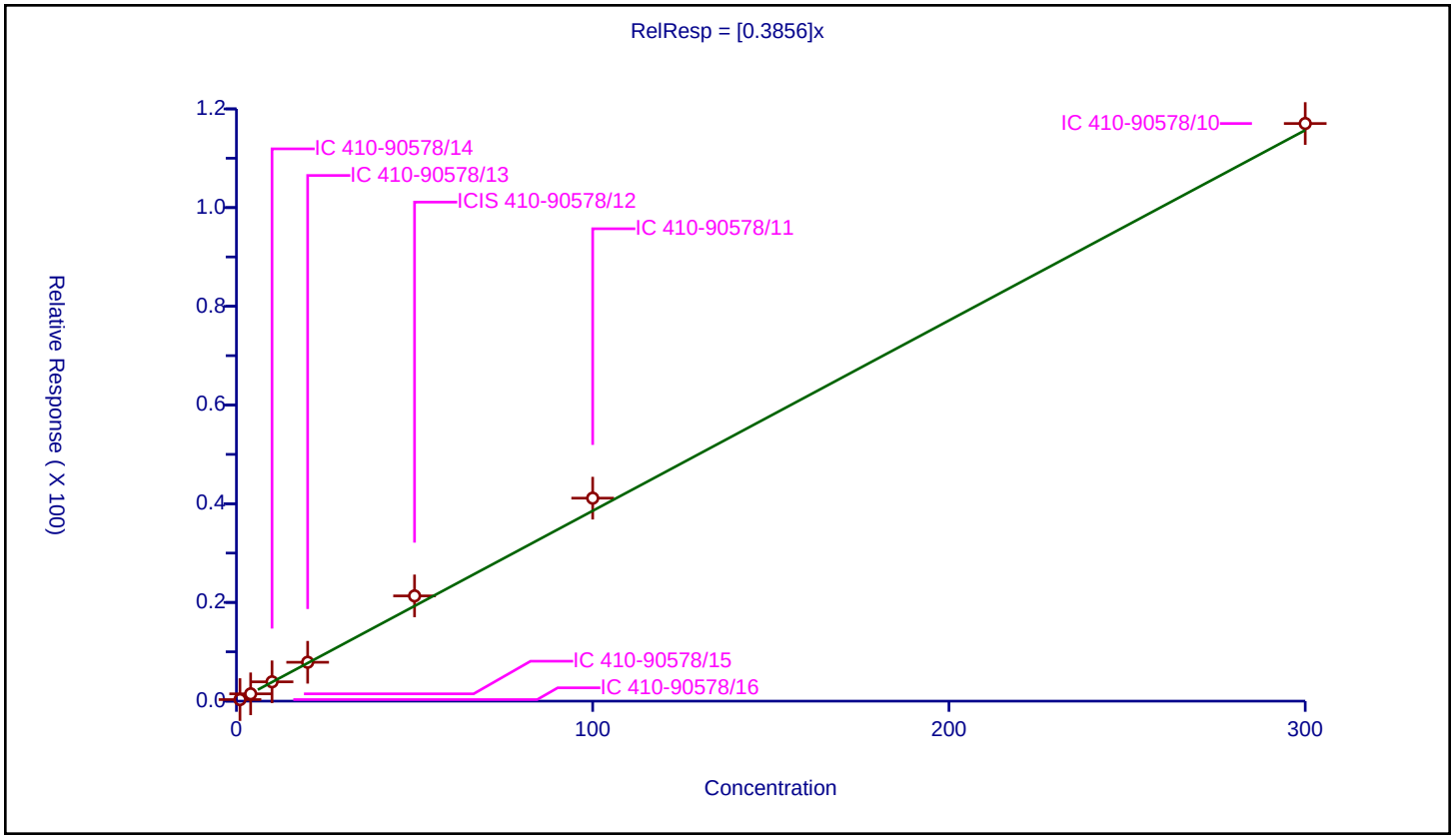
Curve Coefficients

Intercept:	0
Slope:	0.3856

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	9.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.316215	50.0	1173726.0	0.316215	Y
2	IC 410-90578/15	4.0	1.479153	50.0	1187605.0	0.369788	Y
3	IC 410-90578/14	10.0	3.915023	50.0	1169048.0	0.391502	Y
4	IC 410-90578/13	20.0	7.87879	50.0	1194752.0	0.393939	Y
5	ICIS 410-90578/12	50.0	21.323027	50.0	1201593.0	0.426461	Y
6	IC 410-90578/11	100.0	41.127302	50.0	1159574.0	0.411273	Y
7	IC 410-90578/10	300.0	117.035945	50.0	1060581.0	0.39012	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

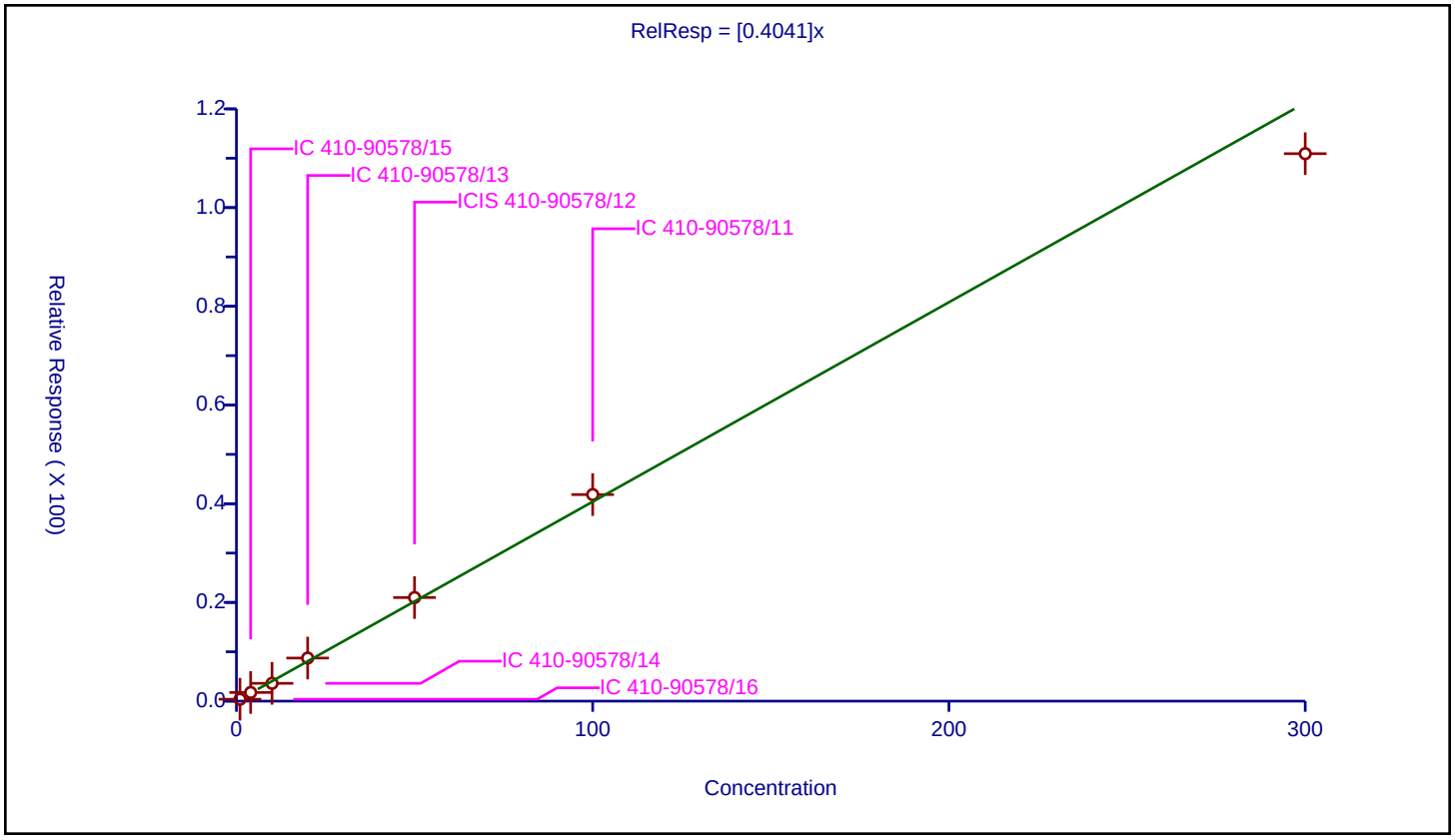
Curve Coefficients

Intercept:	0
Slope:	0.4041

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	8.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.383394	50.0	1173726.0	0.383394	Y
2	IC 410-90578/15	4.0	1.759087	50.0	1187605.0	0.439772	Y
3	IC 410-90578/14	10.0	3.610031	50.0	1169048.0	0.361003	Y
4	IC 410-90578/13	20.0	8.731226	50.0	1194752.0	0.436561	Y
5	ICIS 410-90578/12	50.0	20.98922	50.0	1201593.0	0.419784	Y
6	IC 410-90578/11	100.0	41.854724	50.0	1159574.0	0.418547	Y
7	IC 410-90578/10	300.0	110.928491	50.0	1060581.0	0.369762	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

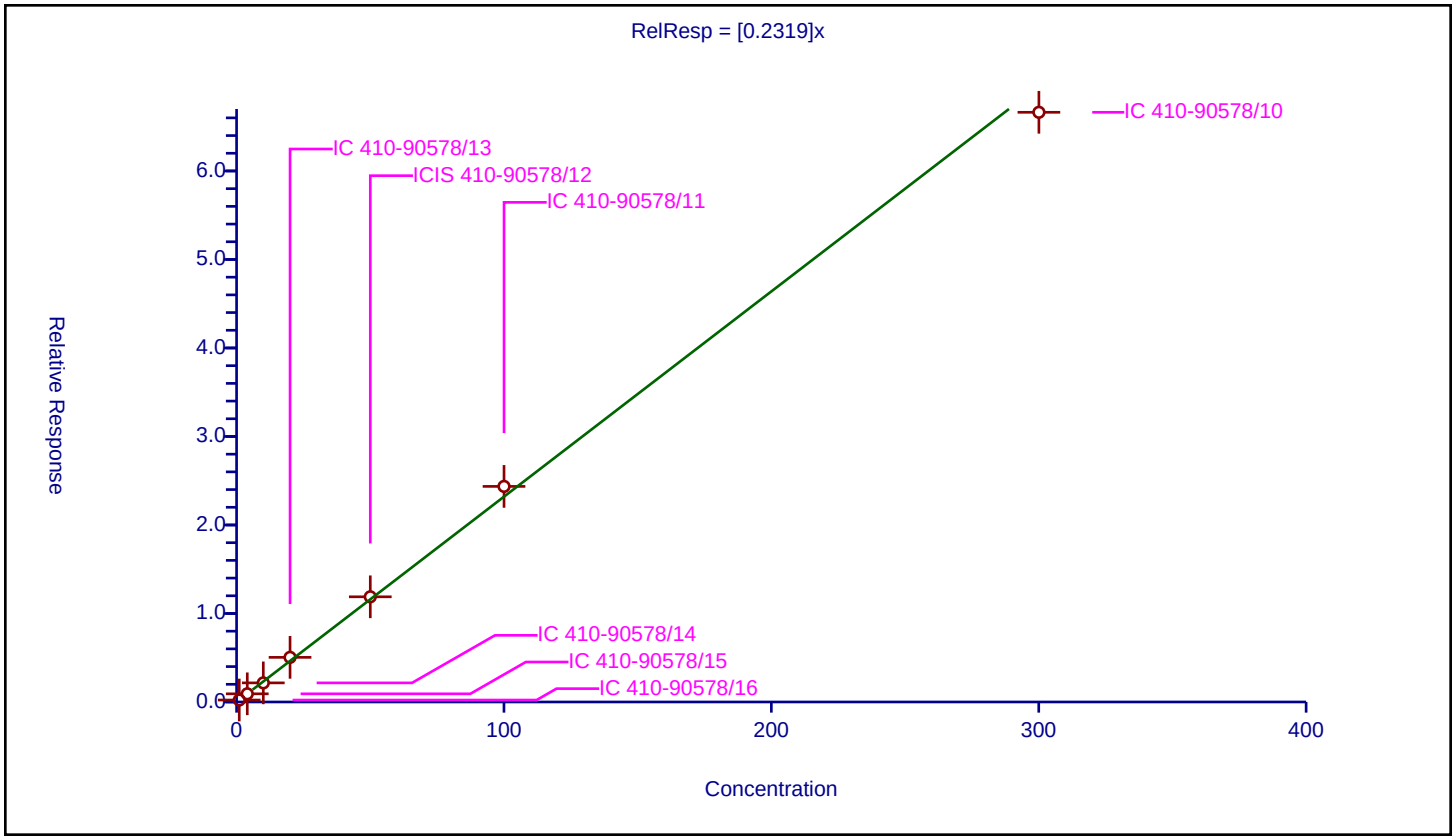
Curve Coefficients

Intercept:	0
Slope:	0.2319

Error Coefficients

Standard Error:	635000
Relative Standard Error:	5.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.000215	0.221559	50.0	1173726.0	0.221512	Y
2	IC 410-90578/15	4.00086	0.924171	50.0	1187605.0	0.230993	Y
3	IC 410-90578/14	10.00215	2.157739	50.0	1169048.0	0.215727	Y
4	IC 410-90578/13	20.0043	5.042762	50.0	1194752.0	0.252084	Y
5	ICIS 410-90578/12	50.01075	11.886221	50.0	1201593.0	0.237673	Y
6	IC 410-90578/11	100.0215	24.359592	50.0	1159574.0	0.243544	Y
7	IC 410-90578/10	300.0645	66.630366	50.0	1060581.0	0.222053	Y



Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

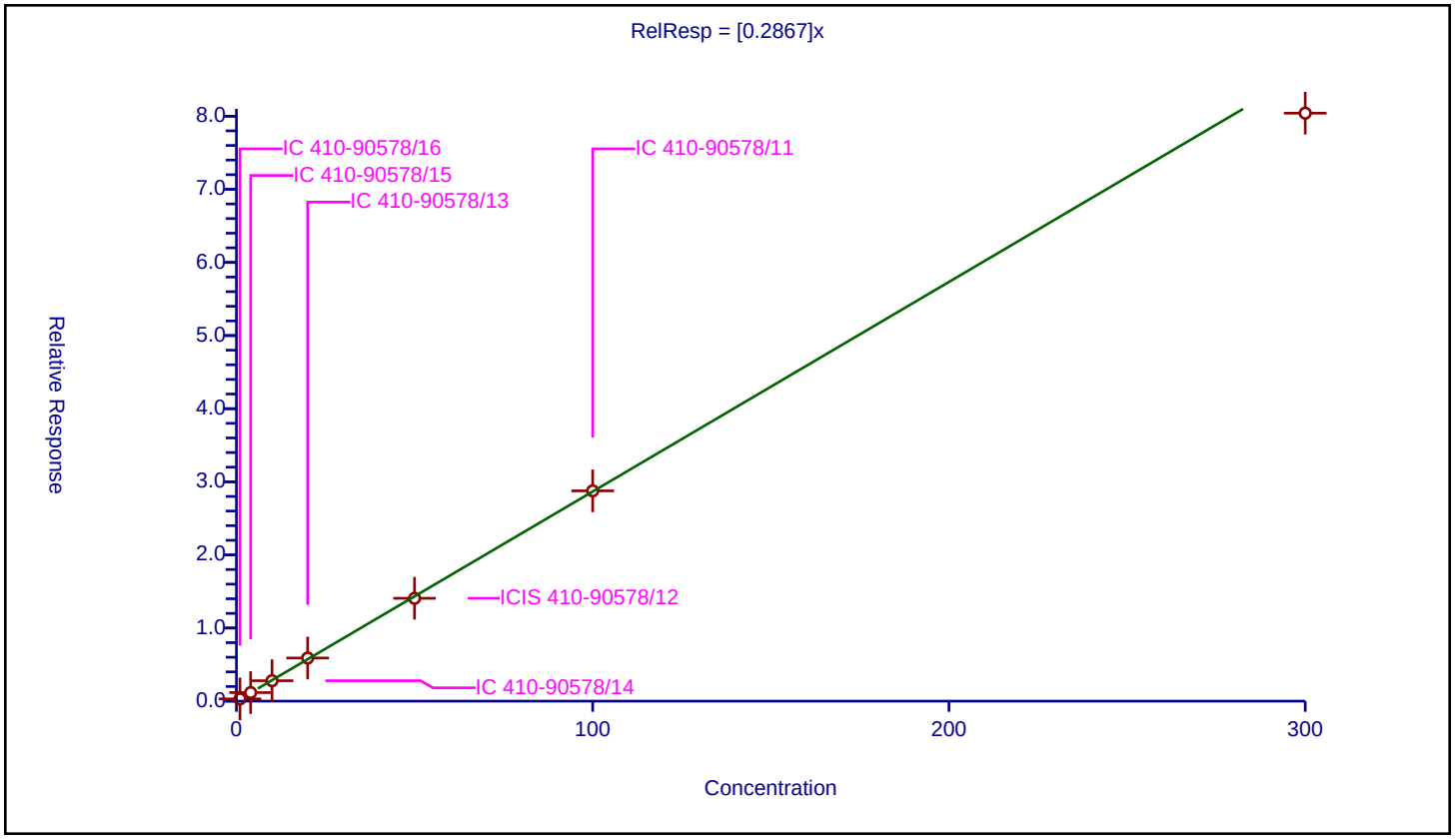
Curve Coefficients

Intercept:	0
Slope:	0.2867

Error Coefficients

Standard Error:	763000
Relative Standard Error:	4.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.302754	50.0	1173726.0	0.302754	Y
2	IC 410-90578/15	4.0	1.171686	50.0	1187605.0	0.292921	Y
3	IC 410-90578/14	10.0	2.79069	50.0	1169048.0	0.279069	Y
4	IC 410-90578/13	20.0	5.896579	50.0	1194752.0	0.294829	Y
5	ICIS 410-90578/12	50.0	14.067242	50.0	1201593.0	0.281345	Y
6	IC 410-90578/11	100.0	28.760735	50.0	1159574.0	0.287607	Y
7	IC 410-90578/10	300.0	80.414367	50.0	1060581.0	0.268048	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

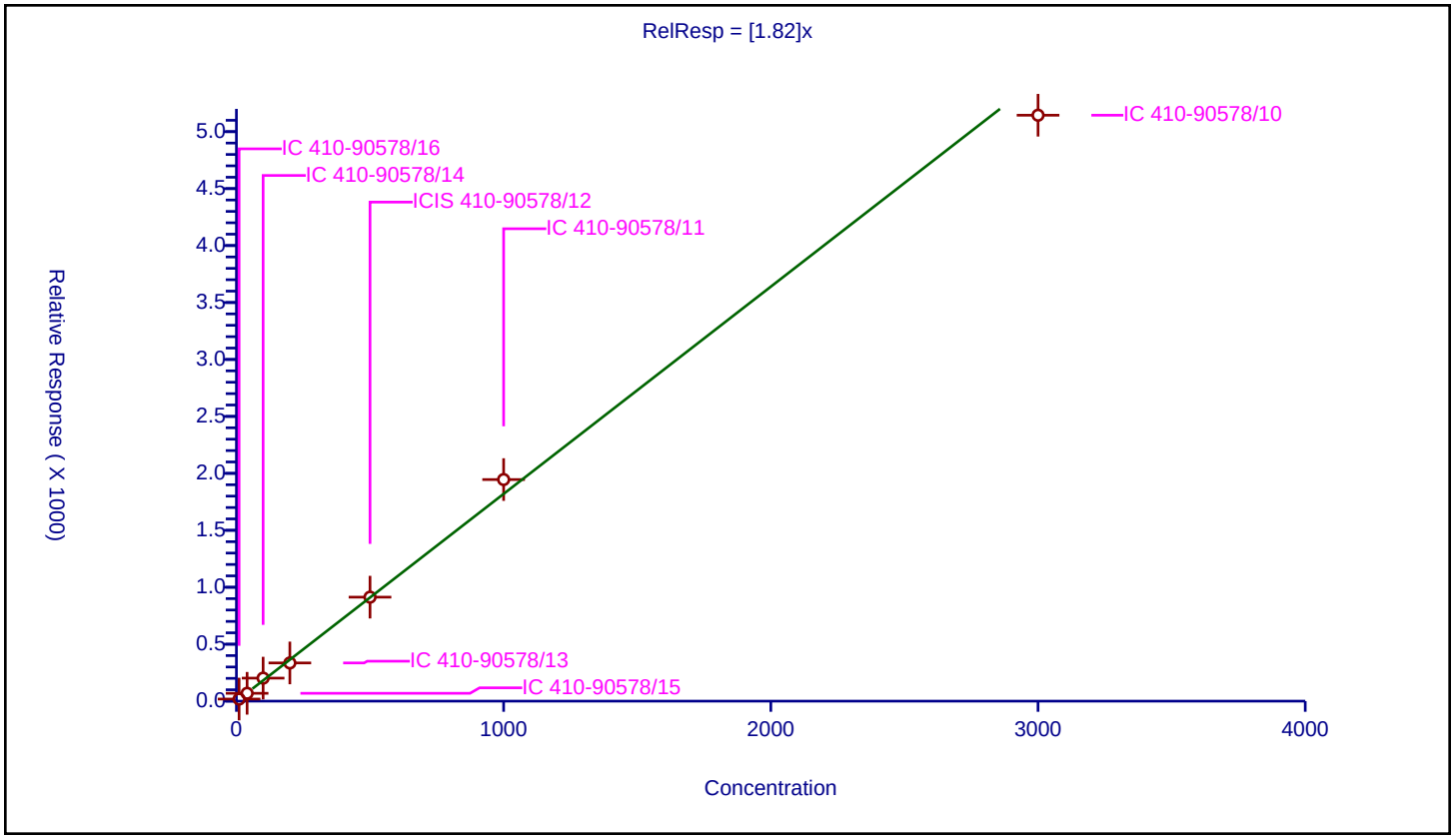
Curve Coefficients

Intercept:	0
Slope:	1.82

Error Coefficients

Standard Error:	3380000
Relative Standard Error:	7.0
Correlation Coefficient:	0.983
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	10.000371	18.332285	250.0	442048.0	1.833161	Y
2	IC 410-90578/15	40.001483	68.818001	250.0	464239.0	1.720386	Y
3	IC 410-90578/14	100.003709	202.053499	250.0	465425.0	2.02046	Y
4	IC 410-90578/13	200.007417	335.420429	250.0	472387.0	1.67704	Y
5	ICIS 410-90578/12	500.018544	912.952285	250.0	464613.0	1.825837	Y
6	IC 410-90578/11	1000.037087	1945.509429	250.0	436626.0	1.945437	Y
7	IC 410-90578/10	3000.111262	5144.396431	250.0	356612.0	1.714735	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

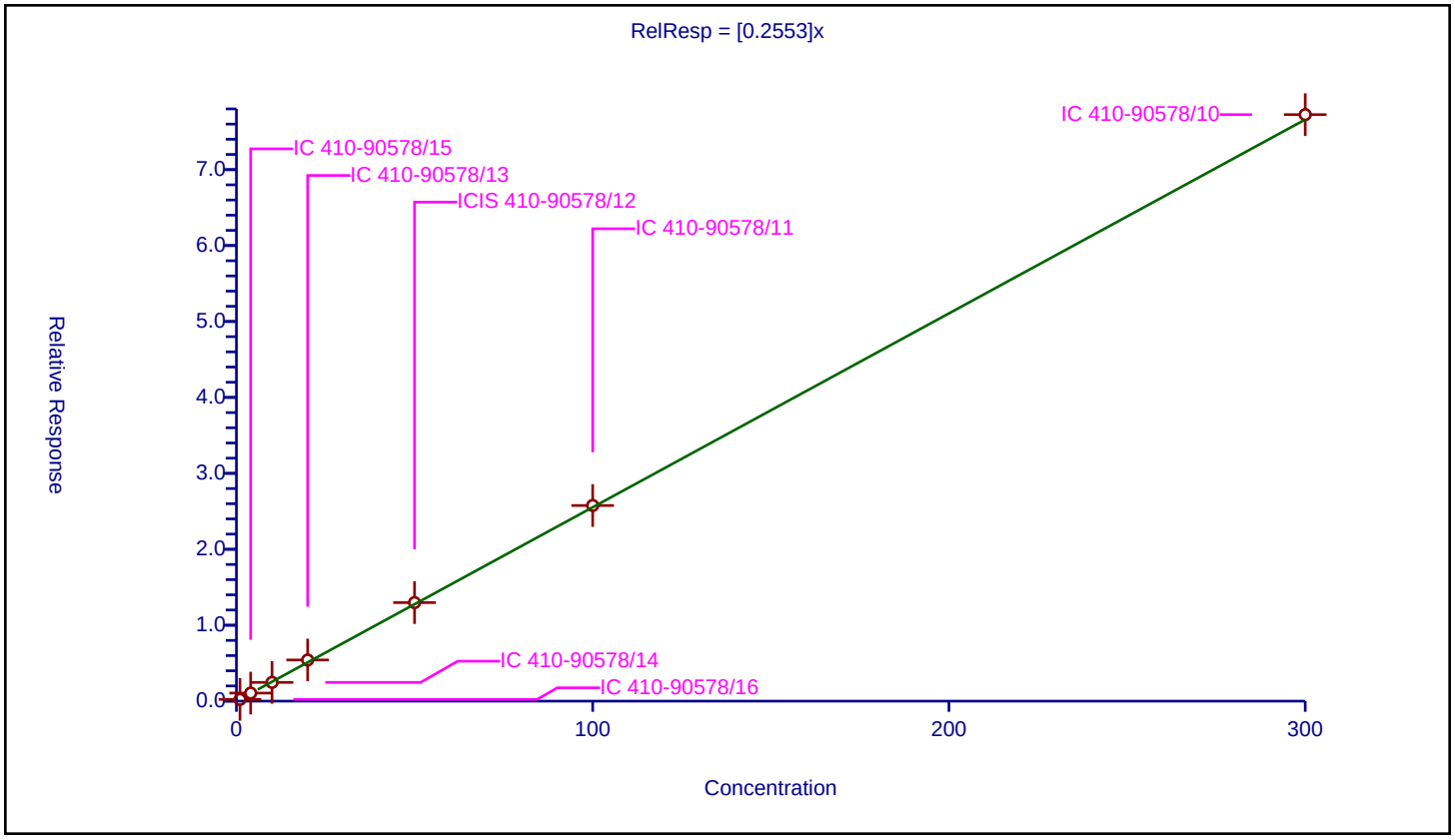
Curve Coefficients

Intercept:	0
Slope:	0.2553

Error Coefficients

Standard Error:	726000
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 410-90578/16	1.0	0.229824	50.0	1173726.0	0.229824	Y
2	IC 410-90578/15	4.0	1.059822	50.0	1187605.0	0.264956	Y
3	IC 410-90578/14	10.0	2.468419	50.0	1169048.0	0.246842	Y
4	IC 410-90578/13	20.0	5.419451	50.0	1194752.0	0.270973	Y
5	ICIS 410-90578/12	50.0	12.976524	50.0	1201593.0	0.25953	Y
6	IC 410-90578/11	100.0	25.765238	50.0	1159574.0	0.257652	Y
7	IC 410-90578/10	300.0	77.247141	50.0	1060581.0	0.25749	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

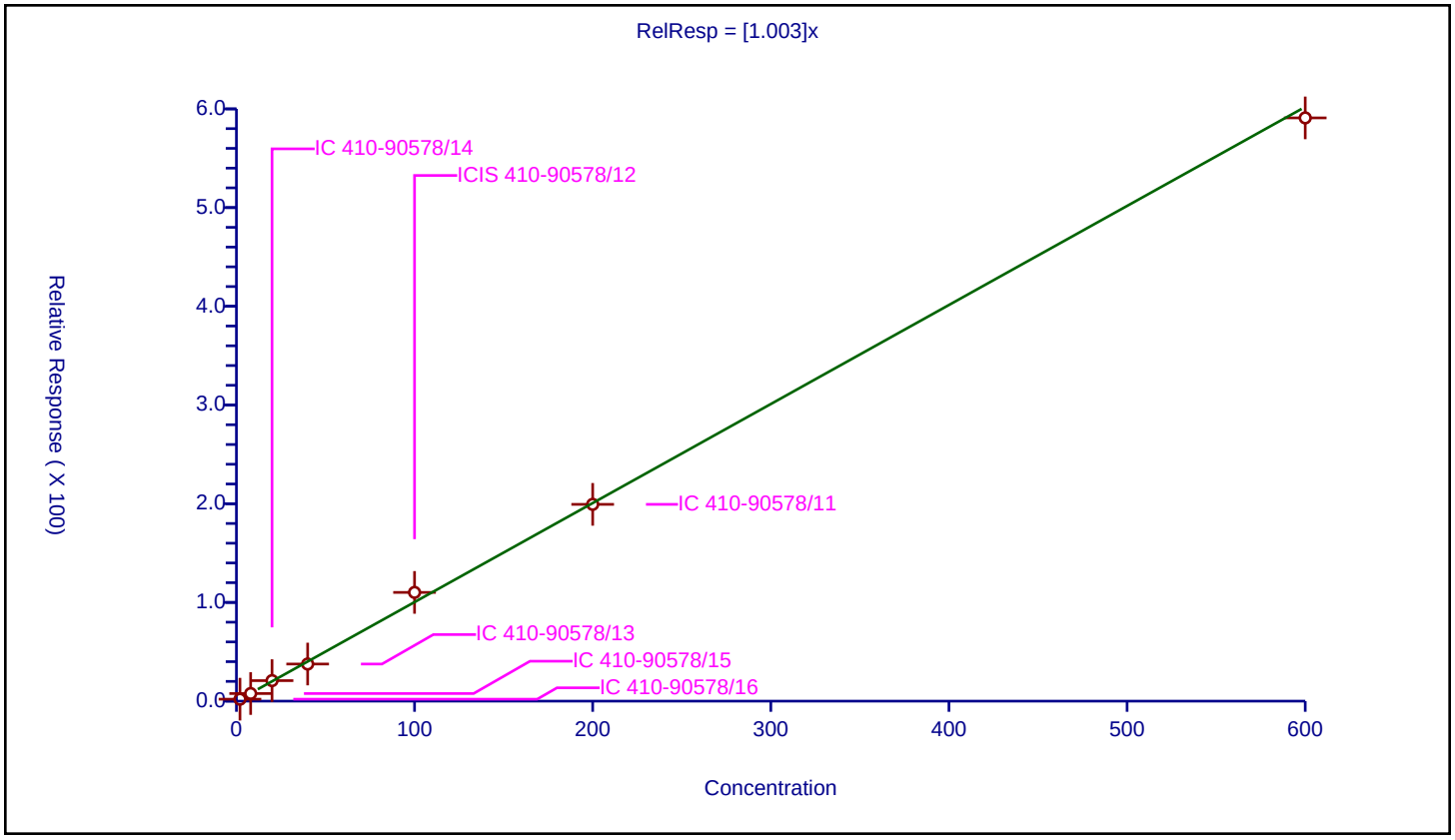
Curve Coefficients

Intercept:	0
Slope:	1.003

Error Coefficients

Standard Error:	383000
Relative Standard Error:	5.3
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	2.0	1.99639	250.0	442048.0	0.998195	Y
2	IC 410-90578/15	8.0	7.70616	250.0	464239.0	0.96327	Y
3	IC 410-90578/14	20.0	20.777784	250.0	465425.0	1.038889	Y
4	IC 410-90578/13	40.0	37.604761	250.0	472387.0	0.940119	Y
5	ICIS 410-90578/12	100.0	110.150814	250.0	464613.0	1.101508	Y
6	IC 410-90578/11	200.0	199.368567	250.0	436626.0	0.996843	Y
7	IC 410-90578/10	600.0	590.866264	250.0	356612.0	0.984777	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

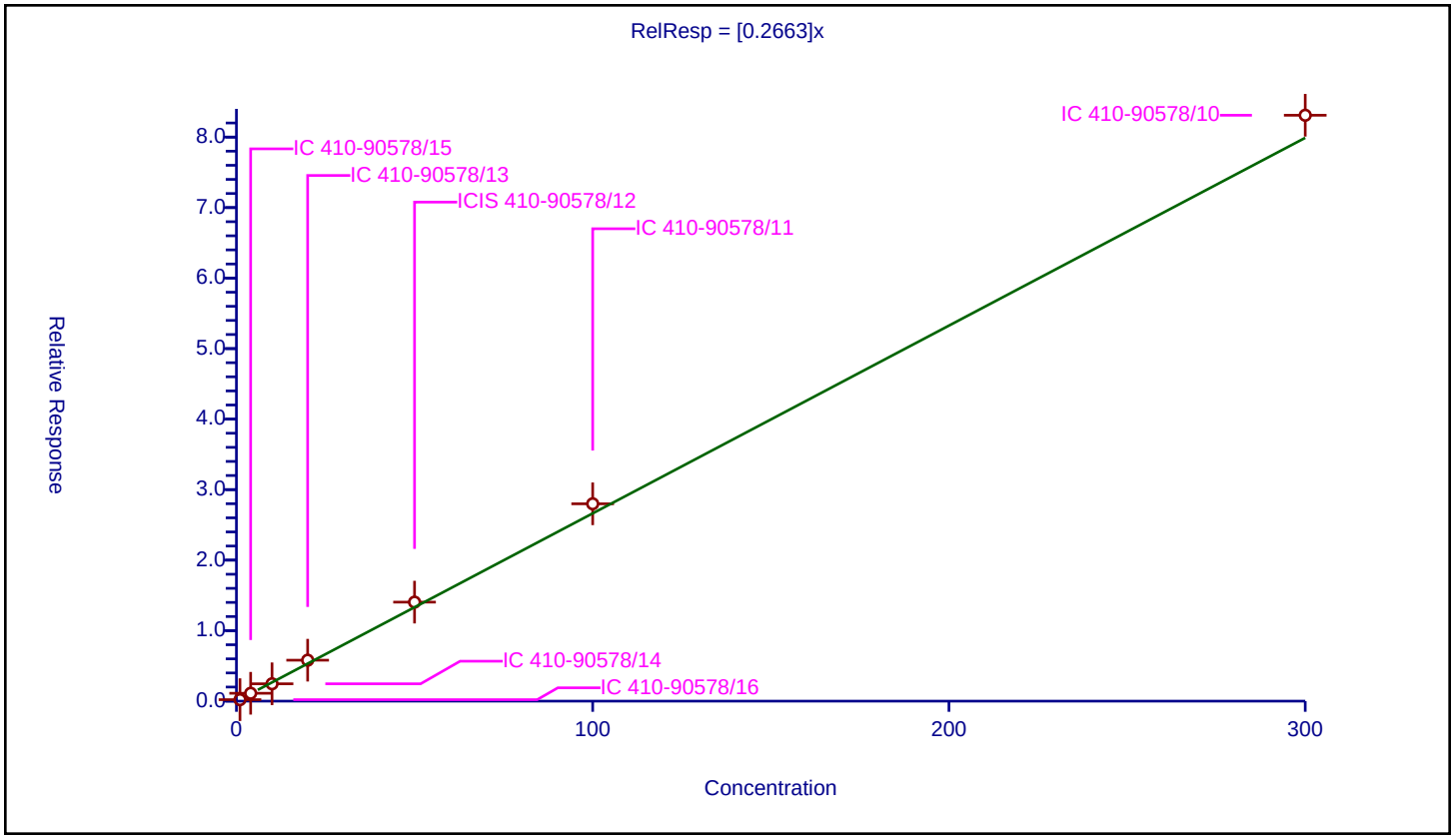
Curve Coefficients

Intercept:	0
Slope:	0.2663

Error Coefficients

Standard Error:	782000
Relative Standard Error:	10.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.21108	50.0	1173726.0	0.21108	Y
2	IC 410-90578/15	4.0	1.116196	50.0	1187605.0	0.279049	Y
3	IC 410-90578/14	10.0	2.45948	50.0	1169048.0	0.245948	Y
4	IC 410-90578/13	20.0	5.806937	50.0	1194752.0	0.290347	Y
5	ICIS 410-90578/12	50.0	14.044939	50.0	1201593.0	0.280899	Y
6	IC 410-90578/11	100.0	27.990365	50.0	1159574.0	0.279904	Y
7	IC 410-90578/10	300.0	83.096765	50.0	1060581.0	0.276989	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

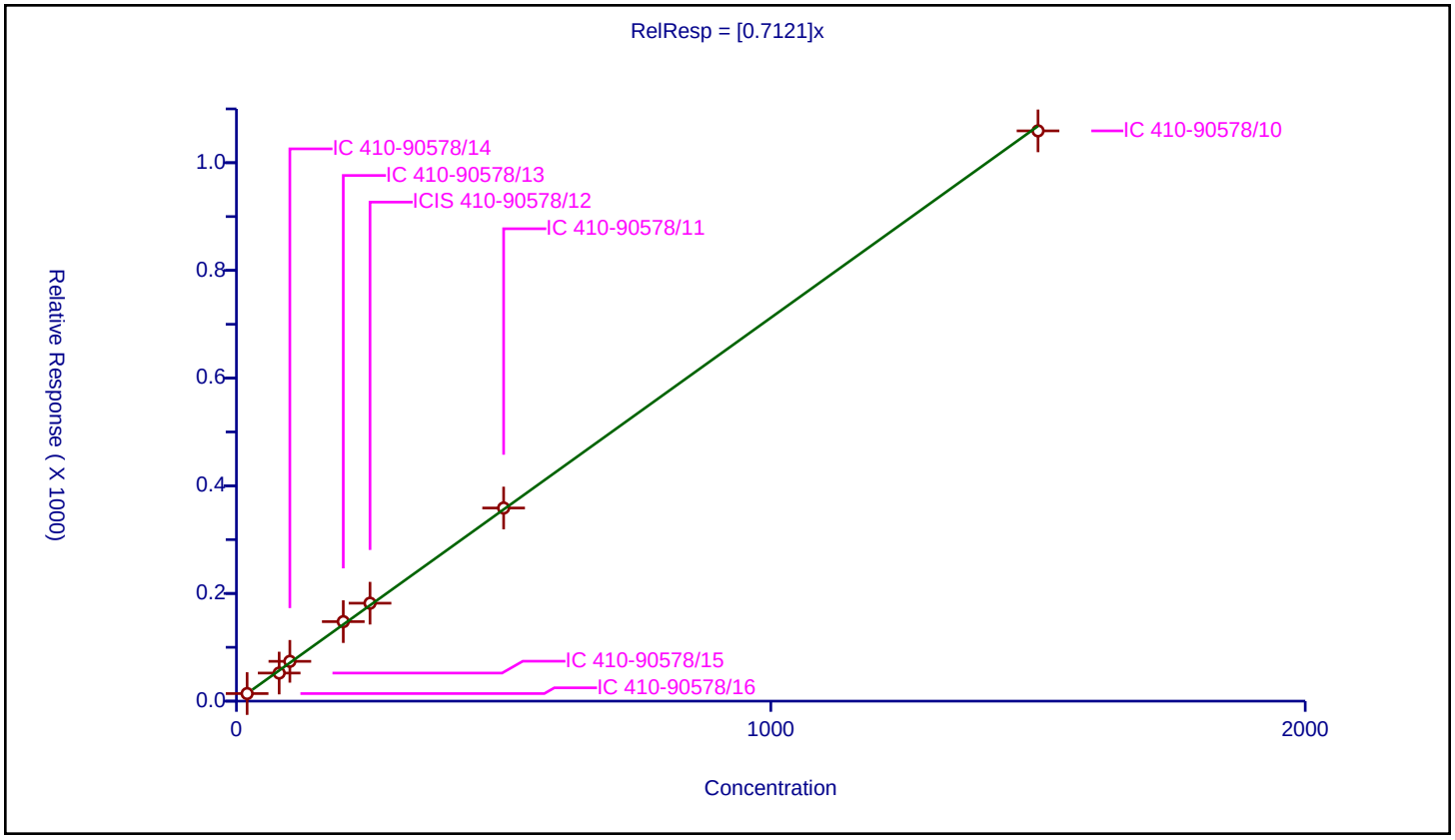
Curve Coefficients

Intercept:	0
Slope:	0.7121

Error Coefficients

Standard Error:	694000
Relative Standard Error:	4.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	20.0	14.062387	250.0	442048.0	0.703119	Y
2	IC 410-90578/15	80.0	52.17248	250.0	464239.0	0.652156	Y
3	IC 410-90578/14	100.0	73.945856	250.0	465425.0	0.739459	Y
4	IC 410-90578/13	200.0	147.672883	250.0	472387.0	0.738364	Y
5	ICIS 410-90578/12	250.0	181.931522	250.0	464613.0	0.727726	Y
6	IC 410-90578/11	500.0	358.697718	250.0	436626.0	0.717395	Y
7	IC 410-90578/10	1500.0	1059.212814	250.0	356612.0	0.706142	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

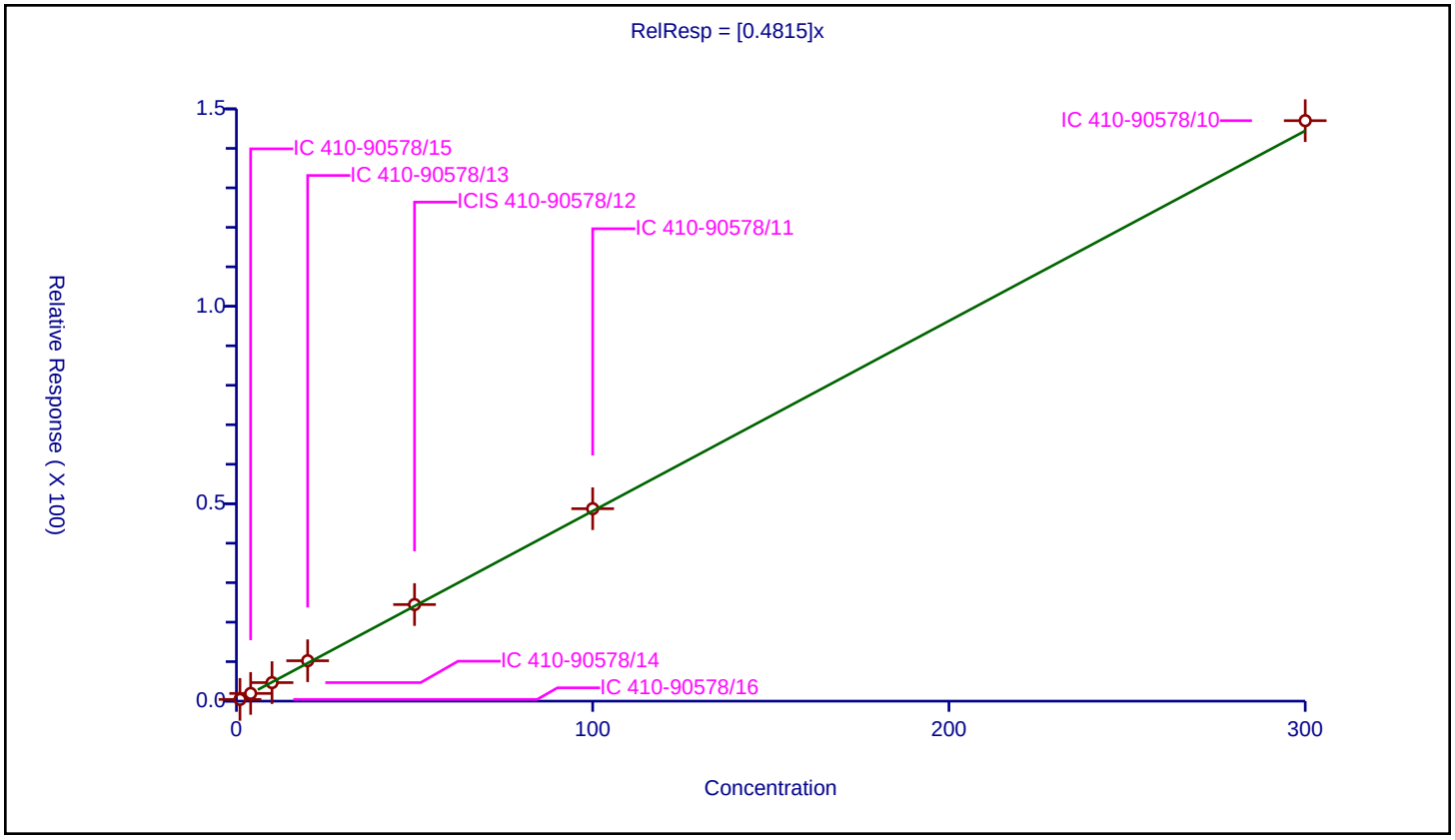
Curve Coefficients

Intercept:	0
Slope:	0.4815

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.434769	50.0	1173726.0	0.434769	Y
2	IC 410-90578/15	4.0	1.954185	50.0	1187605.0	0.488546	Y
3	IC 410-90578/14	10.0	4.688858	50.0	1169048.0	0.468886	Y
4	IC 410-90578/13	20.0	10.231454	50.0	1194752.0	0.511573	Y
5	ICIS 410-90578/12	50.0	24.460071	50.0	1201593.0	0.489201	Y
6	IC 410-90578/11	100.0	48.742857	50.0	1159574.0	0.487429	Y
7	IC 410-90578/10	300.0	147.020784	50.0	1060581.0	0.490069	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

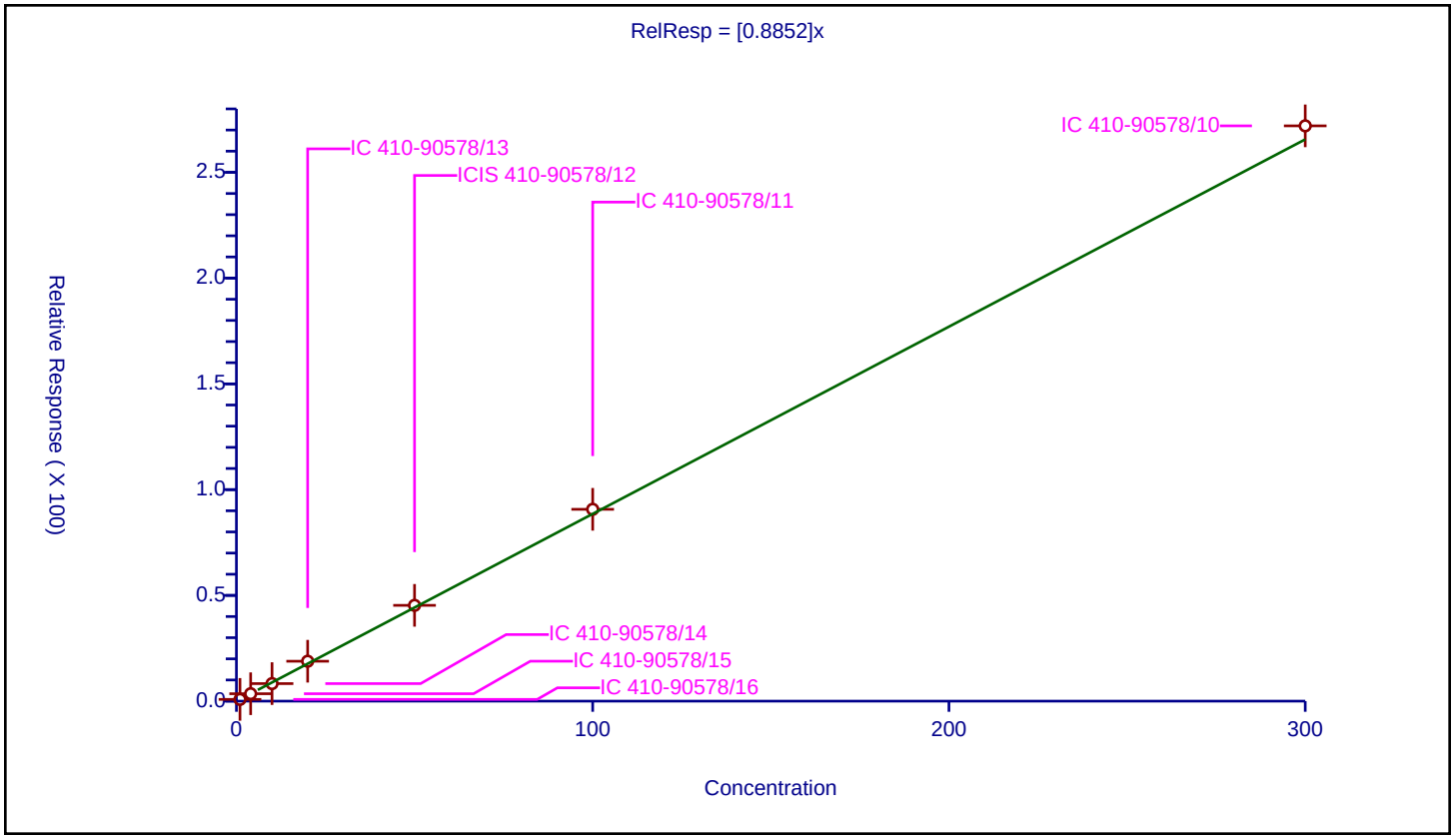
Curve Coefficients

Intercept:	0
Slope:	0.8852

Error Coefficients

Standard Error:	2550000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.826045	50.0	1173726.0	0.826045	Y
2	IC 410-90578/15	4.0	3.5127	50.0	1187605.0	0.878175	Y
3	IC 410-90578/14	10.0	8.295511	50.0	1169048.0	0.829551	Y
4	IC 410-90578/13	20.0	18.872368	50.0	1194752.0	0.943618	Y
5	ICIS 410-90578/12	50.0	45.286382	50.0	1201593.0	0.905728	Y
6	IC 410-90578/11	100.0	90.698394	50.0	1159574.0	0.906984	Y
7	IC 410-90578/10	300.0	271.984648	50.0	1060581.0	0.906615	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

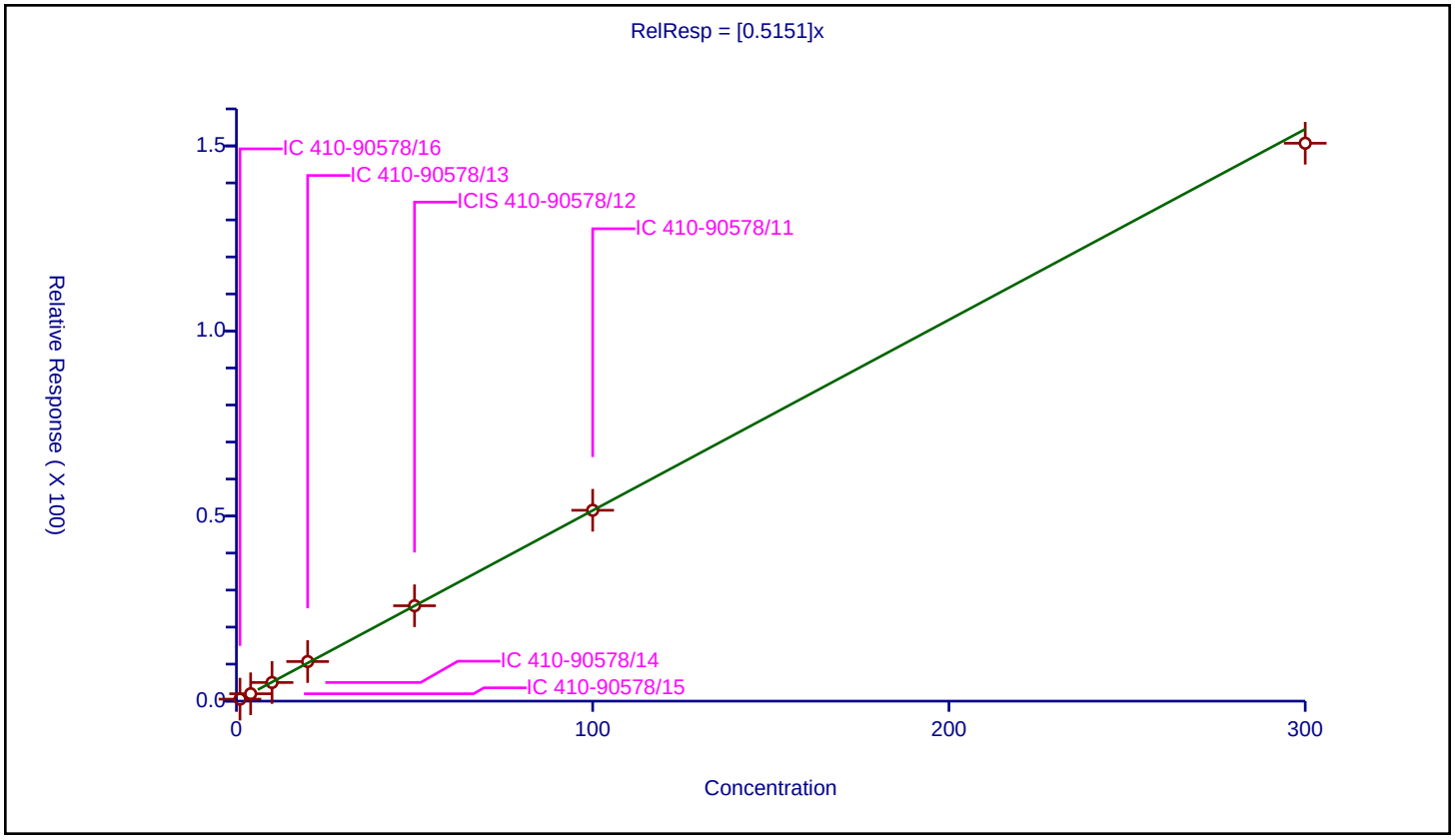
Curve Coefficients

Intercept:	0
Slope:	0.5151

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	2.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.53492	50.0	1173726.0	0.53492	Y
2	IC 410-90578/15	4.0	1.995781	50.0	1187605.0	0.498945	Y
3	IC 410-90578/14	10.0	5.033797	50.0	1169048.0	0.50338	Y
4	IC 410-90578/13	20.0	10.696864	50.0	1194752.0	0.534843	Y
5	ICIS 410-90578/12	50.0	25.768293	50.0	1201593.0	0.515366	Y
6	IC 410-90578/11	100.0	51.566265	50.0	1159574.0	0.515663	Y
7	IC 410-90578/10	300.0	150.72597	50.0	1060581.0	0.50242	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

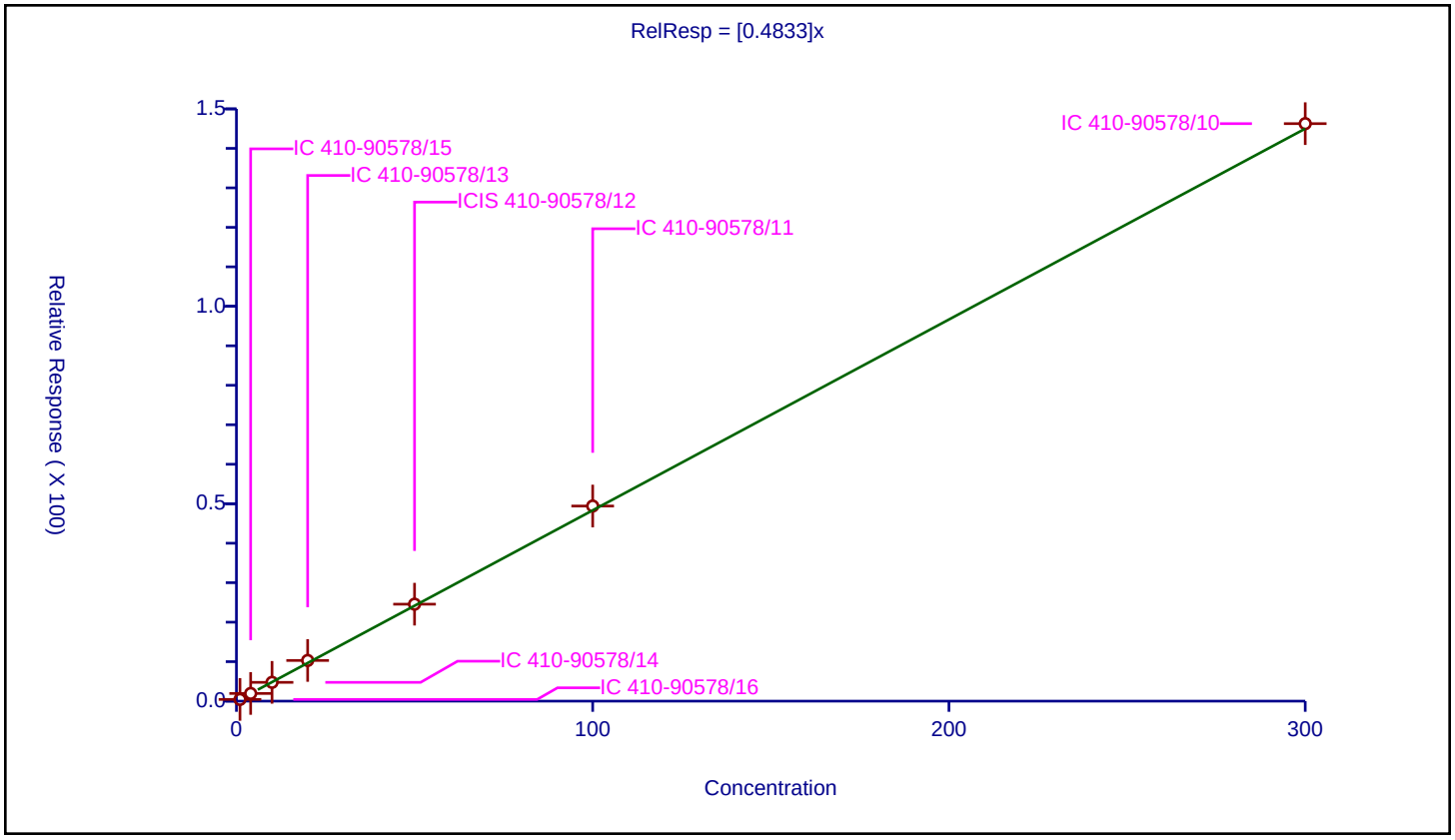
Curve Coefficients

Intercept:	0
Slope:	0.4833

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	5.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.431915	50.0	1173726.0	0.431915	Y
2	IC 410-90578/15	4.0	1.947449	50.0	1187605.0	0.486862	Y
3	IC 410-90578/14	10.0	4.760669	50.0	1169048.0	0.476067	Y
4	IC 410-90578/13	20.0	10.305235	50.0	1194752.0	0.515262	Y
5	ICIS 410-90578/12	50.0	24.55998	50.0	1201593.0	0.4912	Y
6	IC 410-90578/11	100.0	49.416165	50.0	1159574.0	0.494162	Y
7	IC 410-90578/10	300.0	146.261766	50.0	1060581.0	0.487539	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

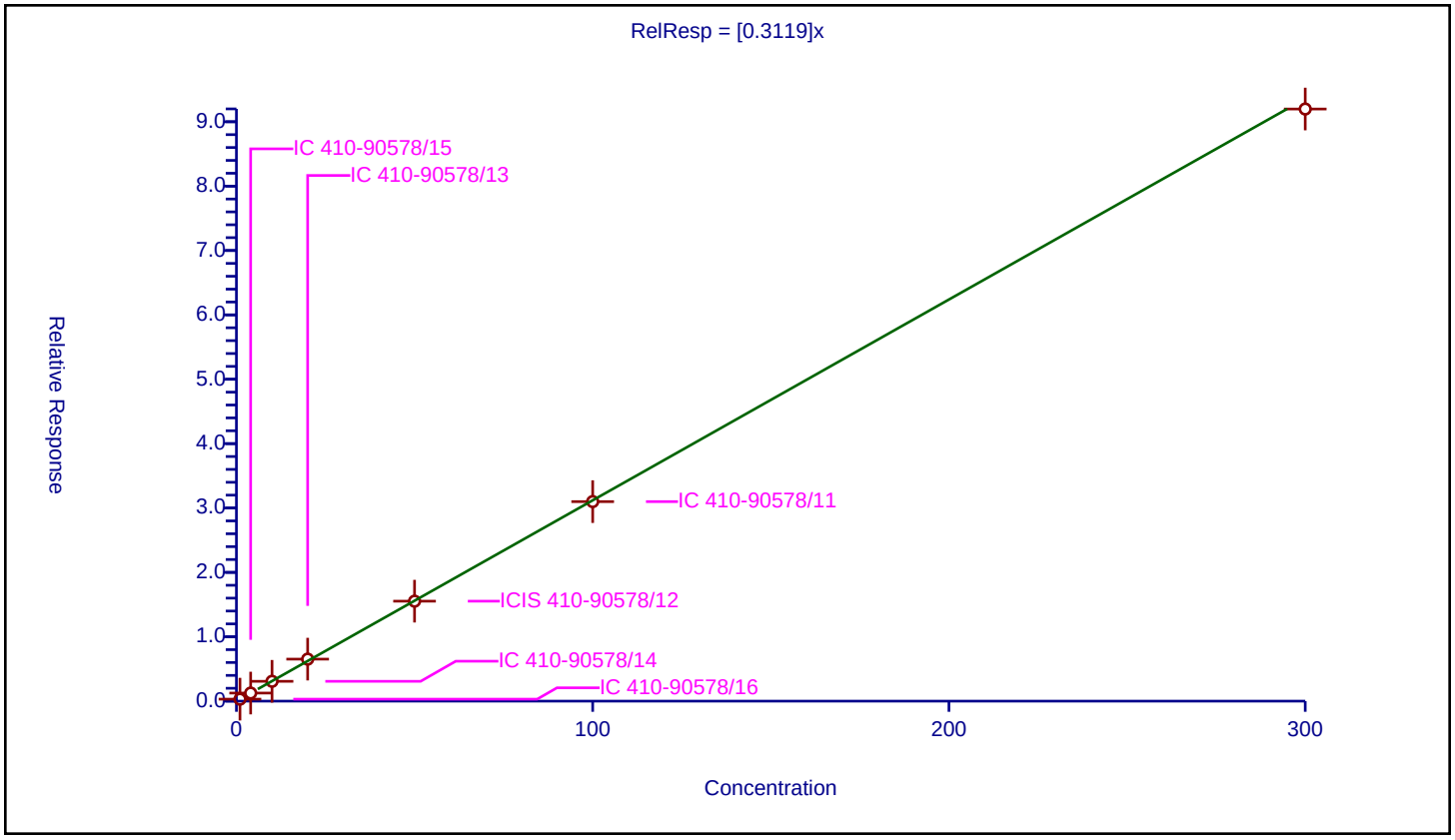
Curve Coefficients

Intercept:	0
Slope:	0.3119

Error Coefficients

Standard Error:	865000
Relative Standard Error:	2.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.30842	50.0	1173726.0	0.30842	Y
2	IC 410-90578/15	4.0	1.254331	50.0	1187605.0	0.313583	Y
3	IC 410-90578/14	10.0	3.081268	50.0	1169048.0	0.308127	Y
4	IC 410-90578/13	20.0	6.525413	50.0	1194752.0	0.326271	Y
5	ICIS 410-90578/12	50.0	15.528553	50.0	1201593.0	0.310571	Y
6	IC 410-90578/11	100.0	30.995262	50.0	1159574.0	0.309953	Y
7	IC 410-90578/10	300.0	91.978878	50.0	1060581.0	0.306596	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

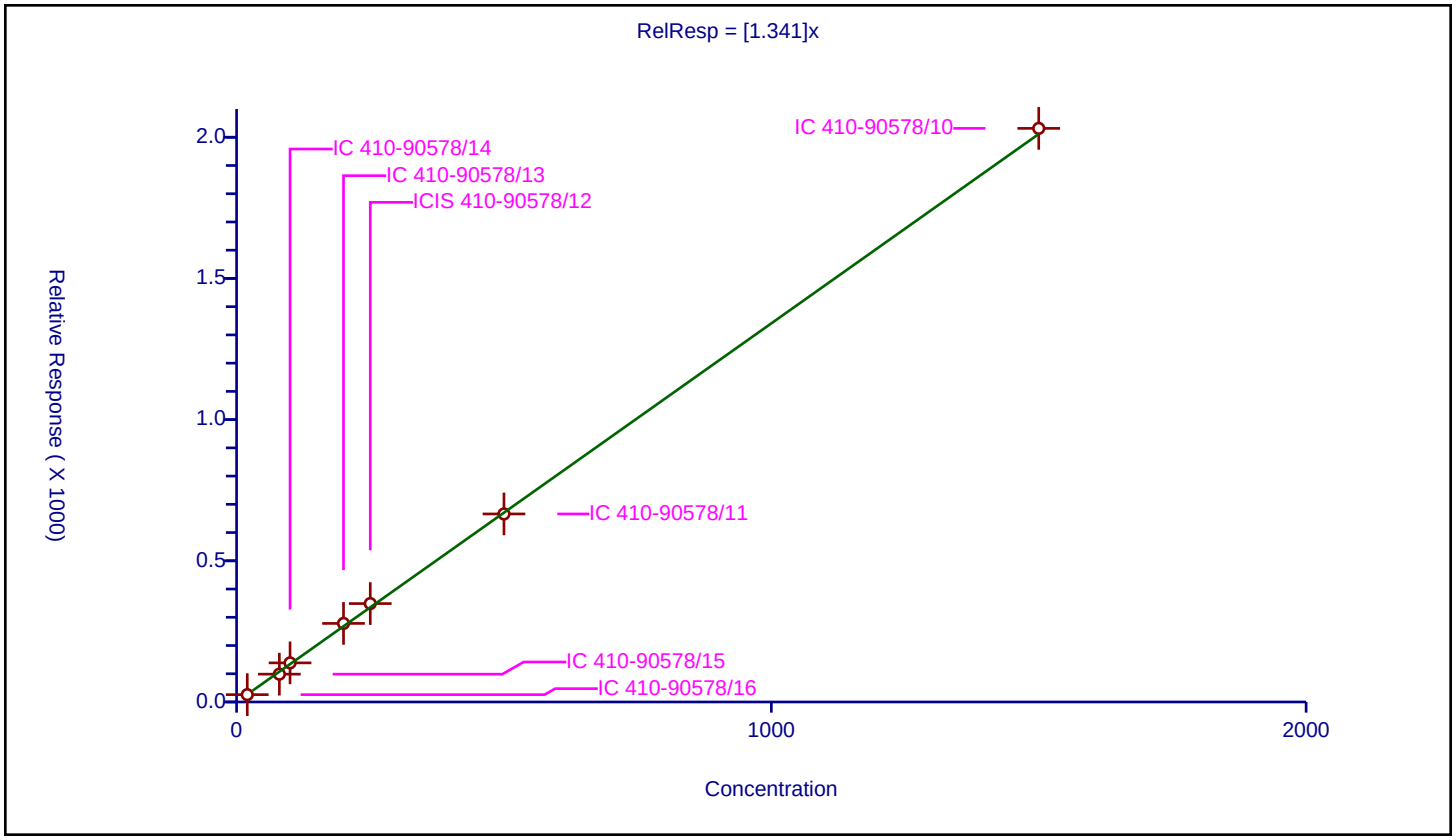
Curve Coefficients

Intercept:	0
Slope:	1.341

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	4.4
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	20.0	25.971727	250.0	442048.0	1.298586	Y
2	IC 410-90578/15	80.0	98.573687	250.0	464239.0	1.232171	Y
3	IC 410-90578/14	100.0	138.448193	250.0	465425.0	1.384482	Y
4	IC 410-90578/13	200.0	278.230561	250.0	472387.0	1.391153	Y
5	ICIS 410-90578/12	250.0	348.494338	250.0	464613.0	1.393977	Y
6	IC 410-90578/11	500.0	665.956677	250.0	436626.0	1.331913	Y
7	IC 410-90578/10	1500.0	2031.390559	250.0	356612.0	1.35426	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

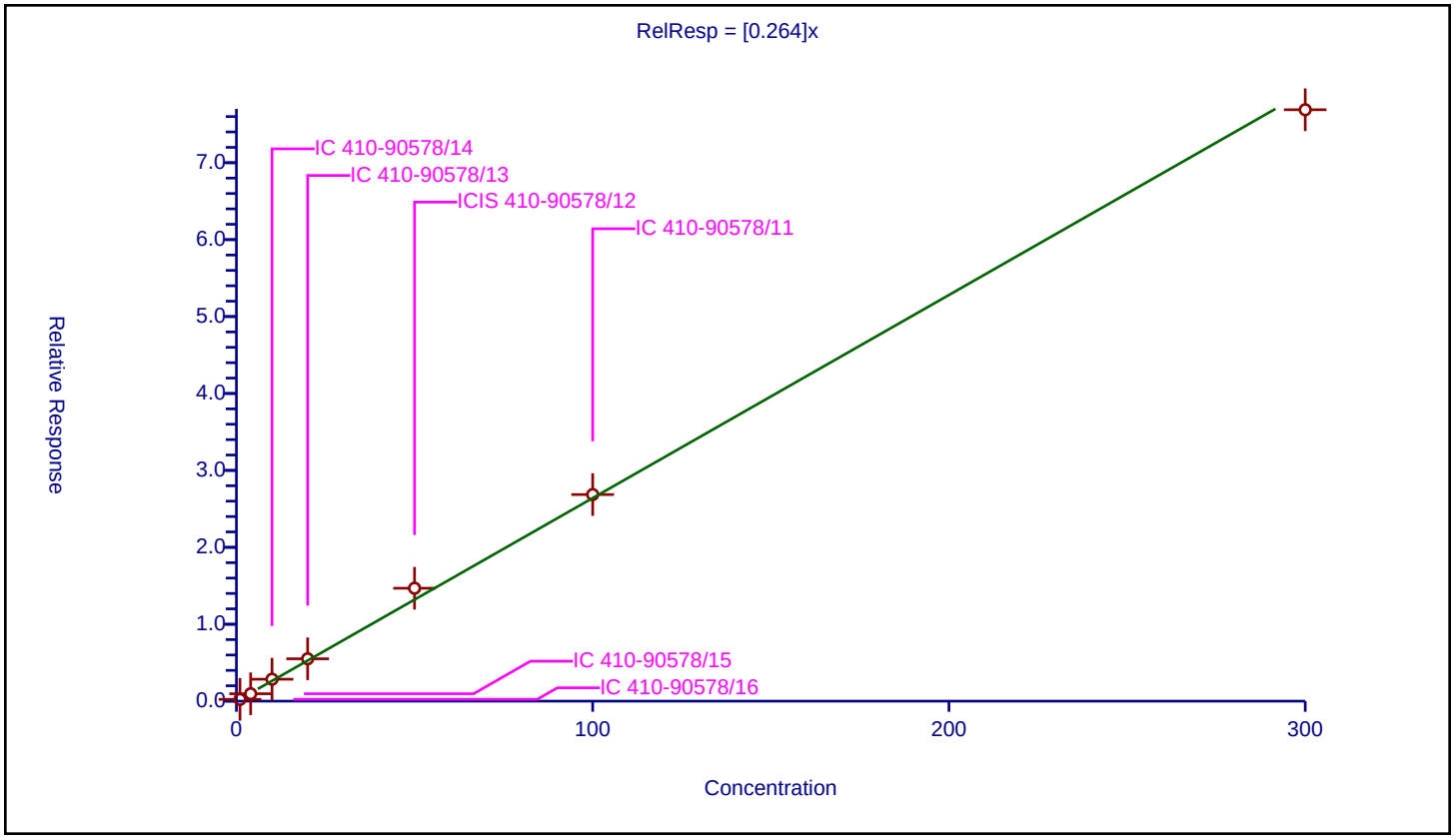
Curve Coefficients

Intercept:	0
Slope:	0.264

Error Coefficients

Standard Error:	730000
Relative Standard Error:	8.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.22927	50.0	1173726.0	0.22927	Y
2	IC 410-90578/15	4.0	0.959368	50.0	1187605.0	0.239842	Y
3	IC 410-90578/14	10.0	2.852021	50.0	1169048.0	0.285202	Y
4	IC 410-90578/13	20.0	5.507042	50.0	1194752.0	0.275352	Y
5	ICIS 410-90578/12	50.0	14.681718	50.0	1201593.0	0.293634	Y
6	IC 410-90578/11	100.0	26.858614	50.0	1159574.0	0.268586	Y
7	IC 410-90578/10	300.0	76.890073	50.0	1060581.0	0.2563	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

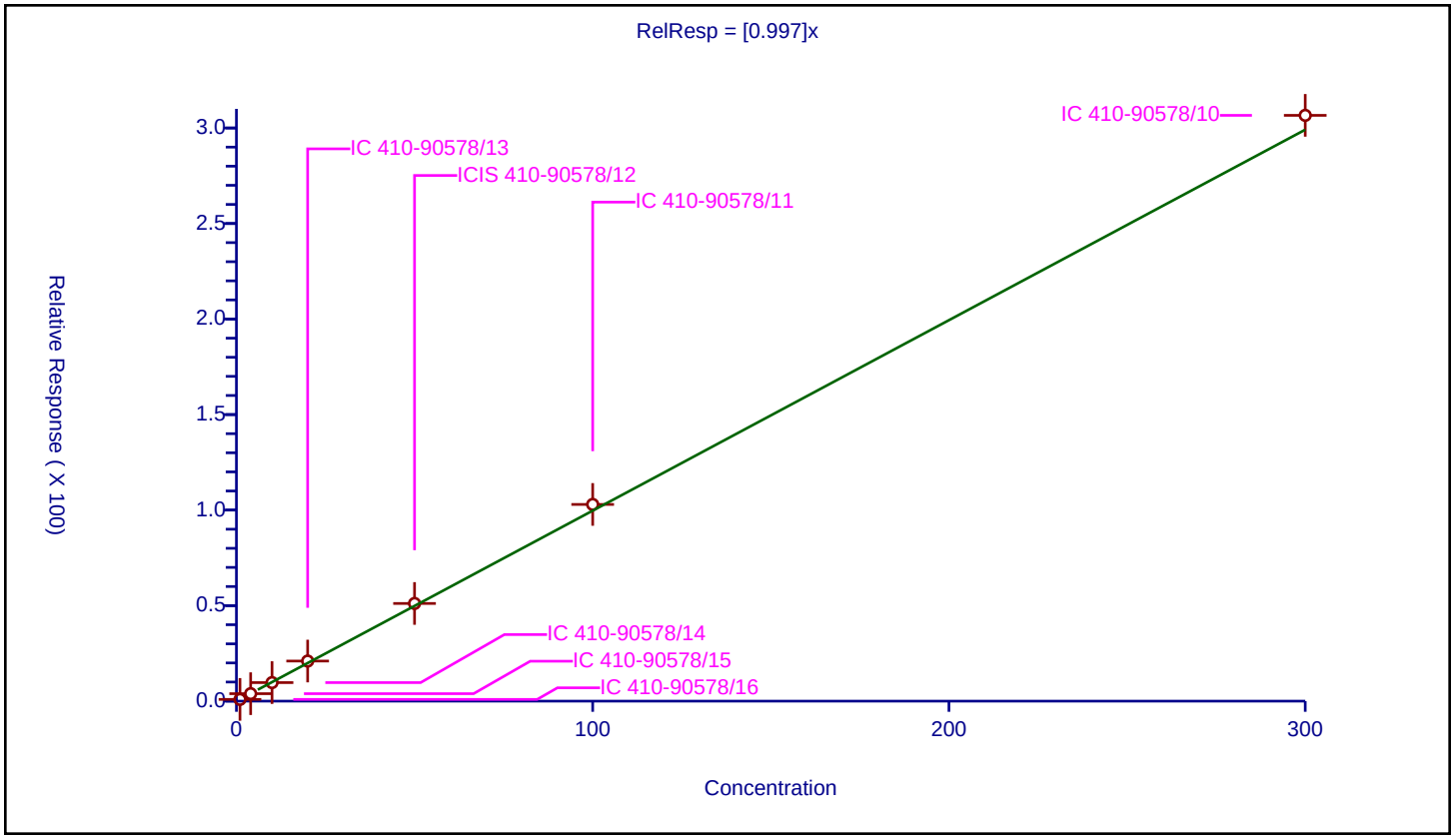
Curve Coefficients

Intercept:	0
Slope:	0.997

Error Coefficients

Standard Error:	2880000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.907239	50.0	1173726.0	0.907239	Y
2	IC 410-90578/15	4.0	3.906223	50.0	1187605.0	0.976556	Y
3	IC 410-90578/14	10.0	9.716496	50.0	1169048.0	0.97165	Y
4	IC 410-90578/13	20.0	20.987243	50.0	1194752.0	1.049362	Y
5	ICIS 410-90578/12	50.0	51.133329	50.0	1201593.0	1.022667	Y
6	IC 410-90578/11	100.0	102.95518	50.0	1159574.0	1.029552	Y
7	IC 410-90578/10	300.0	306.610999	50.0	1060581.0	1.022037	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

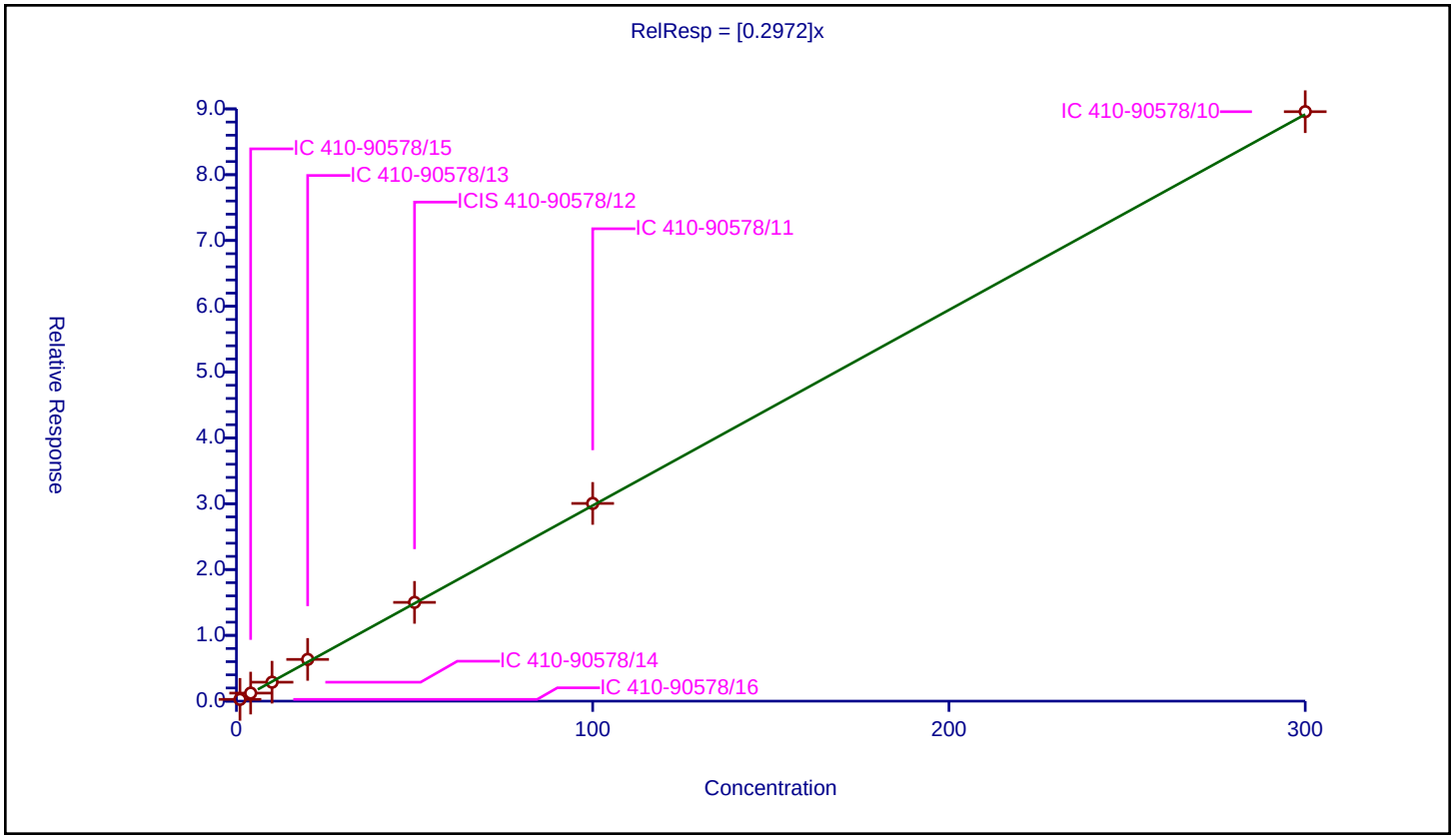
Curve Coefficients

Intercept:	0
Slope:	0.2972

Error Coefficients

Standard Error:	842000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.269782	50.0	1173726.0	0.269782	Y
2	IC 410-90578/15	4.0	1.225618	50.0	1187605.0	0.306404	Y
3	IC 410-90578/14	10.0	2.879095	50.0	1169048.0	0.287909	Y
4	IC 410-90578/13	20.0	6.344162	50.0	1194752.0	0.317208	Y
5	ICIS 410-90578/12	50.0	15.009908	50.0	1201593.0	0.300198	Y
6	IC 410-90578/11	100.0	30.047241	50.0	1159574.0	0.300472	Y
7	IC 410-90578/10	300.0	89.576515	50.0	1060581.0	0.298588	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

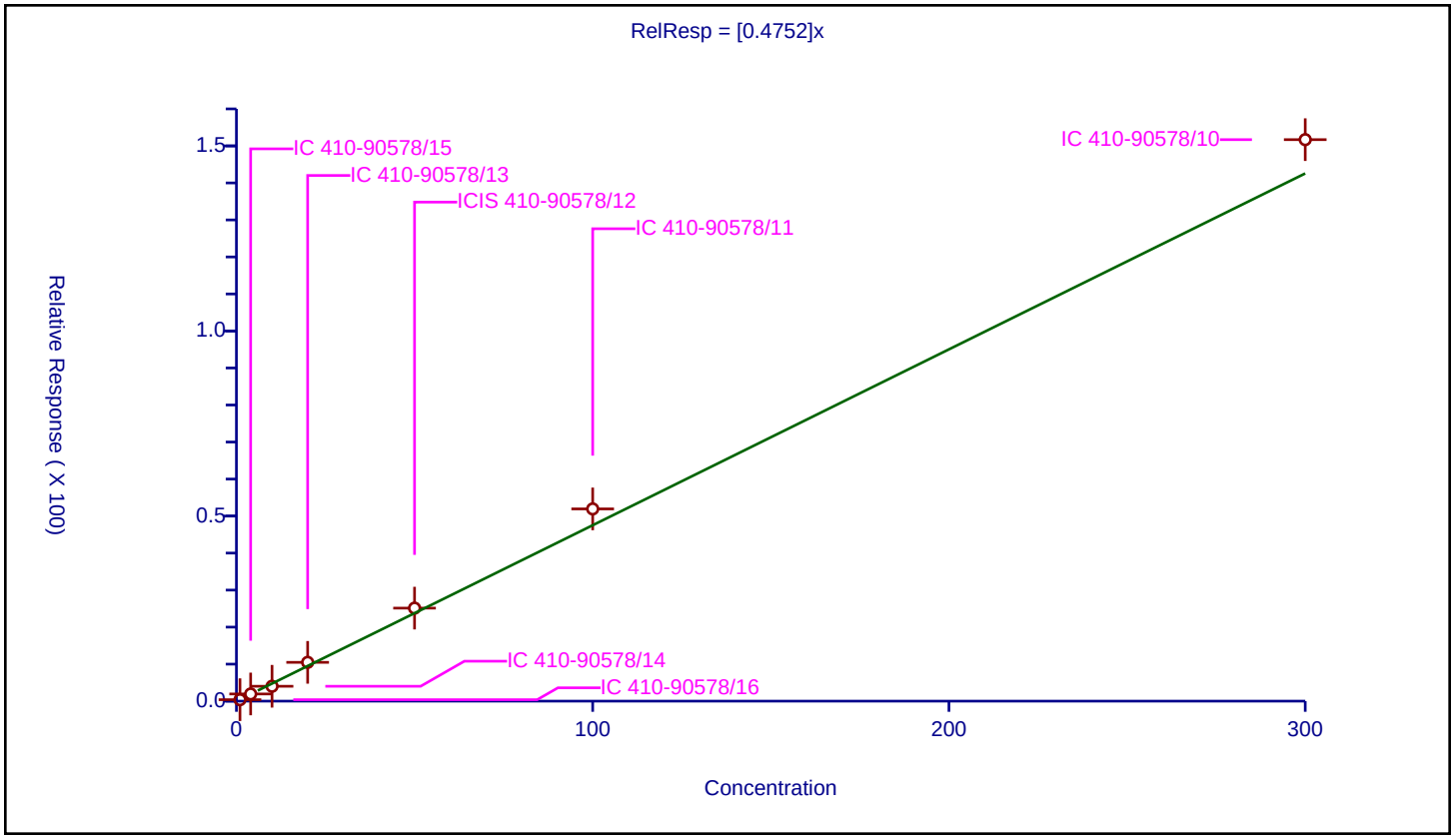
Curve Coefficients

Intercept:	0
Slope:	0.4752

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	11.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.389018	50.0	1173726.0	0.389018	Y
2	IC 410-90578/15	4.0	1.936545	50.0	1187605.0	0.484136	Y
3	IC 410-90578/14	10.0	4.017671	50.0	1169048.0	0.401767	Y
4	IC 410-90578/13	20.0	10.477781	50.0	1194752.0	0.523889	Y
5	ICIS 410-90578/12	50.0	25.129058	50.0	1201593.0	0.502581	Y
6	IC 410-90578/11	100.0	51.932304	50.0	1159574.0	0.519323	Y
7	IC 410-90578/10	300.0	151.692846	50.0	1060581.0	0.505643	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

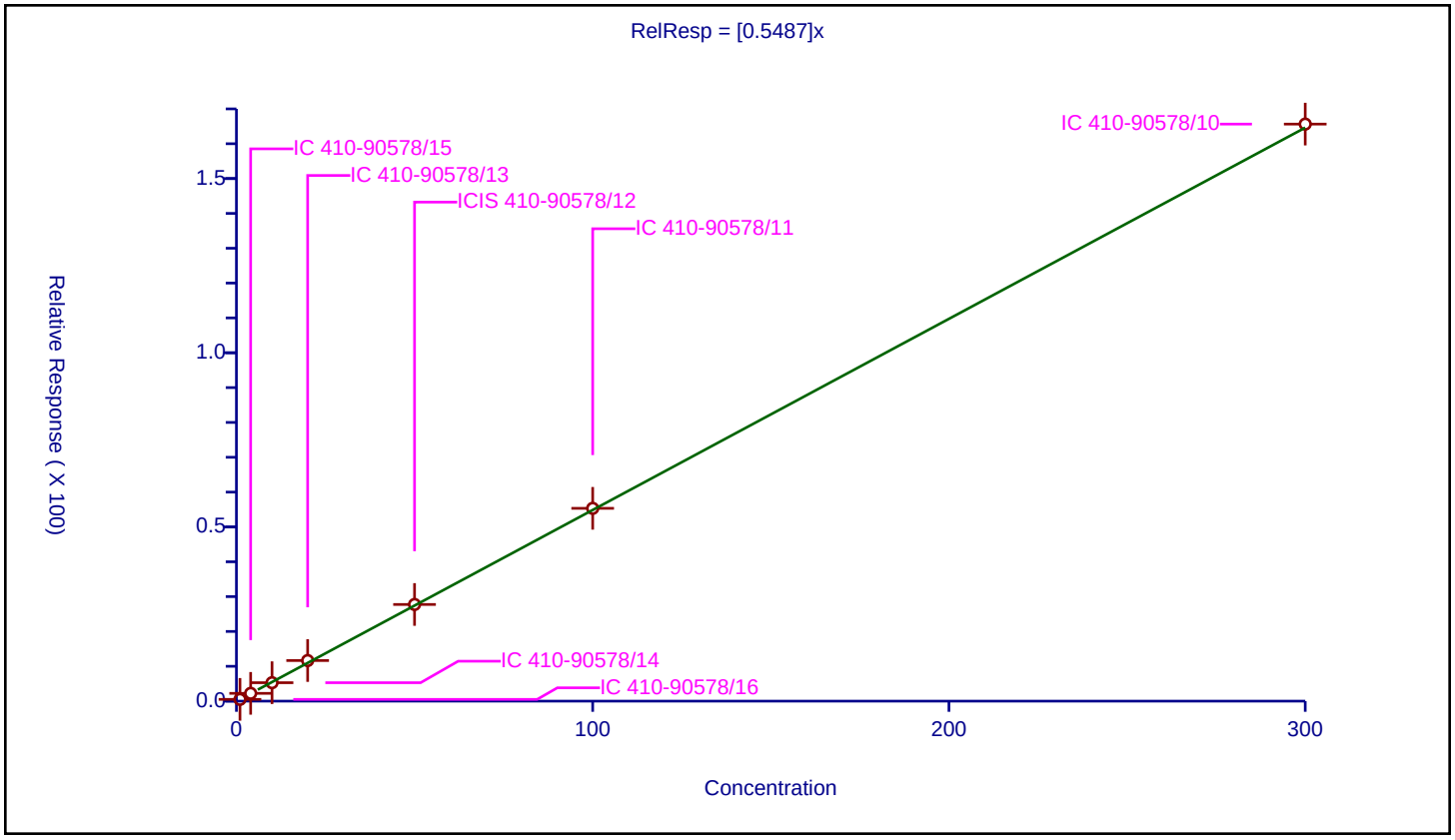
Curve Coefficients

Intercept:	0
Slope:	0.5487

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.508424	50.0	1173726.0	0.508424	Y
2	IC 410-90578/15	4.0	2.237697	50.0	1187605.0	0.559424	Y
3	IC 410-90578/14	10.0	5.29589	50.0	1169048.0	0.529589	Y
4	IC 410-90578/13	20.0	11.657482	50.0	1194752.0	0.582874	Y
5	ICIS 410-90578/12	50.0	27.744669	50.0	1201593.0	0.554893	Y
6	IC 410-90578/11	100.0	55.342738	50.0	1159574.0	0.553427	Y
7	IC 410-90578/10	300.0	165.635958	50.0	1060581.0	0.55212	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

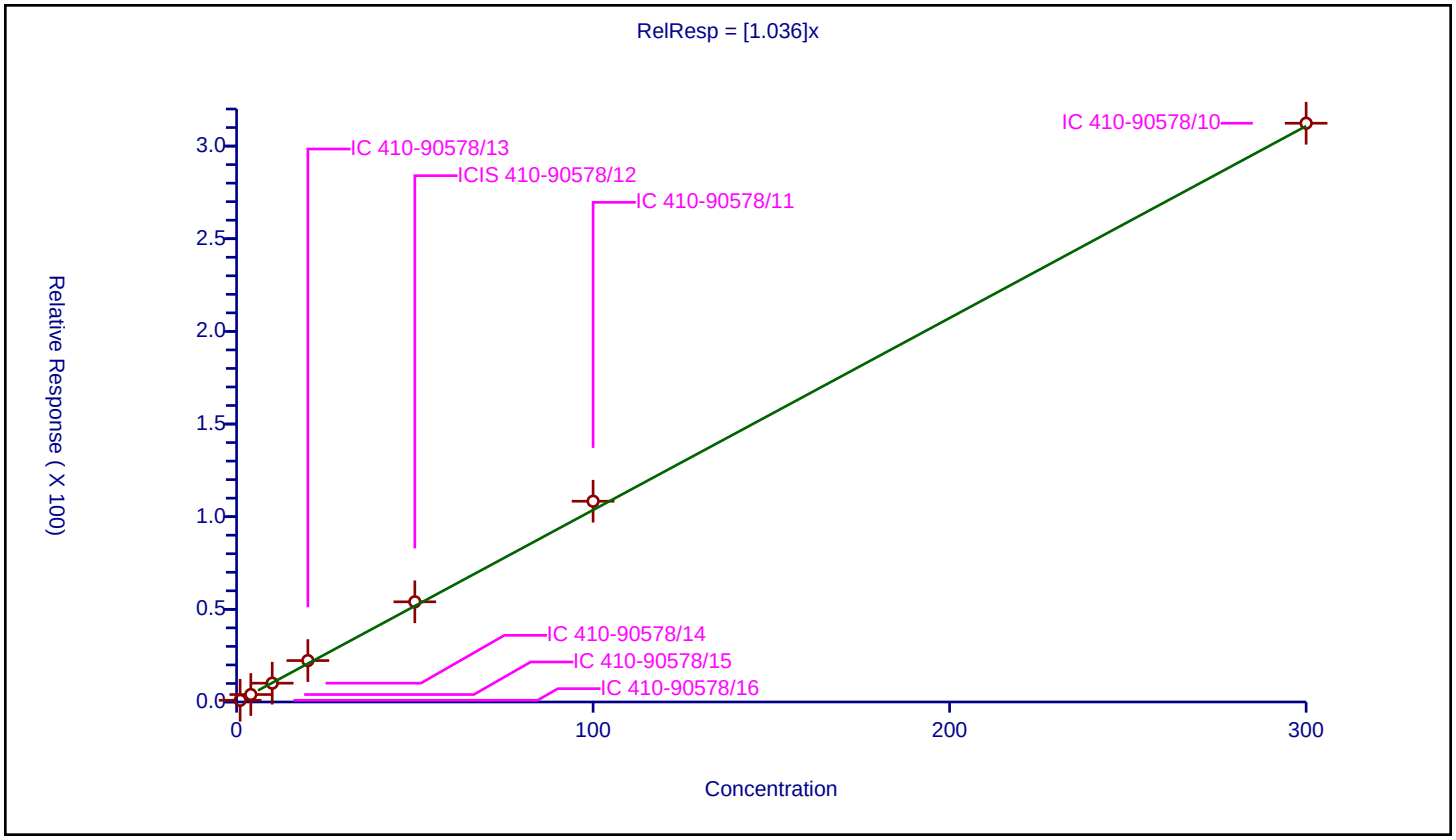
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Standard Error:	2950000
Relative Standard Error:	6.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.9066	50.0	1173726.0	0.9066	Y
2	IC 410-90578/15	4.0	4.026381	50.0	1187605.0	1.006595	Y
3	IC 410-90578/14	10.0	10.154502	50.0	1169048.0	1.01545	Y
4	IC 410-90578/13	20.0	22.352965	50.0	1194752.0	1.117648	Y
5	ICIS 410-90578/12	50.0	54.064396	50.0	1201593.0	1.081288	Y
6	IC 410-90578/11	100.0	108.347419	50.0	1159574.0	1.083474	Y
7	IC 410-90578/10	300.0	312.332203	50.0	1060581.0	1.041107	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

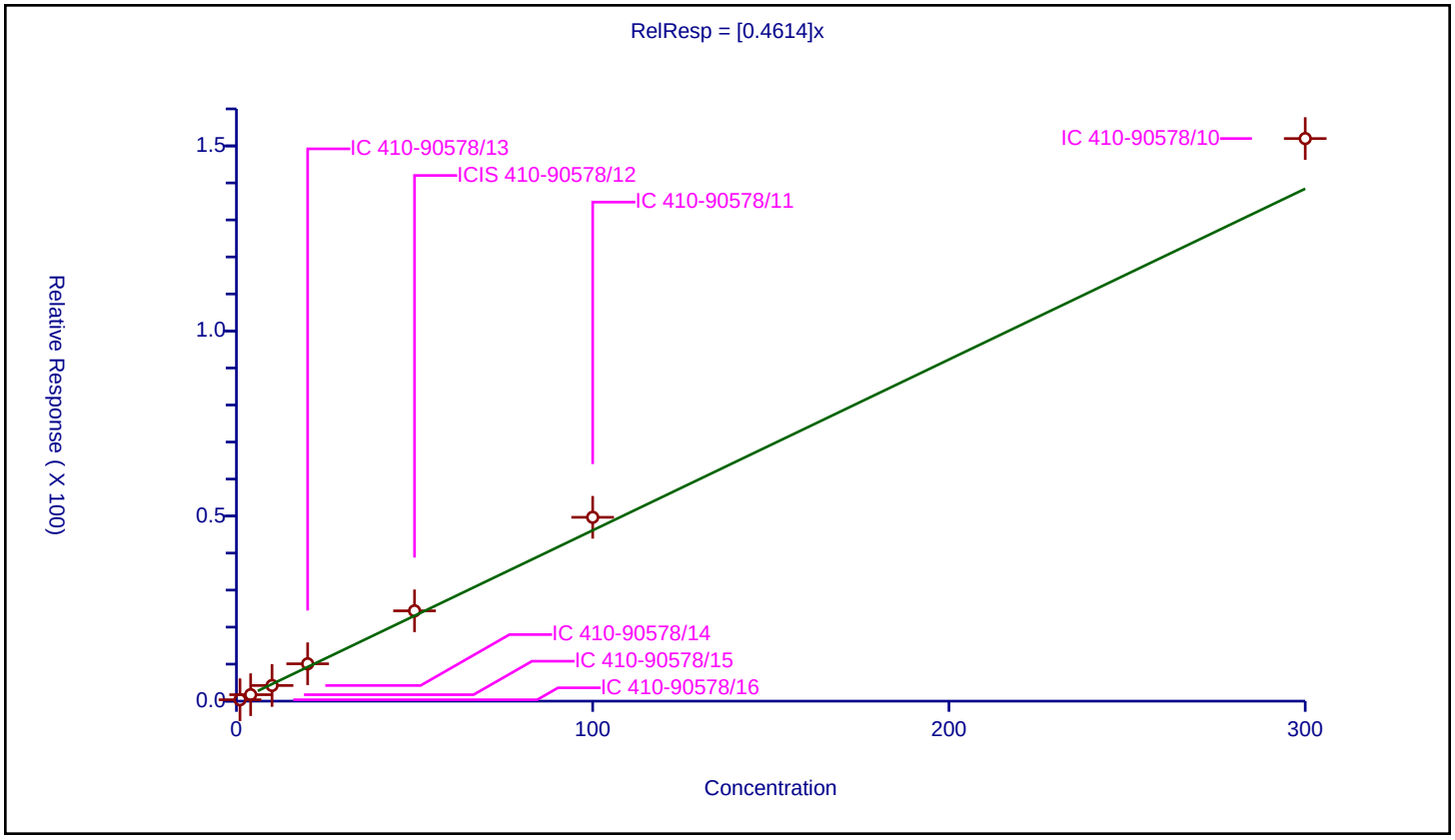
Curve Coefficients

Intercept:	0
Slope:	0.4614

Error Coefficients

Standard Error:	1420000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.375343	50.0	1173726.0	0.375343	Y
2	IC 410-90578/15	4.0	1.74473	50.0	1187605.0	0.436182	Y
3	IC 410-90578/14	10.0	4.227286	50.0	1169048.0	0.422729	Y
4	IC 410-90578/13	20.0	10.090755	50.0	1194752.0	0.504538	Y
5	ICIS 410-90578/12	50.0	24.395365	50.0	1201593.0	0.487907	Y
6	IC 410-90578/11	100.0	49.666515	50.0	1159574.0	0.496665	Y
7	IC 410-90578/10	300.0	151.985421	50.0	1060581.0	0.506618	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

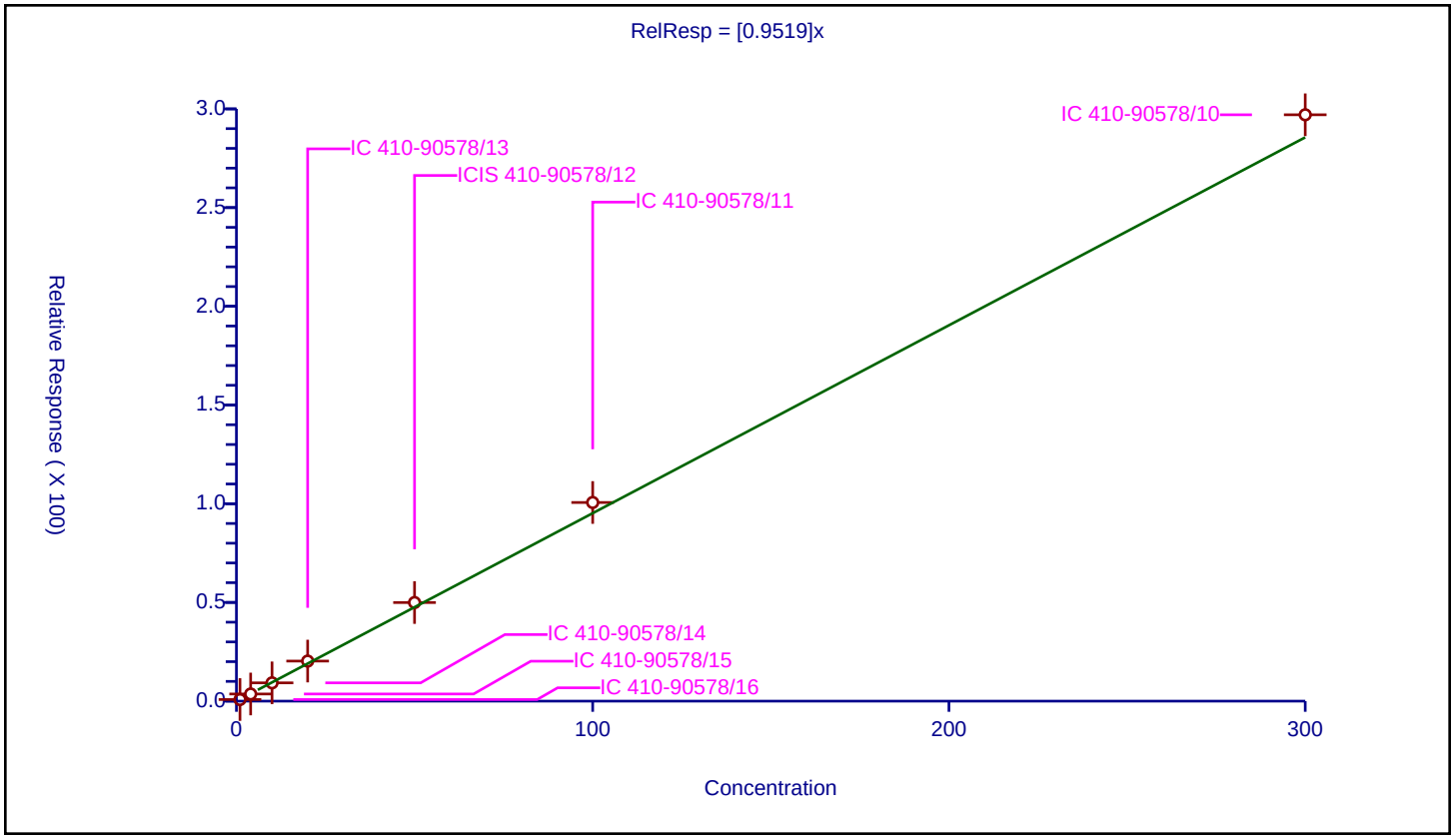
Curve Coefficients

Intercept:	0
Slope:	0.9519

Error Coefficients

Standard Error:	2790000
Relative Standard Error:	7.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.821359	50.0	1173726.0	0.821359	Y
2	IC 410-90578/15	4.0	3.626121	50.0	1187605.0	0.90653	Y
3	IC 410-90578/14	10.0	9.258816	50.0	1169048.0	0.925882	Y
4	IC 410-90578/13	20.0	20.290947	50.0	1194752.0	1.014547	Y
5	ICIS 410-90578/12	50.0	49.947611	50.0	1201593.0	0.998952	Y
6	IC 410-90578/11	100.0	100.619452	50.0	1159574.0	1.006195	Y
7	IC 410-90578/10	300.0	297.021727	50.0	1060581.0	0.990072	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

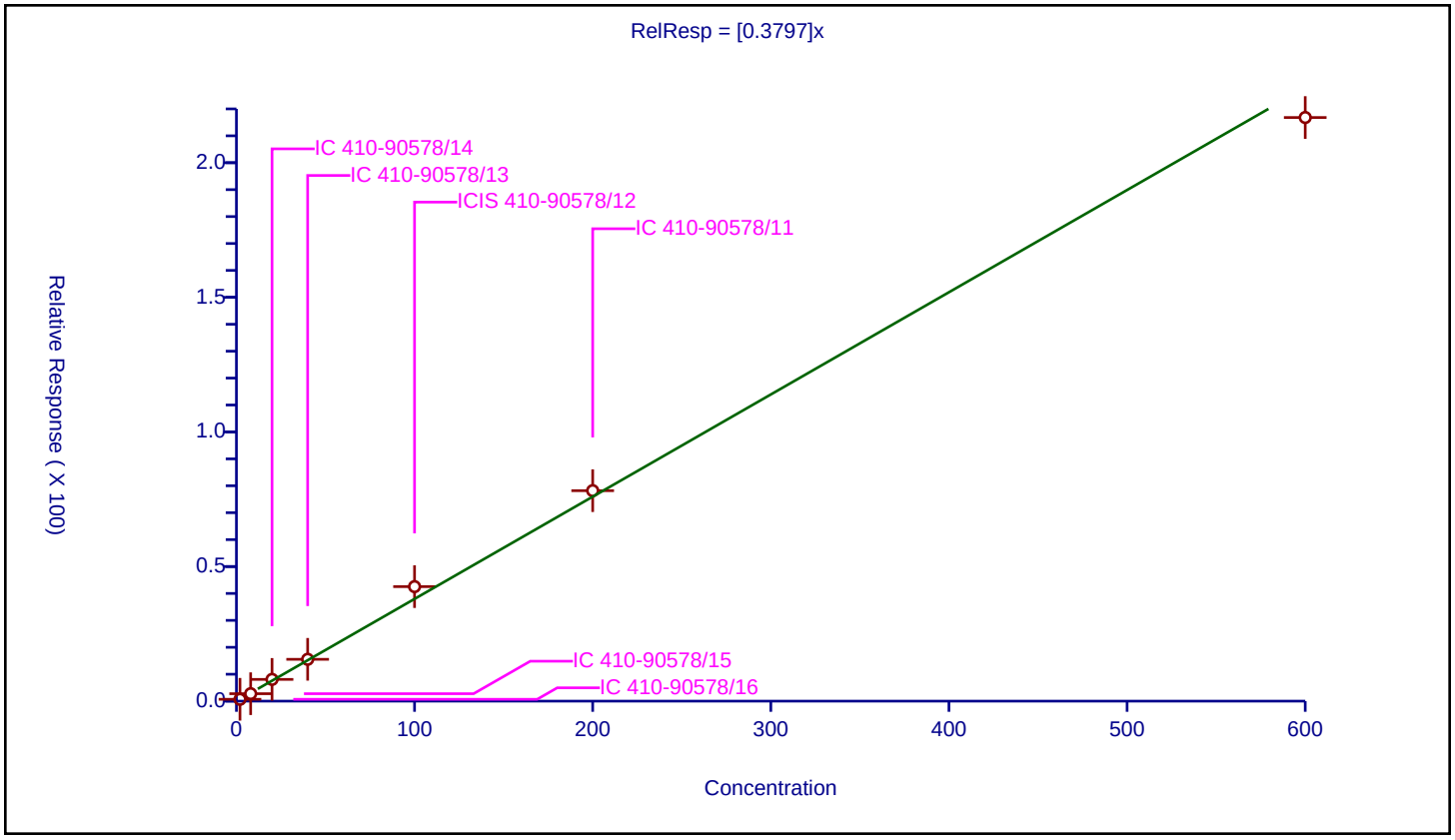
Curve Coefficients

Intercept:	0
Slope:	0.3797

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	8.2
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	2.0	0.684913	50.0	1173726.0	0.342456	Y
2	IC 410-90578/15	8.0	2.764934	50.0	1187605.0	0.345617	Y
3	IC 410-90578/14	20.0	8.077513	50.0	1169048.0	0.403876	Y
4	IC 410-90578/13	40.0	15.538413	50.0	1194752.0	0.38846	Y
5	ICIS 410-90578/12	100.0	42.540278	50.0	1201593.0	0.425403	Y
6	IC 410-90578/11	200.0	78.188671	50.0	1159574.0	0.390943	Y
7	IC 410-90578/10	600.0	216.796831	50.0	1060581.0	0.361328	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

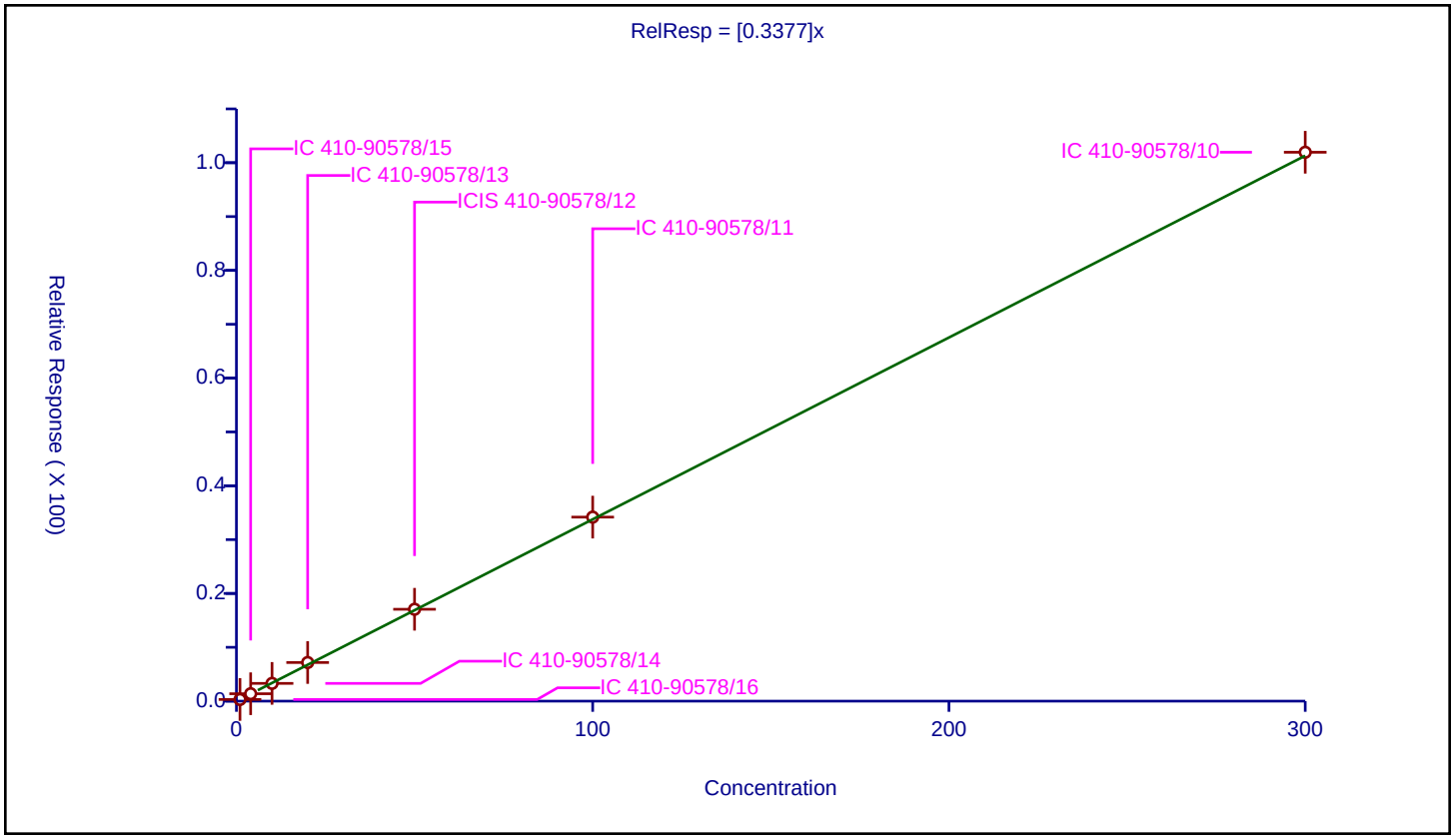
Curve Coefficients

Intercept:	0
Slope:	0.3377

Error Coefficients

Standard Error:	958000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.308249	50.0	1173726.0	0.308249	Y
2	IC 410-90578/15	4.0	1.37672	50.0	1187605.0	0.34418	Y
3	IC 410-90578/14	10.0	3.297256	50.0	1169048.0	0.329726	Y
4	IC 410-90578/13	20.0	7.174334	50.0	1194752.0	0.358717	Y
5	ICIS 410-90578/12	50.0	17.062475	50.0	1201593.0	0.341249	Y
6	IC 410-90578/11	100.0	34.179319	50.0	1159574.0	0.341793	Y
7	IC 410-90578/10	300.0	101.947046	50.0	1060581.0	0.339823	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

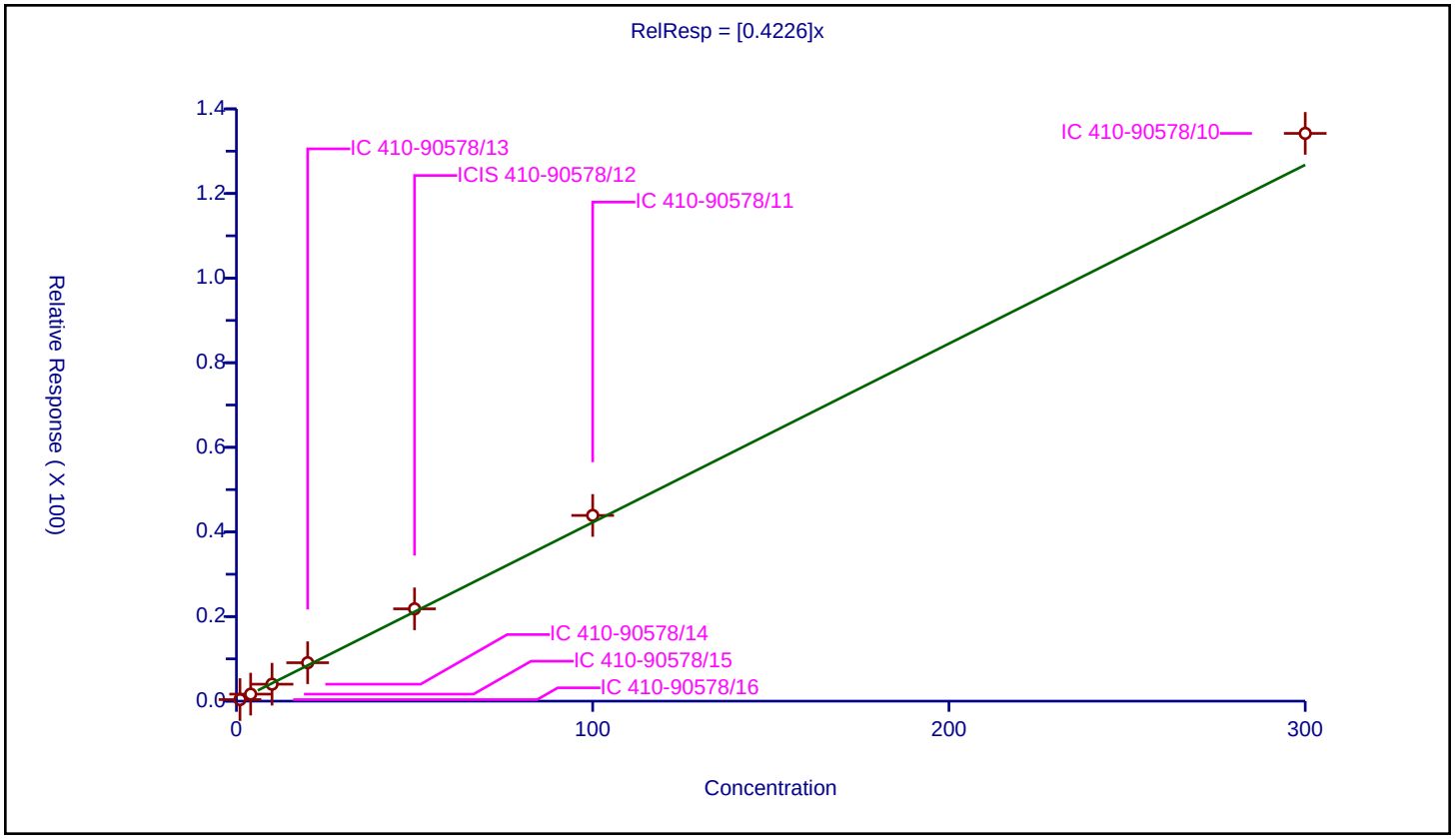
Curve Coefficients

Intercept:	0
Slope:	0.4226

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.36529	50.0	1173726.0	0.36529	Y
2	IC 410-90578/15	4.0	1.660106	50.0	1187605.0	0.415026	Y
3	IC 410-90578/14	10.0	4.00809	50.0	1169048.0	0.400809	Y
4	IC 410-90578/13	20.0	9.082471	50.0	1194752.0	0.454124	Y
5	ICIS 410-90578/12	50.0	21.816539	50.0	1201593.0	0.436331	Y
6	IC 410-90578/11	100.0	43.896897	50.0	1159574.0	0.438969	Y
7	IC 410-90578/10	300.0	134.207665	50.0	1060581.0	0.447359	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

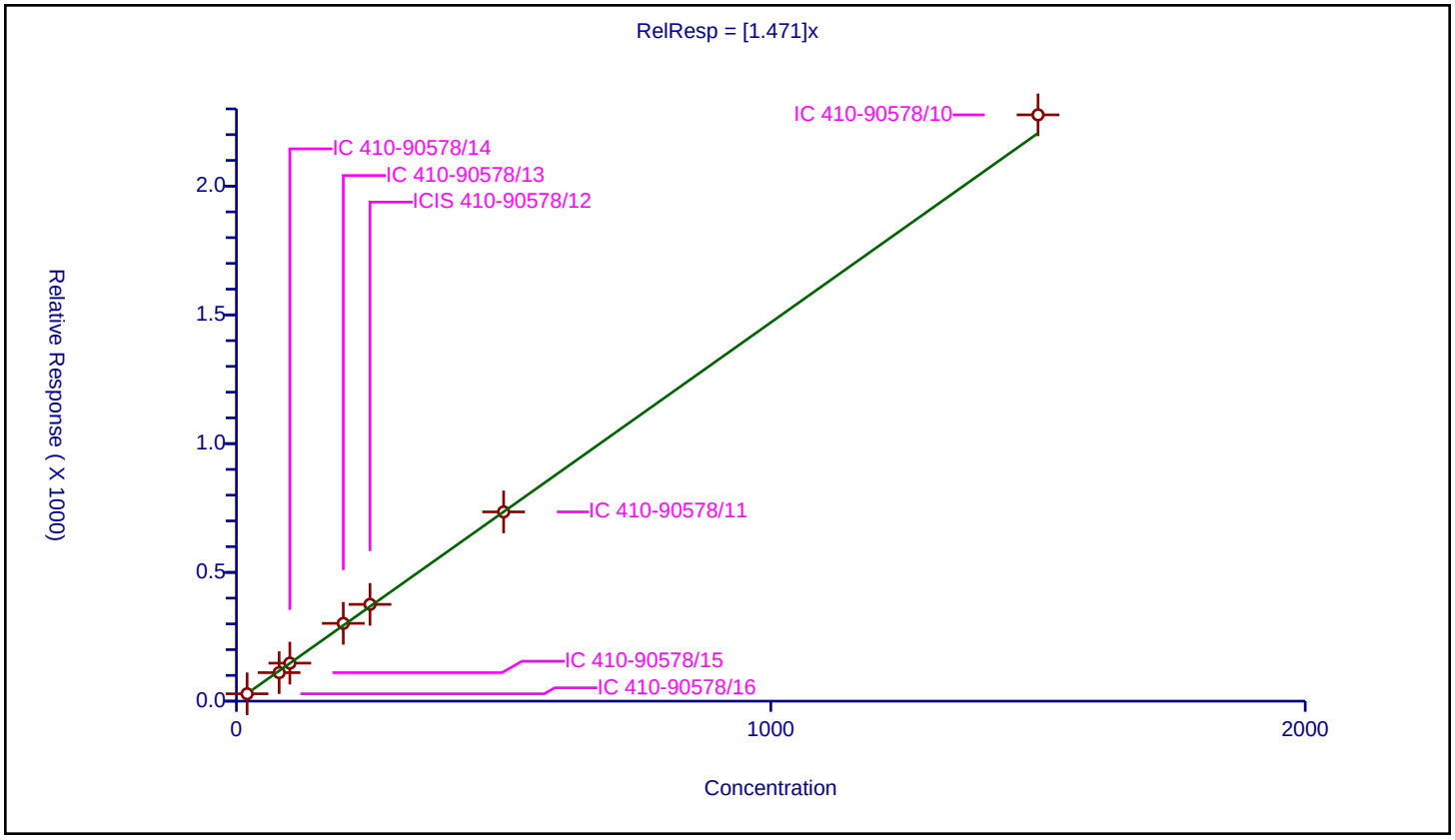
Curve Coefficients

Intercept:	0
Slope:	1.471

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	3.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	20.0	28.615105	250.0	442048.0	1.430755	Y
2	IC 410-90578/15	80.0	110.769991	250.0	464239.0	1.384625	Y
3	IC 410-90578/14	100.0	147.685986	250.0	465425.0	1.47686	Y
4	IC 410-90578/13	200.0	302.062716	250.0	472387.0	1.510314	Y
5	ICIS 410-90578/12	250.0	375.824611	250.0	464613.0	1.503298	Y
6	IC 410-90578/11	500.0	734.902411	250.0	436626.0	1.469805	Y
7	IC 410-90578/10	1500.0	2276.820466	250.0	356612.0	1.51788	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

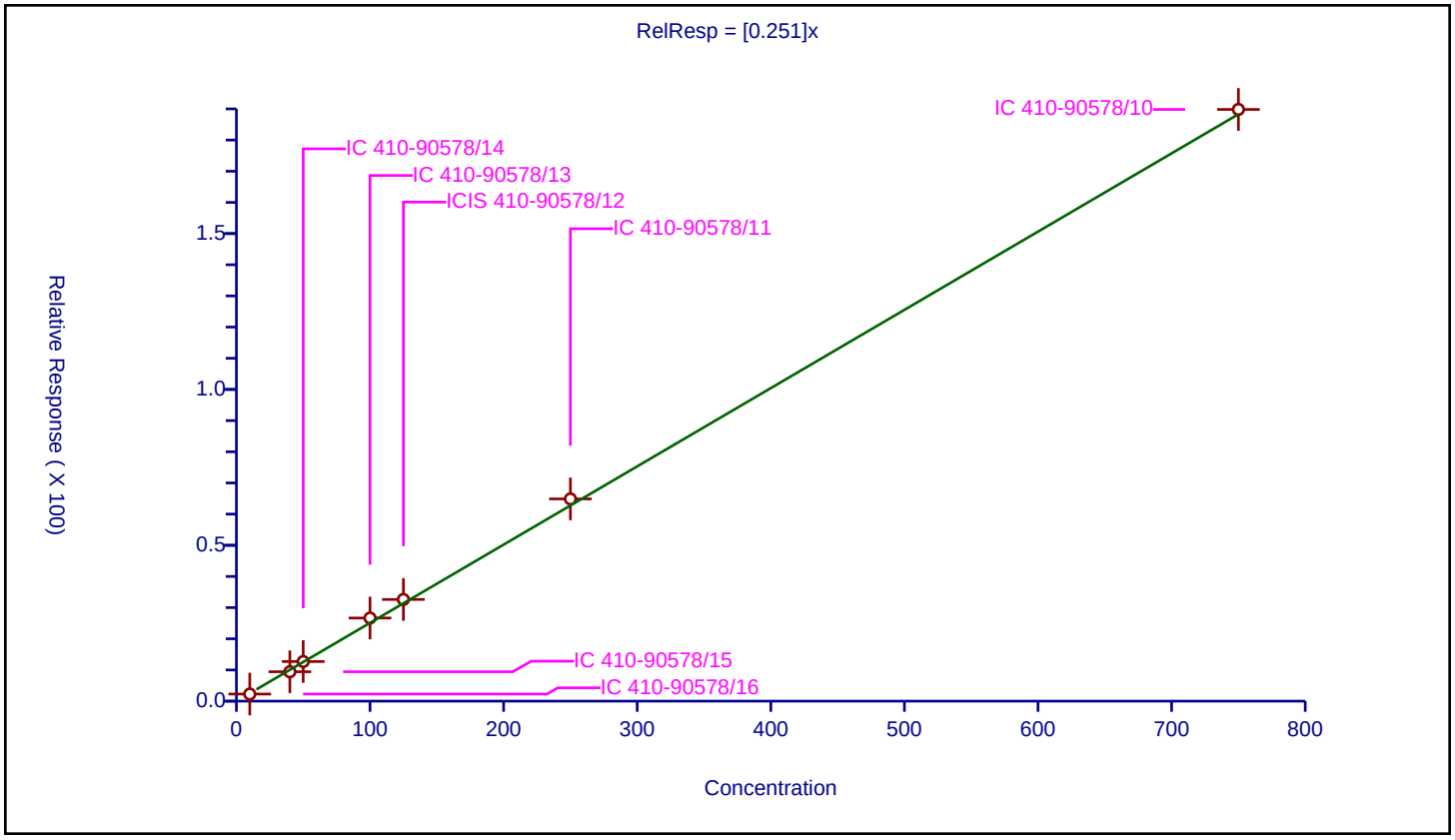
Curve Coefficients

Intercept:	0
Slope:	0.251

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	10.0	2.273018	50.0	1173726.0	0.227302	Y
2	IC 410-90578/15	40.0	9.428135	50.0	1187605.0	0.235703	Y
3	IC 410-90578/14	50.0	12.707305	50.0	1169048.0	0.254146	Y
4	IC 410-90578/13	100.0	26.666496	50.0	1194752.0	0.266665	Y
5	ICIS 410-90578/12	125.0	32.616909	50.0	1201593.0	0.260935	Y
6	IC 410-90578/11	250.0	64.871194	50.0	1159574.0	0.259485	Y
7	IC 410-90578/10	750.0	189.817468	50.0	1060581.0	0.25309	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

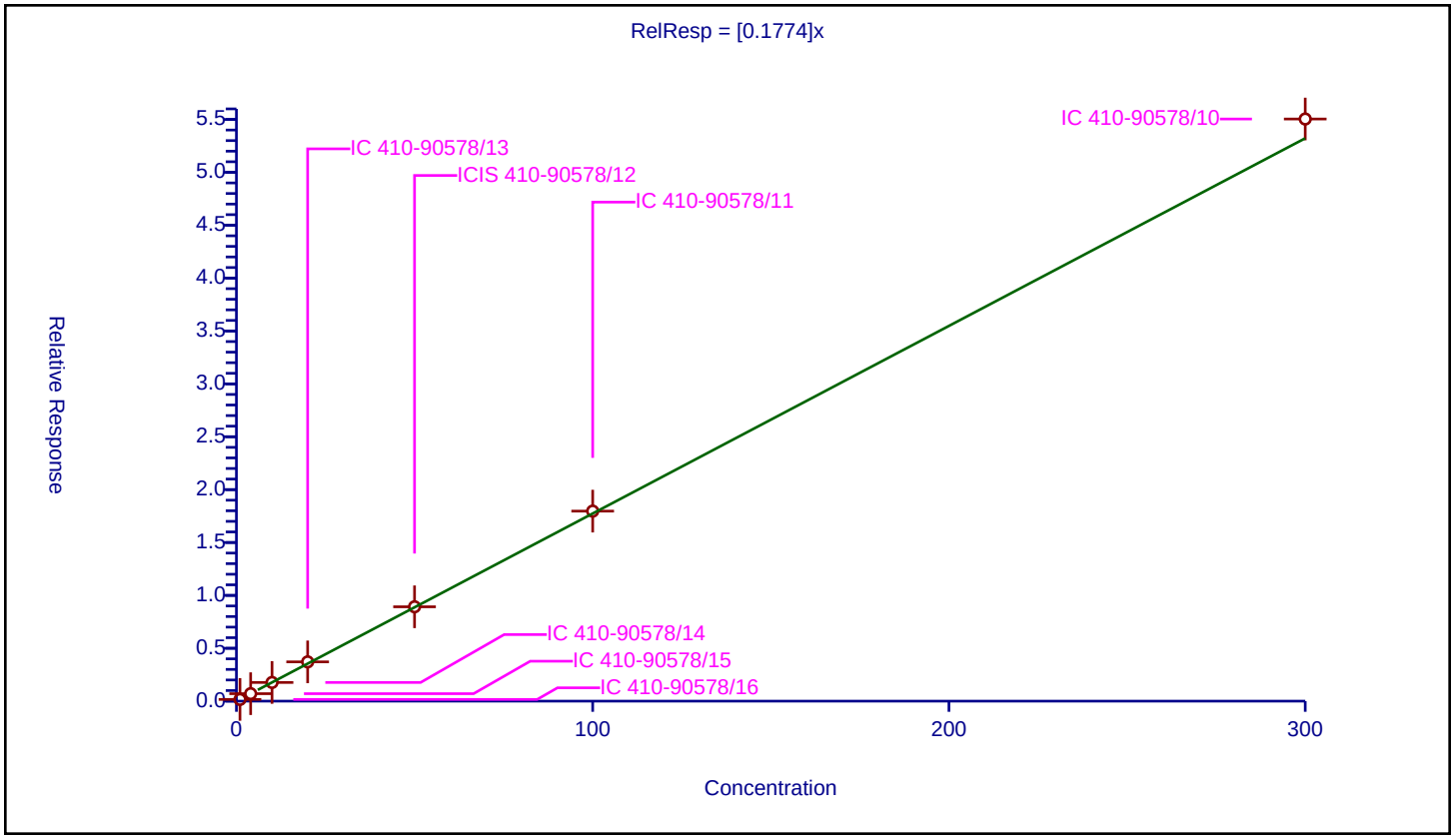
Curve Coefficients

Intercept:	0
Slope:	0.1774

Error Coefficients

Standard Error:	515000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.161409	50.0	1173726.0	0.161409	Y
2	IC 410-90578/15	4.0	0.705832	50.0	1187605.0	0.176458	Y
3	IC 410-90578/14	10.0	1.767421	50.0	1169048.0	0.176742	Y
4	IC 410-90578/13	20.0	3.712151	50.0	1194752.0	0.185608	Y
5	ICIS 410-90578/12	50.0	8.921948	50.0	1201593.0	0.178439	Y
6	IC 410-90578/11	100.0	17.968021	50.0	1159574.0	0.17968	Y
7	IC 410-90578/10	300.0	55.042001	50.0	1060581.0	0.183473	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

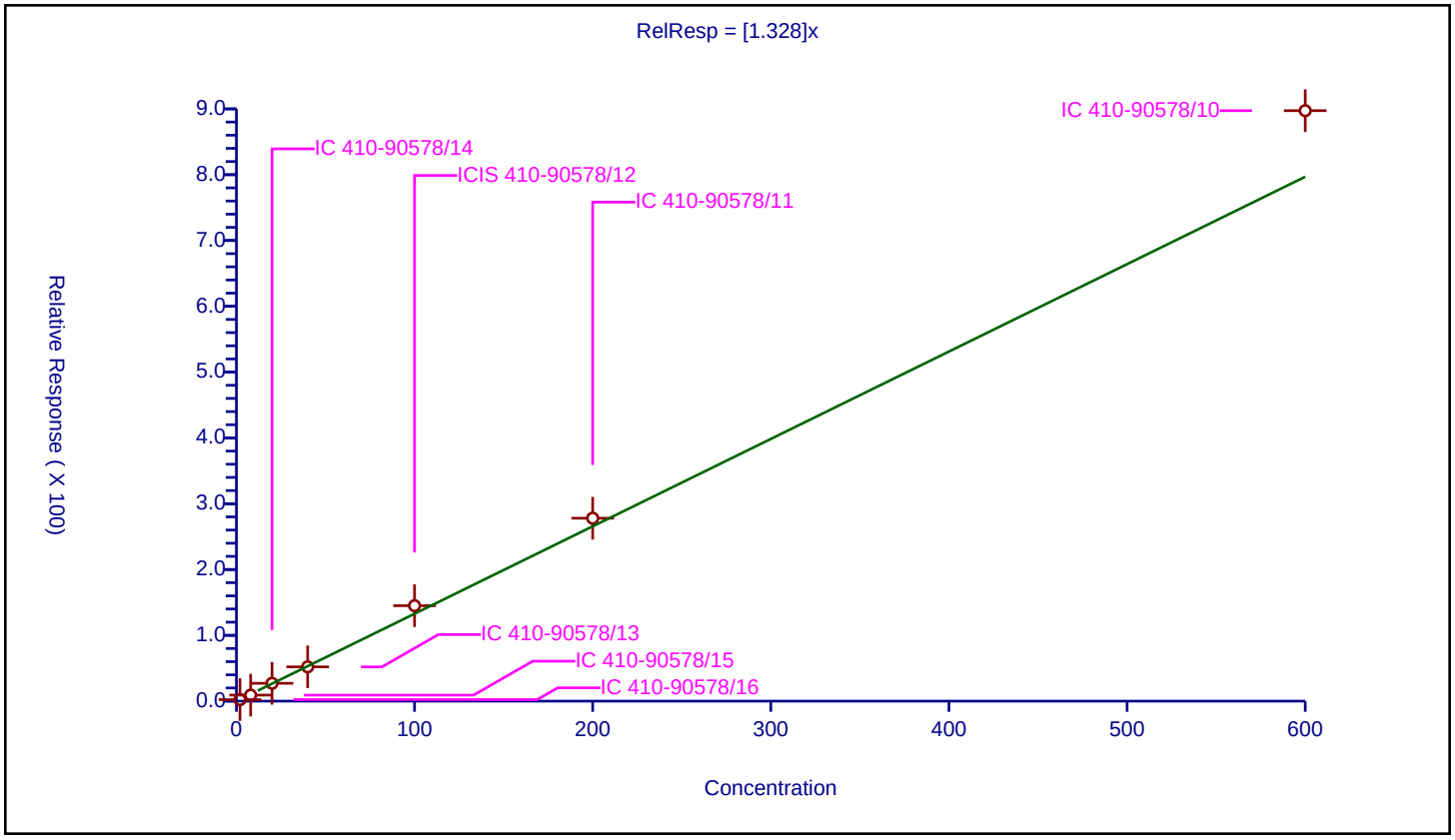
Curve Coefficients

Intercept:	0
Slope:	1.328

Error Coefficients

Standard Error:	571000
Relative Standard Error:	10.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	2.0	2.311966	250.0	442048.0	1.155983	Y
2	IC 410-90578/15	8.0	9.180078	250.0	464239.0	1.14751	Y
3	IC 410-90578/14	20.0	27.113928	250.0	465425.0	1.355696	Y
4	IC 410-90578/13	40.0	52.077534	250.0	472387.0	1.301938	Y
5	ICIS 410-90578/12	100.0	145.01908	250.0	464613.0	1.450191	Y
6	IC 410-90578/11	200.0	278.006807	250.0	436626.0	1.390034	Y
7	IC 410-90578/10	600.0	897.299446	250.0	356612.0	1.495499	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

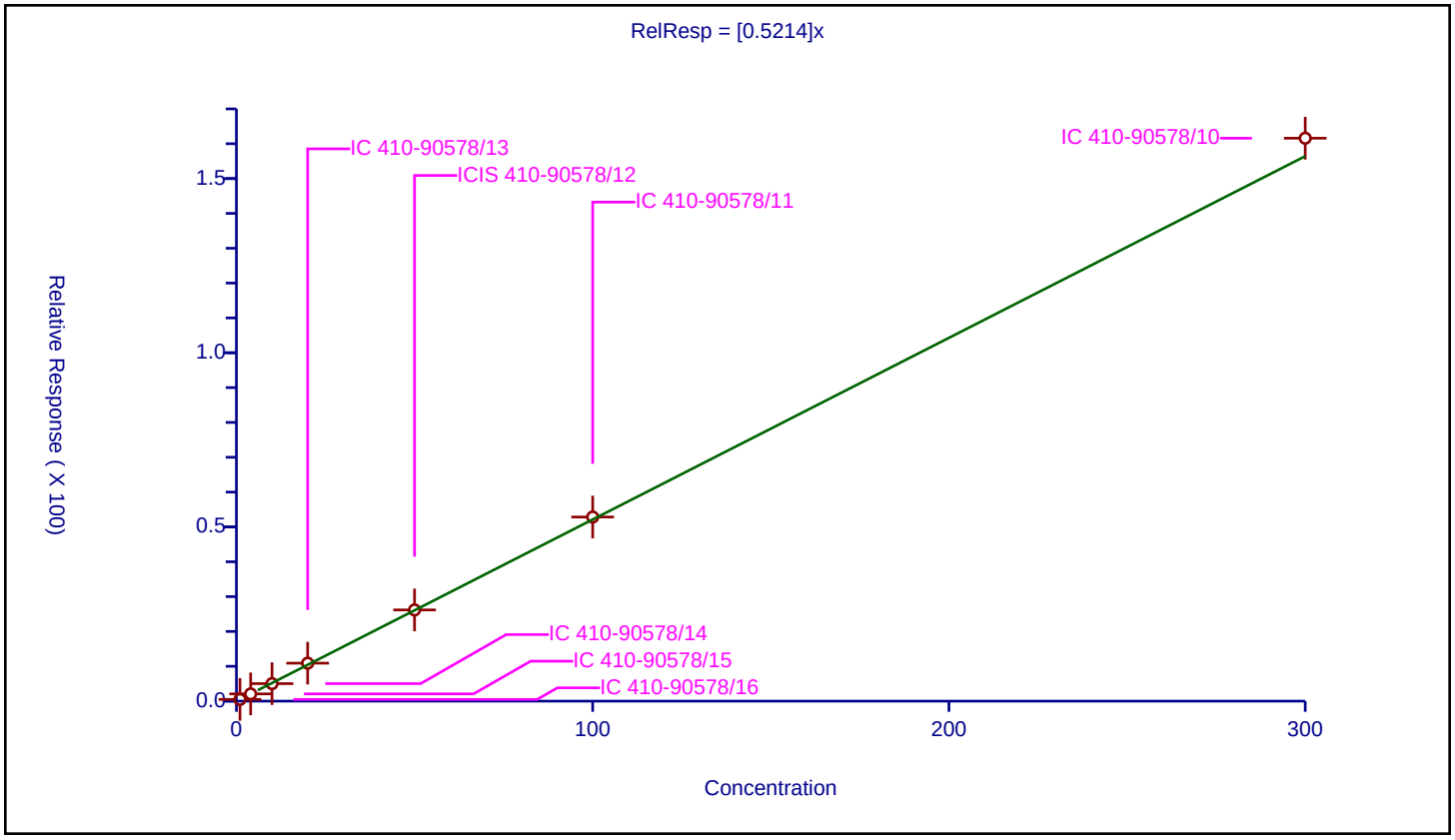
Curve Coefficients

Intercept:	0
Slope:	0.5214

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.490958	50.0	1173726.0	0.490958	Y
2	IC 410-90578/15	4.0	2.081711	50.0	1187605.0	0.520428	Y
3	IC 410-90578/14	10.0	5.028921	50.0	1169048.0	0.502892	Y
4	IC 410-90578/13	20.0	10.895567	50.0	1194752.0	0.544778	Y
5	ICIS 410-90578/12	50.0	26.178789	50.0	1201593.0	0.523576	Y
6	IC 410-90578/11	100.0	52.850142	50.0	1159574.0	0.528501	Y
7	IC 410-90578/10	300.0	161.581105	50.0	1060581.0	0.538604	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

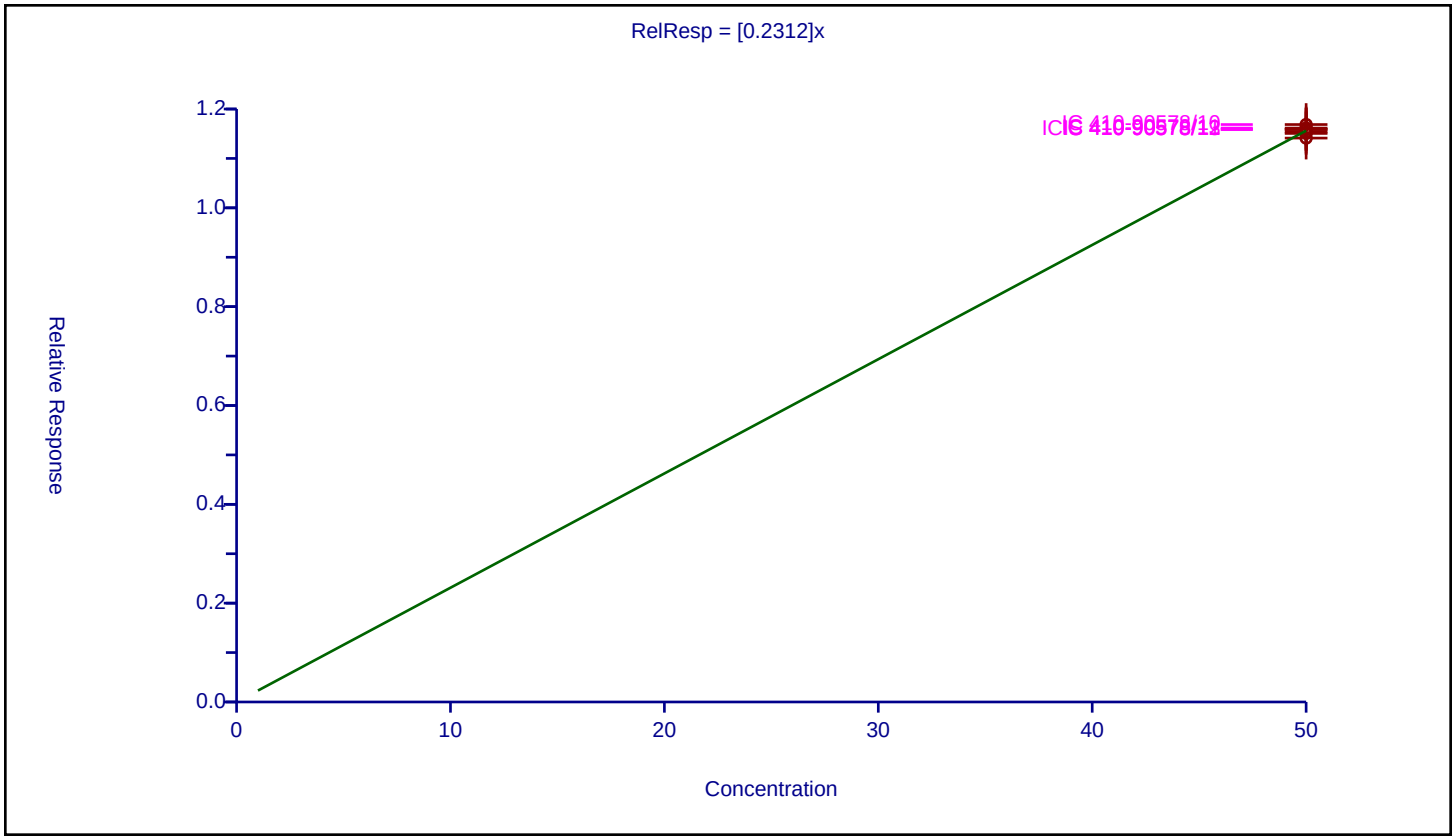
Curve Coefficients

Intercept:	0
Slope:	0.2312

Error Coefficients

Standard Error:	291000
Relative Standard Error:	0.8
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/10	50.0	11.686142	50.0	1060581.0	0.233723	Y
2	IC 410-90578/11	50.0	11.614783	50.0	1159574.0	0.232296	Y
3	ICIS 410-90578/12	50.0	11.583207	50.0	1201593.0	0.231664	Y
4	IC 410-90578/13	50.0	11.59115	50.0	1194752.0	0.231823	Y
5	IC 410-90578/14	50.0	11.533017	50.0	1169048.0	0.23066	Y
6	IC 410-90578/15	50.0	11.505762	50.0	1187605.0	0.230115	Y
7	IC 410-90578/16	50.0	11.411522	50.0	1173726.0	0.22823	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

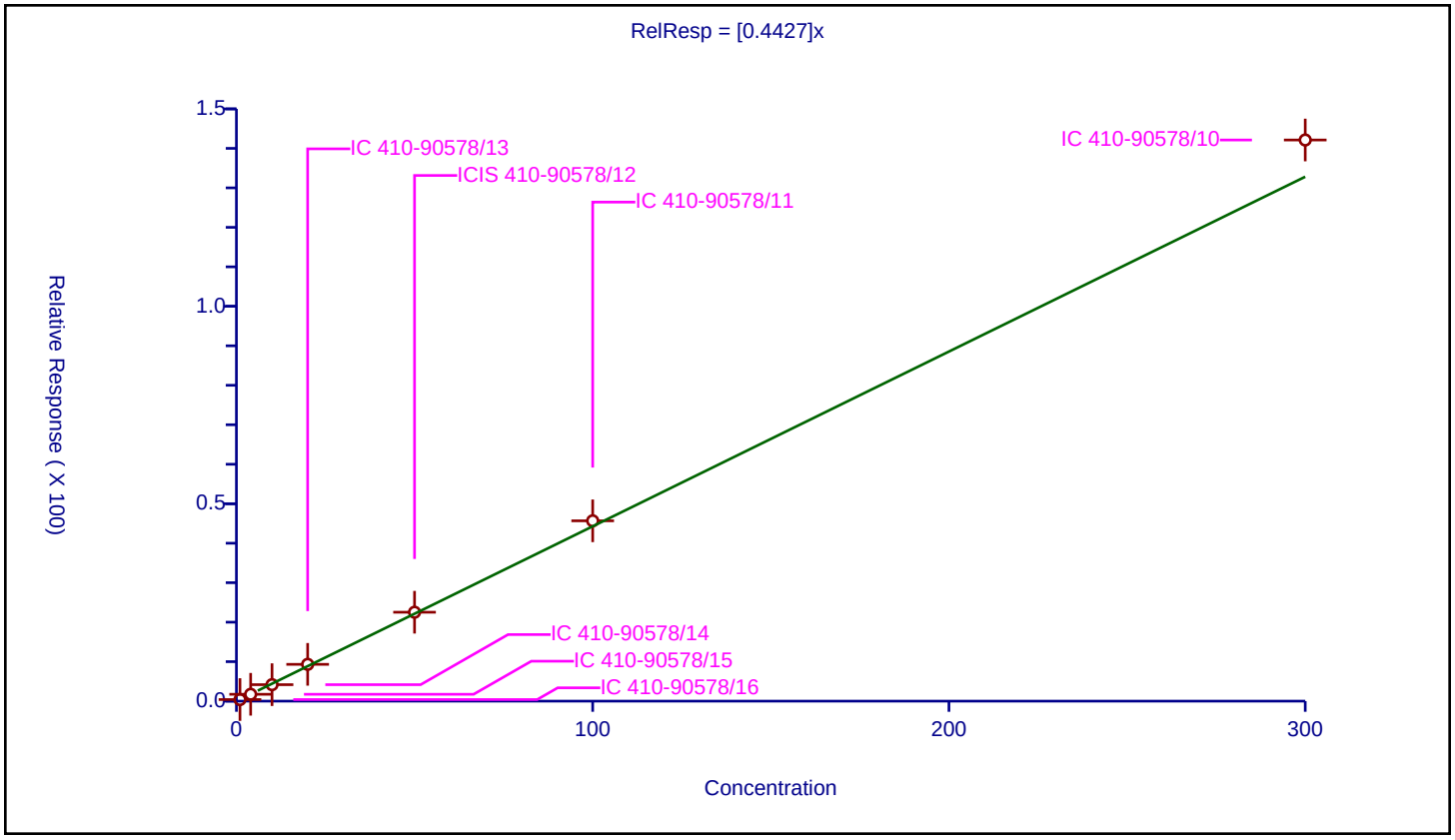
Curve Coefficients

Intercept:	0
Slope:	0.4427

Error Coefficients

Standard Error:	1330000
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 410-90578/16	1.0	0.400349	50.0	1173726.0	0.400349	Y
2	IC 410-90578/15	4.0	1.737152	50.0	1187605.0	0.434288	Y
3	IC 410-90578/14	10.0	4.174978	50.0	1169048.0	0.417498	Y
4	IC 410-90578/13	20.0	9.320177	50.0	1194752.0	0.466009	Y
5	ICIS 410-90578/12	50.0	22.519439	50.0	1201593.0	0.450389	Y
6	IC 410-90578/11	100.0	45.668668	50.0	1159574.0	0.456687	Y
7	IC 410-90578/10	300.0	142.123232	50.0	1060581.0	0.473744	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

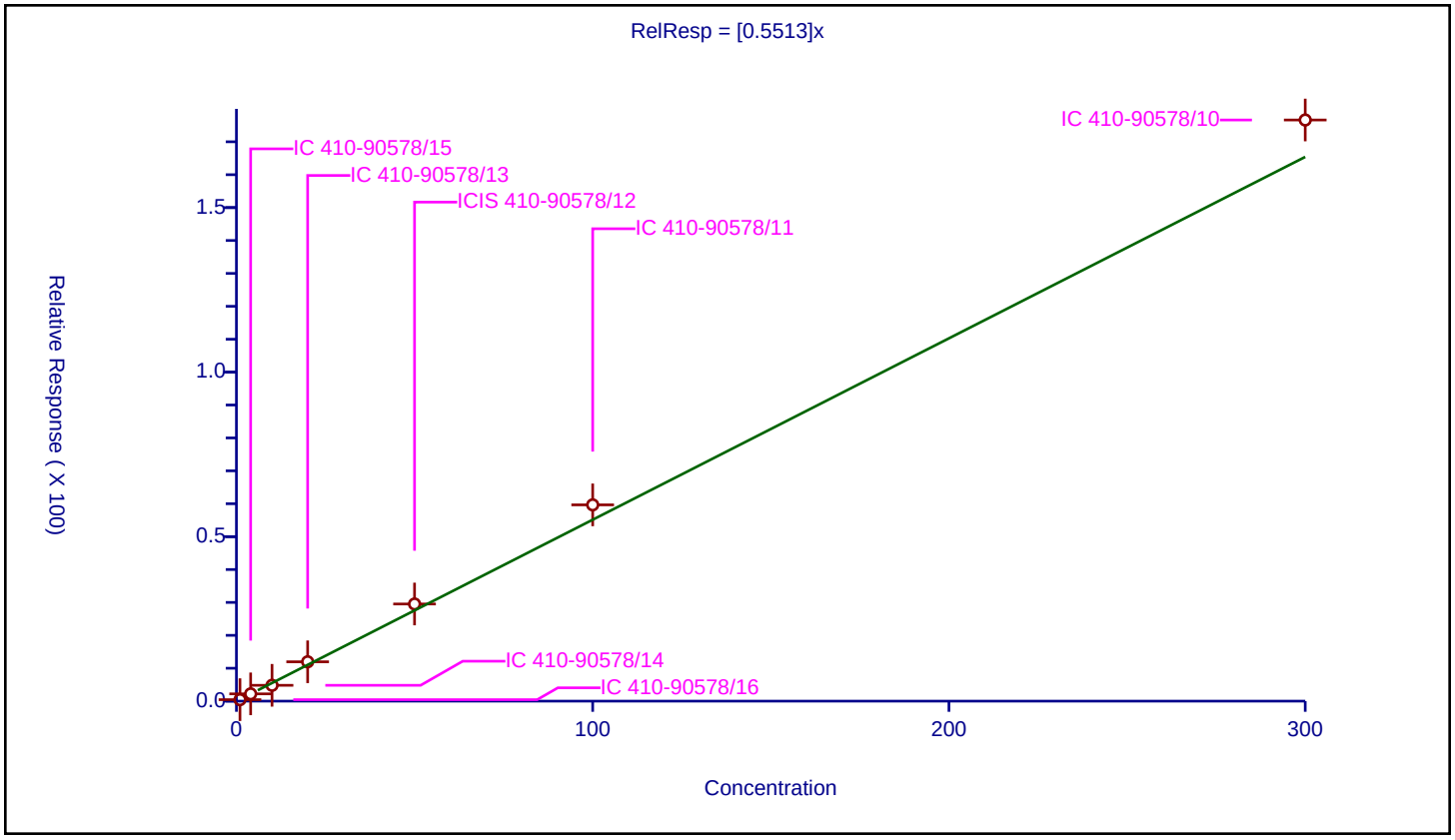
Curve Coefficients

Intercept:	0
Slope:	0.5513

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	11.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.450616	50.0	1173726.0	0.450616	Y
2	IC 410-90578/15	4.0	2.215804	50.0	1187605.0	0.553951	Y
3	IC 410-90578/14	10.0	4.811009	50.0	1169048.0	0.481101	Y
4	IC 410-90578/13	20.0	11.957084	50.0	1194752.0	0.597854	Y
5	ICIS 410-90578/12	50.0	29.527511	50.0	1201593.0	0.59055	Y
6	IC 410-90578/11	100.0	59.658461	50.0	1159574.0	0.596585	Y
7	IC 410-90578/10	300.0	176.623662	50.0	1060581.0	0.588746	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

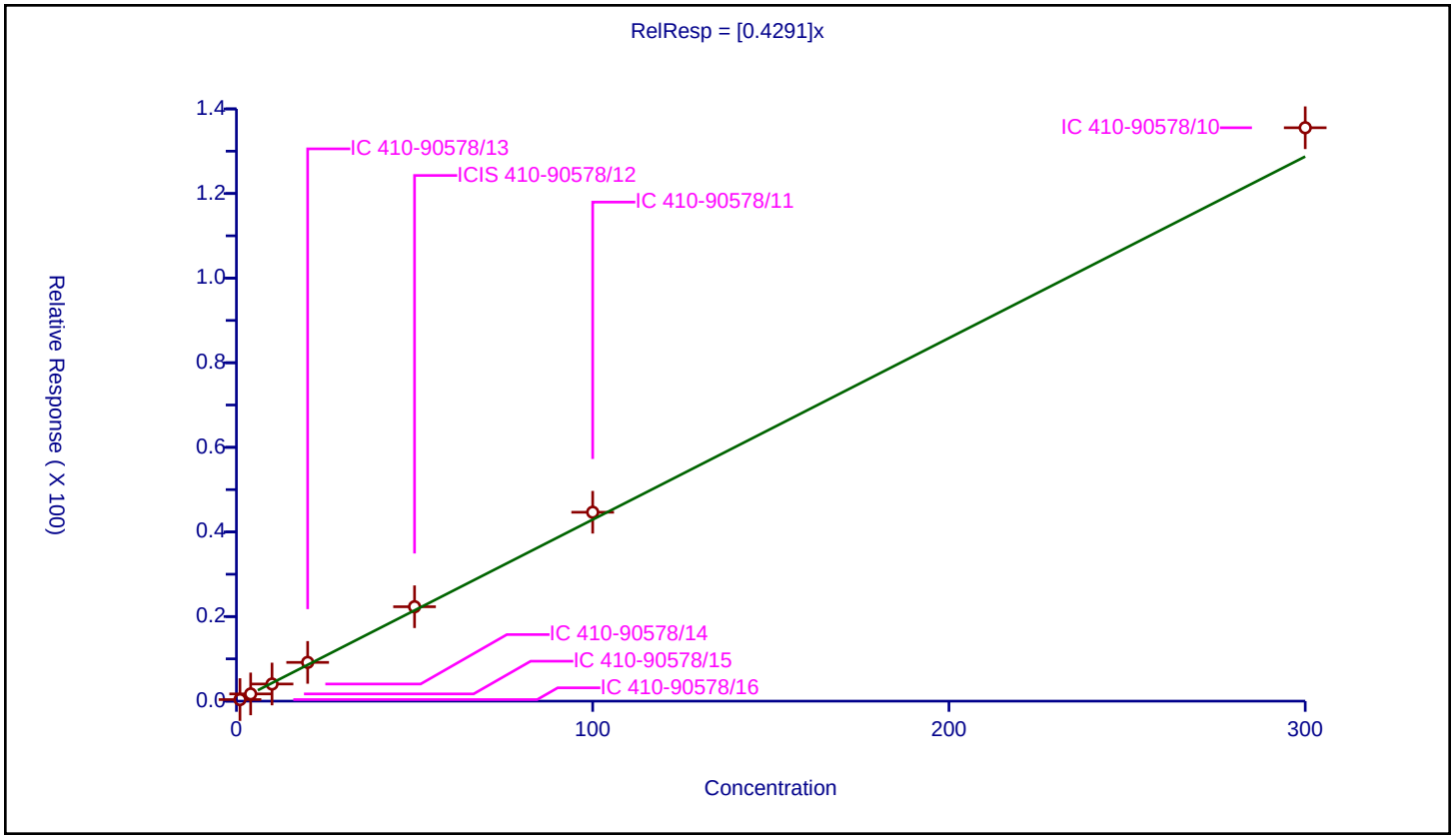
Curve Coefficients

Intercept:	0
Slope:	0.4291

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	7.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.369124	50.0	1173726.0	0.369124	Y
2	IC 410-90578/15	4.0	1.708523	50.0	1187605.0	0.427131	Y
3	IC 410-90578/14	10.0	4.048936	50.0	1169048.0	0.404894	Y
4	IC 410-90578/13	20.0	9.159097	50.0	1194752.0	0.457955	Y
5	ICIS 410-90578/12	50.0	22.318248	50.0	1201593.0	0.446365	Y
6	IC 410-90578/11	100.0	44.651268	50.0	1159574.0	0.446513	Y
7	IC 410-90578/10	300.0	135.542264	50.0	1060581.0	0.451808	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

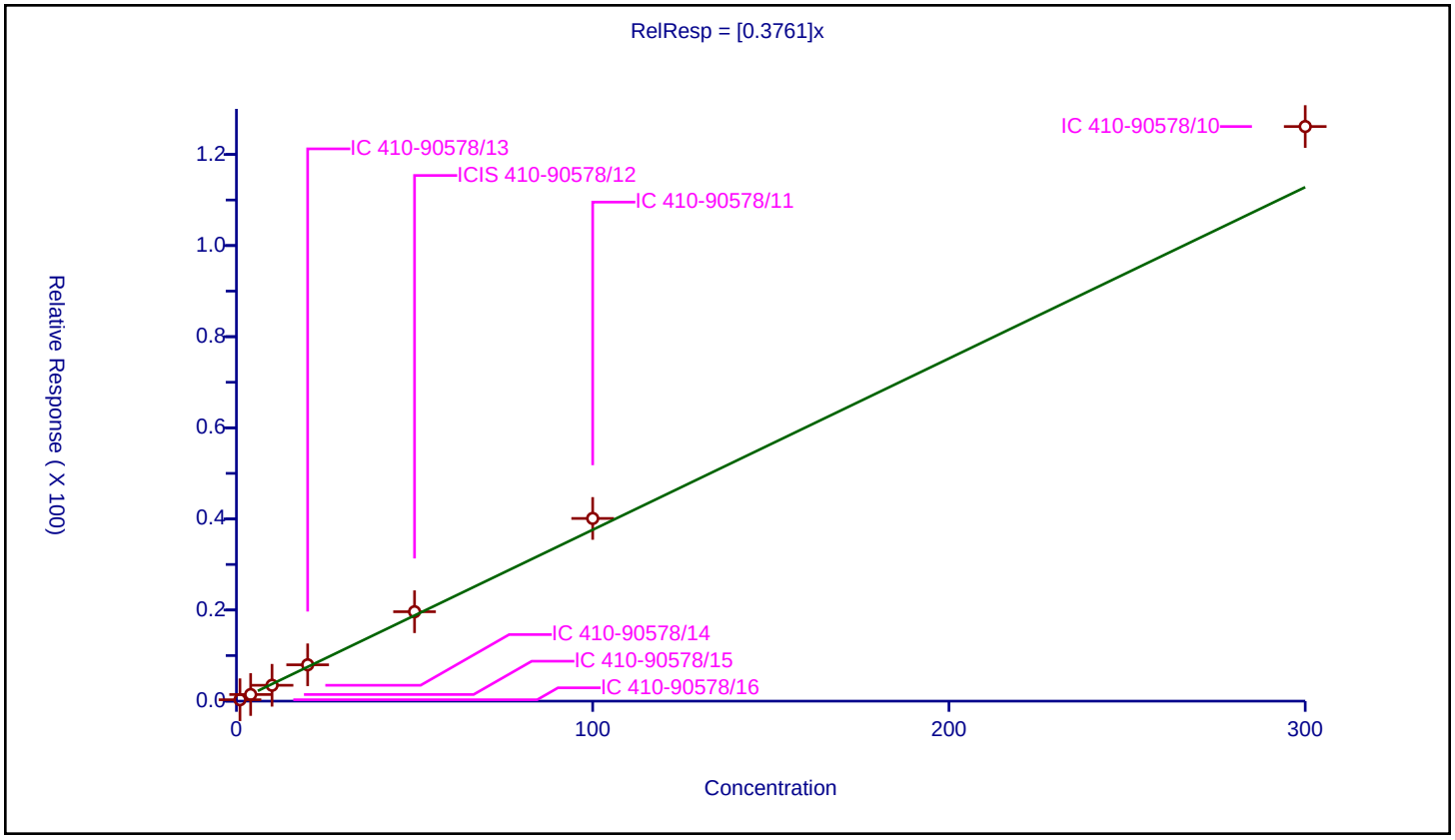
Curve Coefficients

Intercept:	0
Slope:	0.3761

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.308207	50.0	1173726.0	0.308207	Y
2	IC 410-90578/15	4.0	1.453471	50.0	1187605.0	0.363368	Y
3	IC 410-90578/14	10.0	3.478728	50.0	1169048.0	0.347873	Y
4	IC 410-90578/13	20.0	7.978476	50.0	1194752.0	0.398924	Y
5	ICIS 410-90578/12	50.0	19.631522	50.0	1201593.0	0.39263	Y
6	IC 410-90578/11	100.0	40.102917	50.0	1159574.0	0.401029	Y
7	IC 410-90578/10	300.0	126.127472	50.0	1060581.0	0.420425	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

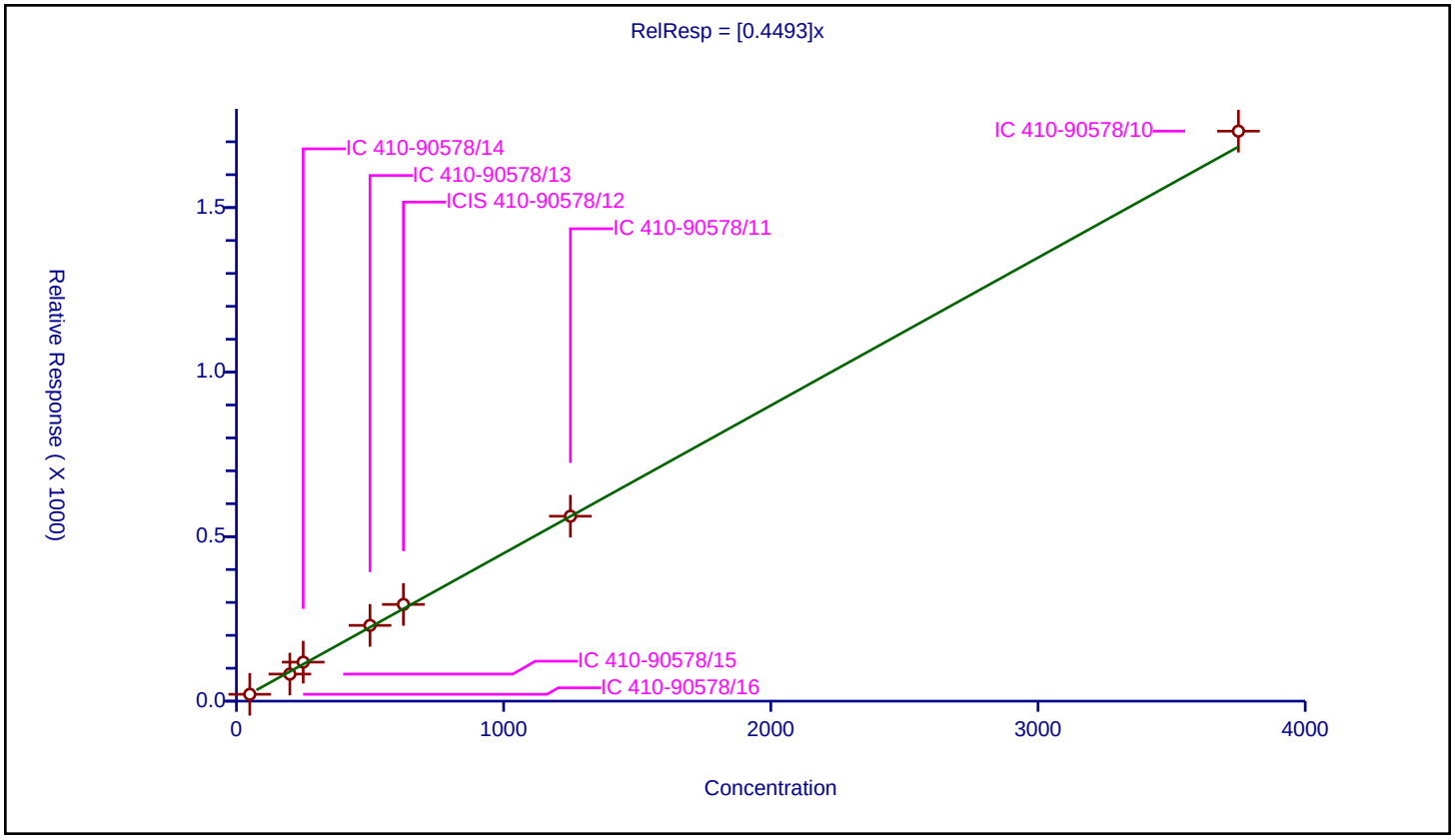
Curve Coefficients

Intercept:	0
Slope:	0.4493

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	5.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	50.0	20.86425	250.0	442048.0	0.417285	Y
2	IC 410-90578/15	200.0	82.243737	250.0	464239.0	0.411219	Y
3	IC 410-90578/14	250.0	118.51641	250.0	465425.0	0.474066	Y
4	IC 410-90578/13	500.0	230.233368	250.0	472387.0	0.460467	Y
5	ICIS 410-90578/12	625.0	294.000598	250.0	464613.0	0.470401	Y
6	IC 410-90578/11	1250.0	562.072002	250.0	436626.0	0.449658	Y
7	IC 410-90578/10	3750.0	1732.325328	250.0	356612.0	0.461953	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

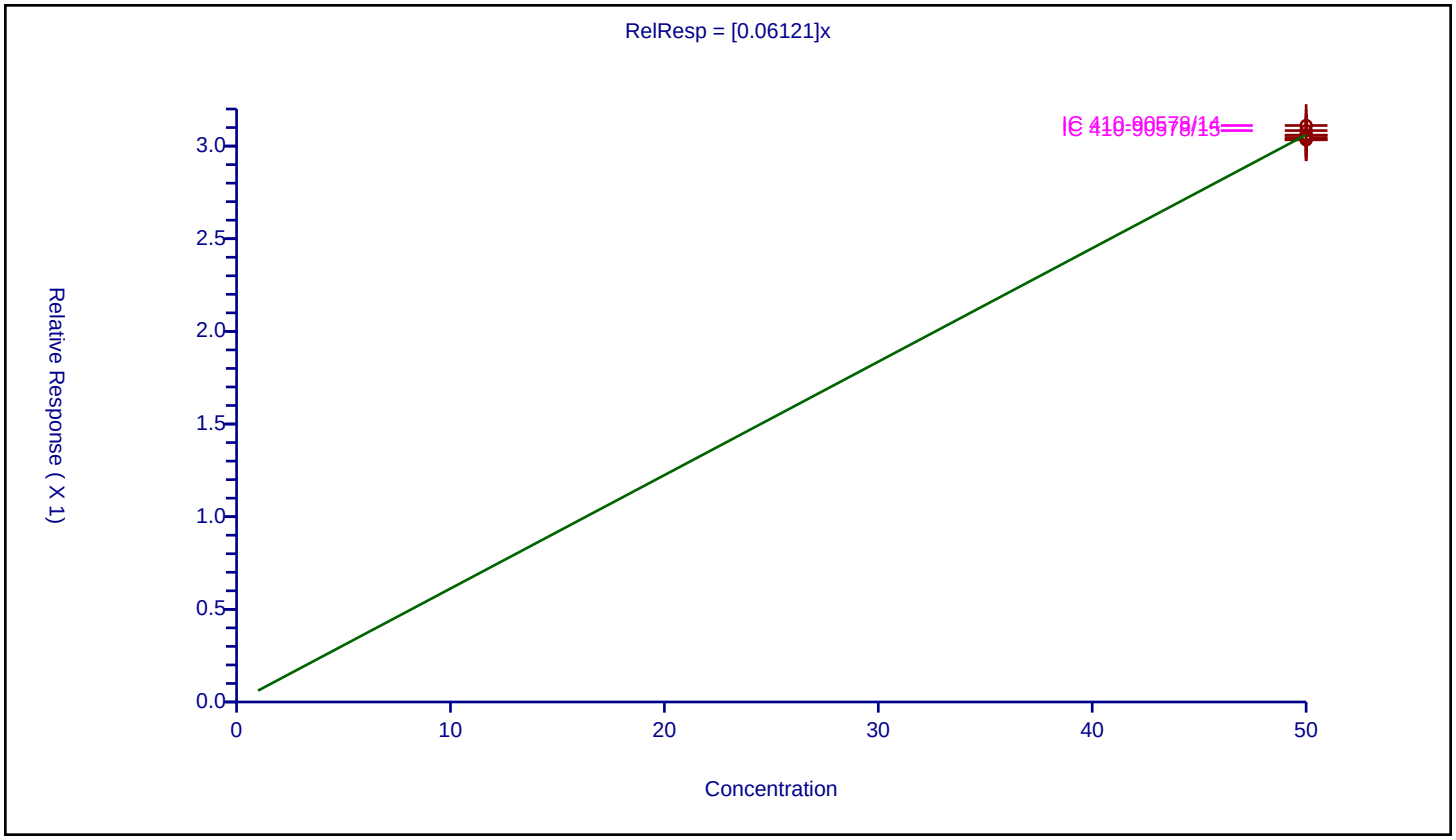
Curve Coefficients

Intercept:	0
Slope:	0.06121

Error Coefficients

Standard Error:	77000
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 410-90578/10	50.0	3.033762	50.0	1060581.0	0.060675	Y
2	IC 410-90578/11	50.0	3.058149	50.0	1159574.0	0.061163	Y
3	ICIS 410-90578/12	50.0	3.044375	50.0	1201593.0	0.060888	Y
4	IC 410-90578/13	50.0	3.059129	50.0	1194752.0	0.061183	Y
5	IC 410-90578/14	50.0	3.110993	50.0	1169048.0	0.06222	Y
6	IC 410-90578/15	50.0	3.083517	50.0	1187605.0	0.06167	Y
7	IC 410-90578/16	50.0	3.035206	50.0	1173726.0	0.060704	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

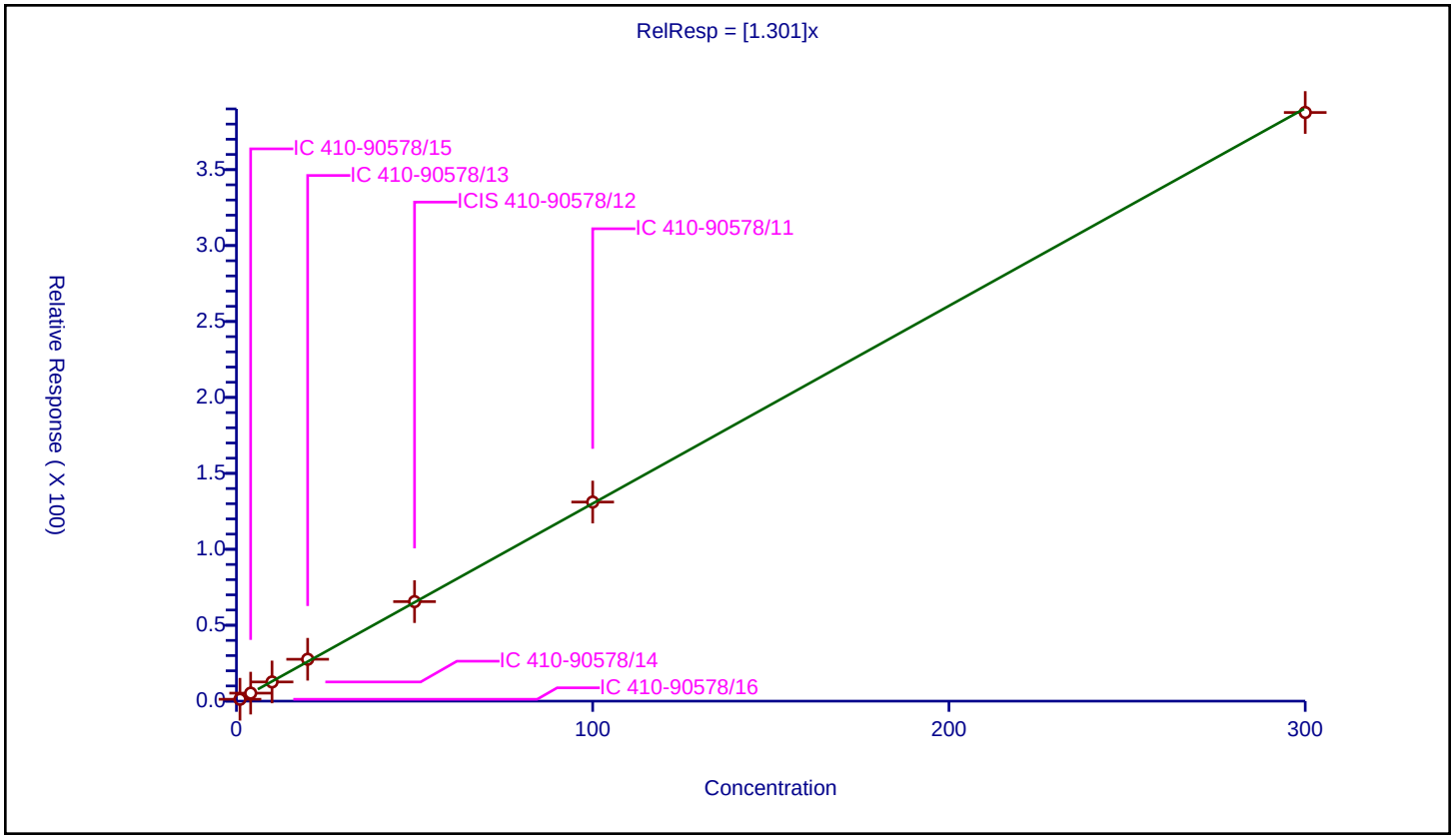
Curve Coefficients

Intercept:	0
Slope:	1.301

Error Coefficients

Standard Error:	3650000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.238364	50.0	1173726.0	1.238364	Y
2	IC 410-90578/15	4.0	5.261766	50.0	1187605.0	1.315442	Y
3	IC 410-90578/14	10.0	12.630063	50.0	1169048.0	1.263006	Y
4	IC 410-90578/13	20.0	27.58652	50.0	1194752.0	1.379326	Y
5	ICIS 410-90578/12	50.0	65.534378	50.0	1201593.0	1.310688	Y
6	IC 410-90578/11	100.0	131.115004	50.0	1159574.0	1.31115	Y
7	IC 410-90578/10	300.0	387.626546	50.0	1060581.0	1.292088	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

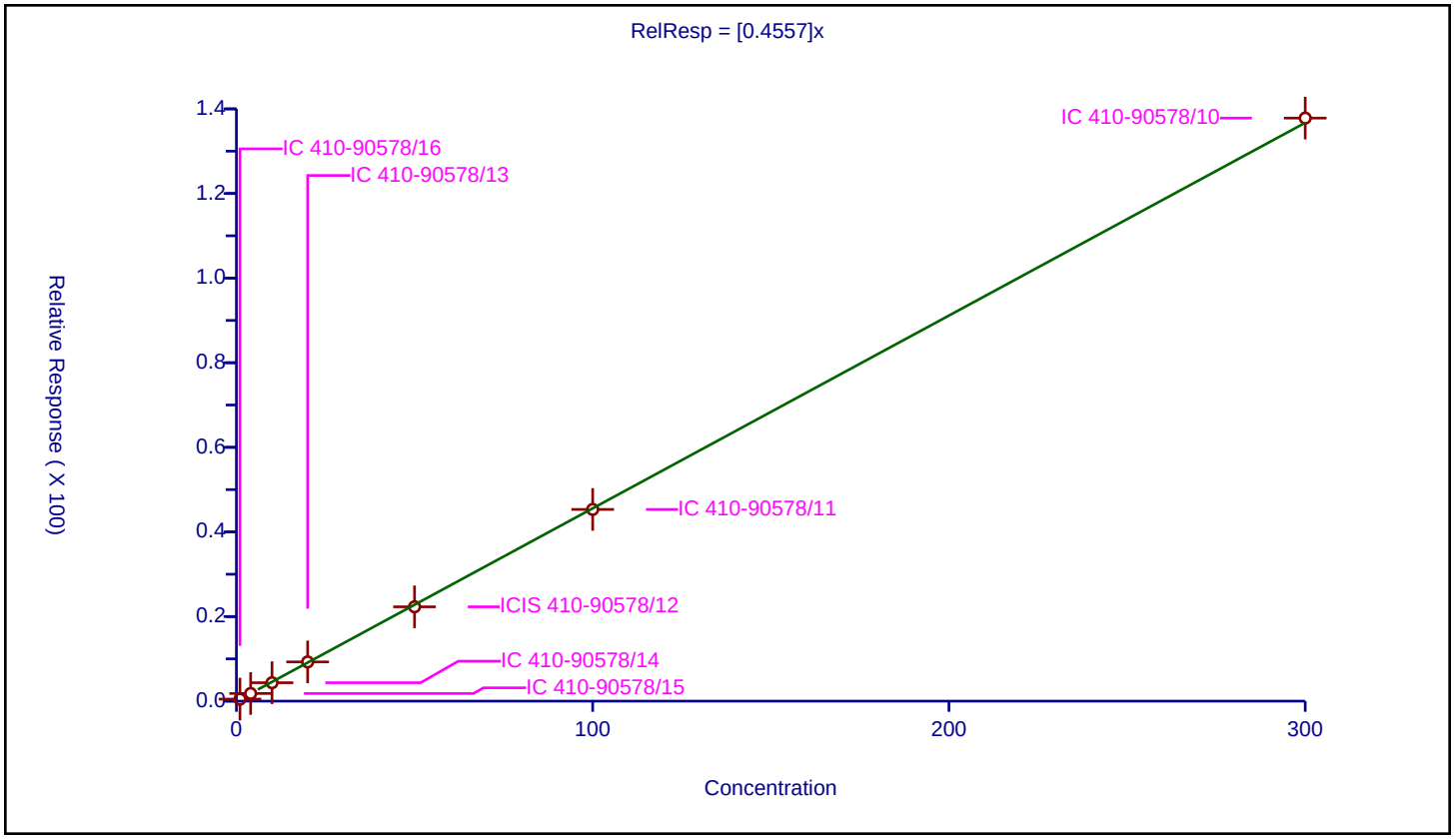
Curve Coefficients

Intercept:	0
Slope:	0.4557

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.479499	50.0	1173726.0	0.479499	Y
2	IC 410-90578/15	4.0	1.811461	50.0	1187605.0	0.452865	Y
3	IC 410-90578/14	10.0	4.355895	50.0	1169048.0	0.435589	Y
4	IC 410-90578/13	20.0	9.270501	50.0	1194752.0	0.463525	Y
5	ICIS 410-90578/12	50.0	22.300022	50.0	1201593.0	0.446	Y
6	IC 410-90578/11	100.0	45.317332	50.0	1159574.0	0.453173	Y
7	IC 410-90578/10	300.0	137.822477	50.0	1060581.0	0.459408	Y



Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

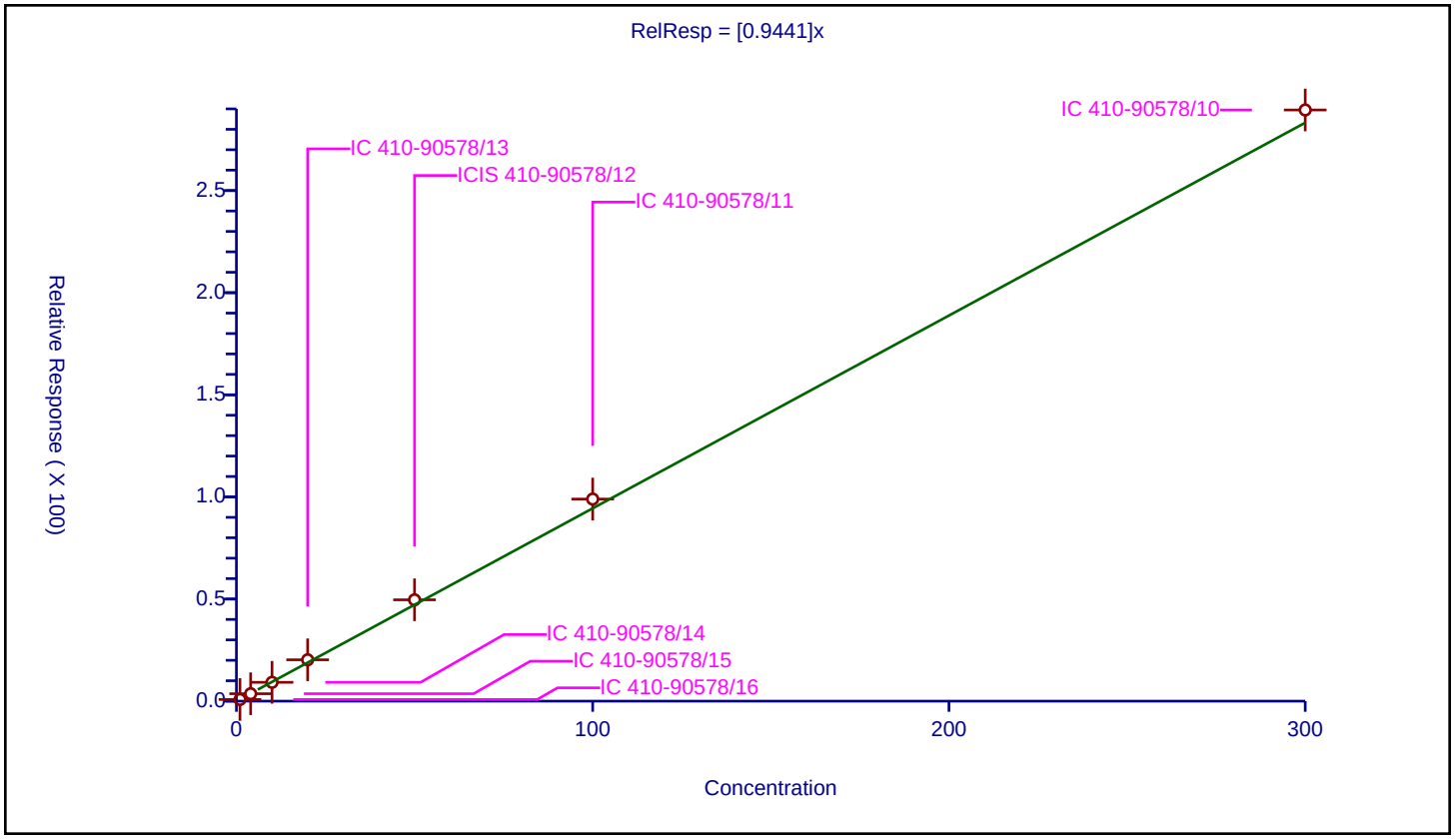
Curve Coefficients

Intercept:	0
Slope:	0.9441

Error Coefficients

Standard Error:	2730000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.820208	50.0	1173726.0	0.820208	Y
2	IC 410-90578/15	4.0	3.634415	50.0	1187605.0	0.908604	Y
3	IC 410-90578/14	10.0	9.208262	50.0	1169048.0	0.920826	Y
4	IC 410-90578/13	20.0	20.241146	50.0	1194752.0	1.012057	Y
5	ICIS 410-90578/12	50.0	49.617508	50.0	1201593.0	0.99235	Y
6	IC 410-90578/11	100.0	98.945992	50.0	1159574.0	0.98946	Y
7	IC 410-90578/10	300.0	289.465774	50.0	1060581.0	0.964886	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

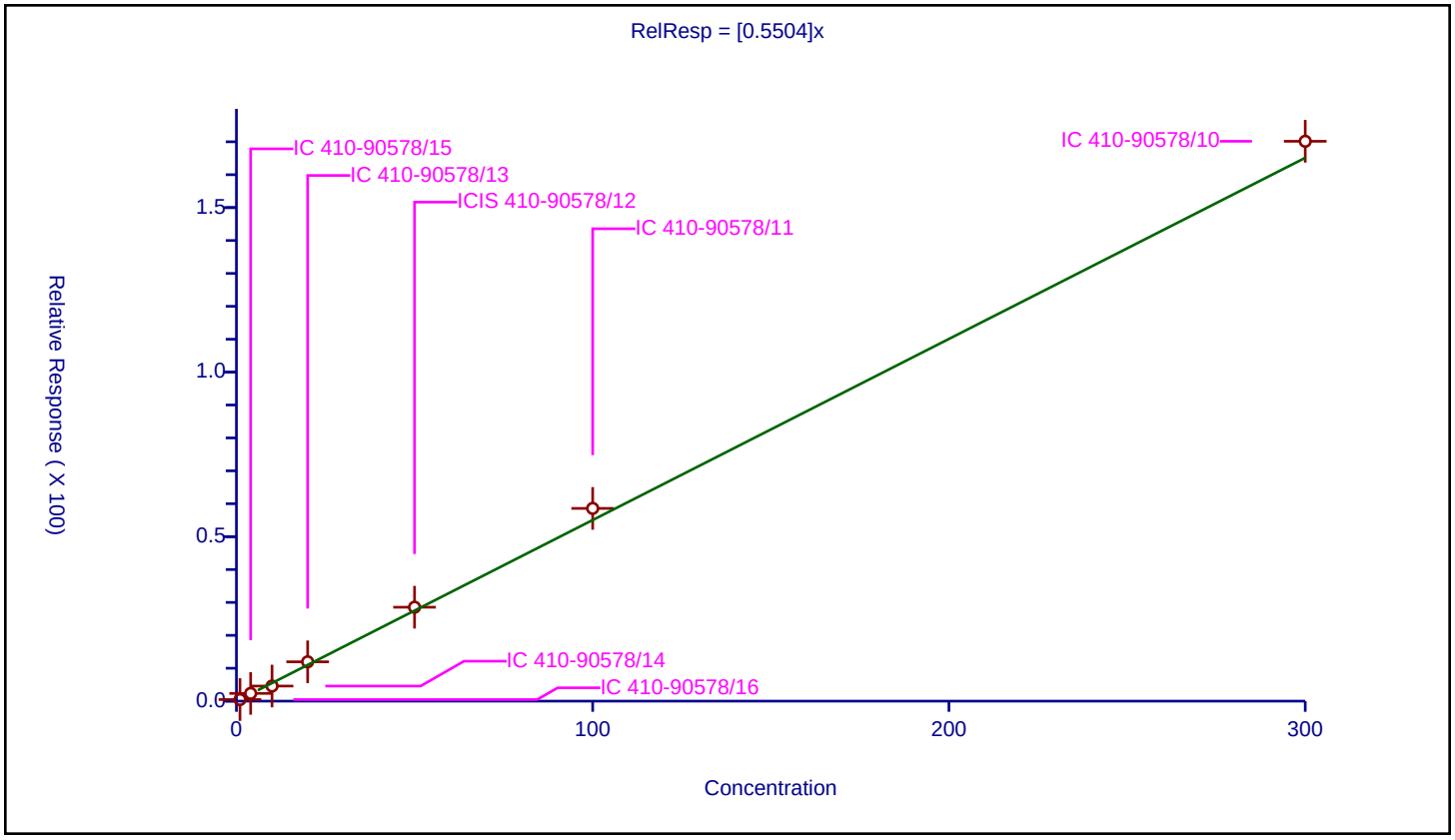
Curve Coefficients

Intercept:	0
Slope:	0.5504

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	10.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.484483	50.0	1173726.0	0.484483	Y
2	IC 410-90578/15	4.0	2.352297	50.0	1187605.0	0.588074	Y
3	IC 410-90578/14	10.0	4.588819	50.0	1169048.0	0.458882	Y
4	IC 410-90578/13	20.0	11.949886	50.0	1194752.0	0.597494	Y
5	ICIS 410-90578/12	50.0	28.548102	50.0	1201593.0	0.570962	Y
6	IC 410-90578/11	100.0	58.576081	50.0	1159574.0	0.585761	Y
7	IC 410-90578/10	300.0	170.160601	50.0	1060581.0	0.567202	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

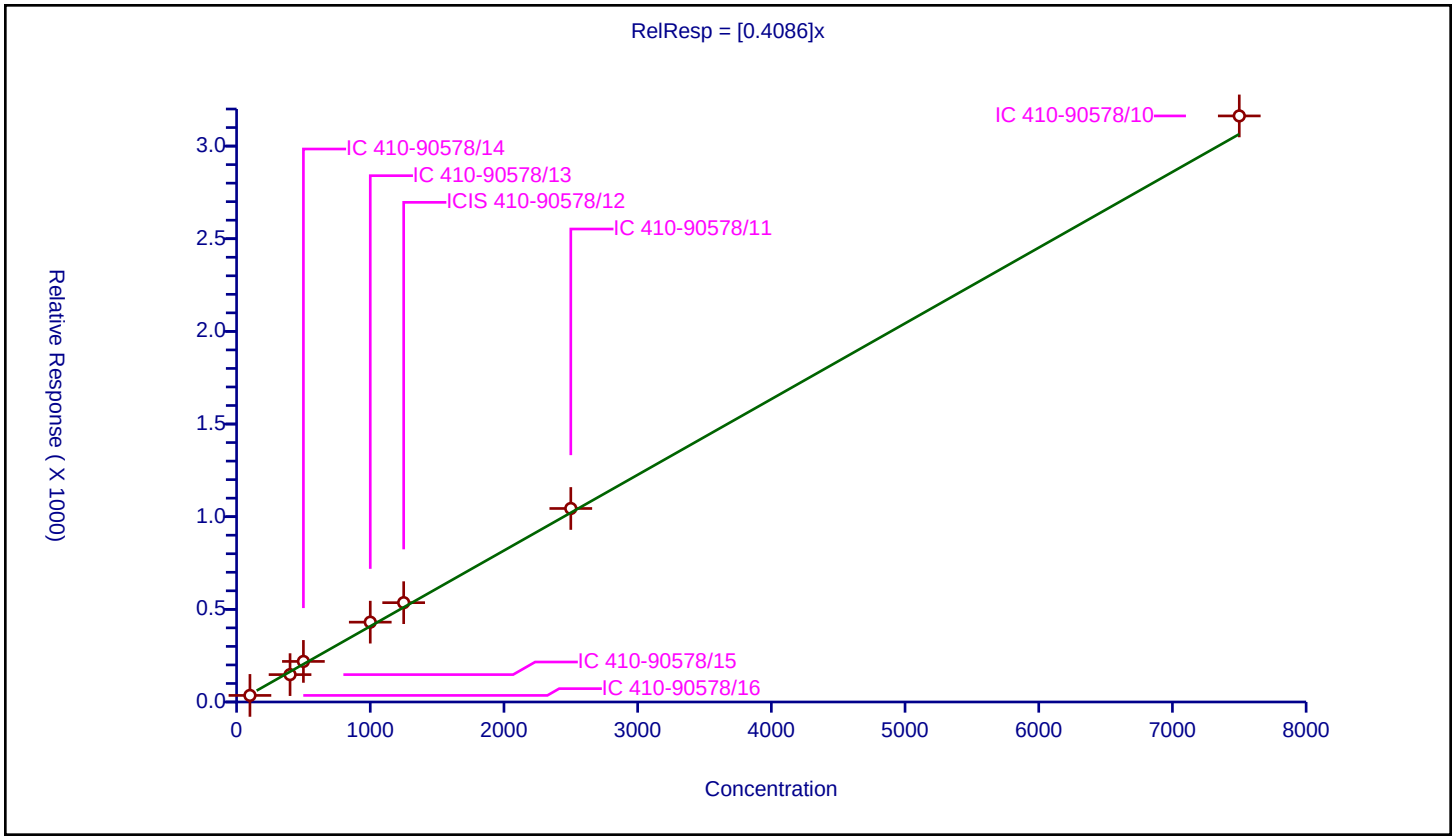
Curve Coefficients

Intercept:	0
Slope:	0.4086

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	8.1
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	100.0	35.422624	250.0	442048.0	0.354226	Y
2	IC 410-90578/15	400.0	147.678782	250.0	464239.0	0.369197	Y
3	IC 410-90578/14	500.0	218.898856	250.0	465425.0	0.437798	Y
4	IC 410-90578/13	1000.0	430.846954	250.0	472387.0	0.430847	Y
5	ICIS 410-90578/12	1250.0	536.054738	250.0	464613.0	0.428844	Y
6	IC 410-90578/11	2500.0	1044.274161	250.0	436626.0	0.41771	Y
7	IC 410-90578/10	7500.0	3162.783361	250.0	356612.0	0.421704	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

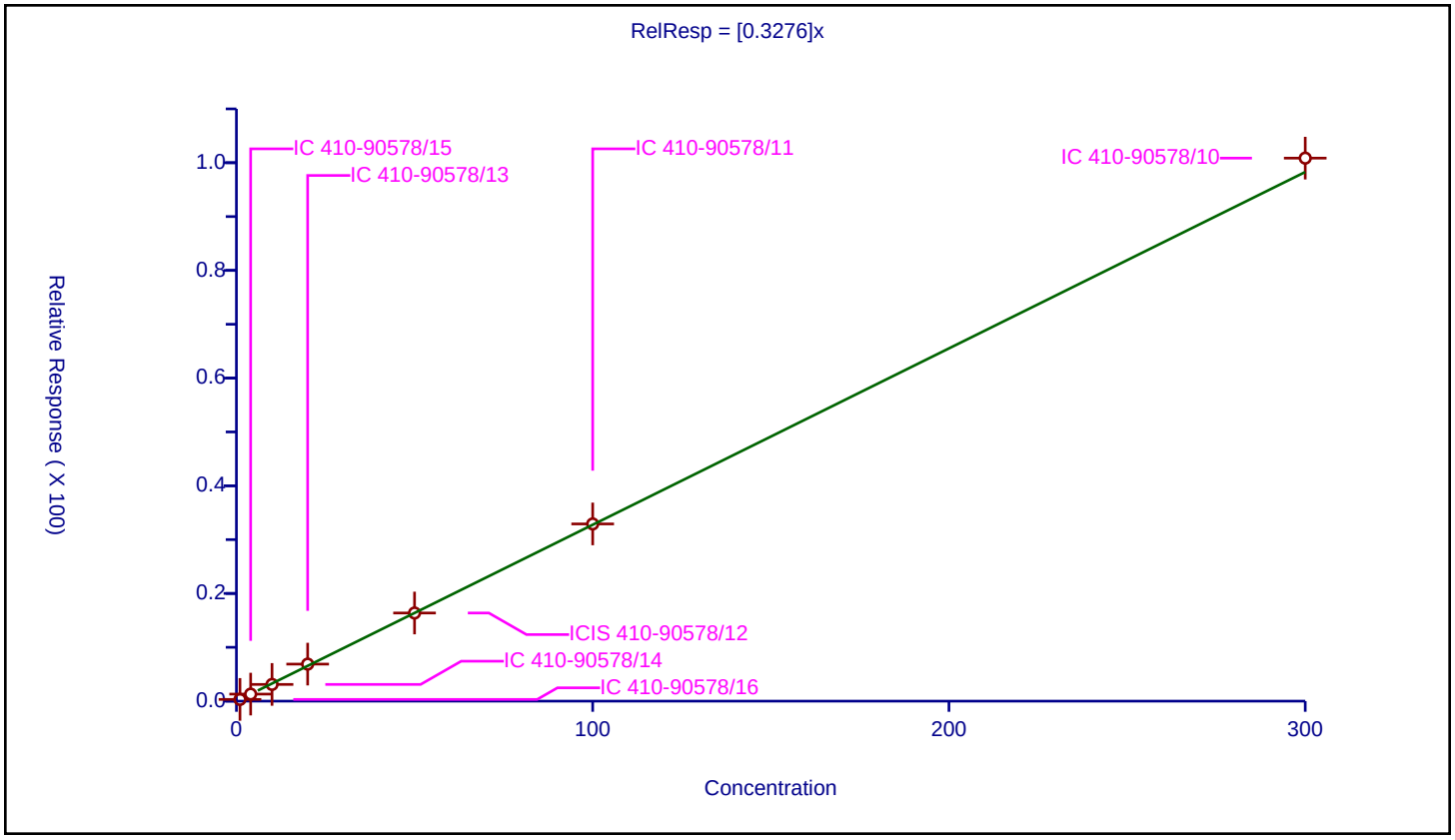
Curve Coefficients

Intercept:	0
Slope:	0.3276

Error Coefficients

Standard Error:	944000
Relative Standard Error:	3.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.31843	50.0	1173726.0	0.31843	Y
2	IC 410-90578/15	4.0	1.310495	50.0	1187605.0	0.327624	Y
3	IC 410-90578/14	10.0	3.102567	50.0	1169048.0	0.310257	Y
4	IC 410-90578/13	20.0	6.87875	50.0	1194752.0	0.343937	Y
5	ICIS 410-90578/12	50.0	16.37264	50.0	1201593.0	0.327453	Y
6	IC 410-90578/11	100.0	32.913596	50.0	1159574.0	0.329136	Y
7	IC 410-90578/10	300.0	100.852457	50.0	1060581.0	0.336175	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

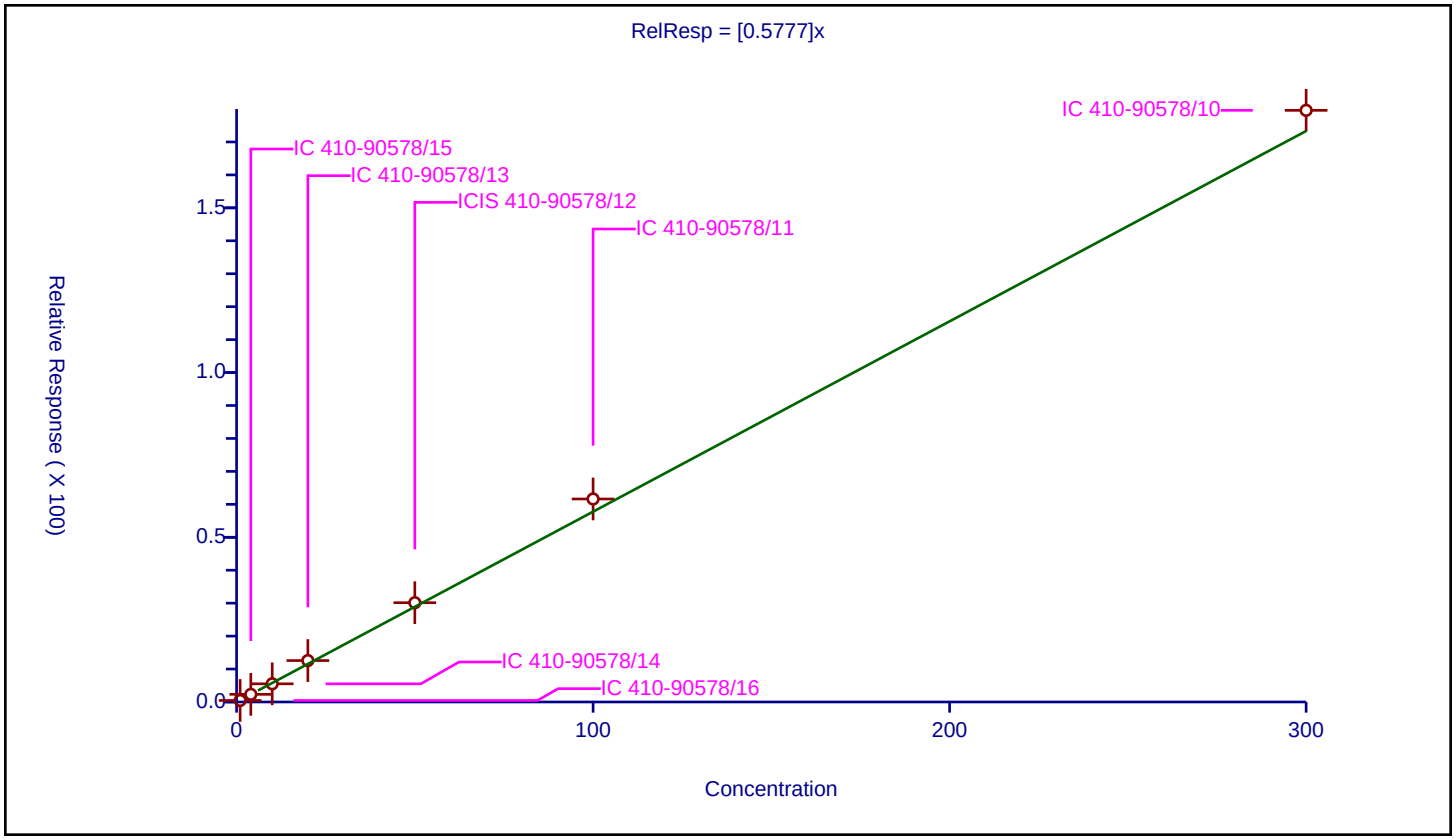
Curve Coefficients

Intercept:	0
Slope:	0.5777

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	9.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.46527	50.0	1173726.0	0.46527	Y
2	IC 410-90578/15	4.0	2.3219	50.0	1187605.0	0.580475	Y
3	IC 410-90578/14	10.0	5.520389	50.0	1169048.0	0.552039	Y
4	IC 410-90578/13	20.0	12.575162	50.0	1194752.0	0.628758	Y
5	ICIS 410-90578/12	50.0	30.140322	50.0	1201593.0	0.602806	Y
6	IC 410-90578/11	100.0	61.621466	50.0	1159574.0	0.616215	Y
7	IC 410-90578/10	300.0	179.591422	50.0	1060581.0	0.598638	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

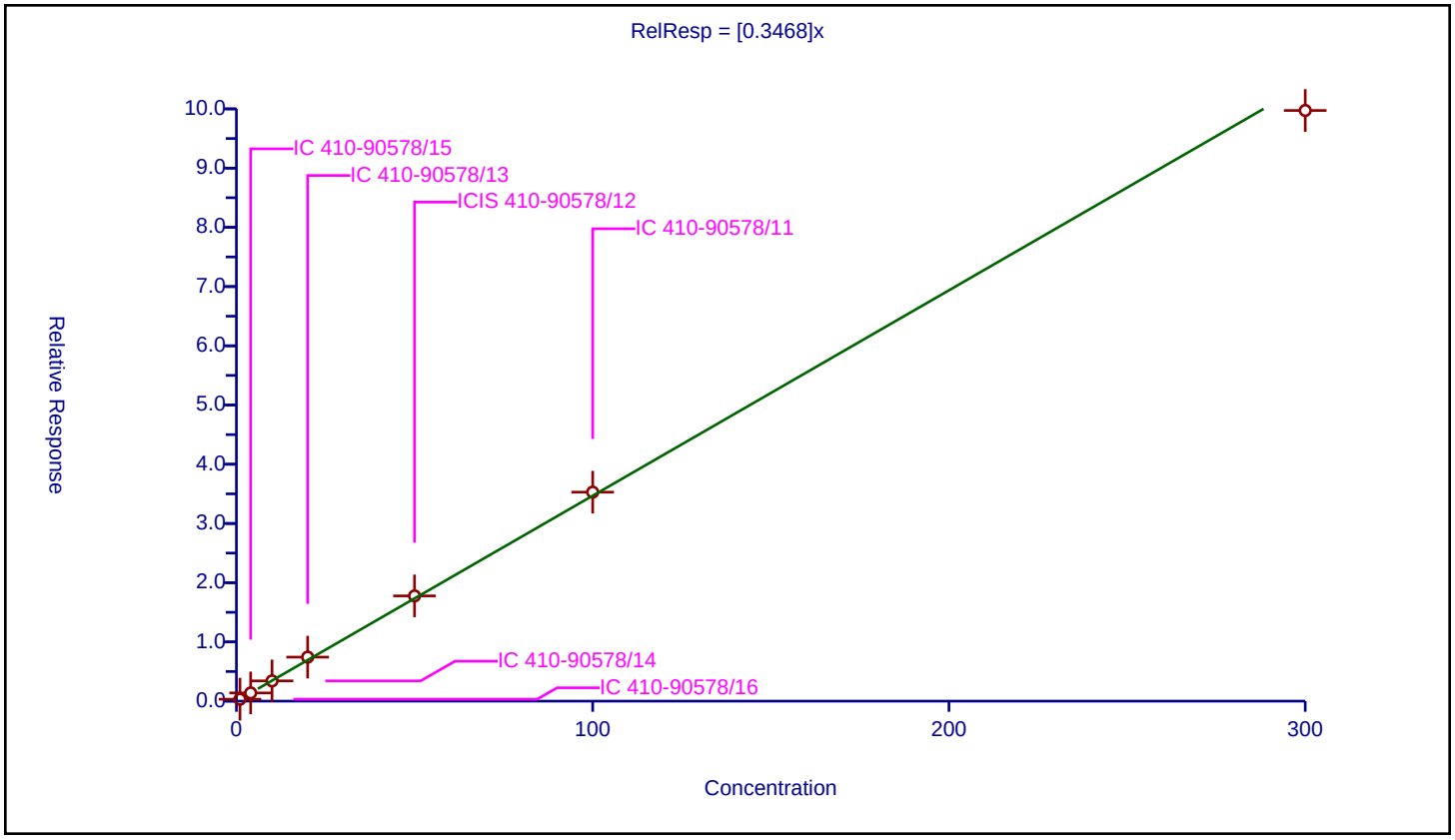
Curve Coefficients

Intercept:	0
Slope:	0.3468

Error Coefficients

Standard Error:	946000
Relative Standard Error:	4.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.326737	50.0	1173726.0	0.326737	Y
2	IC 410-90578/15	4.0	1.387877	50.0	1187605.0	0.346969	Y
3	IC 410-90578/14	10.0	3.418423	50.0	1169048.0	0.341842	Y
4	IC 410-90578/13	20.0	7.432463	50.0	1194752.0	0.371623	Y
5	ICIS 410-90578/12	50.0	17.769578	50.0	1201593.0	0.355392	Y
6	IC 410-90578/11	100.0	35.288692	50.0	1159574.0	0.352887	Y
7	IC 410-90578/10	300.0	99.728639	50.0	1060581.0	0.332429	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

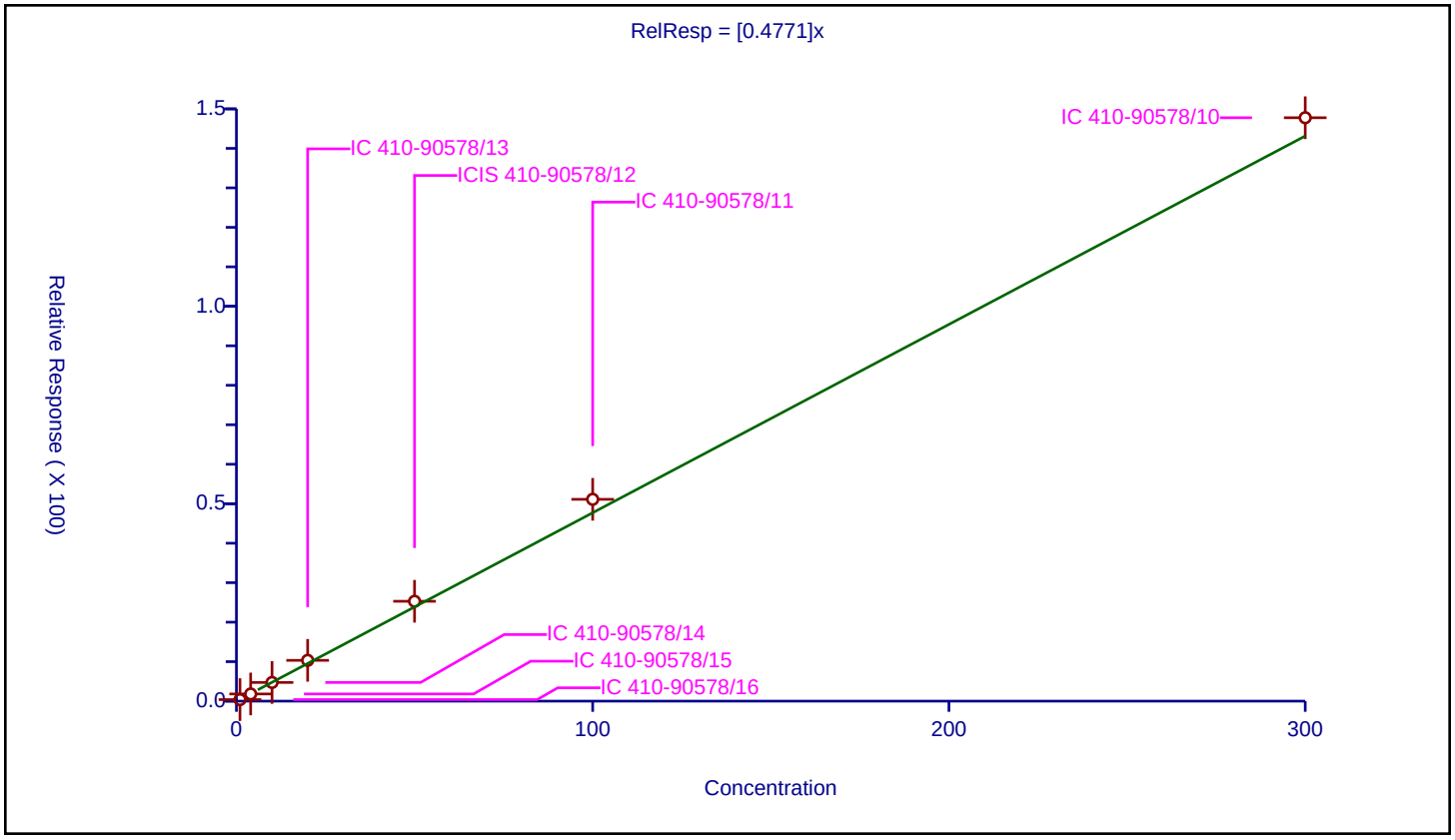
Curve Coefficients

Intercept:	0
Slope:	0.4771

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	9.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.386717	50.0	1173726.0	0.386717	Y
2	IC 410-90578/15	4.0	1.815629	50.0	1187605.0	0.453907	Y
3	IC 410-90578/14	10.0	4.728933	50.0	1169048.0	0.472893	Y
4	IC 410-90578/13	20.0	10.331726	50.0	1194752.0	0.516586	Y
5	ICIS 410-90578/12	50.0	25.292258	50.0	1201593.0	0.505845	Y
6	IC 410-90578/11	100.0	51.117134	50.0	1159574.0	0.511171	Y
7	IC 410-90578/10	300.0	147.762453	50.0	1060581.0	0.492542	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

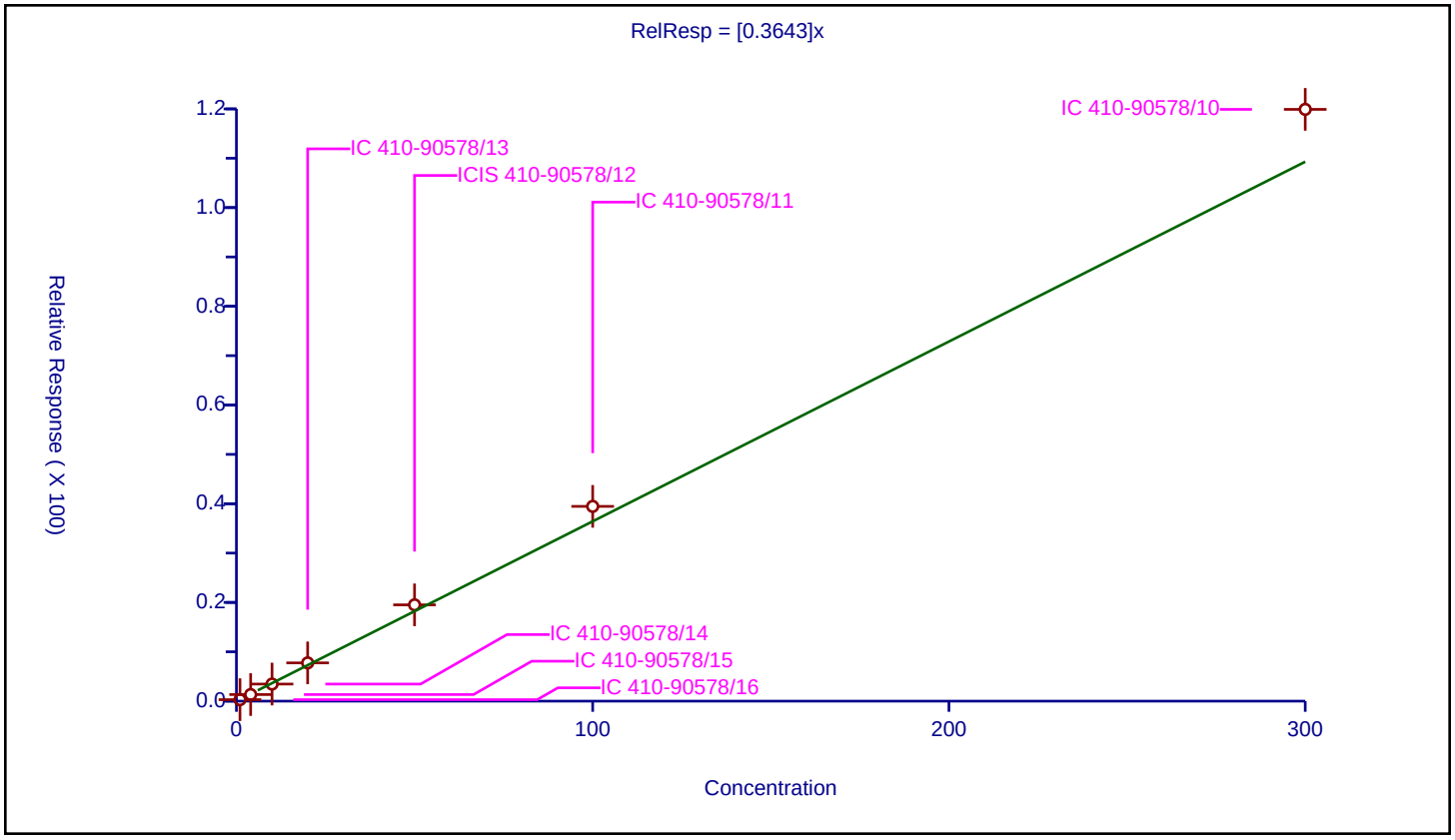
Curve Coefficients

Intercept:	0
Slope:	0.3643

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	10.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.297855	50.0	1173726.0	0.297855	Y
2	IC 410-90578/15	4.0	1.336934	50.0	1187605.0	0.334234	Y
3	IC 410-90578/14	10.0	3.460594	50.0	1169048.0	0.346059	Y
4	IC 410-90578/13	20.0	7.75027	50.0	1194752.0	0.387513	Y
5	ICIS 410-90578/12	50.0	19.512306	50.0	1201593.0	0.390246	Y
6	IC 410-90578/11	100.0	39.461302	50.0	1159574.0	0.394613	Y
7	IC 410-90578/10	300.0	119.904845	50.0	1060581.0	0.399683	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

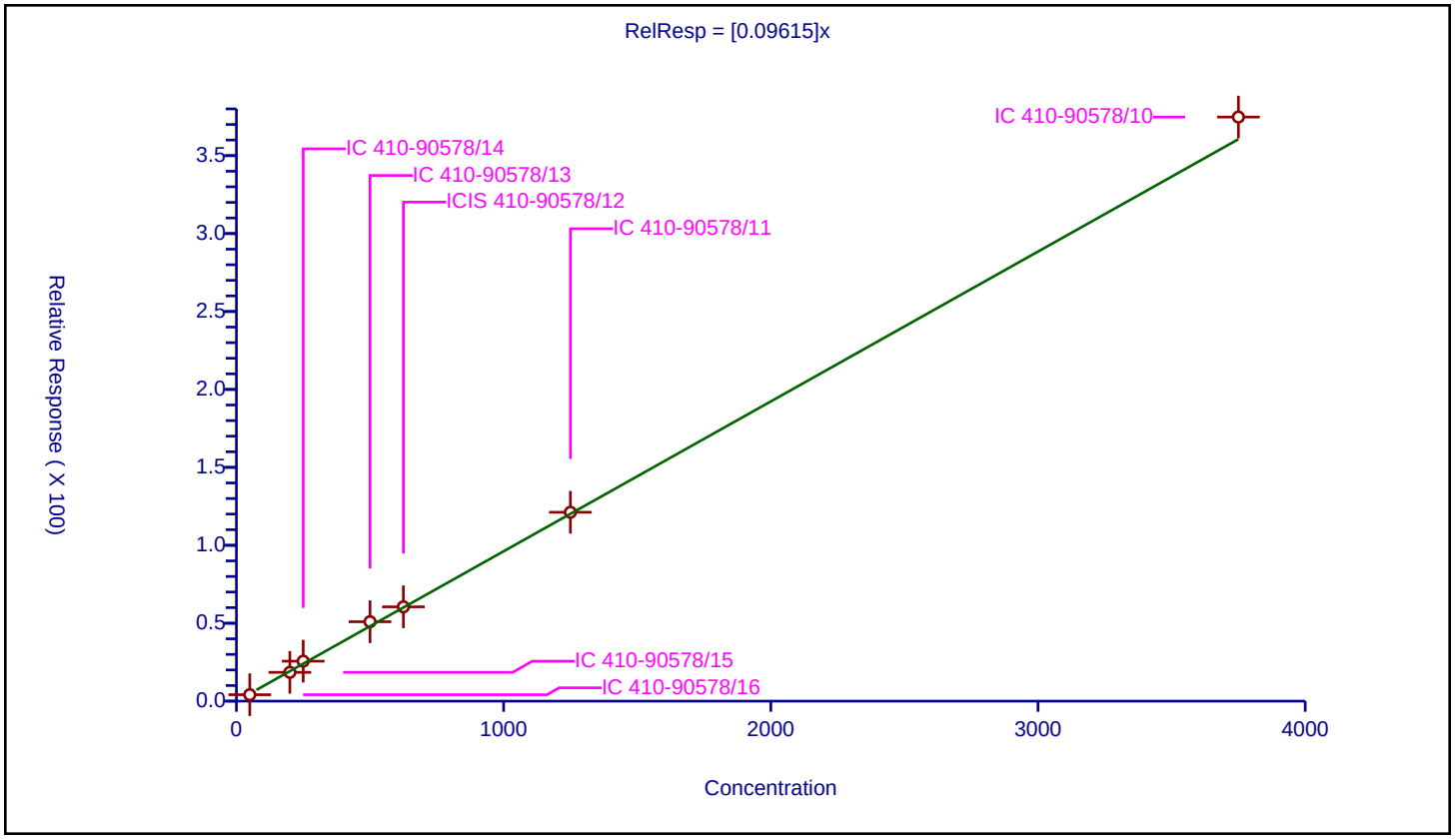
Curve Coefficients

Intercept:	0
Slope:	0.09615

Error Coefficients

Standard Error:	243000
Relative Standard Error:	7.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	50.0	4.122855	250.0	442048.0	0.082457	Y
2	IC 410-90578/15	200.0	18.480244	250.0	464239.0	0.092401	Y
3	IC 410-90578/14	250.0	25.640006	250.0	465425.0	0.10256	Y
4	IC 410-90578/13	500.0	50.958748	250.0	472387.0	0.101917	Y
5	ICIS 410-90578/12	625.0	60.511114	250.0	464613.0	0.096818	Y
6	IC 410-90578/11	1250.0	121.190103	250.0	436626.0	0.096952	Y
7	IC 410-90578/10	3750.0	374.765852	250.0	356612.0	0.099938	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

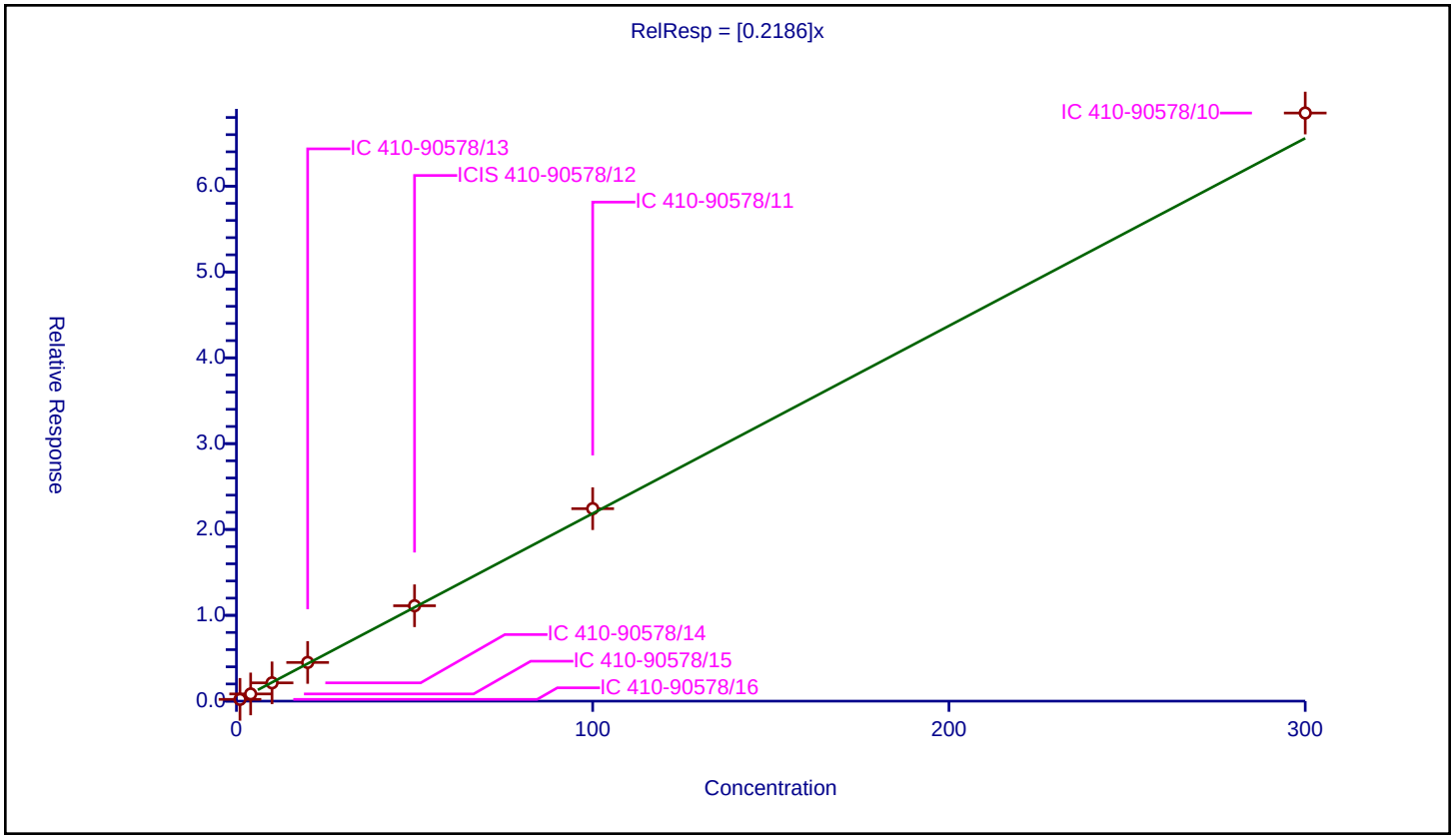
Curve Coefficients

Intercept:	0
Slope:	0.2186

Error Coefficients

Standard Error:	641000
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 410-90578/16	1.0	0.207203	50.0	1173726.0	0.207203	Y
2	IC 410-90578/15	4.0	0.838242	50.0	1187605.0	0.20956	Y
3	IC 410-90578/14	10.0	2.131649	50.0	1169048.0	0.213165	Y
4	IC 410-90578/13	20.0	4.508341	50.0	1194752.0	0.225417	Y
5	ICIS 410-90578/12	50.0	11.112373	50.0	1201593.0	0.222247	Y
6	IC 410-90578/11	100.0	22.425261	50.0	1159574.0	0.224253	Y
7	IC 410-90578/10	300.0	68.51966	50.0	1060581.0	0.228399	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

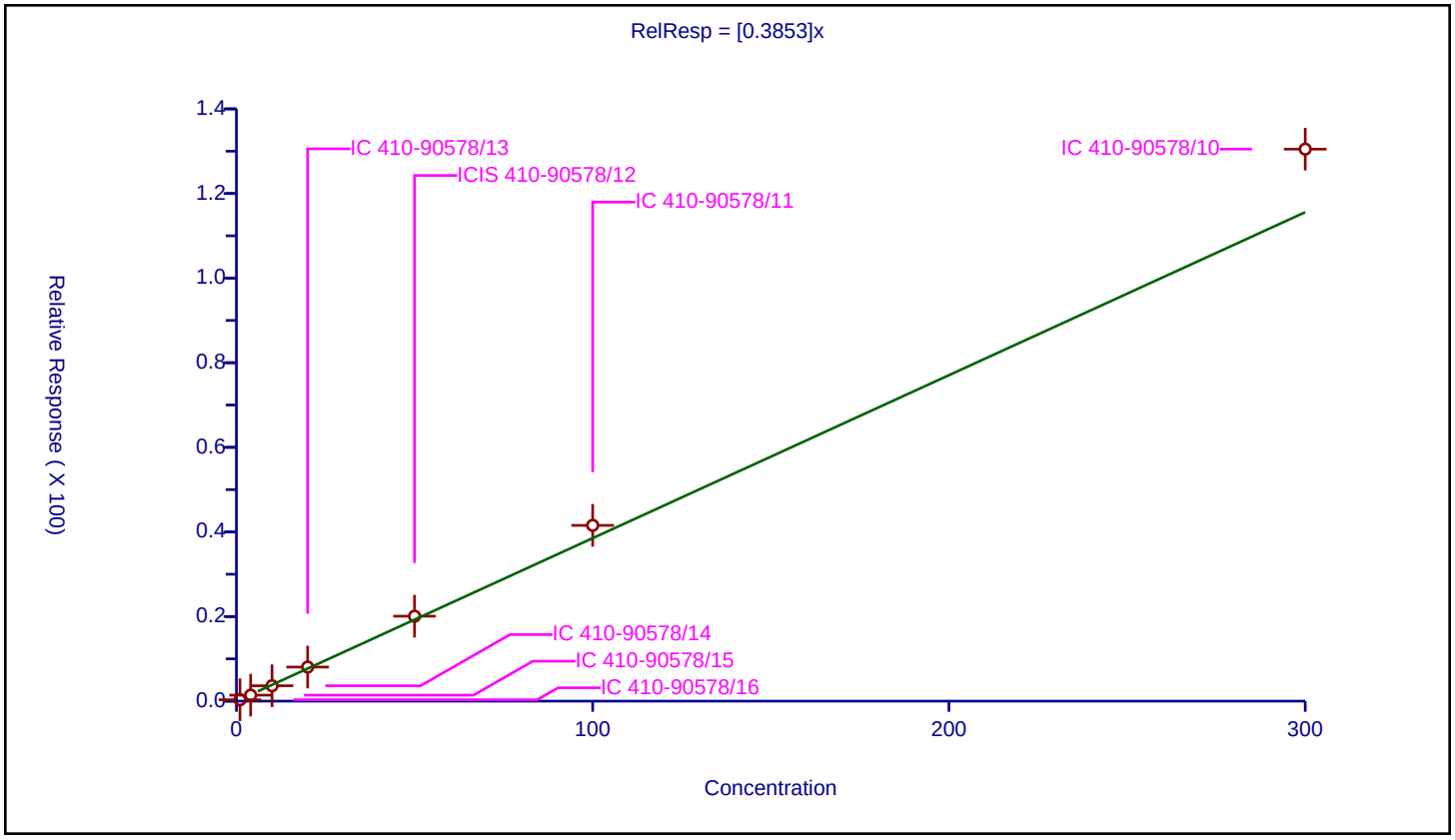
Curve Coefficients

Intercept:	0
Slope:	0.3853

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.325246	50.0	1173726.0	0.325246	Y
2	IC 410-90578/15	4.0	1.413054	50.0	1187605.0	0.353264	Y
3	IC 410-90578/14	10.0	3.635522	50.0	1169048.0	0.363552	Y
4	IC 410-90578/13	20.0	8.052843	50.0	1194752.0	0.402642	Y
5	ICIS 410-90578/12	50.0	20.083381	50.0	1201593.0	0.401668	Y
6	IC 410-90578/11	100.0	41.547111	50.0	1159574.0	0.415471	Y
7	IC 410-90578/10	300.0	130.483952	50.0	1060581.0	0.434947	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

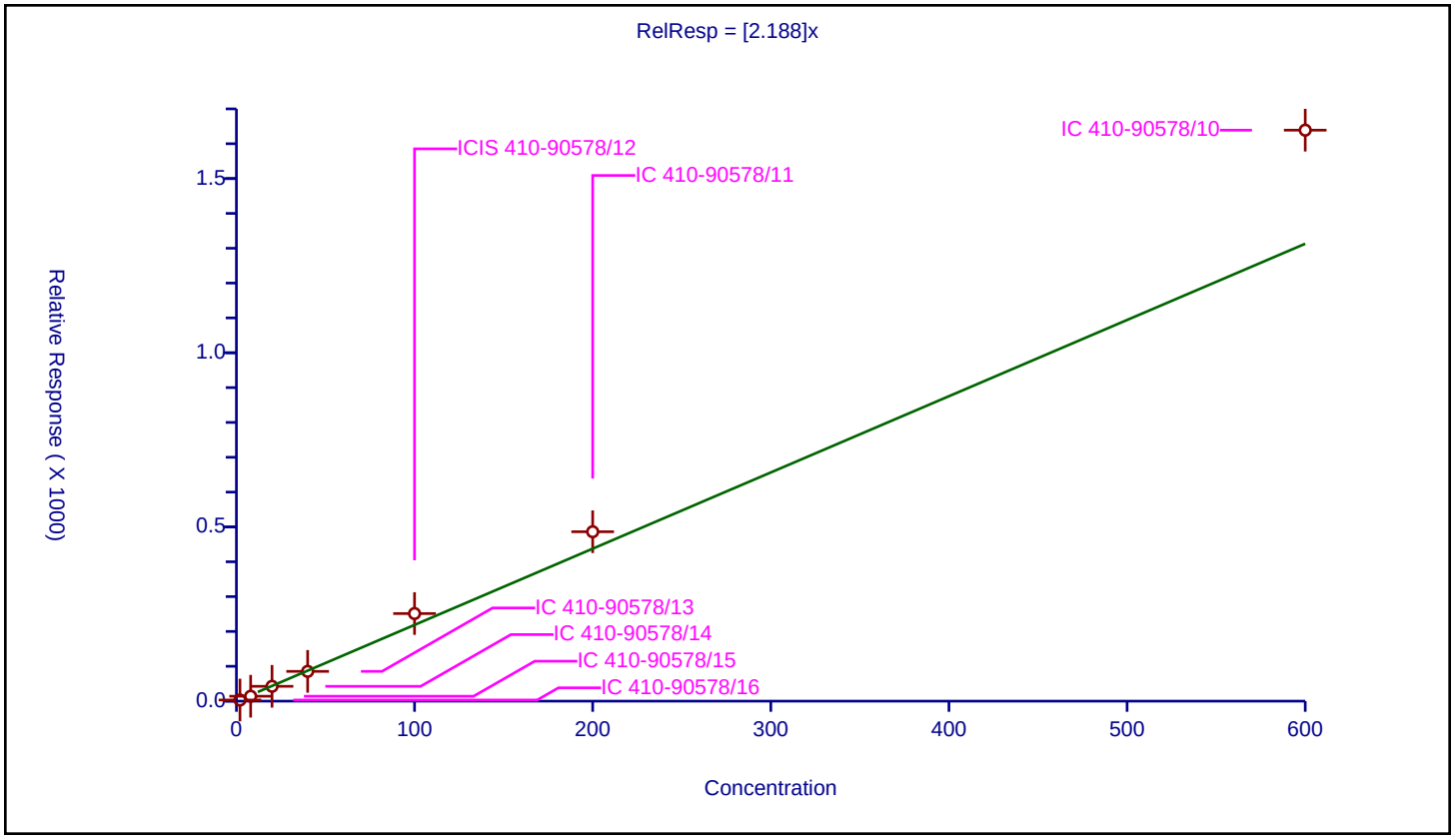
Curve Coefficients

Intercept:	0
Slope:	2.188

Error Coefficients

Standard Error:	1040000
Relative Standard Error:	18.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	2.0	3.233246	250.0	442048.0	1.616623	Y
2	IC 410-90578/15	8.0	14.085956	250.0	464239.0	1.760744	Y
3	IC 410-90578/14	20.0	42.536391	250.0	465425.0	2.12682	Y
4	IC 410-90578/13	40.0	85.451124	250.0	472387.0	2.136278	Y
5	ICIS 410-90578/12	100.0	251.371572	250.0	464613.0	2.513716	Y
6	IC 410-90578/11	200.0	486.229061	250.0	436626.0	2.431145	Y
7	IC 410-90578/10	600.0	1638.894653	250.0	356612.0	2.731491	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

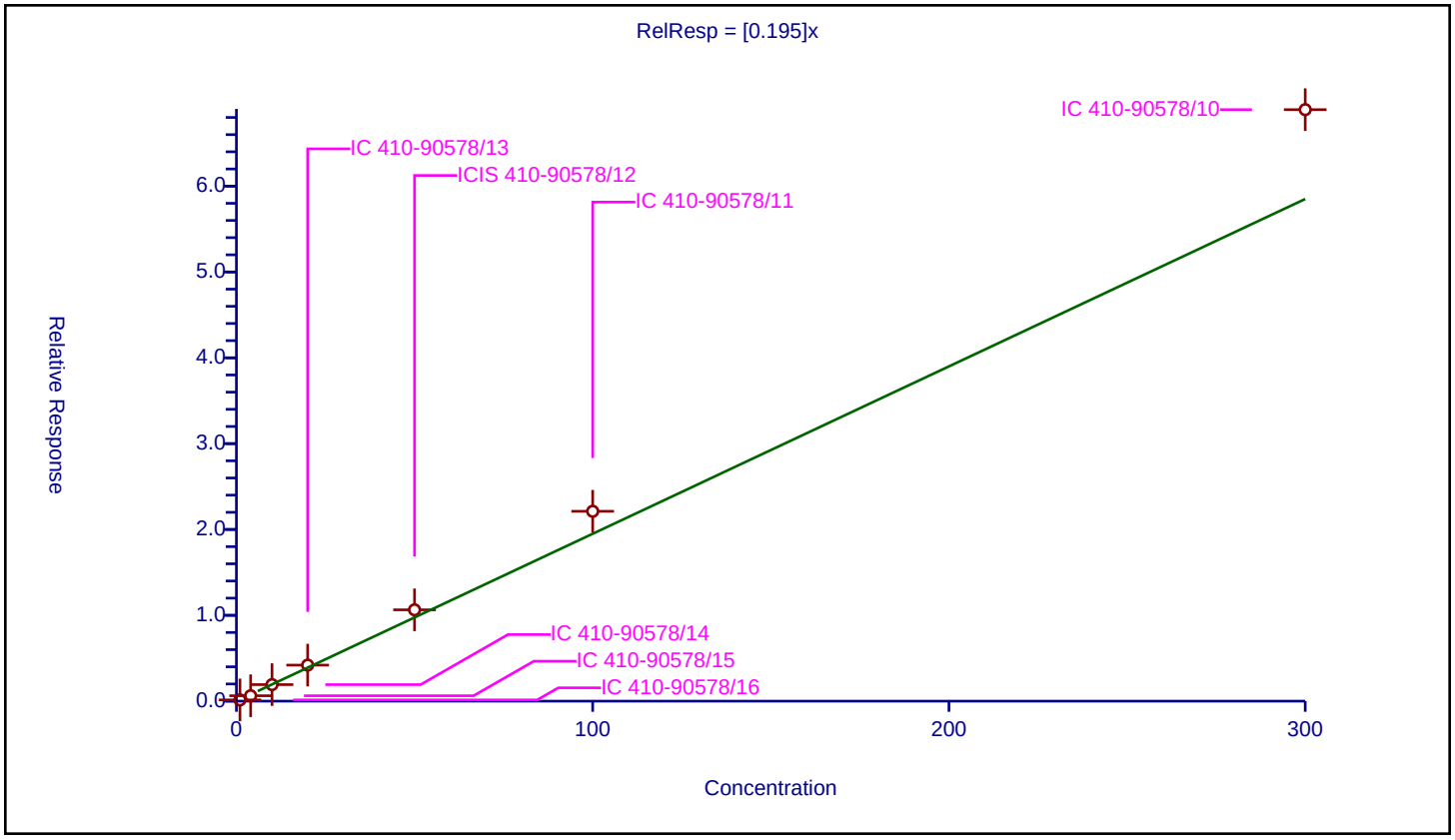
Curve Coefficients

Intercept:	0
Slope:	0.195

Error Coefficients

Standard Error:	643000
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 410-90578/16	1.0	0.141728	50.0	1173726.0	0.141728	Y
2	IC 410-90578/15	4.0	0.628871	50.0	1187605.0	0.157218	Y
3	IC 410-90578/14	10.0	1.925712	50.0	1169048.0	0.192571	Y
4	IC 410-90578/13	20.0	4.195808	50.0	1194752.0	0.20979	Y
5	ICIS 410-90578/12	50.0	10.637212	50.0	1201593.0	0.212744	Y
6	IC 410-90578/11	100.0	22.121012	50.0	1159574.0	0.22121	Y
7	IC 410-90578/10	300.0	68.911097	50.0	1060581.0	0.229704	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

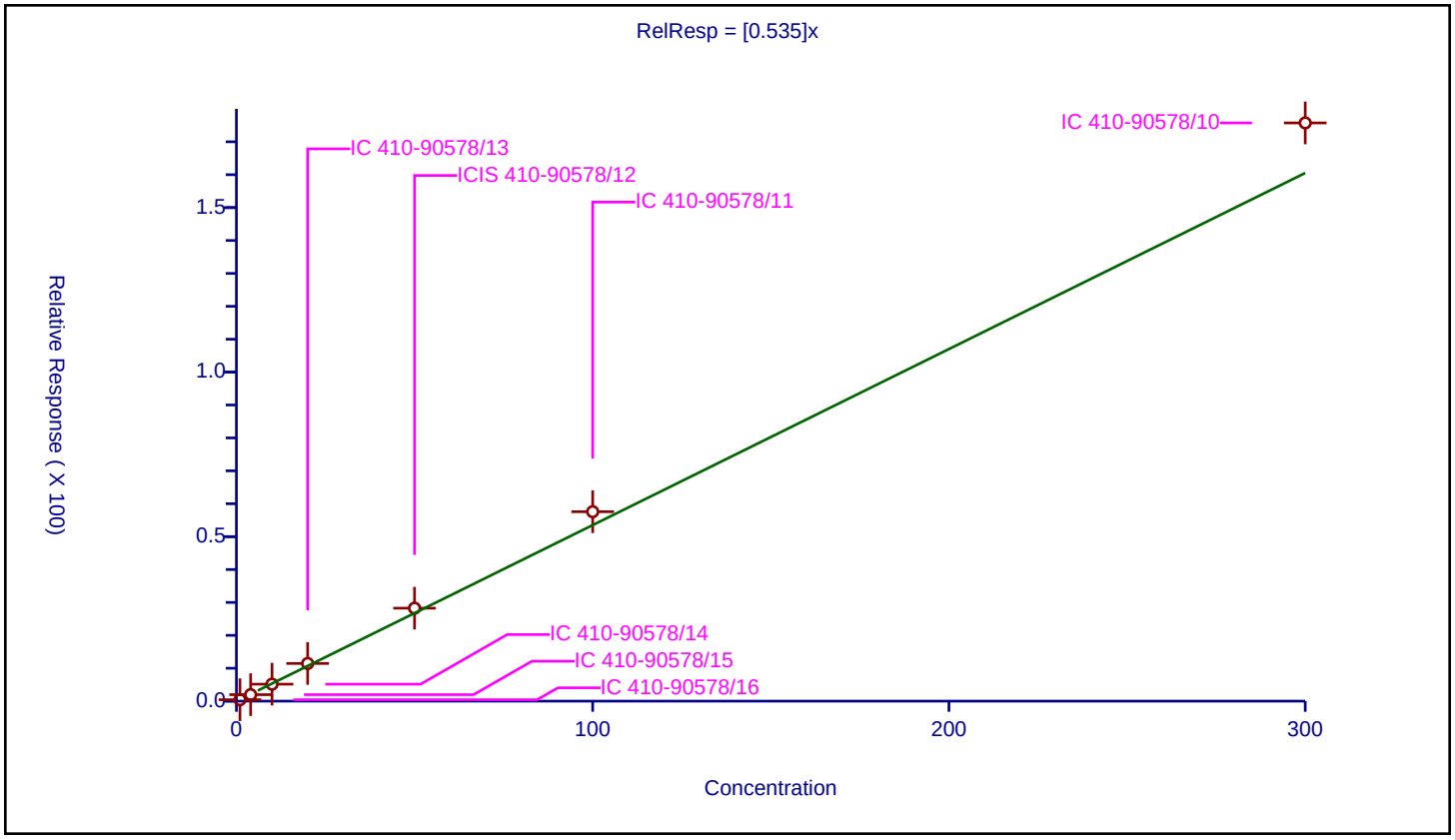
Curve Coefficients

Intercept:	0
Slope:	0.535

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	10.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.436942	50.0	1173726.0	0.436942	Y
2	IC 410-90578/15	4.0	1.973089	50.0	1187605.0	0.493272	Y
3	IC 410-90578/14	10.0	5.158813	50.0	1169048.0	0.515881	Y
4	IC 410-90578/13	20.0	11.449489	50.0	1194752.0	0.572474	Y
5	ICIS 410-90578/12	50.0	28.25832	50.0	1201593.0	0.565166	Y
6	IC 410-90578/11	100.0	57.577697	50.0	1159574.0	0.575777	Y
7	IC 410-90578/10	300.0	175.737308	50.0	1060581.0	0.585791	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

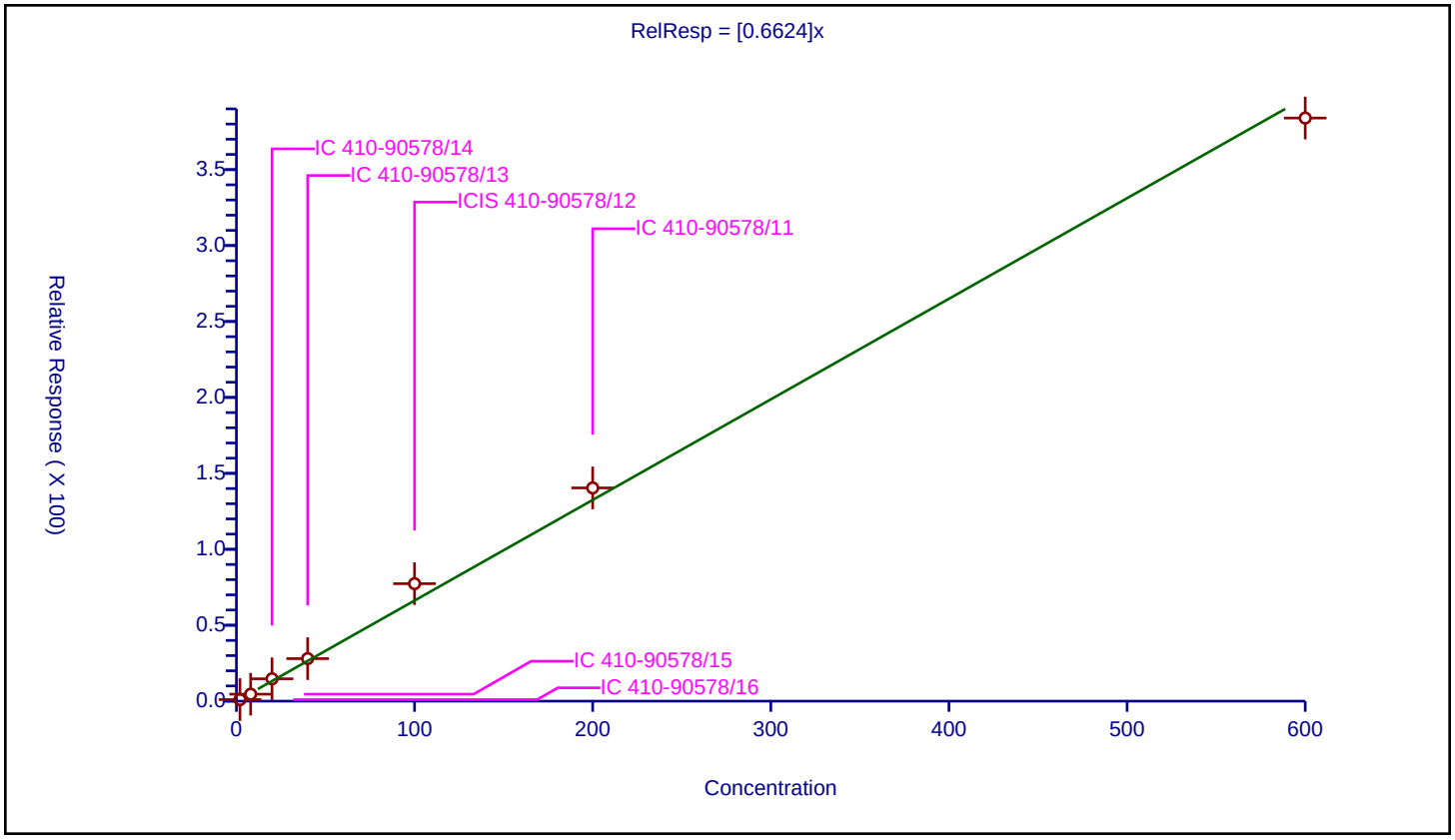
Curve Coefficients

Intercept:	0
Slope:	0.6624

Error Coefficients

Standard Error:	3670000
Relative Standard Error:	14.0
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	2.0	1.023408	50.0	1173726.0	0.511704	Y
2	IC 410-90578/15	8.0	4.586794	50.0	1187605.0	0.573349	Y
3	IC 410-90578/14	20.0	14.719883	50.0	1169048.0	0.735994	Y
4	IC 410-90578/13	40.0	28.002715	50.0	1194752.0	0.700068	Y
5	ICIS 410-90578/12	100.0	77.359222	50.0	1201593.0	0.773592	Y
6	IC 410-90578/11	200.0	140.402725	50.0	1159574.0	0.702014	Y
7	IC 410-90578/10	600.0	383.963695	50.0	1060581.0	0.639939	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

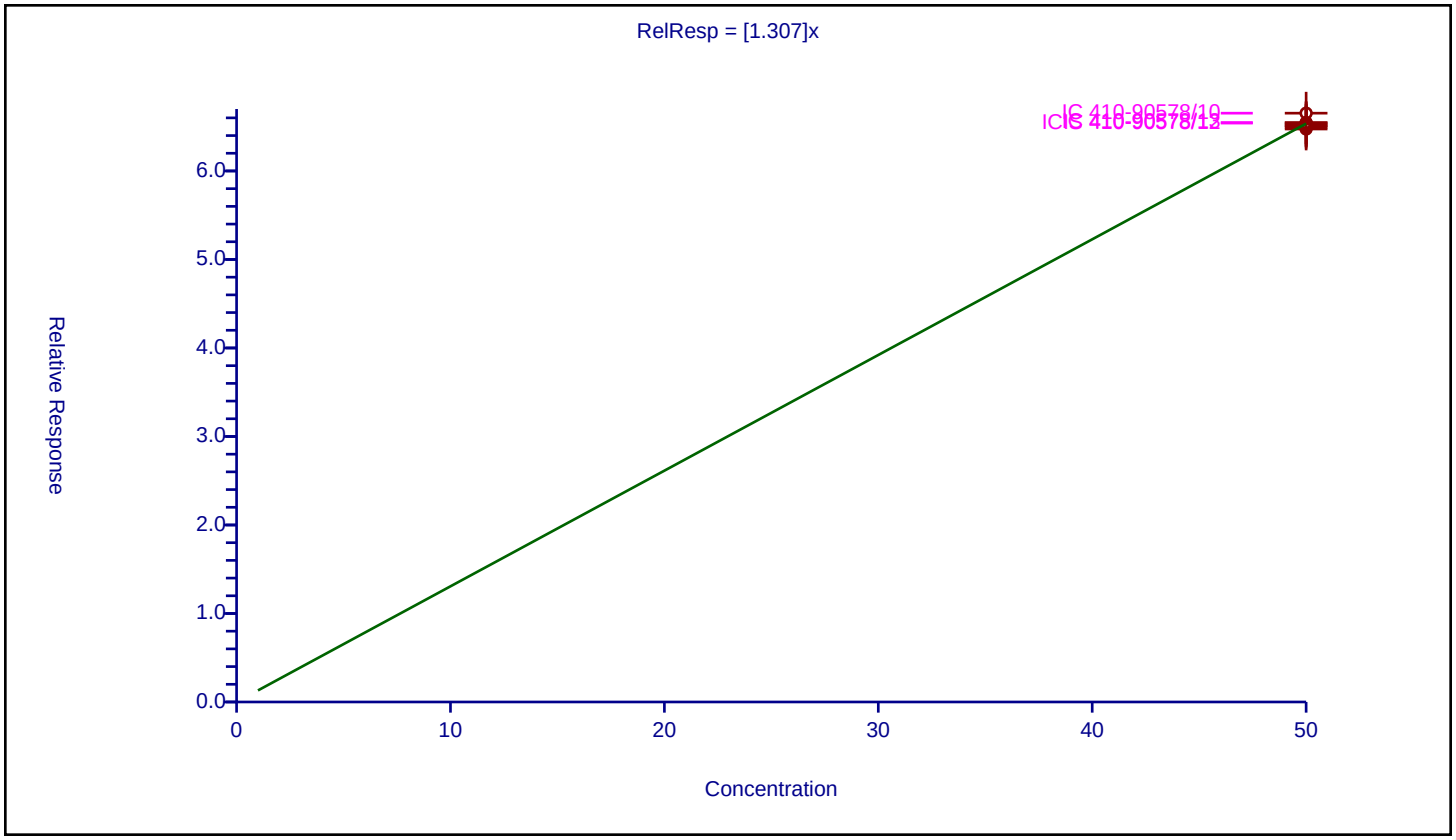
Curve Coefficients

Intercept:	0
Slope:	1.307

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	0.9
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/10	50.0	66.531175	50.0	807677.0	1.330624	Y
2	IC 410-90578/11	50.0	64.944463	50.0	887603.0	1.298889	Y
3	ICIS 410-90578/12	50.0	65.409006	50.0	910646.0	1.30818	Y
4	IC 410-90578/13	50.0	65.46823	50.0	903872.0	1.309365	Y
5	IC 410-90578/14	50.0	65.199995	50.0	886520.0	1.304	Y
6	IC 410-90578/15	50.0	65.11997	50.0	892849.0	1.302399	Y
7	IC 410-90578/16	50.0	64.739604	50.0	876455.0	1.294792	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

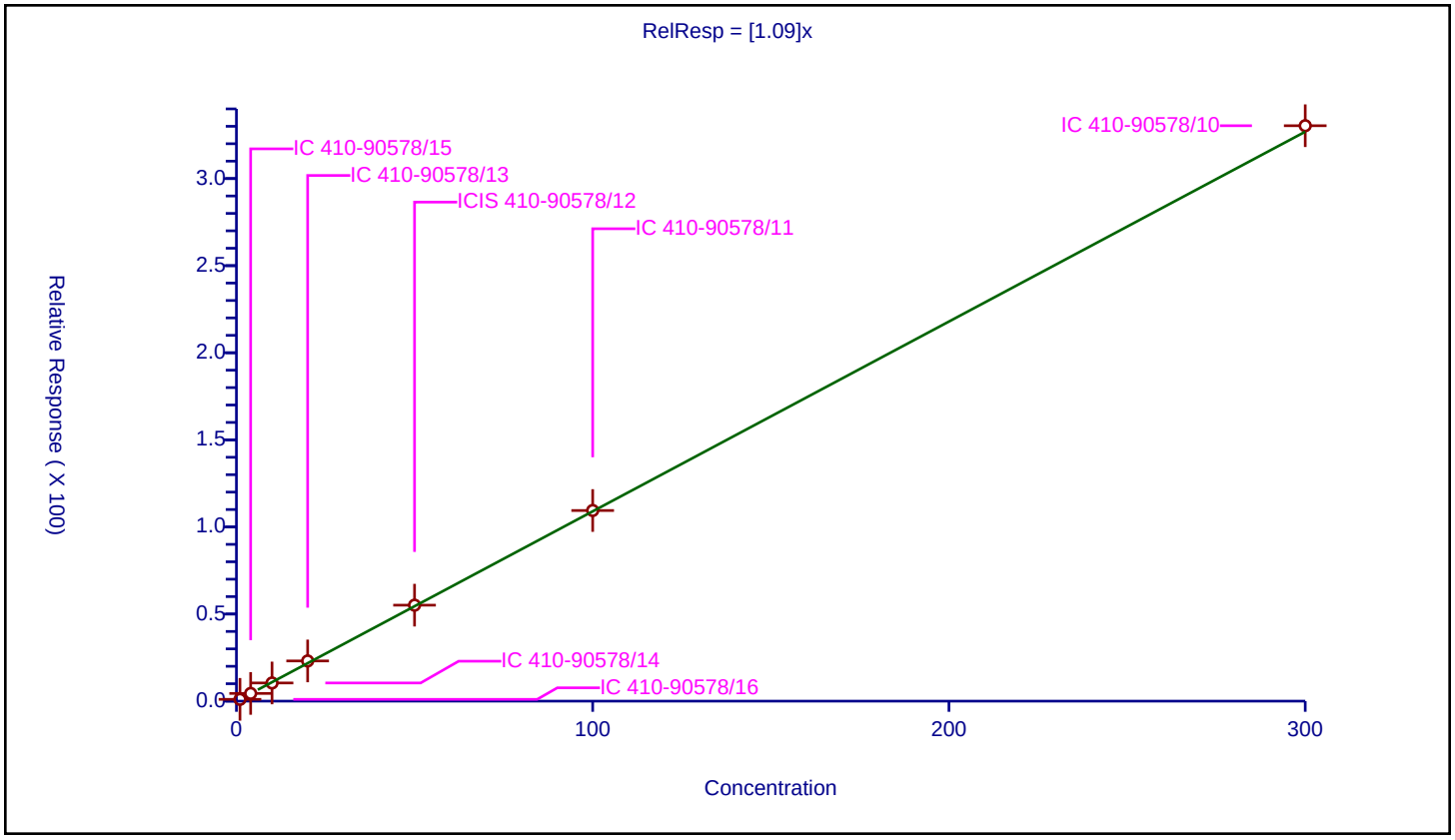
Curve Coefficients

Intercept:	0
Slope:	1.09

Error Coefficients

Standard Error:	2360000
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 410-90578/16	1.0	1.025609	50.0	876455.0	1.025609	Y
2	IC 410-90578/15	4.0	4.427344	50.0	892849.0	1.106836	Y
3	IC 410-90578/14	10.0	10.43338	50.0	886520.0	1.043338	Y
4	IC 410-90578/13	20.0	23.081808	50.0	903872.0	1.15409	Y
5	ICIS 410-90578/12	50.0	55.091331	50.0	910646.0	1.101827	Y
6	IC 410-90578/11	100.0	109.43913	50.0	887603.0	1.094391	Y
7	IC 410-90578/10	300.0	330.340966	50.0	807677.0	1.101137	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

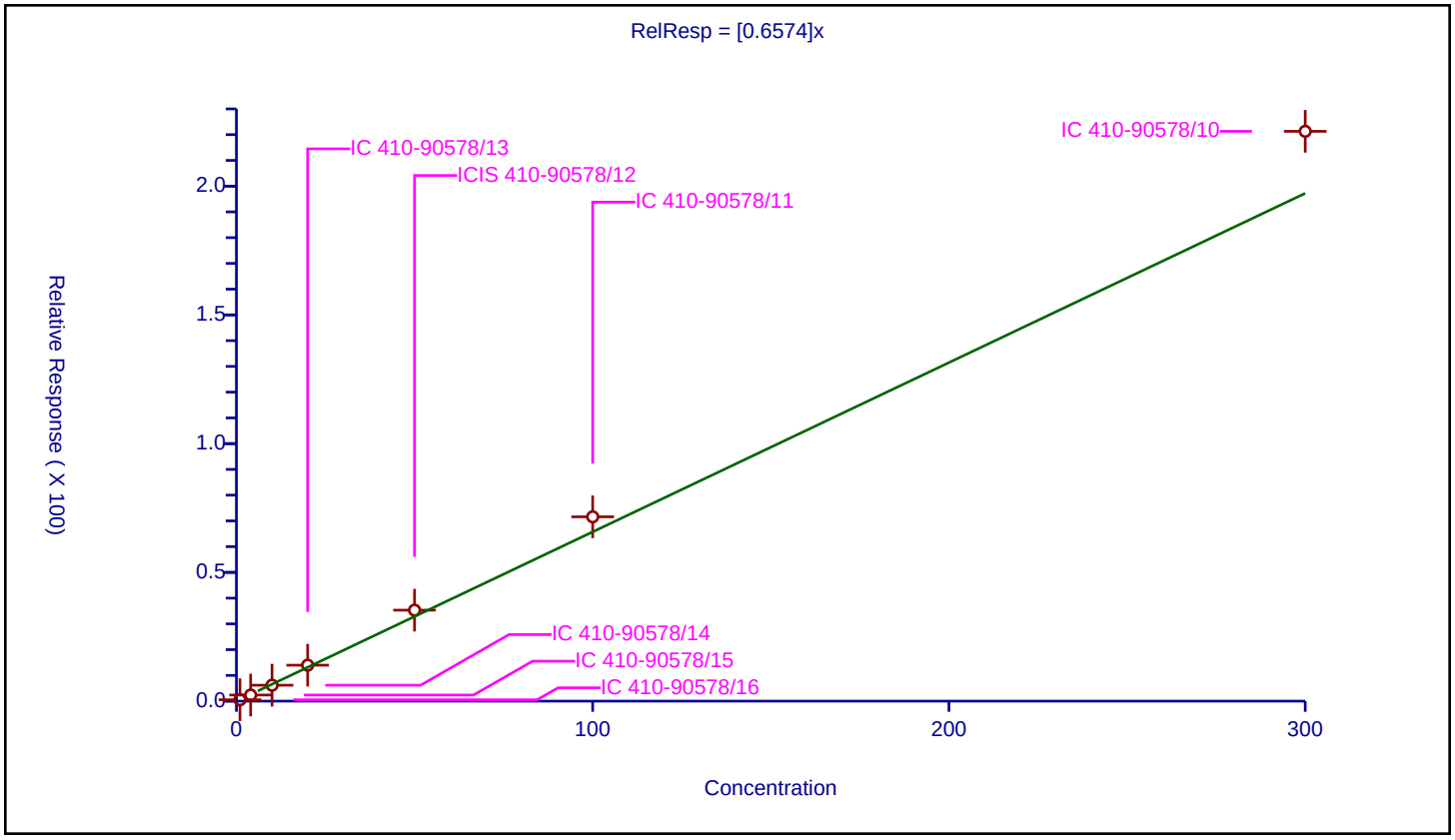
Curve Coefficients

Intercept:	0
Slope:	0.6574

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	11.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.532144	50.0	876455.0	0.532144	Y
2	IC 410-90578/15	4.0	2.375318	50.0	892849.0	0.593829	Y
3	IC 410-90578/14	10.0	6.17871	50.0	886520.0	0.617871	Y
4	IC 410-90578/13	20.0	13.95712	50.0	903872.0	0.697856	Y
5	ICIS 410-90578/12	50.0	35.32377	50.0	910646.0	0.706475	Y
6	IC 410-90578/11	100.0	71.579693	50.0	887603.0	0.715797	Y
7	IC 410-90578/10	300.0	221.286665	50.0	807677.0	0.737622	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

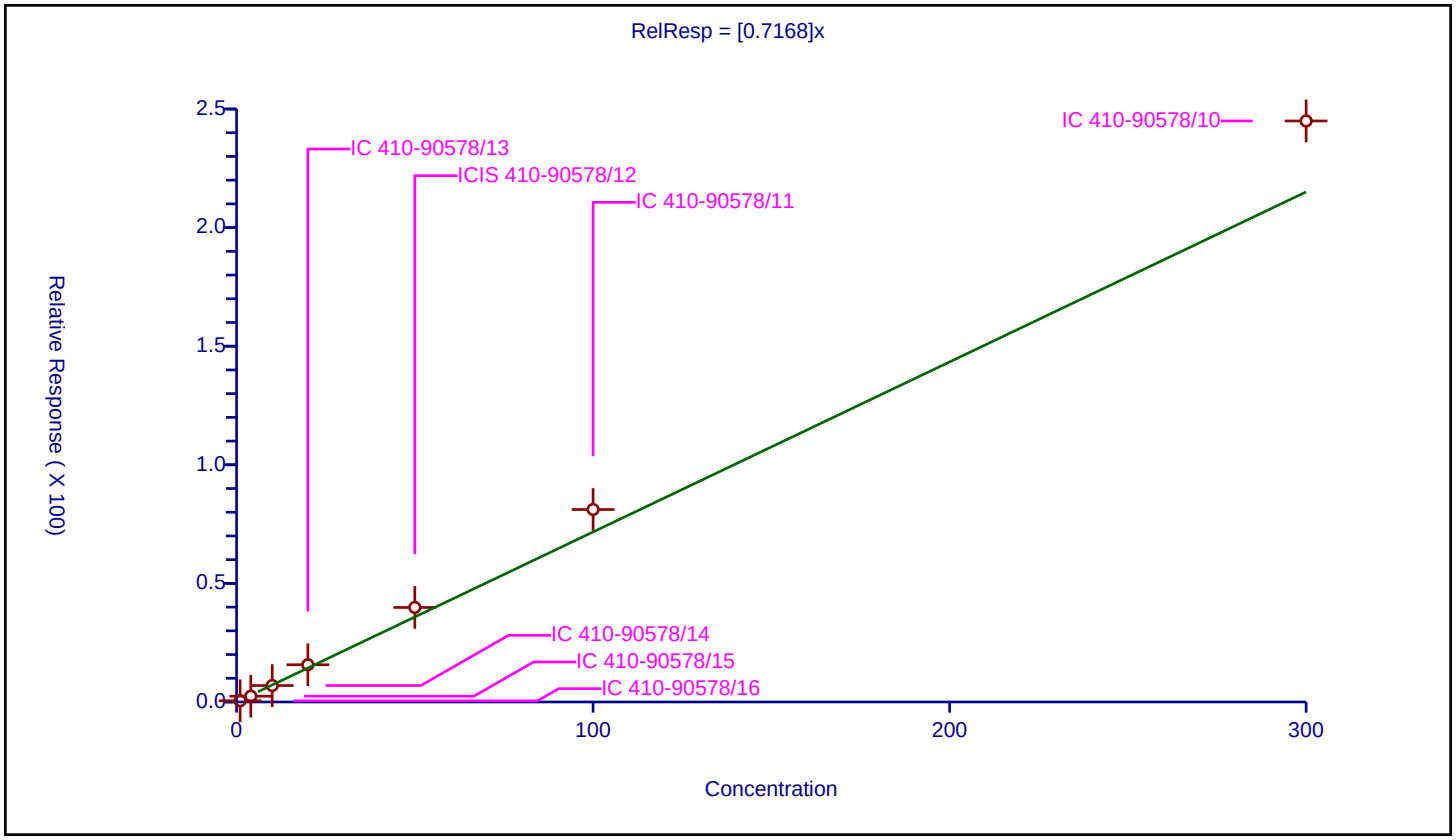
Curve Coefficients

Intercept:	0
Slope:	0.7168

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	16.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.503677	50.0	876455.0	0.503677	Y
2	IC 410-90578/15	4.0	2.44683	50.0	892849.0	0.611708	Y
3	IC 410-90578/14	10.0	6.925845	50.0	886520.0	0.692584	Y
4	IC 410-90578/13	20.0	15.696526	50.0	903872.0	0.784826	Y
5	ICIS 410-90578/12	50.0	39.855333	50.0	910646.0	0.797107	Y
6	IC 410-90578/11	100.0	81.147258	50.0	887603.0	0.811473	Y
7	IC 410-90578/10	300.0	244.961166	50.0	807677.0	0.816537	Y



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

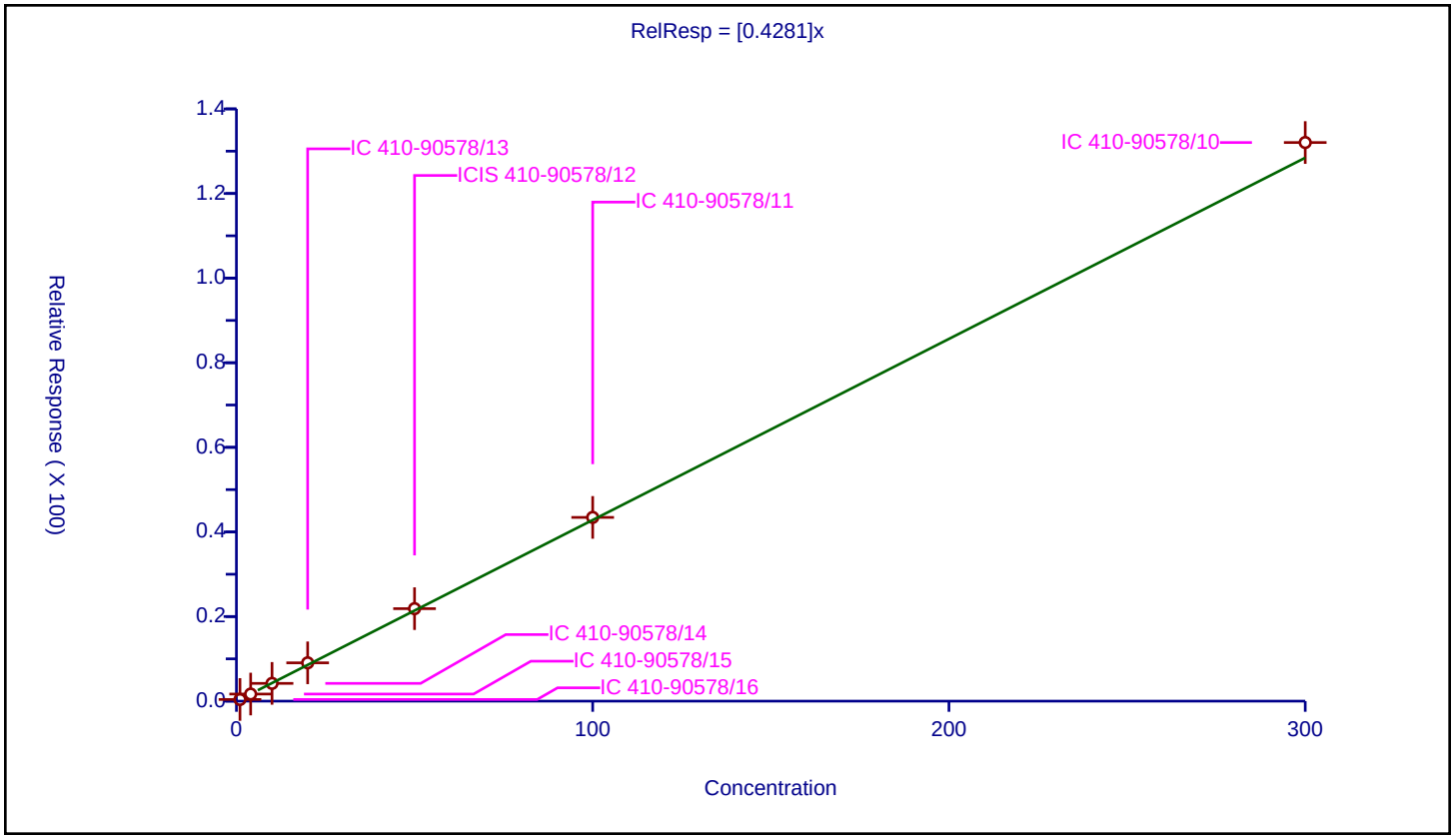
Curve Coefficients

Intercept:	0
Slope:	0.4281

Error Coefficients

Standard Error:	943000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.392604	50.0	876455.0	0.392604	Y
2	IC 410-90578/15	4.0	1.679231	50.0	892849.0	0.419808	Y
3	IC 410-90578/14	10.0	4.197536	50.0	886520.0	0.419754	Y
4	IC 410-90578/13	20.0	9.059303	50.0	903872.0	0.452965	Y
5	ICIS 410-90578/12	50.0	21.863161	50.0	910646.0	0.437263	Y
6	IC 410-90578/11	100.0	43.432086	50.0	887603.0	0.434321	Y
7	IC 410-90578/10	300.0	132.050807	50.0	807677.0	0.440169	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

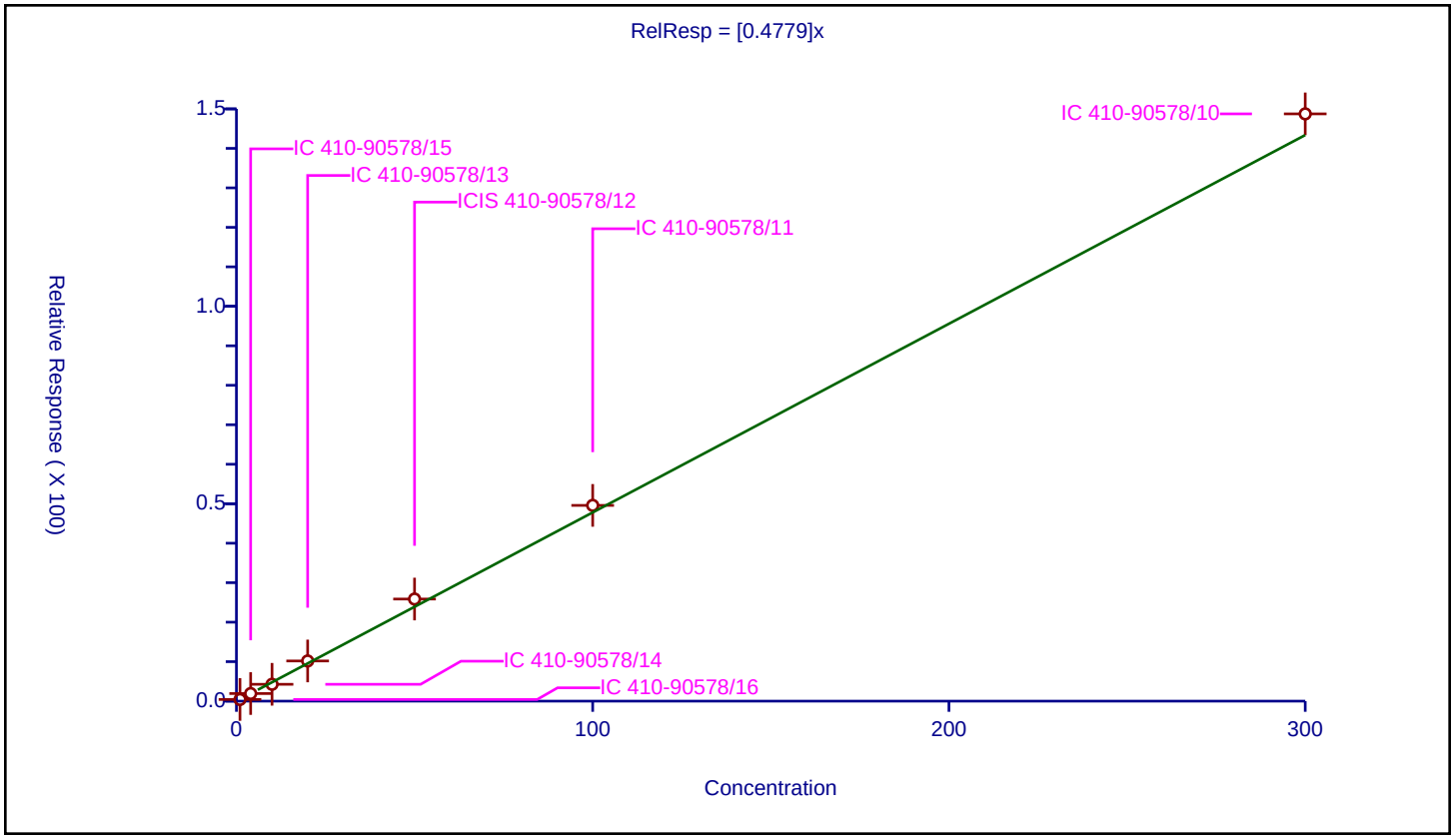
Curve Coefficients

Intercept:	0
Slope:	0.4779

Error Coefficients

Standard Error:	1070000
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 410-90578/16	1.0	0.419474	50.0	876455.0	0.419474	Y
2	IC 410-90578/15	4.0	1.925298	50.0	892849.0	0.481324	Y
3	IC 410-90578/14	10.0	4.268939	50.0	886520.0	0.426894	Y
4	IC 410-90578/13	20.0	10.176386	50.0	903872.0	0.508819	Y
5	ICIS 410-90578/12	50.0	25.860927	50.0	910646.0	0.517219	Y
6	IC 410-90578/11	100.0	49.579767	50.0	887603.0	0.495798	Y
7	IC 410-90578/10	300.0	148.740771	50.0	807677.0	0.495803	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

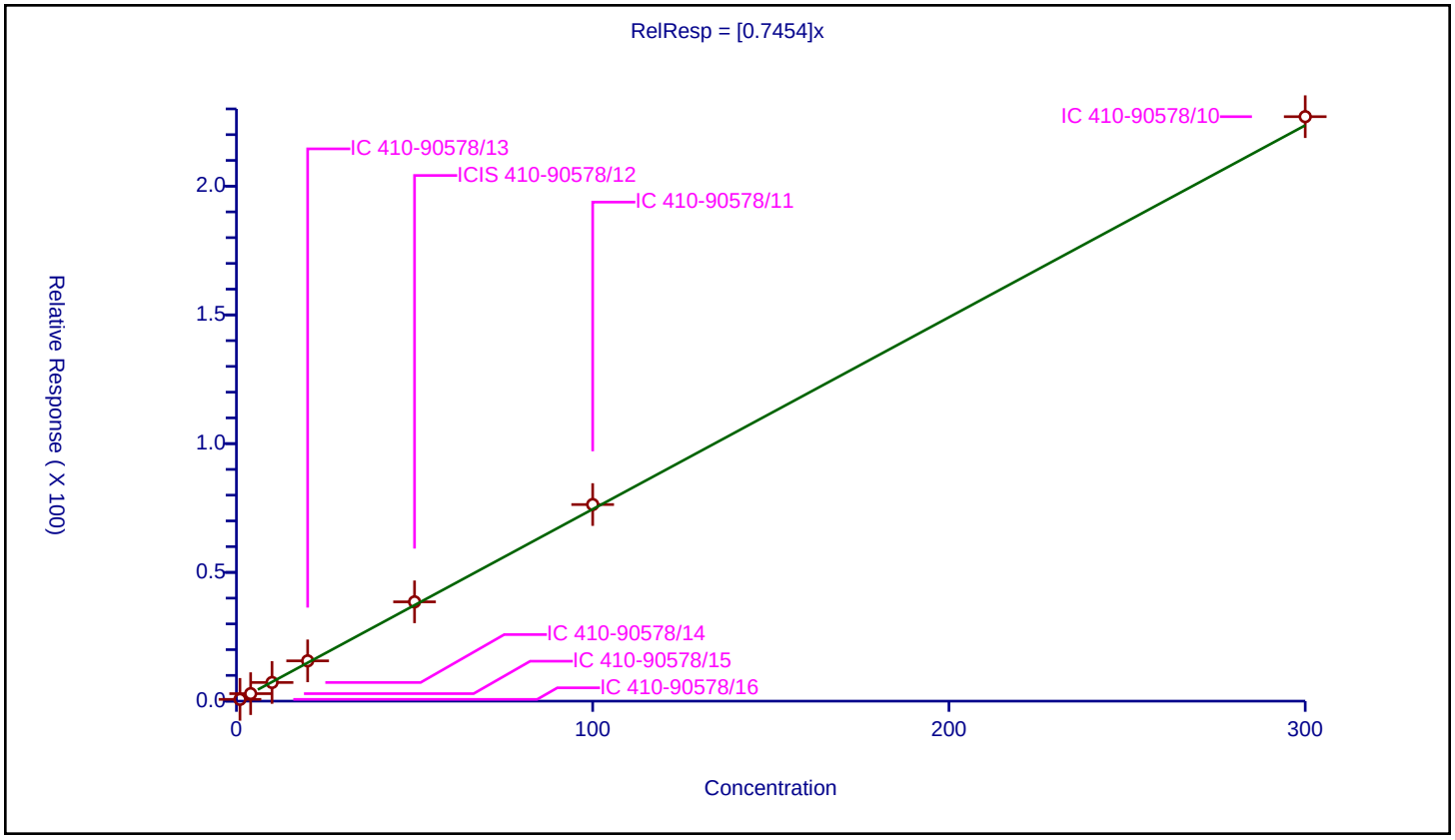
Curve Coefficients

Intercept:	0
Slope:	0.7454

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.691821	50.0	876455.0	0.691821	Y
2	IC 410-90578/15	4.0	2.911691	50.0	892849.0	0.727923	Y
3	IC 410-90578/14	10.0	7.241405	50.0	886520.0	0.72414	Y
4	IC 410-90578/13	20.0	15.647901	50.0	903872.0	0.782395	Y
5	ICIS 410-90578/12	50.0	38.561087	50.0	910646.0	0.771222	Y
6	IC 410-90578/11	100.0	76.350801	50.0	887603.0	0.763508	Y
7	IC 410-90578/10	300.0	226.976873	50.0	807677.0	0.75659	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

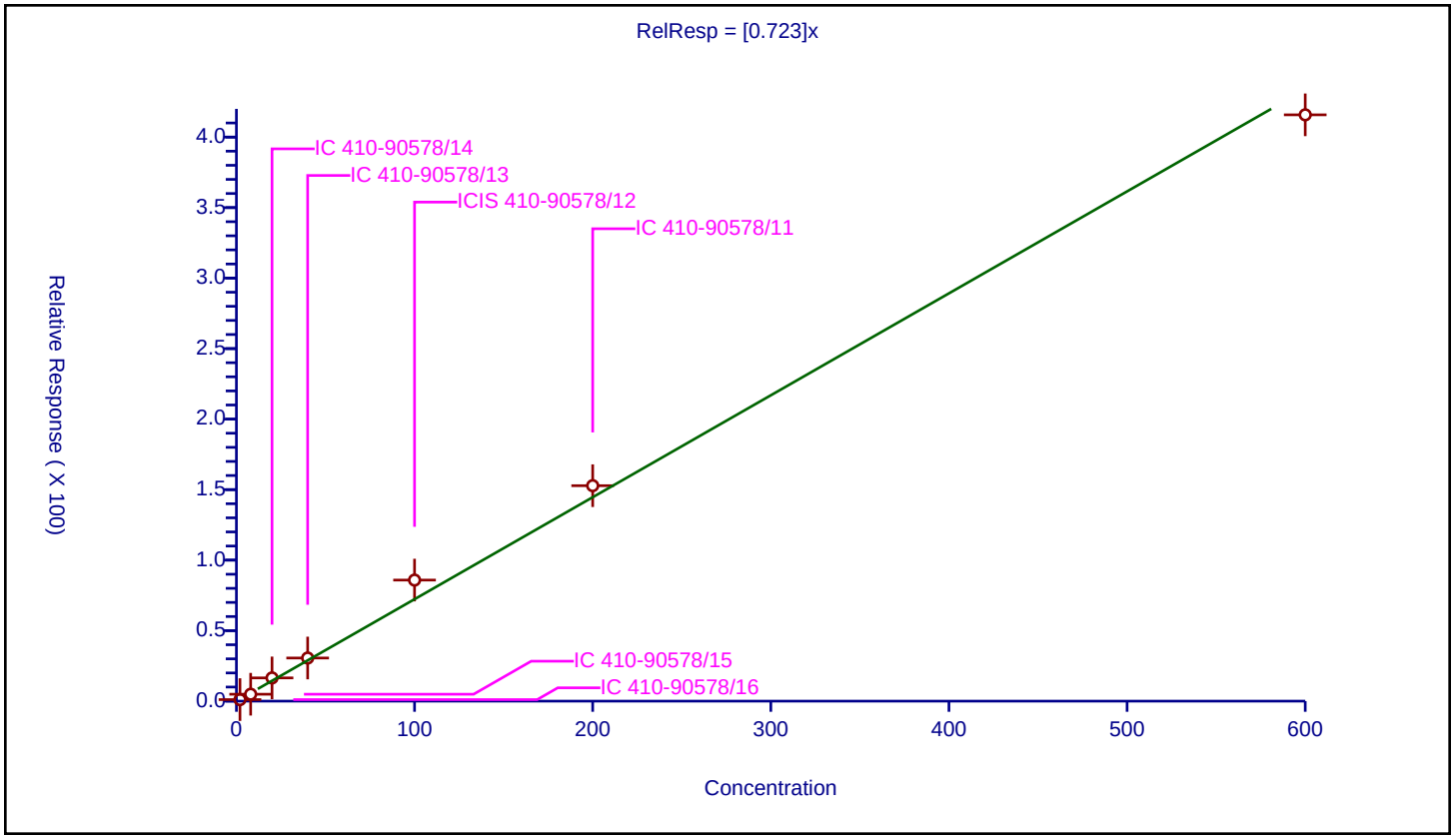
Curve Coefficients

Intercept:	0
Slope:	0.723

Error Coefficients

Standard Error:	3040000
Relative Standard Error:	15.7
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	2.0	1.08608	50.0	876455.0	0.54304	Y
2	IC 410-90578/15	8.0	4.910013	50.0	892849.0	0.613752	Y
3	IC 410-90578/14	20.0	16.47718	50.0	886520.0	0.823859	Y
4	IC 410-90578/13	40.0	30.586853	50.0	903872.0	0.764671	Y
5	ICIS 410-90578/12	100.0	85.852351	50.0	910646.0	0.858524	Y
6	IC 410-90578/11	200.0	152.787113	50.0	887603.0	0.763936	Y
7	IC 410-90578/10	600.0	415.795547	50.0	807677.0	0.692993	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

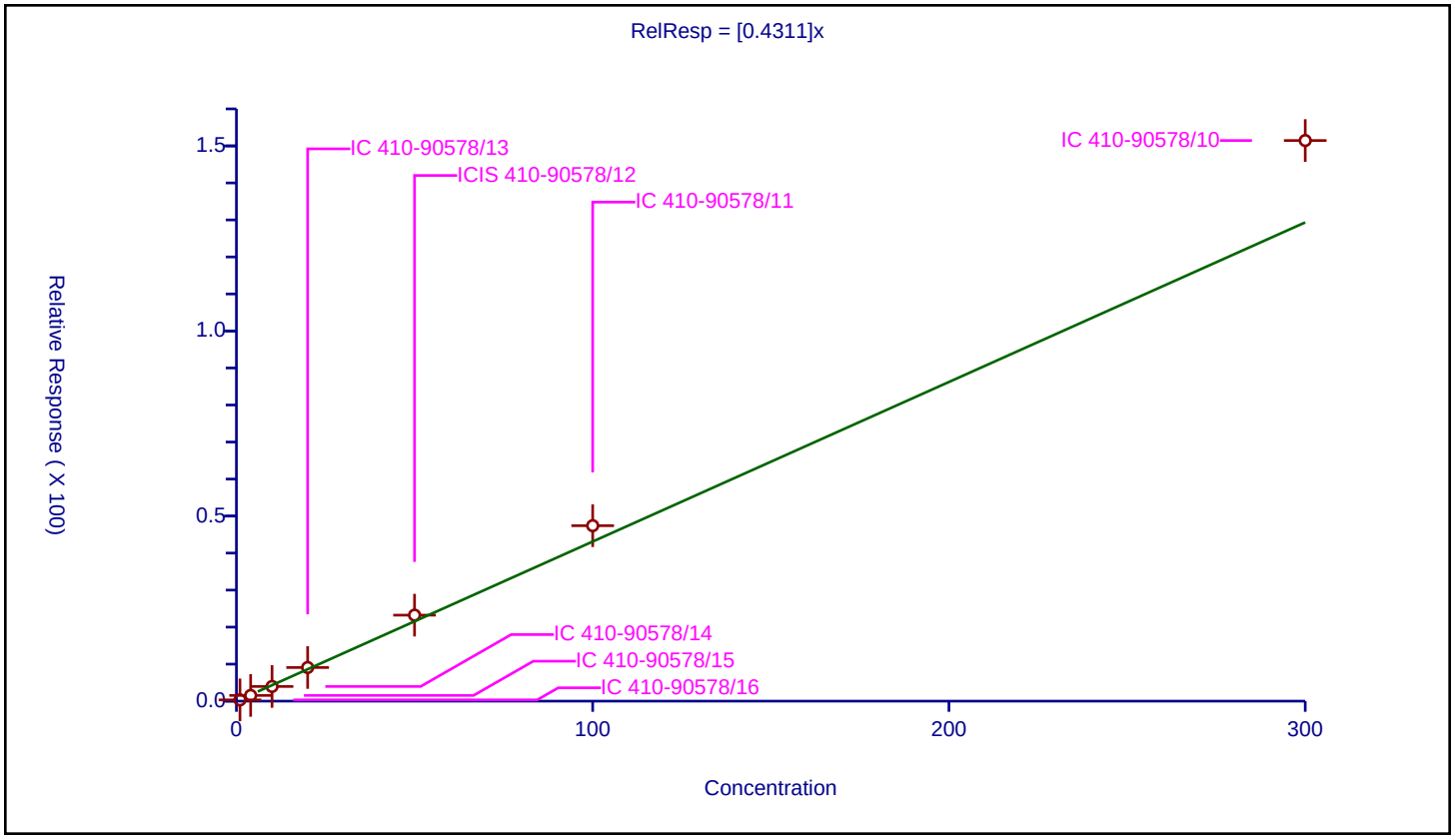
Curve Coefficients

Intercept:	0
Slope:	0.4311

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	13.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.337667	50.0	876455.0	0.337667	Y
2	IC 410-90578/15	4.0	1.544662	50.0	892849.0	0.386166	Y
3	IC 410-90578/14	10.0	3.961501	50.0	886520.0	0.39615	Y
4	IC 410-90578/13	20.0	9.086076	50.0	903872.0	0.454304	Y
5	ICIS 410-90578/12	50.0	23.233287	50.0	910646.0	0.464666	Y
6	IC 410-90578/11	100.0	47.399062	50.0	887603.0	0.473991	Y
7	IC 410-90578/10	300.0	151.45318	50.0	807677.0	0.504844	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

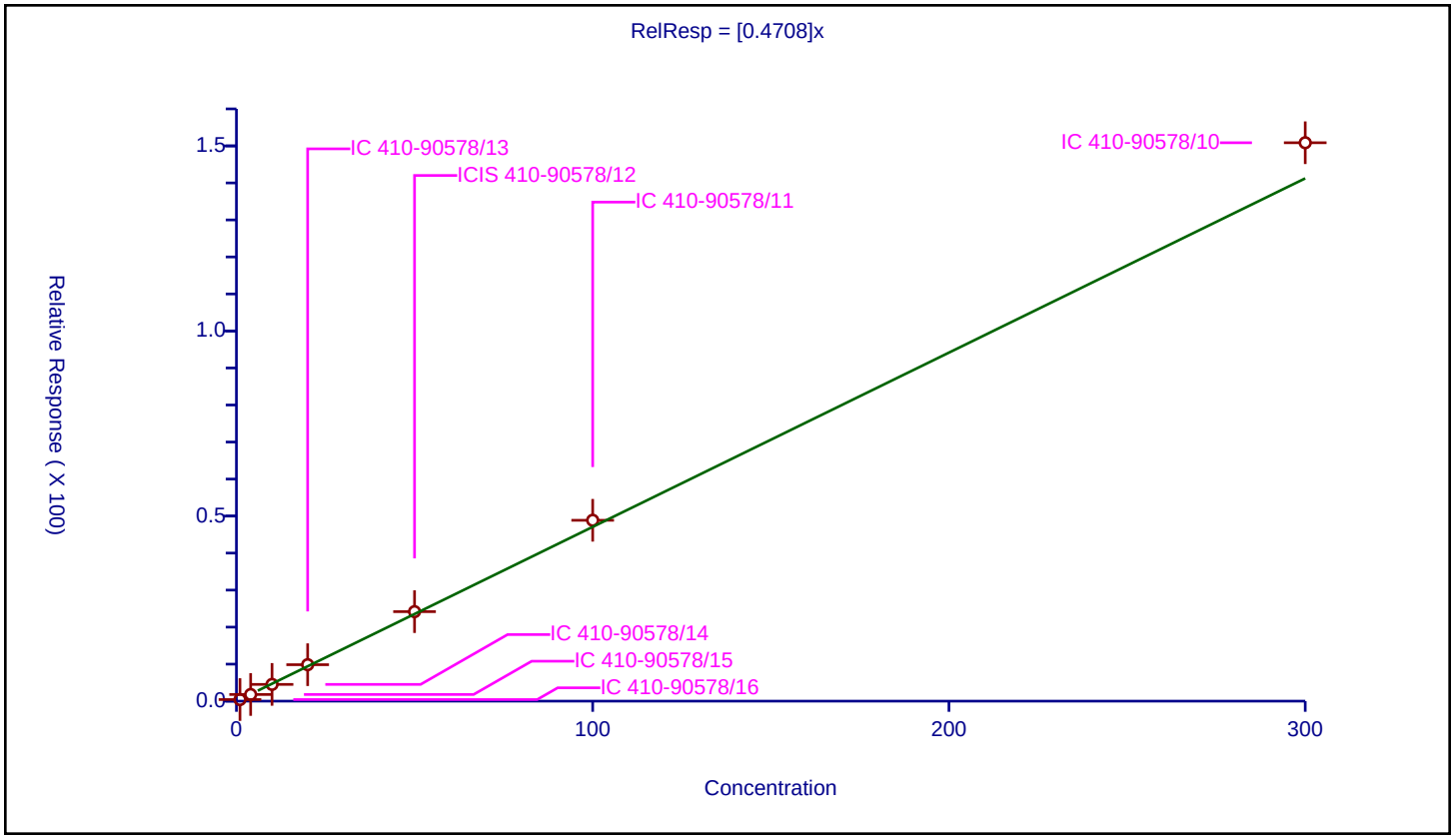
Curve Coefficients

Intercept:	0
Slope:	0.4708

Error Coefficients

Standard Error:	1070000
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 410-90578/16	1.0	0.426947	50.0	876455.0	0.426947	Y
2	IC 410-90578/15	4.0	1.79448	50.0	892849.0	0.44862	Y
3	IC 410-90578/14	10.0	4.522064	50.0	886520.0	0.452206	Y
4	IC 410-90578/13	20.0	9.848961	50.0	903872.0	0.492448	Y
5	ICIS 410-90578/12	50.0	24.182998	50.0	910646.0	0.48366	Y
6	IC 410-90578/11	100.0	48.862893	50.0	887603.0	0.488629	Y
7	IC 410-90578/10	300.0	150.853497	50.0	807677.0	0.502845	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

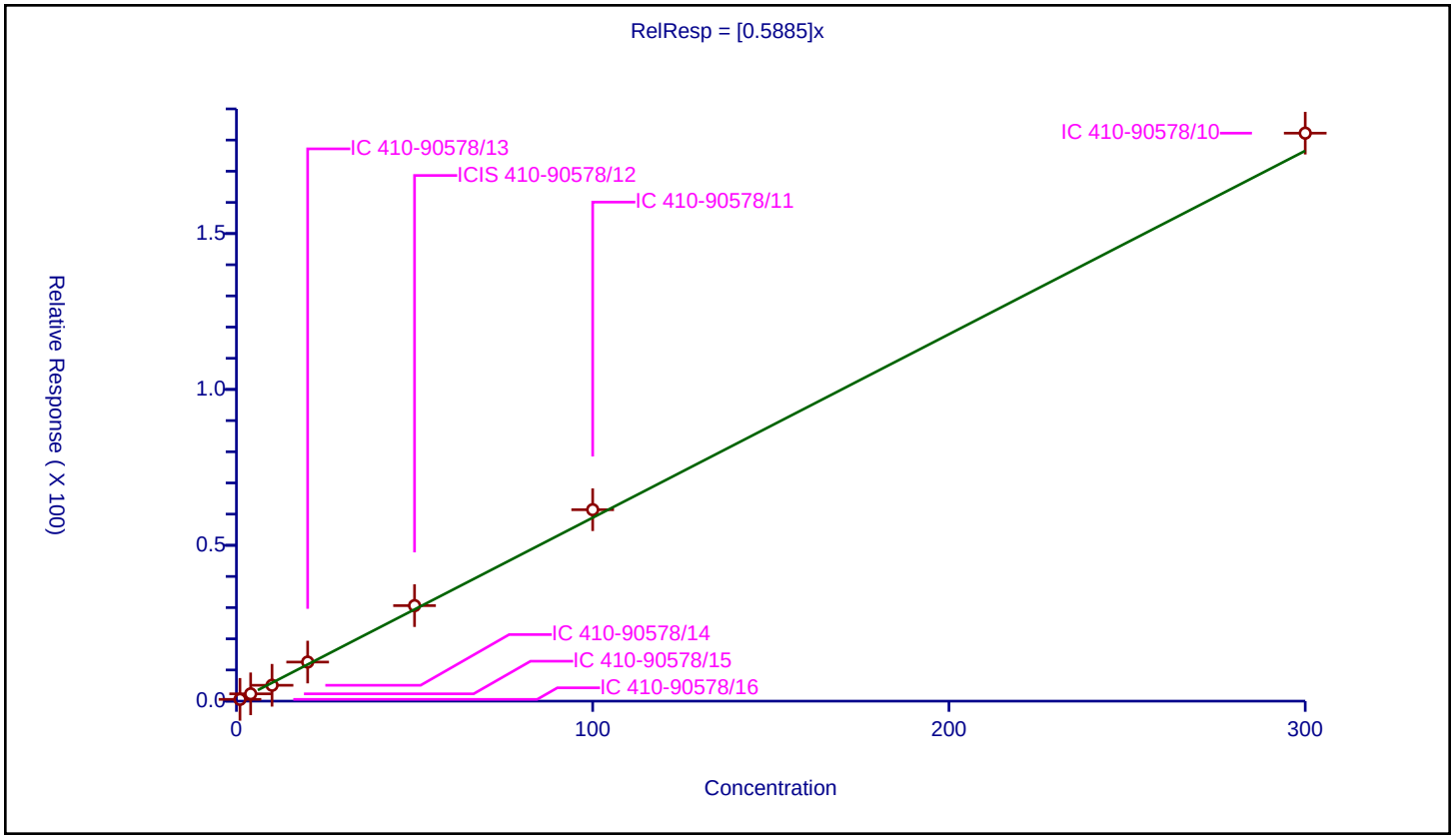
Curve Coefficients

Intercept:	0
Slope:	0.5885

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.56449	50.0	876455.0	0.56449	Y
2	IC 410-90578/15	4.0	2.341381	50.0	892849.0	0.585345	Y
3	IC 410-90578/14	10.0	5.085334	50.0	886520.0	0.508533	Y
4	IC 410-90578/13	20.0	12.535182	50.0	903872.0	0.626759	Y
5	ICIS 410-90578/12	50.0	30.643466	50.0	910646.0	0.612869	Y
6	IC 410-90578/11	100.0	61.411352	50.0	887603.0	0.614114	Y
7	IC 410-90578/10	300.0	182.214487	50.0	807677.0	0.607382	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

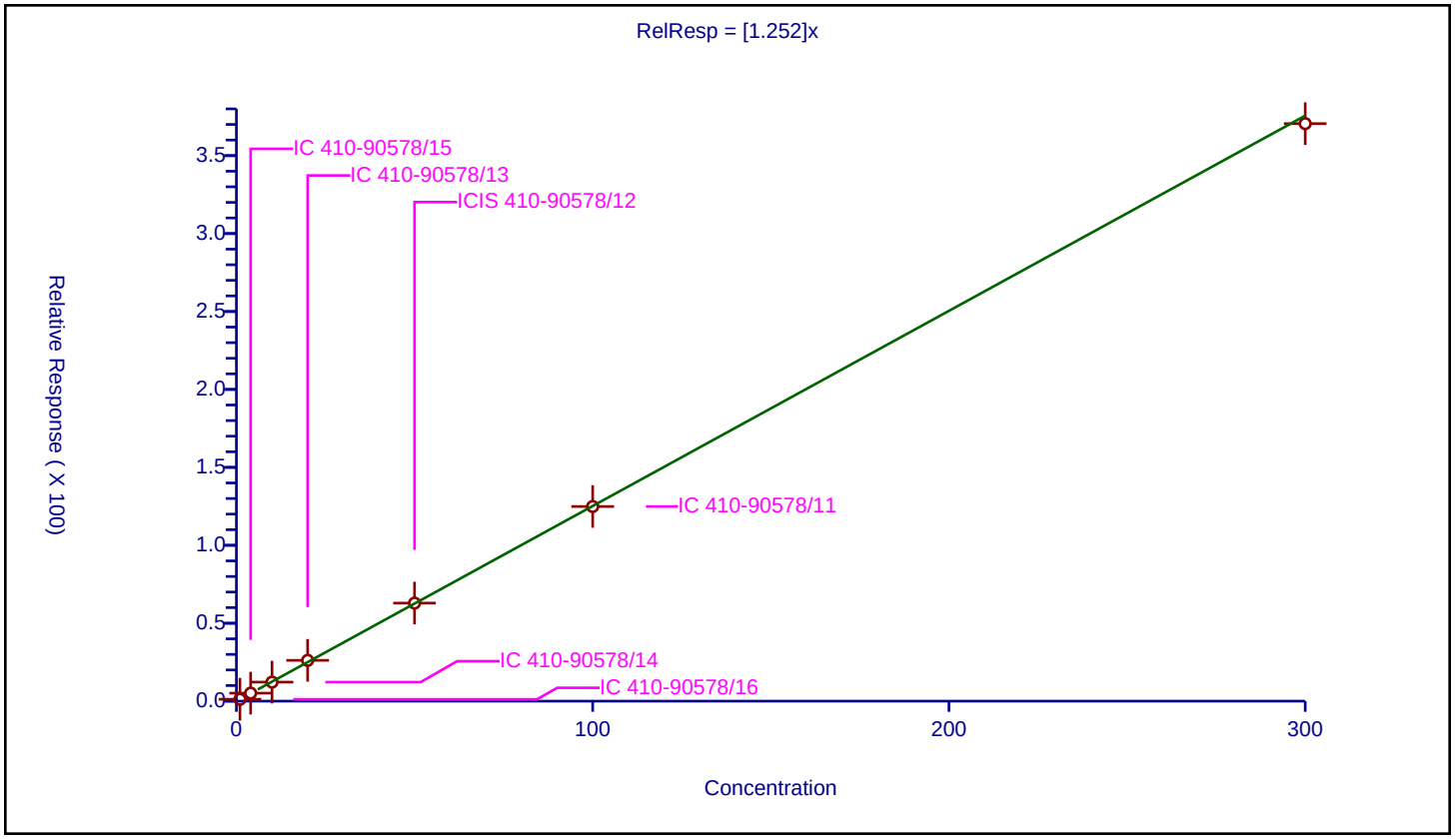
Curve Coefficients

Intercept:	0
Slope:	1.252

Error Coefficients

Standard Error:	2660000
Relative Standard Error:	2.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.206622	50.0	876455.0	1.206622	Y
2	IC 410-90578/15	4.0	5.141239	50.0	892849.0	1.28531	Y
3	IC 410-90578/14	10.0	12.218111	50.0	886520.0	1.221811	Y
4	IC 410-90578/13	20.0	26.170132	50.0	903872.0	1.308507	Y
5	ICIS 410-90578/12	50.0	62.905674	50.0	910646.0	1.258113	Y
6	IC 410-90578/11	100.0	124.872099	50.0	887603.0	1.248721	Y
7	IC 410-90578/10	300.0	370.537294	50.0	807677.0	1.235124	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

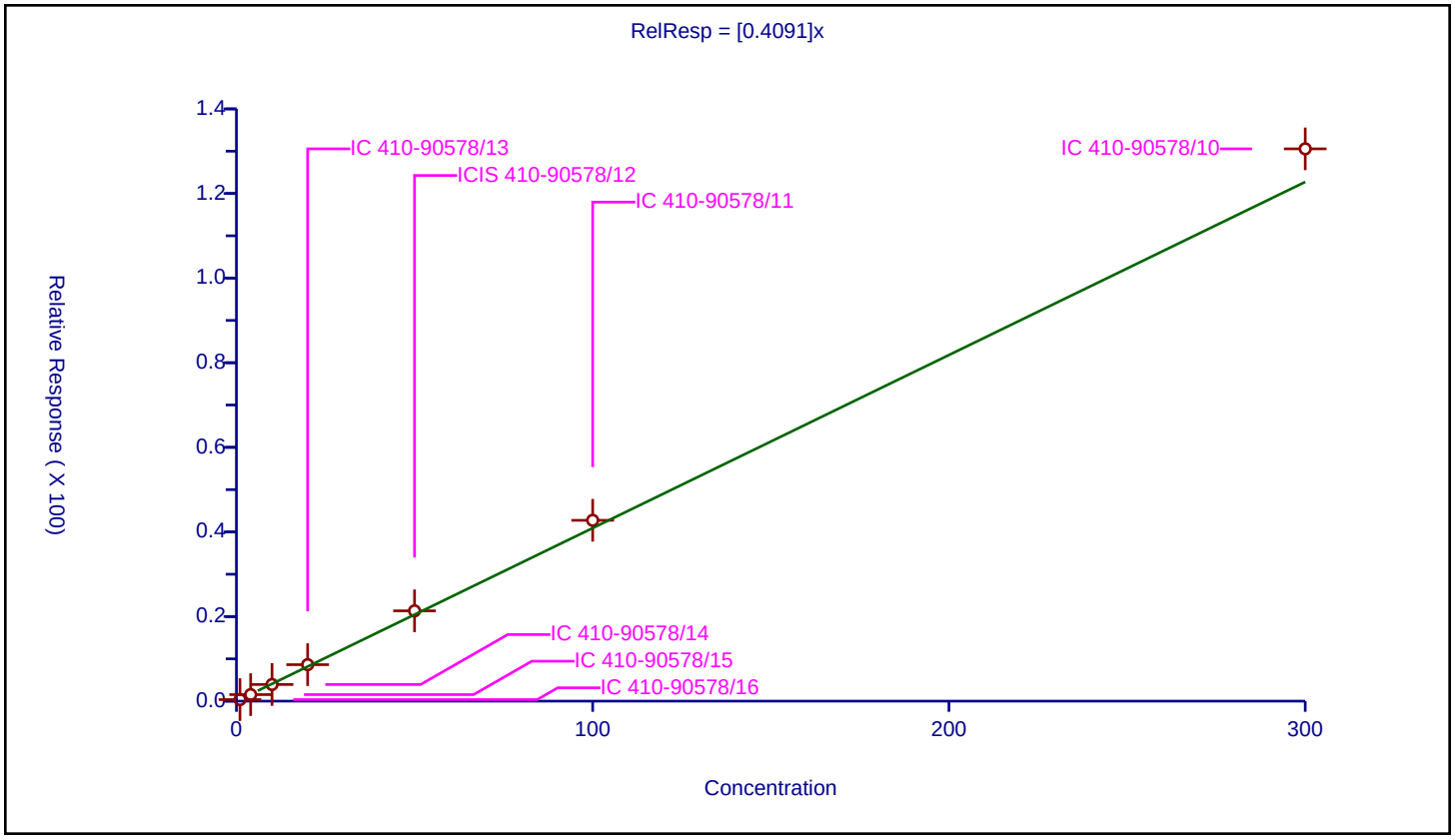
Curve Coefficients

Intercept:	0
Slope:	0.4091

Error Coefficients

Standard Error:	931000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.362369	50.0	876455.0	0.362369	Y
2	IC 410-90578/15	4.0	1.548414	50.0	892849.0	0.387104	Y
3	IC 410-90578/14	10.0	3.933809	50.0	886520.0	0.393381	Y
4	IC 410-90578/13	20.0	8.625336	50.0	903872.0	0.431267	Y
5	ICIS 410-90578/12	50.0	21.34902	50.0	910646.0	0.42698	Y
6	IC 410-90578/11	100.0	42.743377	50.0	887603.0	0.427434	Y
7	IC 410-90578/10	300.0	130.557451	50.0	807677.0	0.435192	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

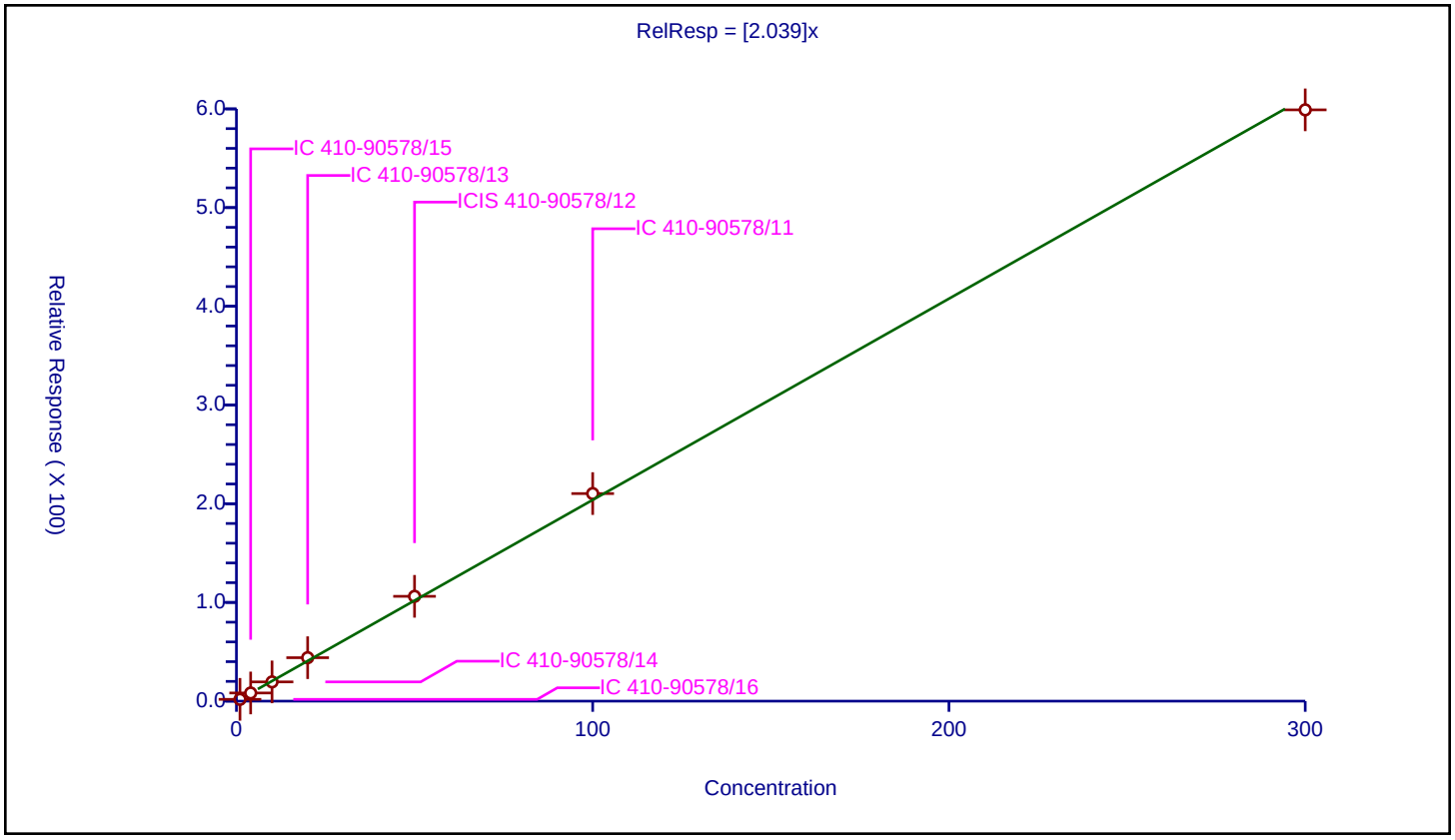
Curve Coefficients

Intercept:	0
Slope:	2.039

Error Coefficients

Standard Error:	4320000
Relative Standard Error:	6.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.825878	50.0	876455.0	1.825878	Y
2	IC 410-90578/15	4.0	8.283652	50.0	892849.0	2.070913	Y
3	IC 410-90578/14	10.0	19.489859	50.0	886520.0	1.948986	Y
4	IC 410-90578/13	20.0	44.014197	50.0	903872.0	2.20071	Y
5	ICIS 410-90578/12	50.0	106.189068	50.0	910646.0	2.123781	Y
6	IC 410-90578/11	100.0	210.298072	50.0	887603.0	2.102981	Y
7	IC 410-90578/10	300.0	599.025167	50.0	807677.0	1.996751	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

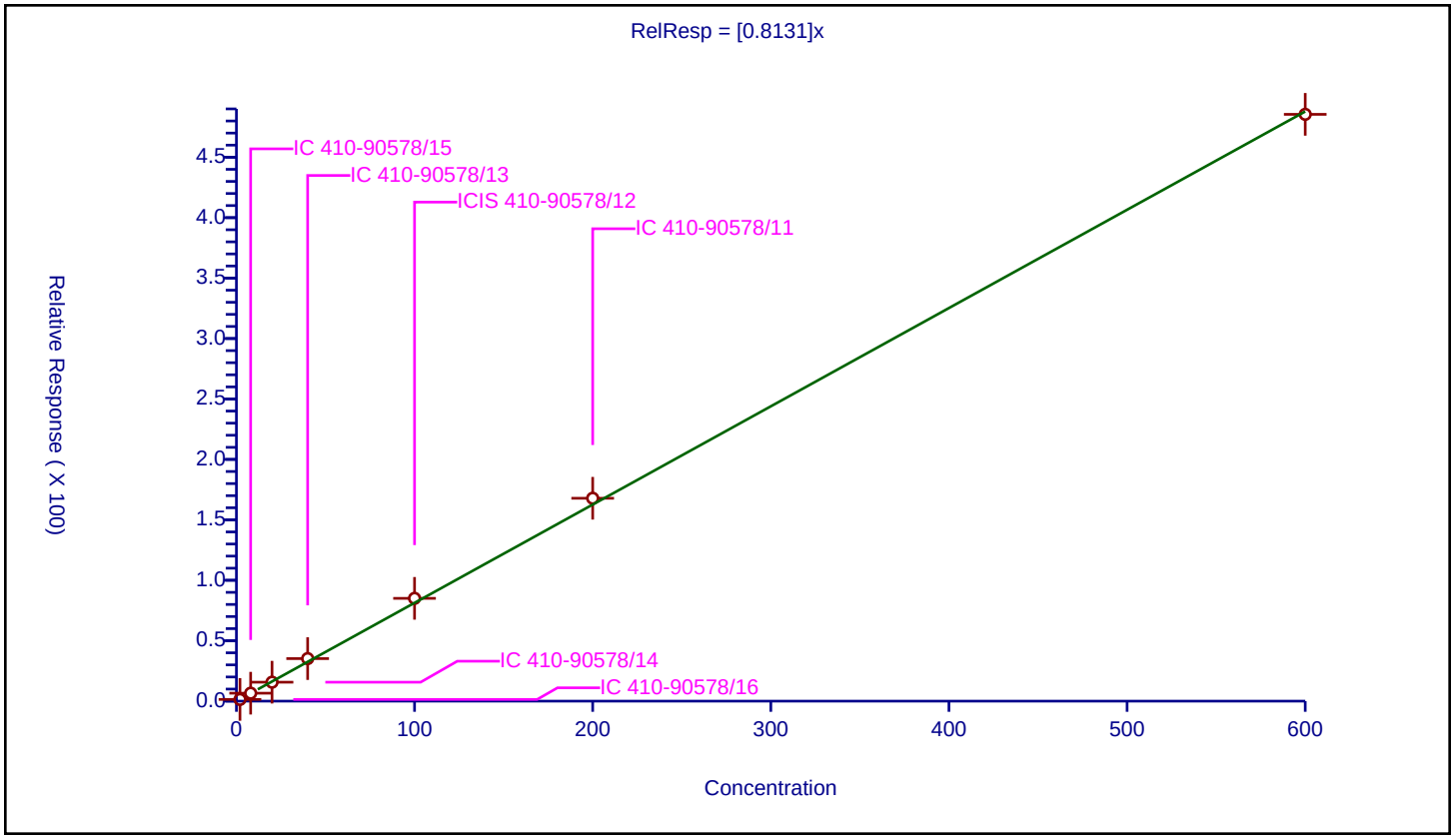
Curve Coefficients

Intercept:	0
Slope:	0.8131

Error Coefficients

Standard Error:	3490000
Relative Standard Error:	6.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	2.0	1.410911	50.0	876455.0	0.705455	Y
2	IC 410-90578/15	8.0	6.582972	50.0	892849.0	0.822872	Y
3	IC 410-90578/14	20.0	15.679398	50.0	886520.0	0.78397	Y
4	IC 410-90578/13	40.0	35.205427	50.0	903872.0	0.880136	Y
5	ICIS 410-90578/12	100.0	85.055389	50.0	910646.0	0.850554	Y
6	IC 410-90578/11	200.0	167.85742	50.0	887603.0	0.839287	Y
7	IC 410-90578/10	600.0	485.487082	50.0	807677.0	0.809145	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

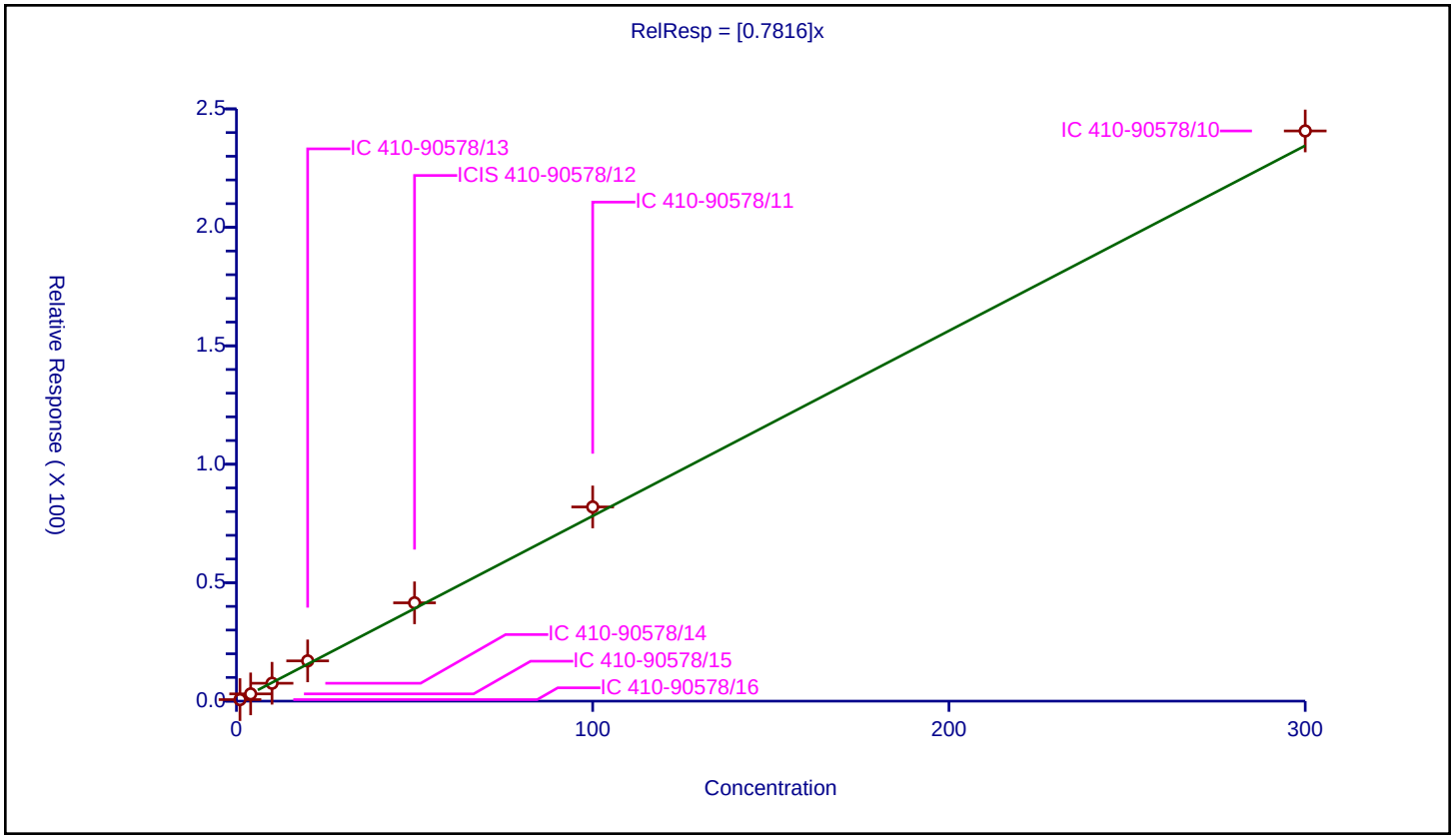
Curve Coefficients

Intercept:	0
Slope:	0.7816

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	8.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.649606	50.0	876455.0	0.649606	Y
2	IC 410-90578/15	4.0	3.0611	50.0	892849.0	0.765275	Y
3	IC 410-90578/14	10.0	7.545007	50.0	886520.0	0.754501	Y
4	IC 410-90578/13	20.0	16.997595	50.0	903872.0	0.84988	Y
5	ICIS 410-90578/12	50.0	41.497519	50.0	910646.0	0.82995	Y
6	IC 410-90578/11	100.0	81.971557	50.0	887603.0	0.819716	Y
7	IC 410-90578/10	300.0	240.690028	50.0	807677.0	0.8023	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

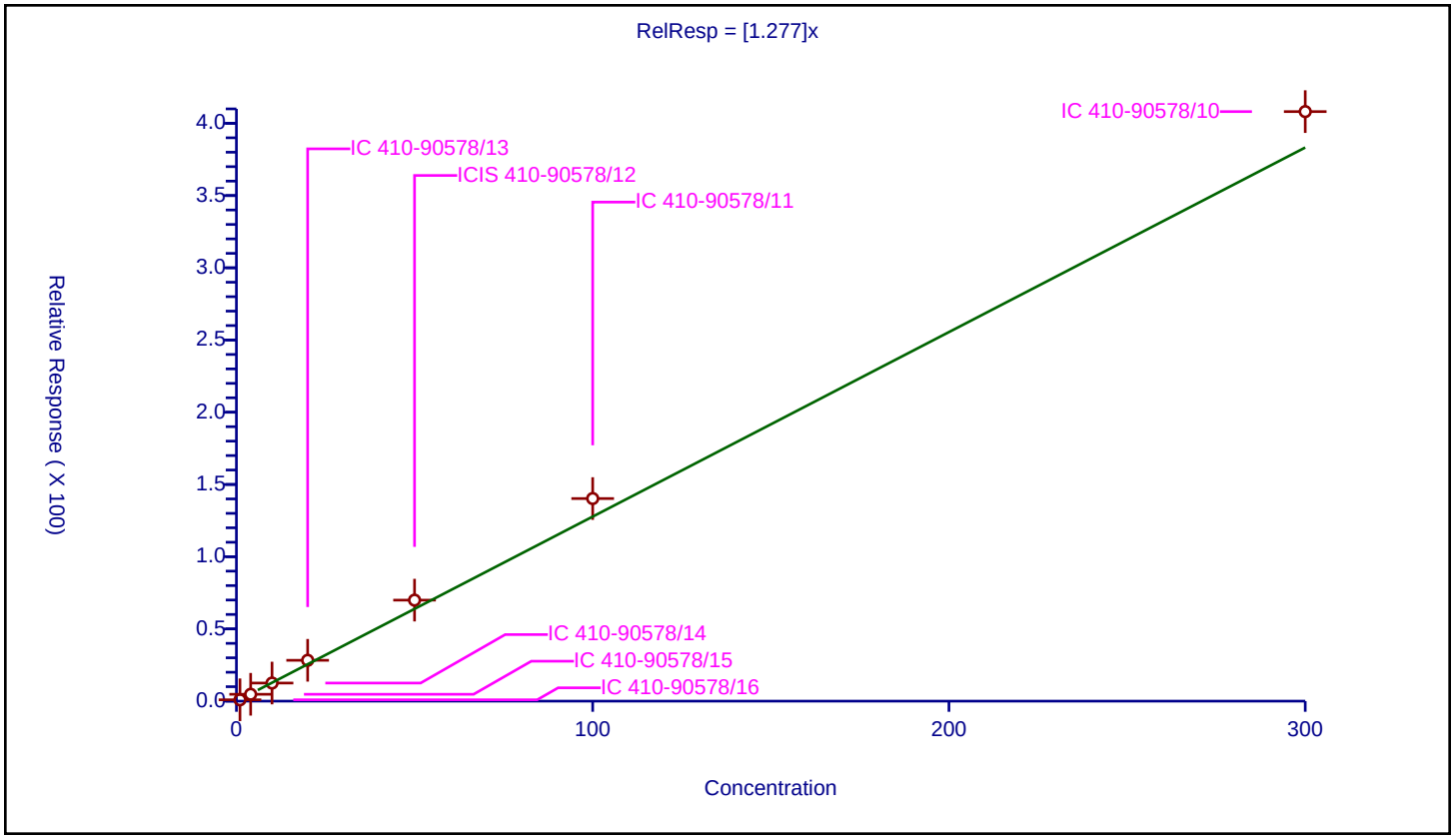
Curve Coefficients

Intercept:	0
Slope:	1.277

Error Coefficients

Standard Error:	2930000
Relative Standard Error:	13.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.926459	50.0	876455.0	0.926459	Y
2	IC 410-90578/15	4.0	4.752427	50.0	892849.0	1.188107	Y
3	IC 410-90578/14	10.0	12.525155	50.0	886520.0	1.252515	Y
4	IC 410-90578/13	20.0	28.277621	50.0	903872.0	1.413881	Y
5	ICIS 410-90578/12	50.0	69.921517	50.0	910646.0	1.39843	Y
6	IC 410-90578/11	100.0	140.241133	50.0	887603.0	1.402411	Y
7	IC 410-90578/10	300.0	408.121006	50.0	807677.0	1.360403	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

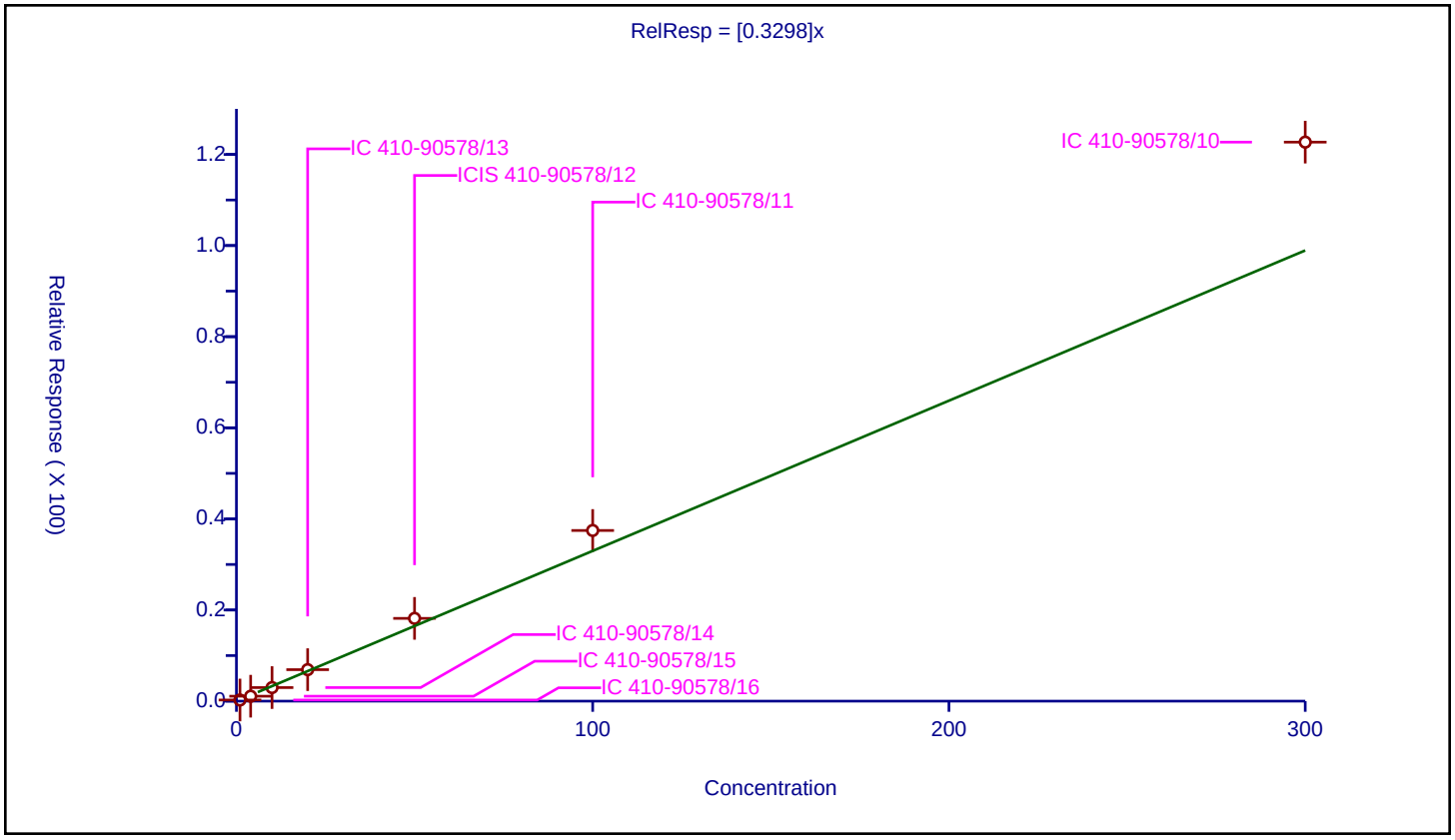
Curve Coefficients

Intercept:	0
Slope:	0.3298

Error Coefficients

Standard Error:	866000
Relative Standard Error:	17.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.247531	50.0	876455.0	0.247531	Y
2	IC 410-90578/15	4.0	1.08193	50.0	892849.0	0.270482	Y
3	IC 410-90578/14	10.0	2.978387	50.0	886520.0	0.297839	Y
4	IC 410-90578/13	20.0	6.910326	50.0	903872.0	0.345516	Y
5	ICIS 410-90578/12	50.0	18.168037	50.0	910646.0	0.363361	Y
6	IC 410-90578/11	100.0	37.461568	50.0	887603.0	0.374616	Y
7	IC 410-90578/10	300.0	122.701897	50.0	807677.0	0.409006	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

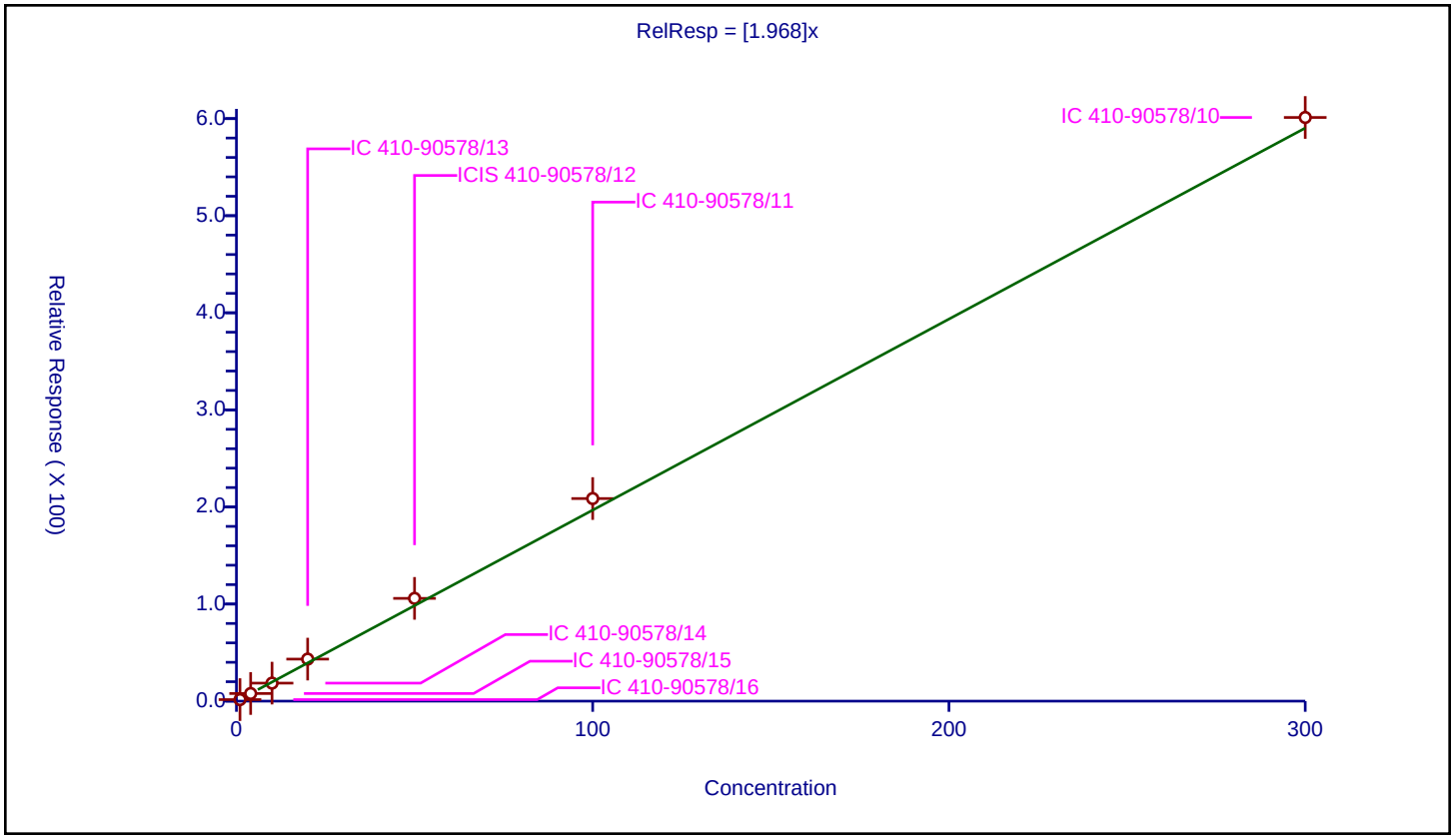
Curve Coefficients

Intercept:	0
Slope:	1.968

Error Coefficients

Standard Error:	4330000
Relative Standard Error:	10.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.580344	50.0	876455.0	1.580344	Y
2	IC 410-90578/15	4.0	7.855472	50.0	892849.0	1.963868	Y
3	IC 410-90578/14	10.0	18.556716	50.0	886520.0	1.855672	Y
4	IC 410-90578/13	20.0	43.301817	50.0	903872.0	2.165091	Y
5	ICIS 410-90578/12	50.0	105.85469	50.0	910646.0	2.117094	Y
6	IC 410-90578/11	100.0	208.664966	50.0	887603.0	2.08665	Y
7	IC 410-90578/10	300.0	601.163398	50.0	807677.0	2.003878	Y



Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

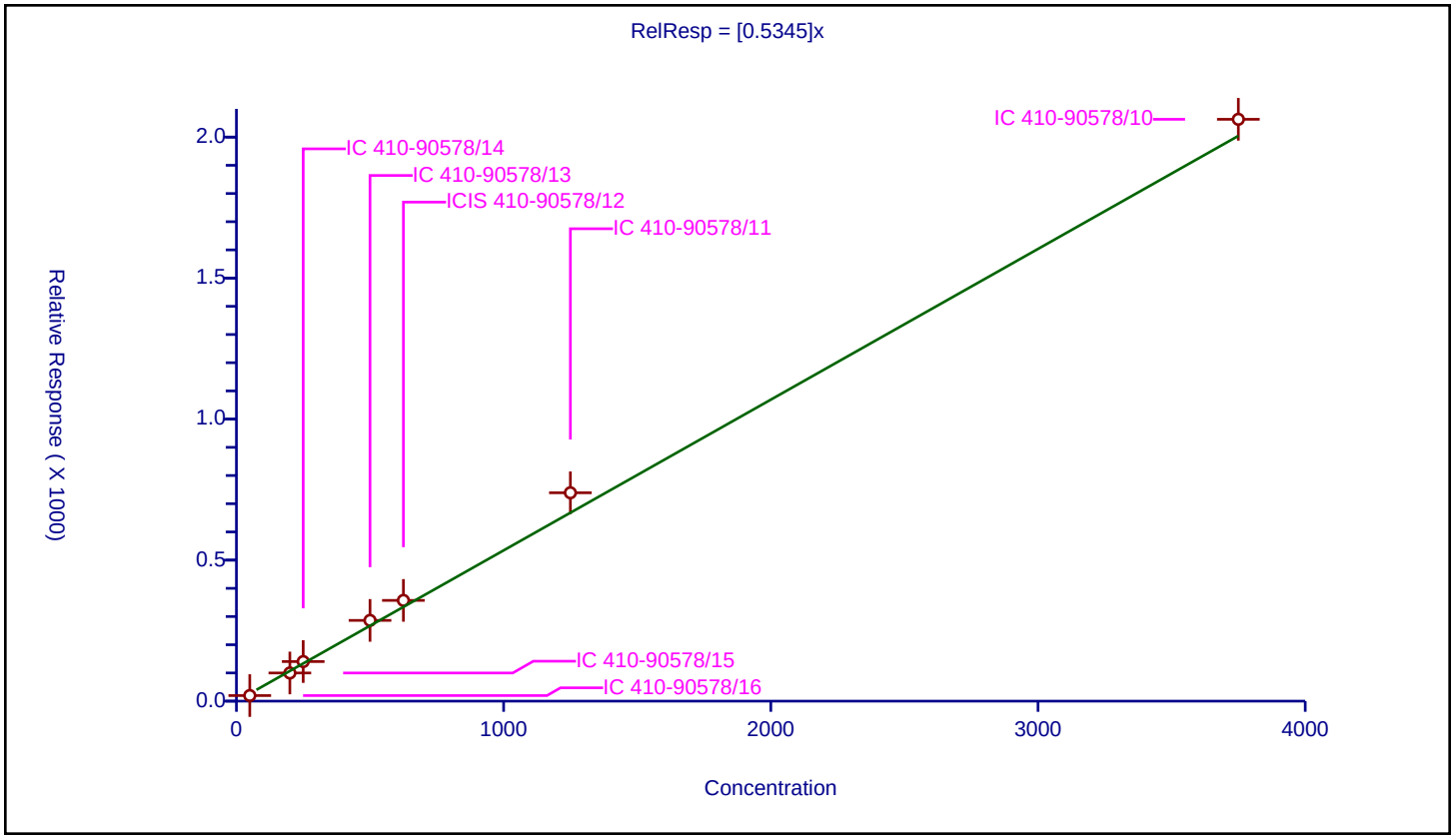
Curve Coefficients

Intercept:	0
Slope:	0.5345

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	12.7
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	49.996721	19.758601	250.0	442048.0	0.395198	Y
2	IC 410-90578/15	199.986883	99.862355	250.0	464239.0	0.499345	Y
3	IC 410-90578/14	249.983604	140.373852	250.0	465425.0	0.561532	Y
4	IC 410-90578/13	499.967208	286.247822	250.0	472387.0	0.572533	Y
5	ICIS 410-90578/12	624.95901	357.21127	250.0	464613.0	0.571576	Y
6	IC 410-90578/11	1249.91802	738.818233	250.0	436626.0	0.591093	Y
7	IC 410-90578/10	3749.75406	2063.067844	250.0	356612.0	0.550188	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

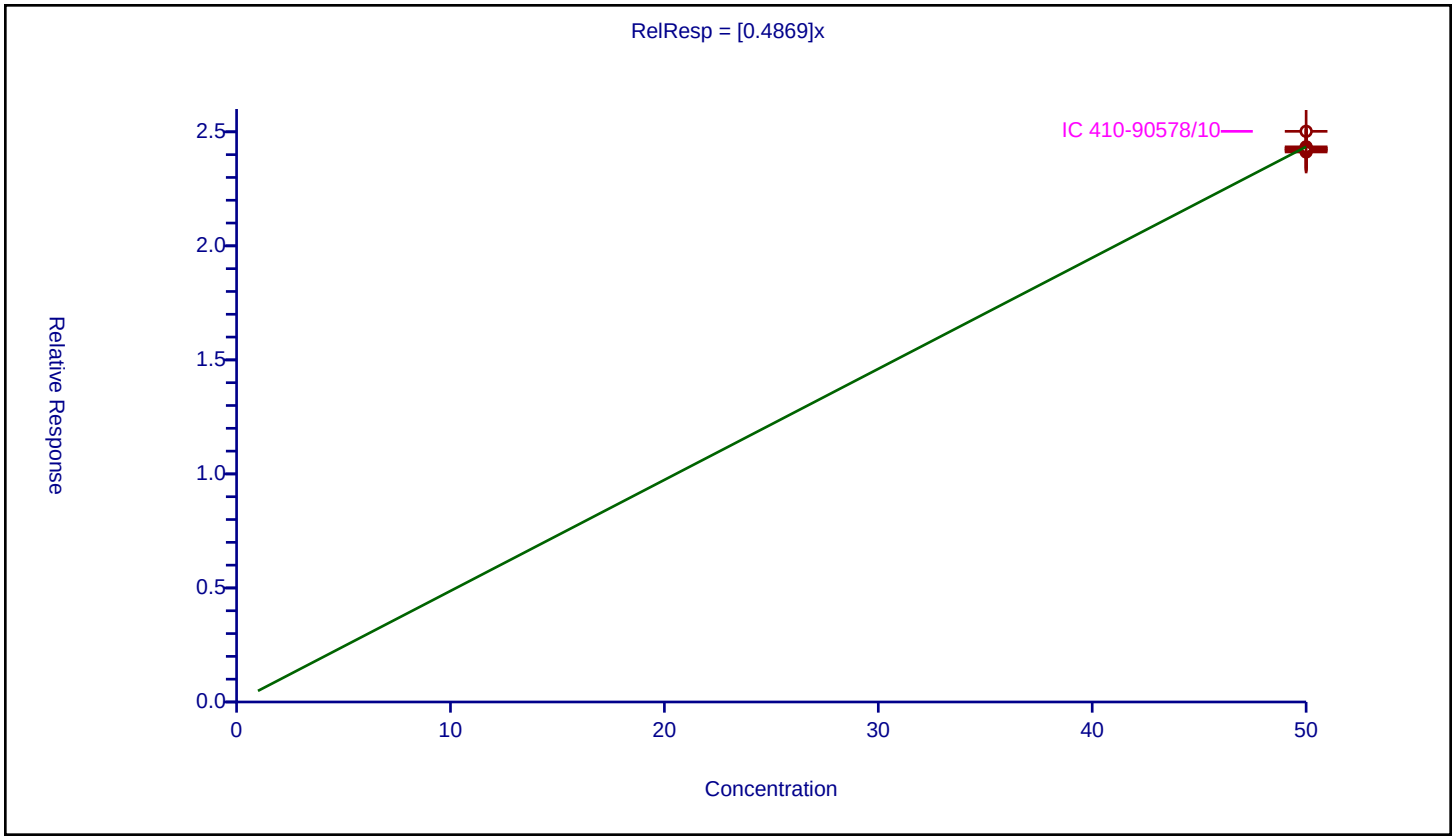
Curve Coefficients

Intercept:	0
Slope:	0.4869

Error Coefficients

Standard Error:	463000
Relative Standard Error:	1.3
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/10	50.0	25.021203	50.0	807677.0	0.500424	Y
2	IC 410-90578/11	50.0	24.116581	50.0	887603.0	0.482332	Y
3	ICIS 410-90578/12	50.0	24.189641	50.0	910646.0	0.483793	Y
4	IC 410-90578/13	50.0	24.204533	50.0	903872.0	0.484091	Y
5	IC 410-90578/14	50.0	24.258505	50.0	886520.0	0.48517	Y
6	IC 410-90578/15	50.0	24.341462	50.0	892849.0	0.486829	Y
7	IC 410-90578/16	50.0	24.286016	50.0	876455.0	0.48572	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

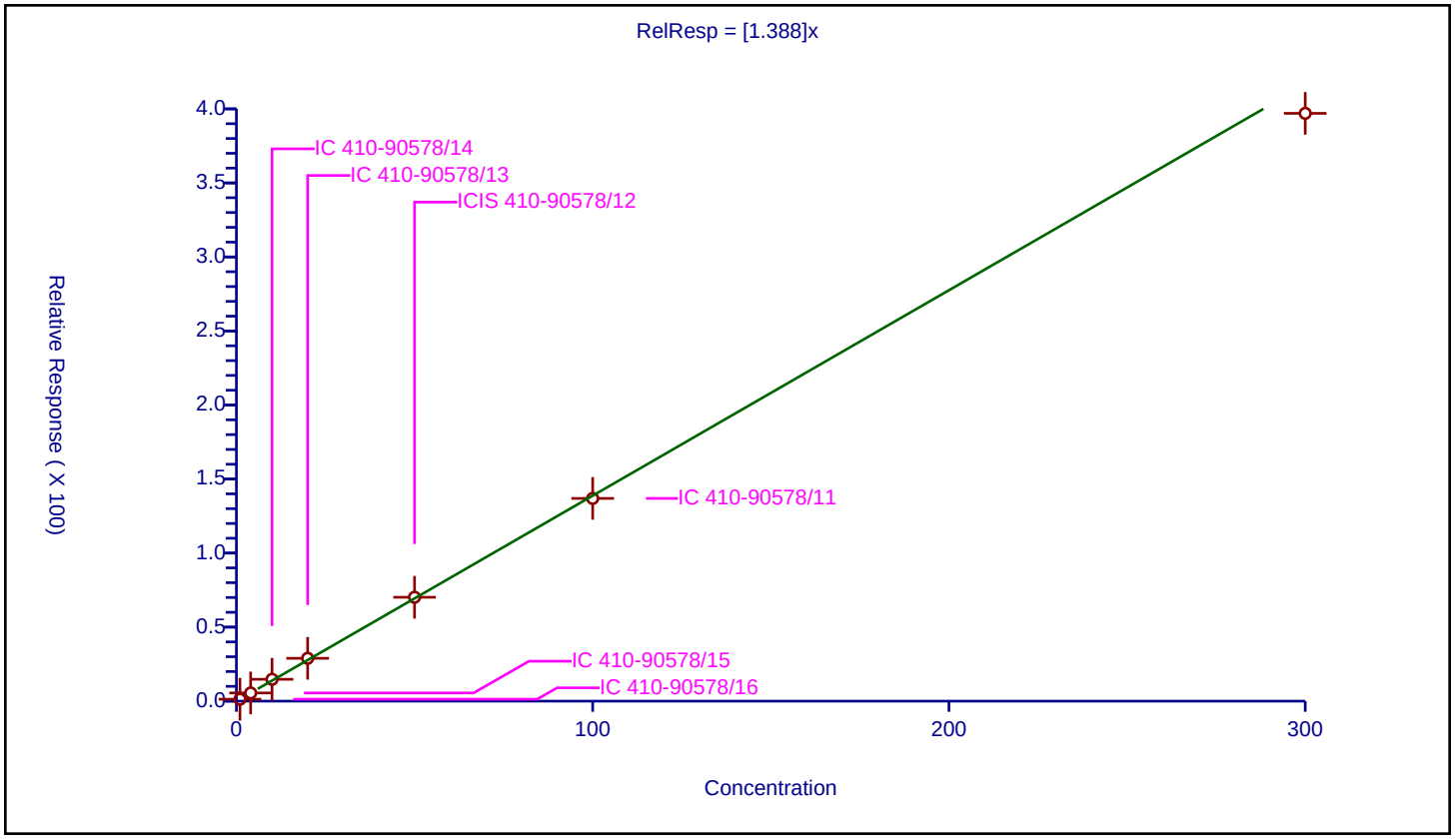
Curve Coefficients

Intercept:	0
Slope:	1.388

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.312525	50.0	475686.0	1.312525	Y
2	IC 410-90578/15	4.0	5.529948	50.0	489444.0	1.382487	Y
3	IC 410-90578/14	10.0	14.756188	50.0	482174.0	1.475619	Y
4	IC 410-90578/13	20.0	28.9352	50.0	494816.0	1.44676	Y
5	ICIS 410-90578/12	50.0	70.171727	50.0	496135.0	1.403435	Y
6	IC 410-90578/11	100.0	136.916644	50.0	486324.0	1.369166	Y
7	IC 410-90578/10	300.0	396.978816	50.0	447937.0	1.323263	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

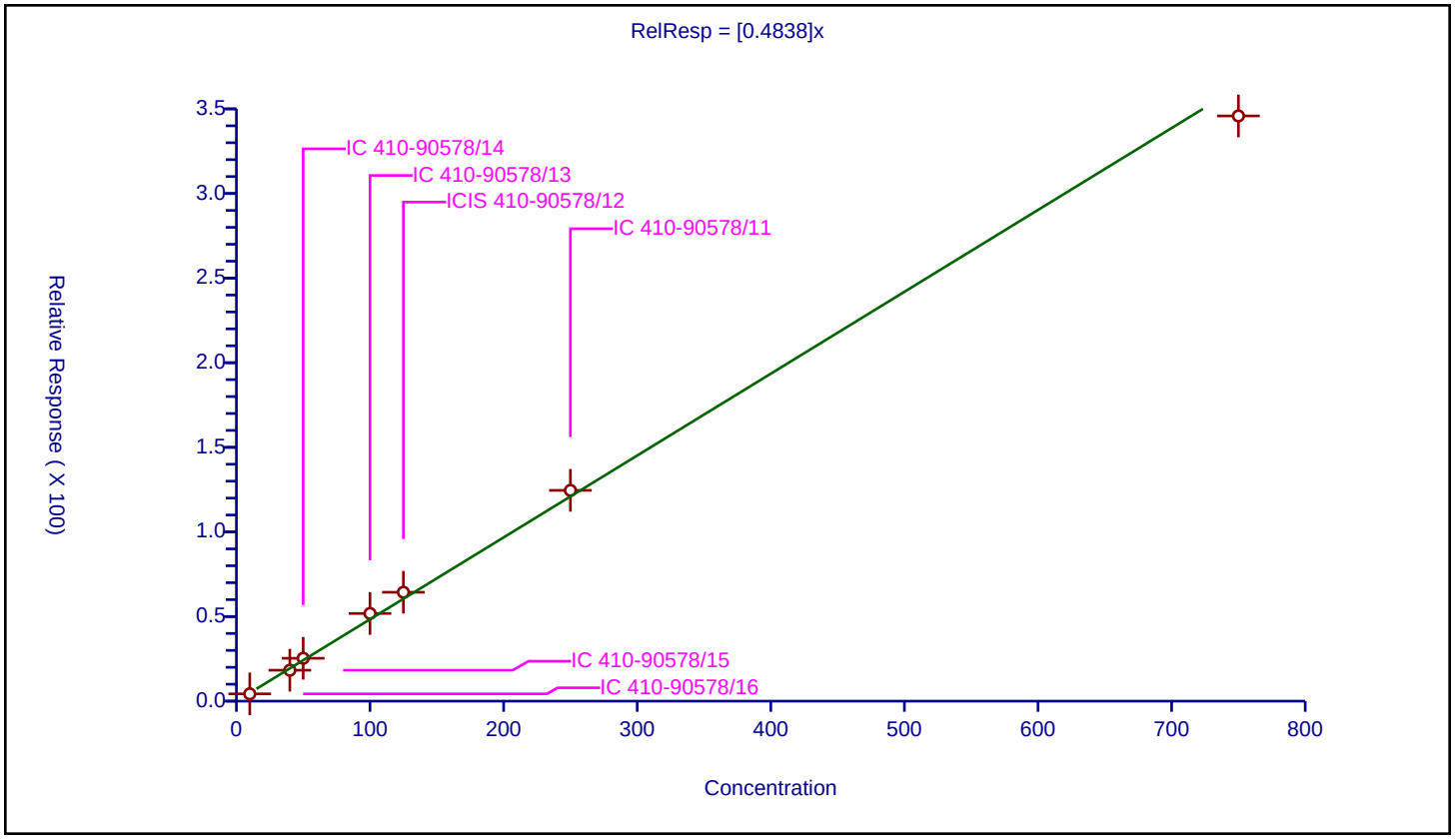
Curve Coefficients

Intercept:	0
Slope:	0.4838

Error Coefficients

Standard Error:	1400000
Relative Standard Error:	7.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	10.0	4.304941	50.0	475686.0	0.430494	Y
2	IC 410-90578/15	40.0	18.281969	50.0	489444.0	0.457049	Y
3	IC 410-90578/14	50.0	25.334527	50.0	482174.0	0.506691	Y
4	IC 410-90578/13	100.0	51.814715	50.0	494816.0	0.518147	Y
5	ICIS 410-90578/12	125.0	64.354158	50.0	496135.0	0.514833	Y
6	IC 410-90578/11	250.0	124.562432	50.0	486324.0	0.49825	Y
7	IC 410-90578/10	750.0	345.825529	50.0	447937.0	0.461101	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

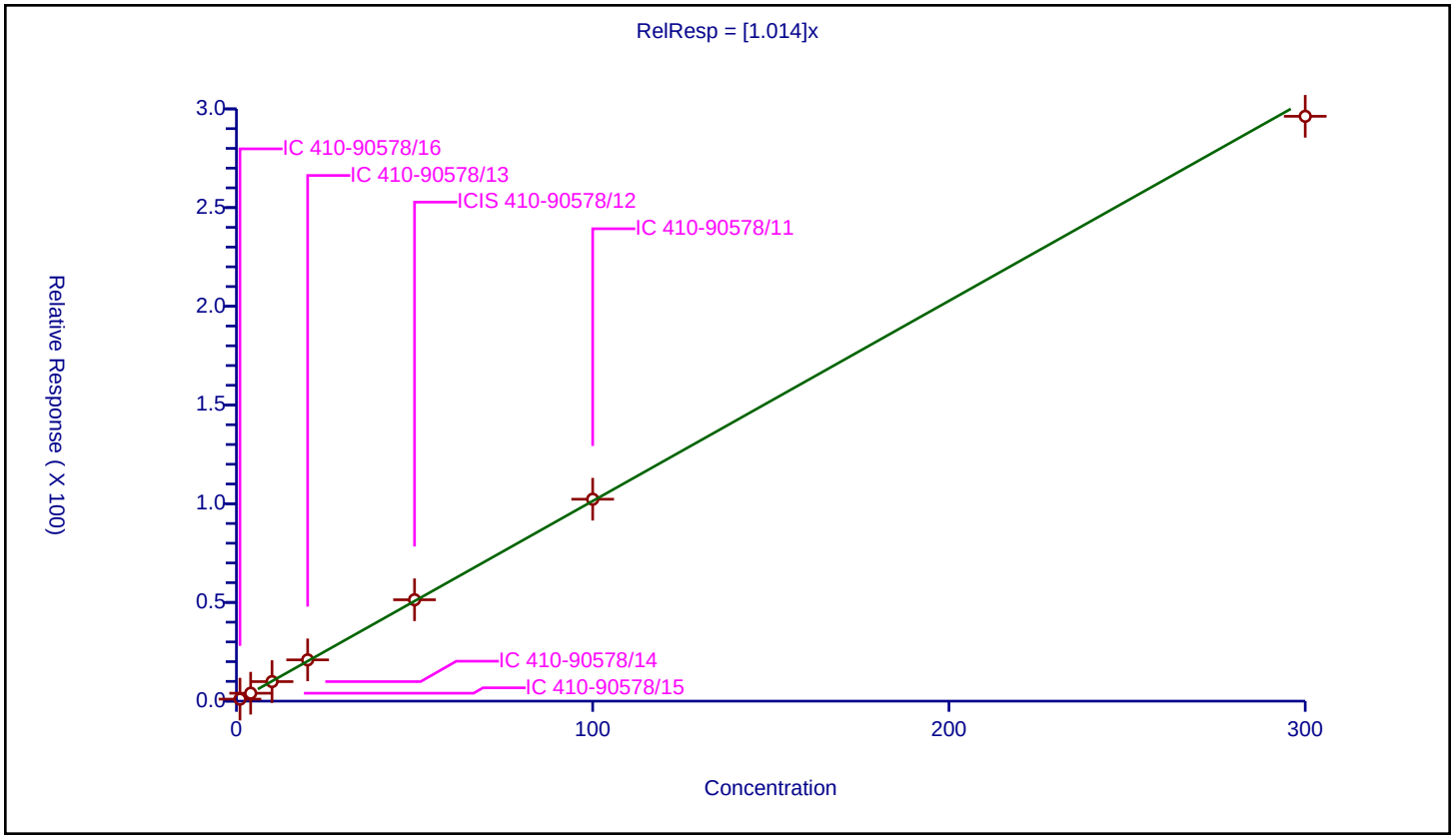
Curve Coefficients

Intercept:	0
Slope:	1.014

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	2.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.020316	50.0	475686.0	1.020316	Y
2	IC 410-90578/15	4.0	4.01527	50.0	489444.0	1.003818	Y
3	IC 410-90578/14	10.0	9.889583	50.0	482174.0	0.988958	Y
4	IC 410-90578/13	20.0	20.907165	50.0	494816.0	1.045358	Y
5	ICIS 410-90578/12	50.0	51.351044	50.0	496135.0	1.027021	Y
6	IC 410-90578/11	100.0	102.279139	50.0	486324.0	1.022791	Y
7	IC 410-90578/10	300.0	296.248133	50.0	447937.0	0.987494	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

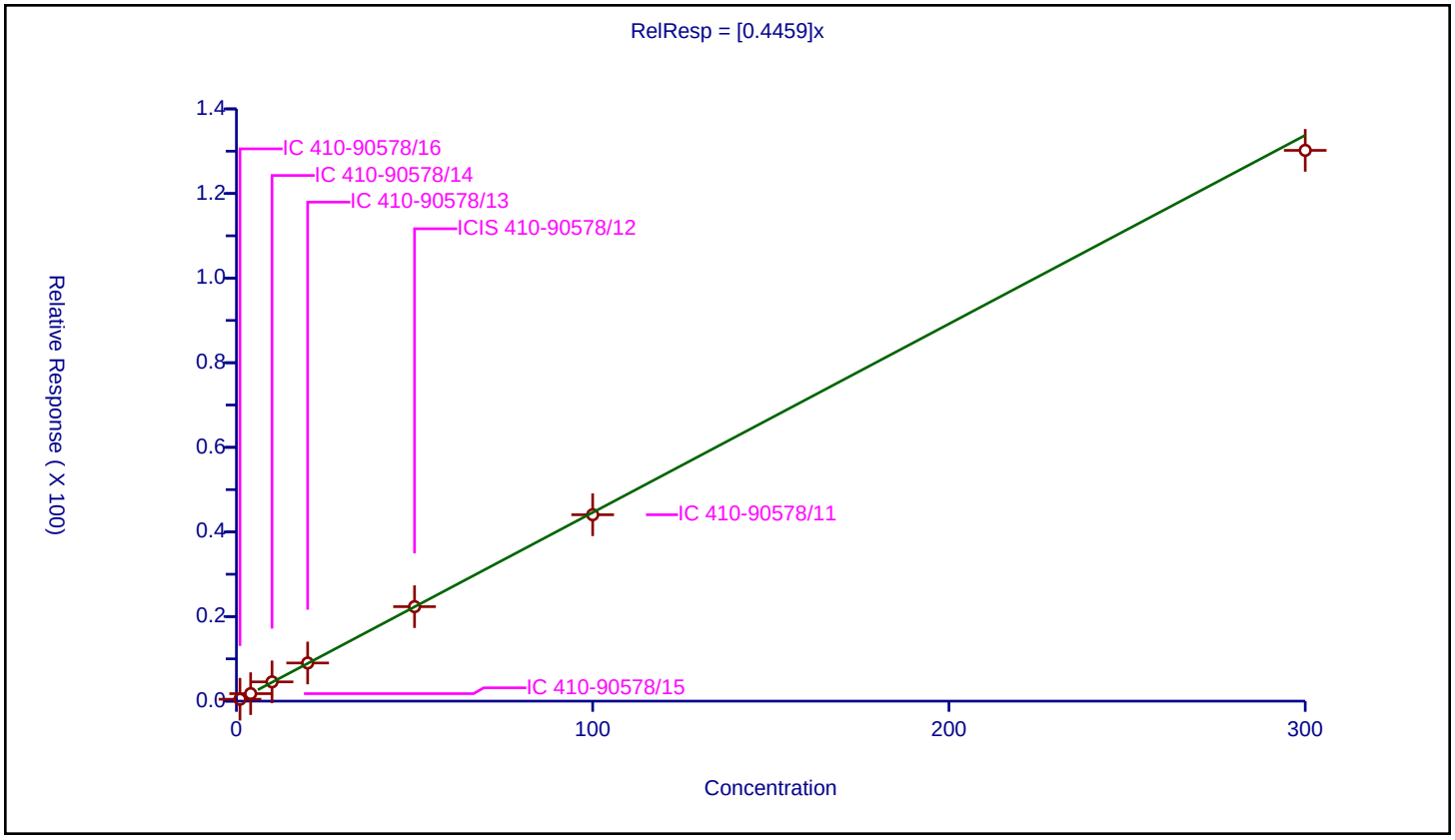
Curve Coefficients

Intercept:	0
Slope:	0.4459

Error Coefficients

Standard Error:	517000
Relative Standard Error:	1.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.449877	50.0	475686.0	0.449877	Y
2	IC 410-90578/15	4.0	1.774973	50.0	489444.0	0.443743	Y
3	IC 410-90578/14	10.0	4.552299	50.0	482174.0	0.45523	Y
4	IC 410-90578/13	20.0	9.020727	50.0	494816.0	0.451036	Y
5	ICIS 410-90578/12	50.0	22.332027	50.0	496135.0	0.446641	Y
6	IC 410-90578/11	100.0	44.064656	50.0	486324.0	0.440647	Y
7	IC 410-90578/10	300.0	130.195318	50.0	447937.0	0.433984	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

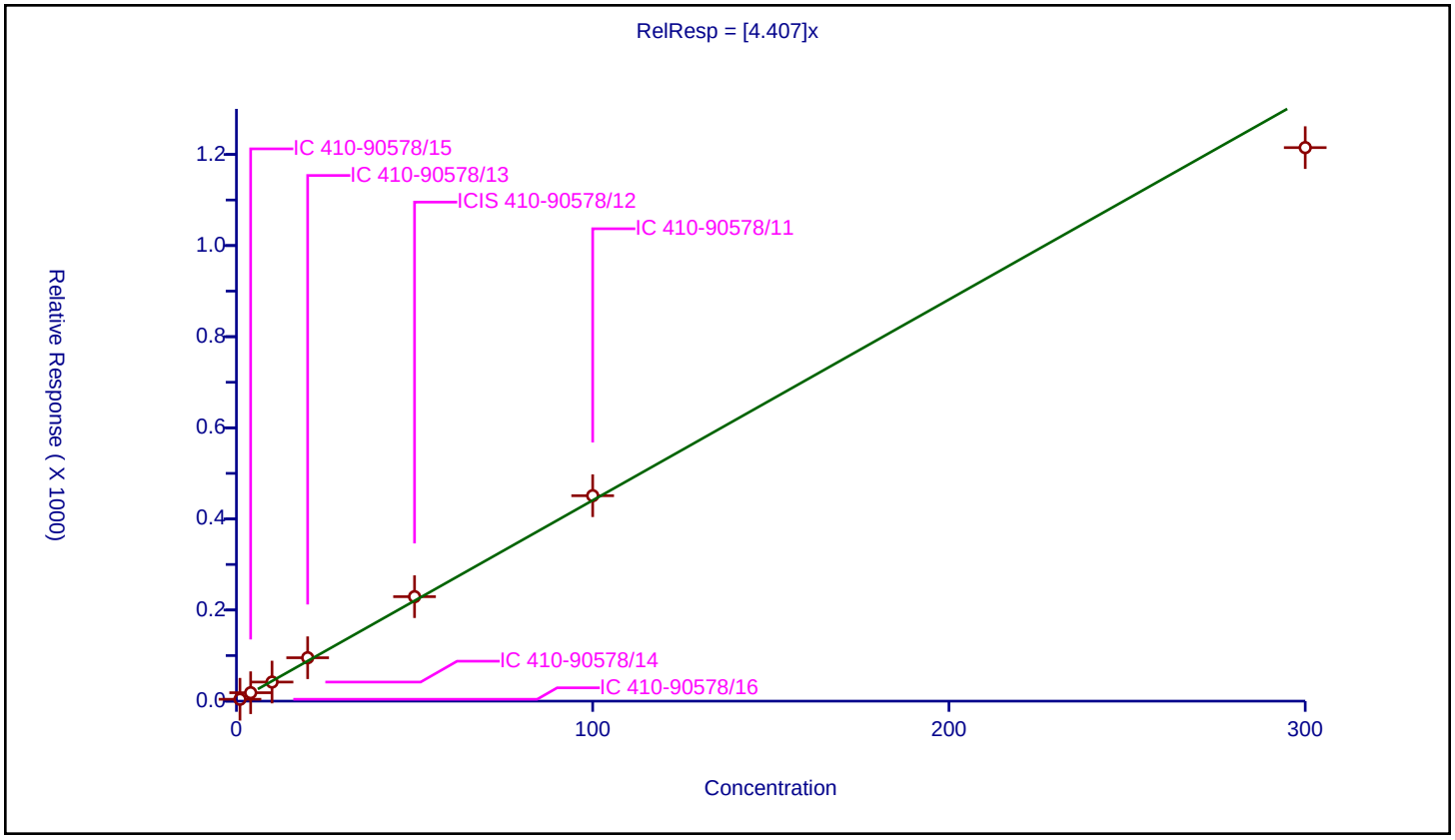
Curve Coefficients

Intercept:	0
Slope:	4.407

Error Coefficients

Standard Error:	4900000
Relative Standard Error:	6.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	4.129405	50.0	475686.0	4.129405	Y
2	IC 410-90578/15	4.0	18.498133	50.0	489444.0	4.624533	Y
3	IC 410-90578/14	10.0	41.889442	50.0	482174.0	4.188944	Y
4	IC 410-90578/13	20.0	95.262886	50.0	494816.0	4.763144	Y
5	ICIS 410-90578/12	50.0	229.302811	50.0	496135.0	4.586056	Y
6	IC 410-90578/11	100.0	450.977538	50.0	486324.0	4.509775	Y
7	IC 410-90578/10	300.0	1214.980566	50.0	447937.0	4.049935	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

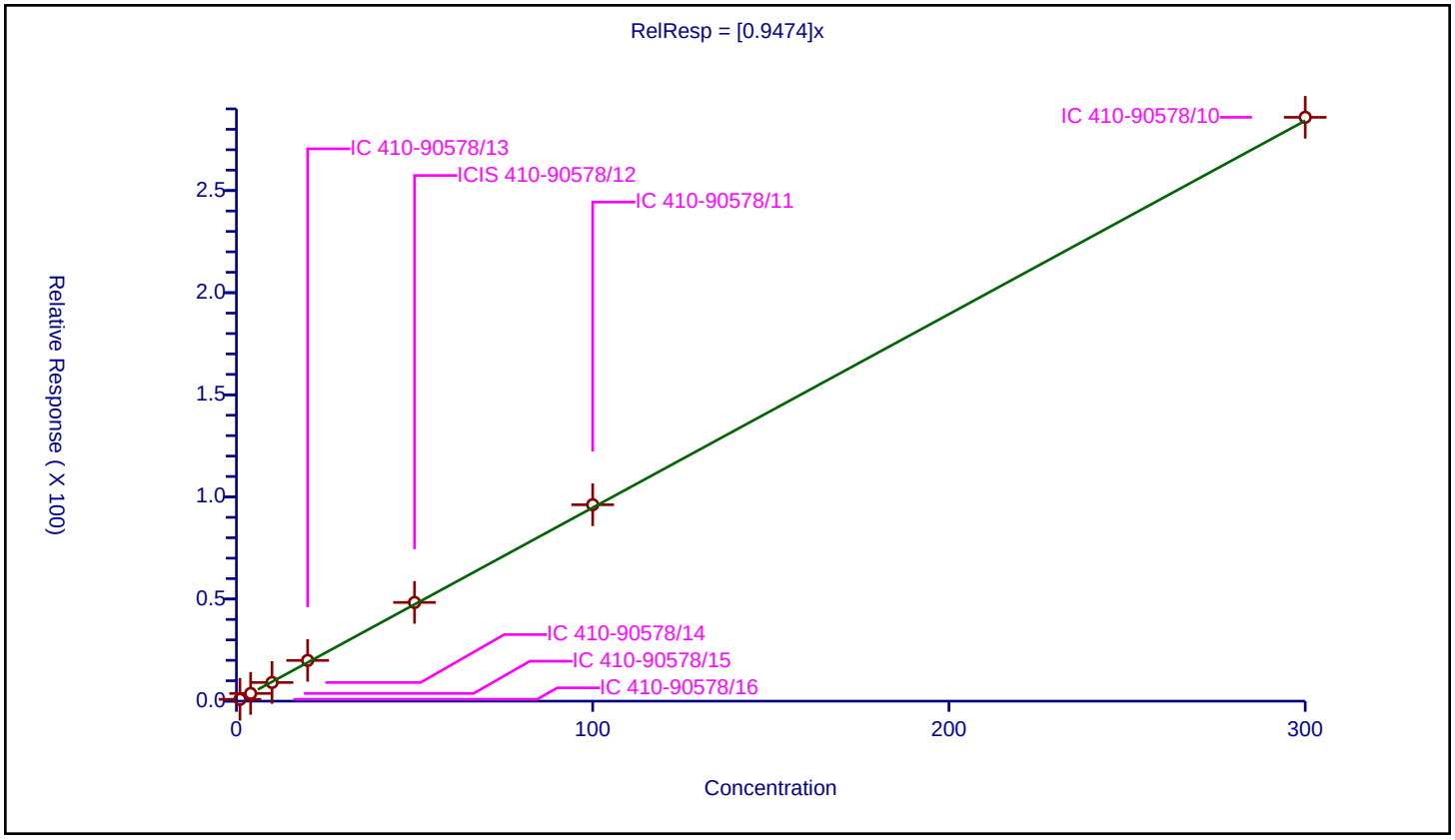
Curve Coefficients

Intercept:	0
Slope:	0.9474

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.896495	50.0	475686.0	0.896495	Y
2	IC 410-90578/15	4.0	3.771729	50.0	489444.0	0.942932	Y
3	IC 410-90578/14	10.0	9.137676	50.0	482174.0	0.913768	Y
4	IC 410-90578/13	20.0	19.948021	50.0	494816.0	0.997401	Y
5	ICIS 410-90578/12	50.0	48.33241	50.0	496135.0	0.966648	Y
6	IC 410-90578/11	100.0	96.177548	50.0	486324.0	0.961775	Y
7	IC 410-90578/10	300.0	285.873348	50.0	447937.0	0.952911	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

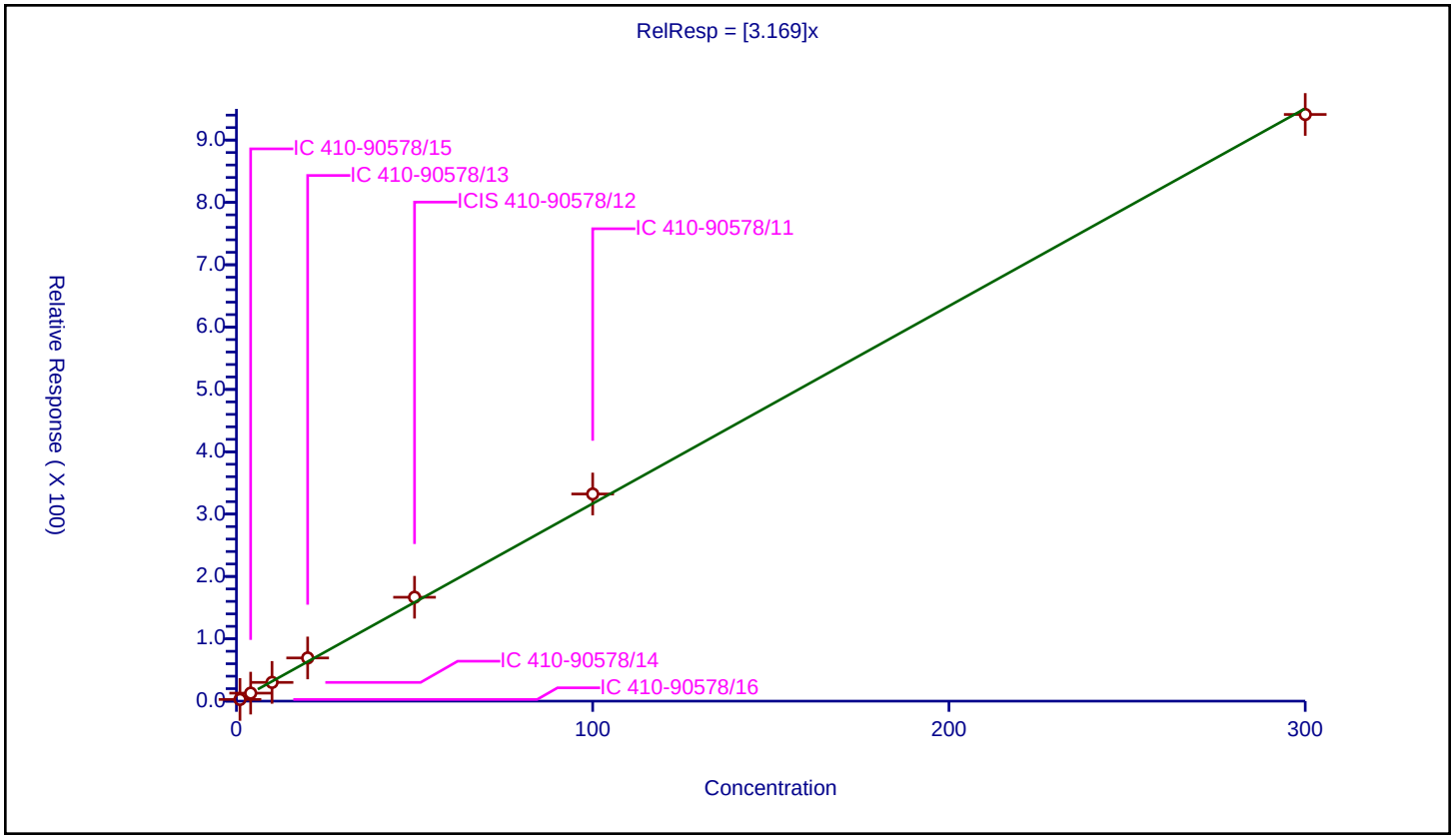
Curve Coefficients

Intercept:	0
Slope:	3.169

Error Coefficients

Standard Error:	3760000
Relative Standard Error:	7.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	2.712293	50.0	475686.0	2.712293	Y
2	IC 410-90578/15	4.0	12.823633	50.0	489444.0	3.205908	Y
3	IC 410-90578/14	10.0	30.070058	50.0	482174.0	3.007006	Y
4	IC 410-90578/13	20.0	69.272517	50.0	494816.0	3.463626	Y
5	ICIS 410-90578/12	50.0	166.634081	50.0	496135.0	3.332682	Y
6	IC 410-90578/11	100.0	332.293183	50.0	486324.0	3.322932	Y
7	IC 410-90578/10	300.0	941.090488	50.0	447937.0	3.136968	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

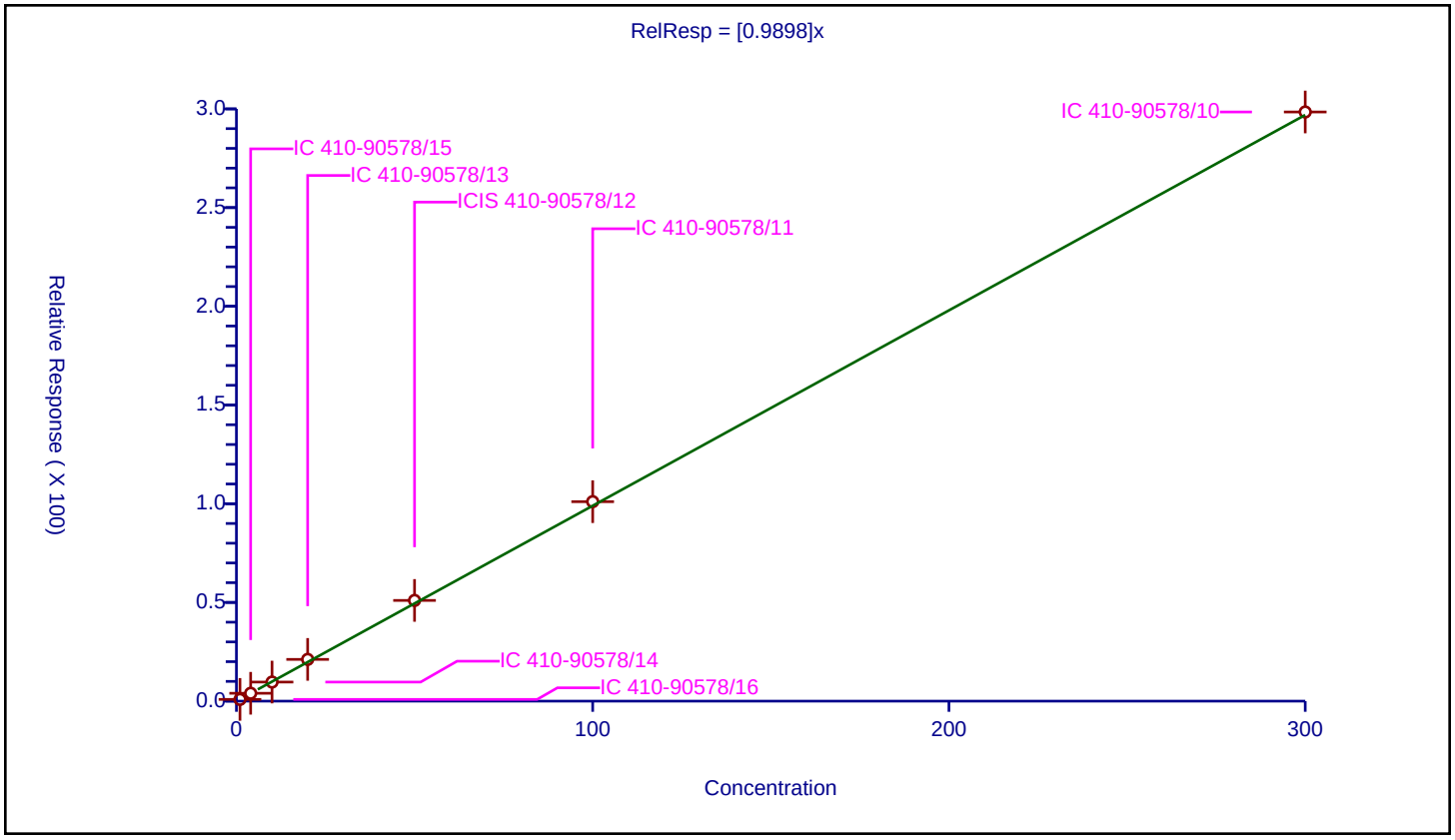
Curve Coefficients

Intercept:	0
Slope:	0.9898

Error Coefficients

Standard Error:	1180000
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 410-90578/16	1.0	0.881464	50.0	475686.0	0.881464	Y
2	IC 410-90578/15	4.0	3.987484	50.0	489444.0	0.996871	Y
3	IC 410-90578/14	10.0	9.671094	50.0	482174.0	0.967109	Y
4	IC 410-90578/13	20.0	21.147457	50.0	494816.0	1.057373	Y
5	ICIS 410-90578/12	50.0	51.013938	50.0	496135.0	1.020279	Y
6	IC 410-90578/11	100.0	101.044468	50.0	486324.0	1.010445	Y
7	IC 410-90578/10	300.0	298.42969	50.0	447937.0	0.994766	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

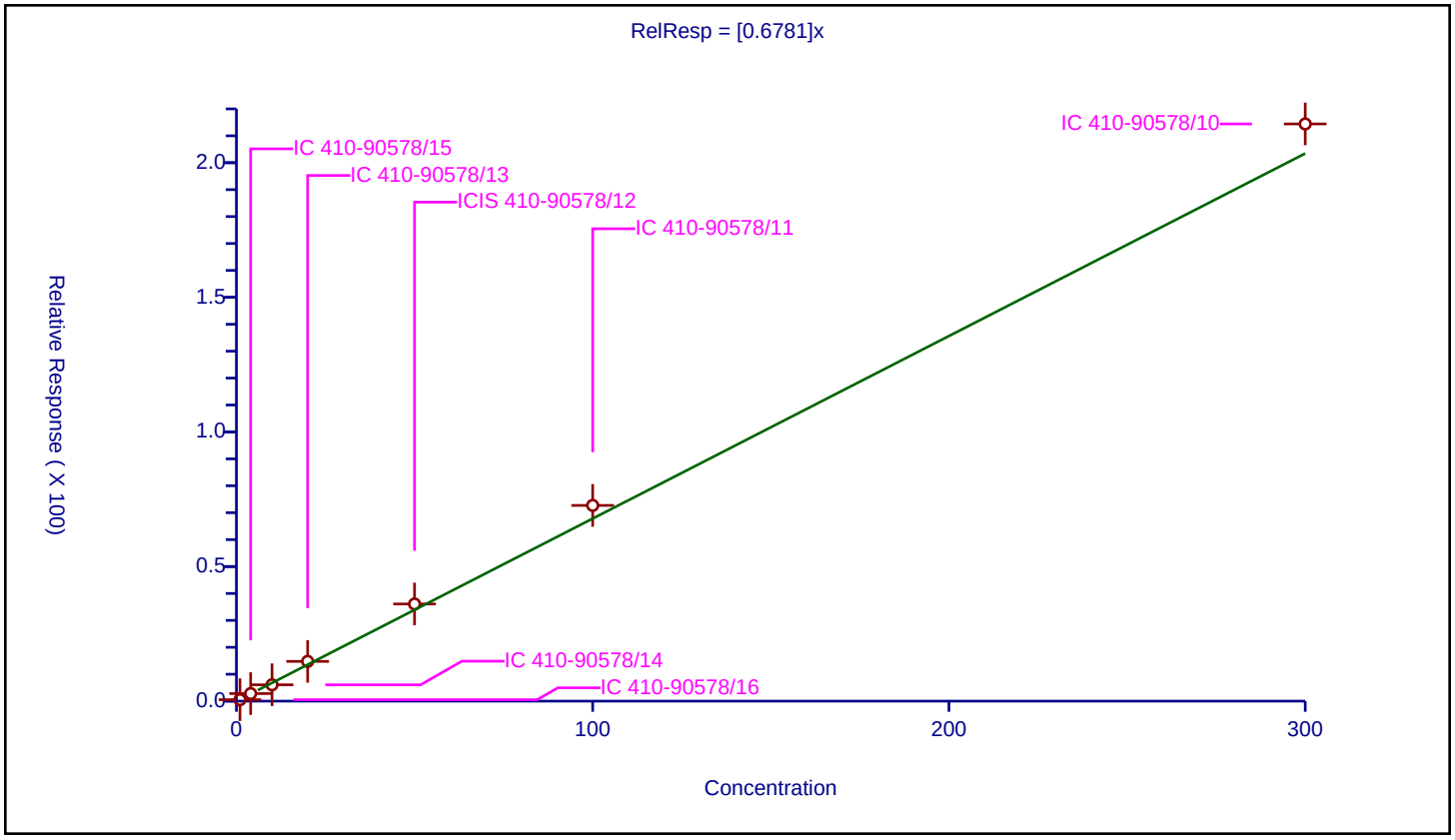
Curve Coefficients

Intercept:	0
Slope:	0.6781

Error Coefficients

Standard Error:	851000
Relative Standard Error:	11.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.534912	50.0	475686.0	0.534912	Y
2	IC 410-90578/15	4.0	2.812375	50.0	489444.0	0.703094	Y
3	IC 410-90578/14	10.0	6.073845	50.0	482174.0	0.607384	Y
4	IC 410-90578/13	20.0	14.764074	50.0	494816.0	0.738204	Y
5	ICIS 410-90578/12	50.0	36.083425	50.0	496135.0	0.721668	Y
6	IC 410-90578/11	100.0	72.699682	50.0	486324.0	0.726997	Y
7	IC 410-90578/10	300.0	214.408946	50.0	447937.0	0.714696	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

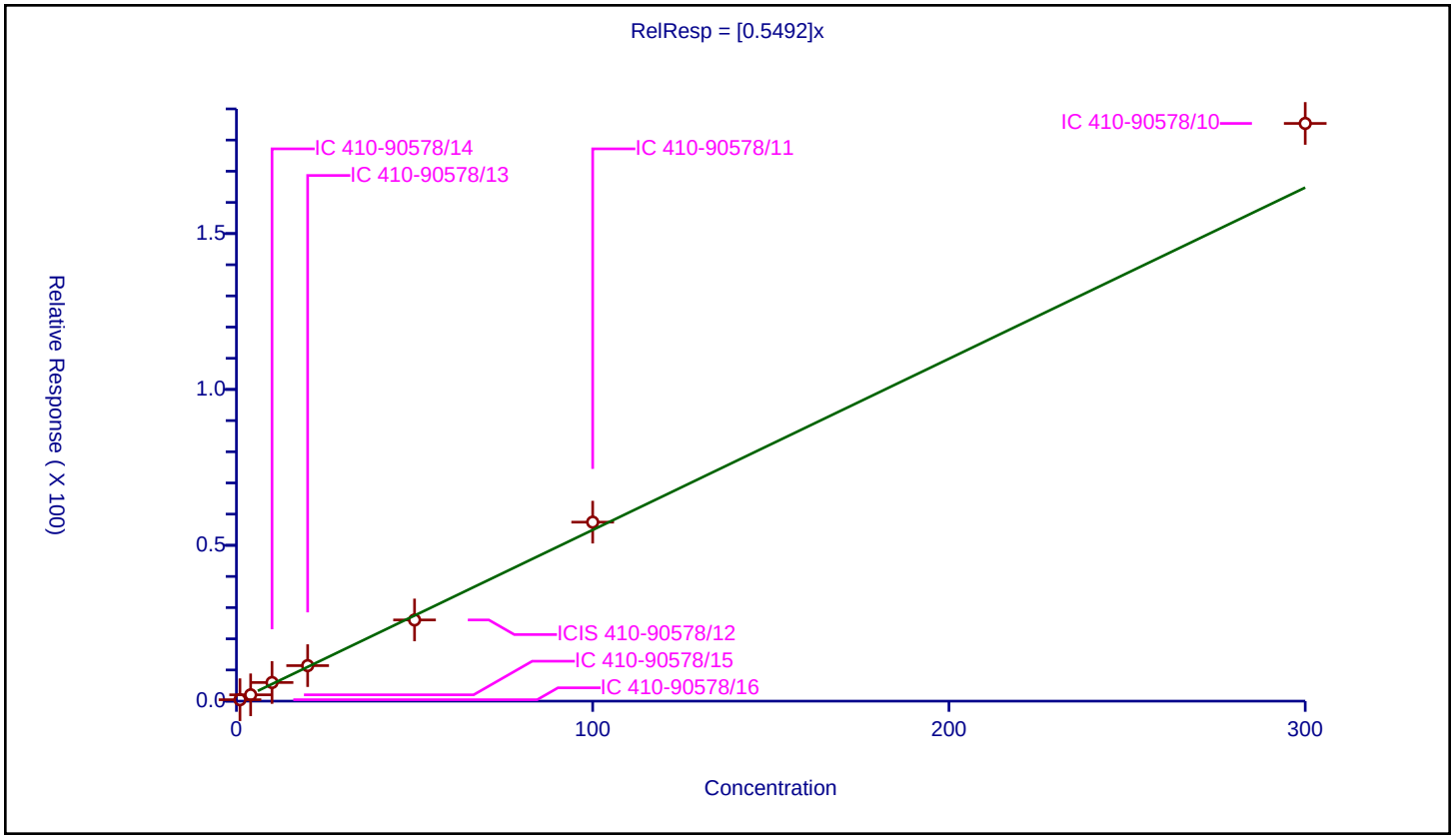
Curve Coefficients

Intercept:	0
Slope:	0.5492

Error Coefficients

Standard Error:	725000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.456183	50.0	475686.0	0.456183	Y
2	IC 410-90578/15	4.0	2.032715	50.0	489444.0	0.508179	Y
3	IC 410-90578/14	10.0	5.974607	50.0	482174.0	0.597461	Y
4	IC 410-90578/13	20.0	11.392316	50.0	494816.0	0.569616	Y
5	ICIS 410-90578/12	50.0	26.04402	50.0	496135.0	0.52088	Y
6	IC 410-90578/11	100.0	57.425605	50.0	486324.0	0.574256	Y
7	IC 410-90578/10	300.0	185.333094	50.0	447937.0	0.617777	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

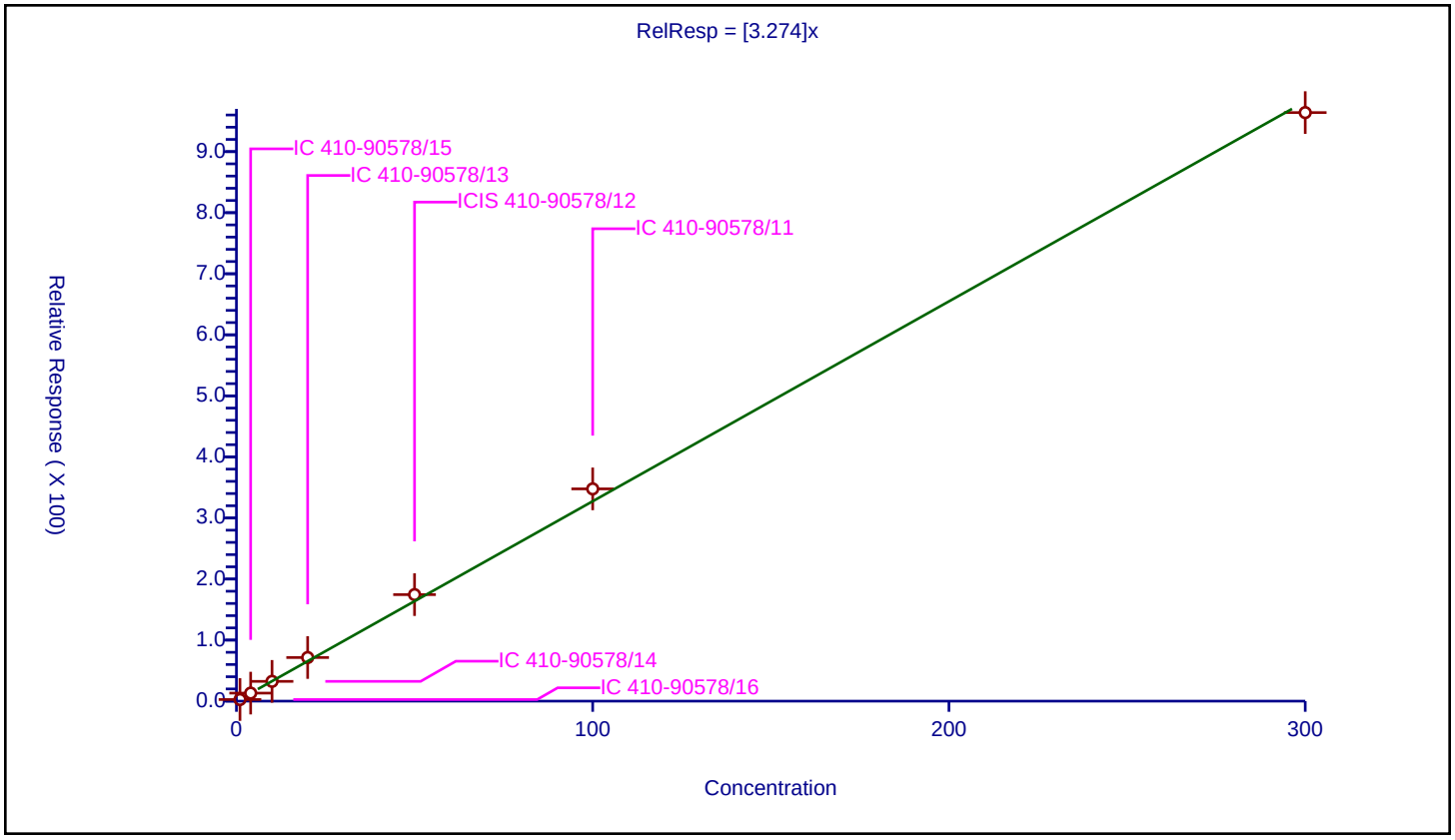
Curve Coefficients

Intercept:	0
Slope:	3.274

Error Coefficients

Standard Error:	3860000
Relative Standard Error:	9.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	2.636193	50.0	475686.0	2.636193	Y
2	IC 410-90578/15	4.0	13.158196	50.0	489444.0	3.289549	Y
3	IC 410-90578/14	10.0	32.403033	50.0	482174.0	3.240303	Y
4	IC 410-90578/13	20.0	71.414122	50.0	494816.0	3.570706	Y
5	ICIS 410-90578/12	50.0	174.482953	50.0	496135.0	3.489659	Y
6	IC 410-90578/11	100.0	347.65866	50.0	486324.0	3.476587	Y
7	IC 410-90578/10	300.0	963.915126	50.0	447937.0	3.21305	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

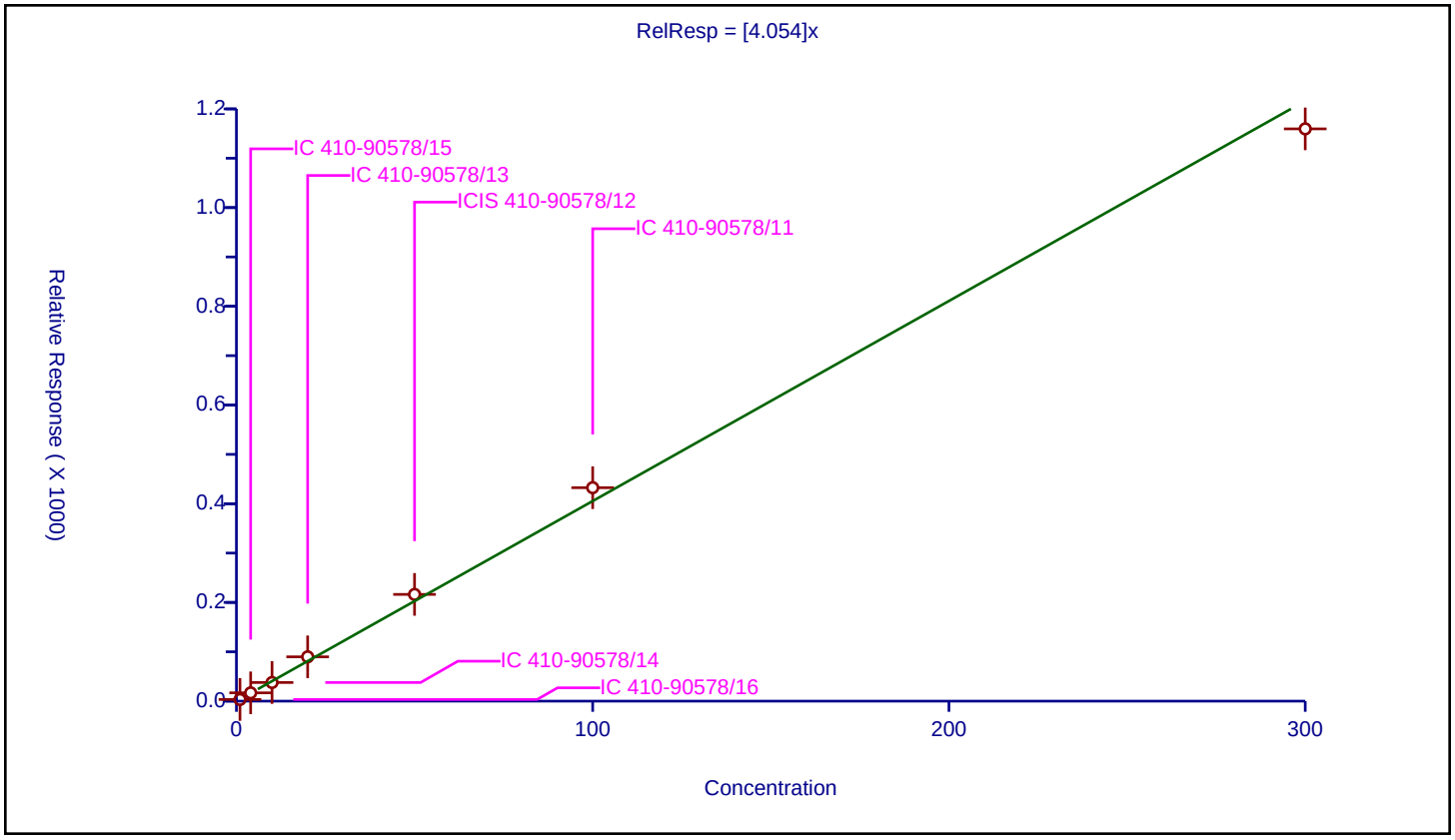
Curve Coefficients

Intercept:	0
Slope:	4.054

Error Coefficients

Standard Error:	4670000
Relative Standard Error:	9.6
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	3.396884	50.0	475686.0	3.396884	Y
2	IC 410-90578/15	4.0	16.819595	50.0	489444.0	4.204899	Y
3	IC 410-90578/14	10.0	37.723519	50.0	482174.0	3.772352	Y
4	IC 410-90578/13	20.0	89.79267	50.0	494816.0	4.489634	Y
5	ICIS 410-90578/12	50.0	216.250315	50.0	496135.0	4.325006	Y
6	IC 410-90578/11	100.0	432.485442	50.0	486324.0	4.324854	Y
7	IC 410-90578/10	300.0	1159.53739	50.0	447937.0	3.865125	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

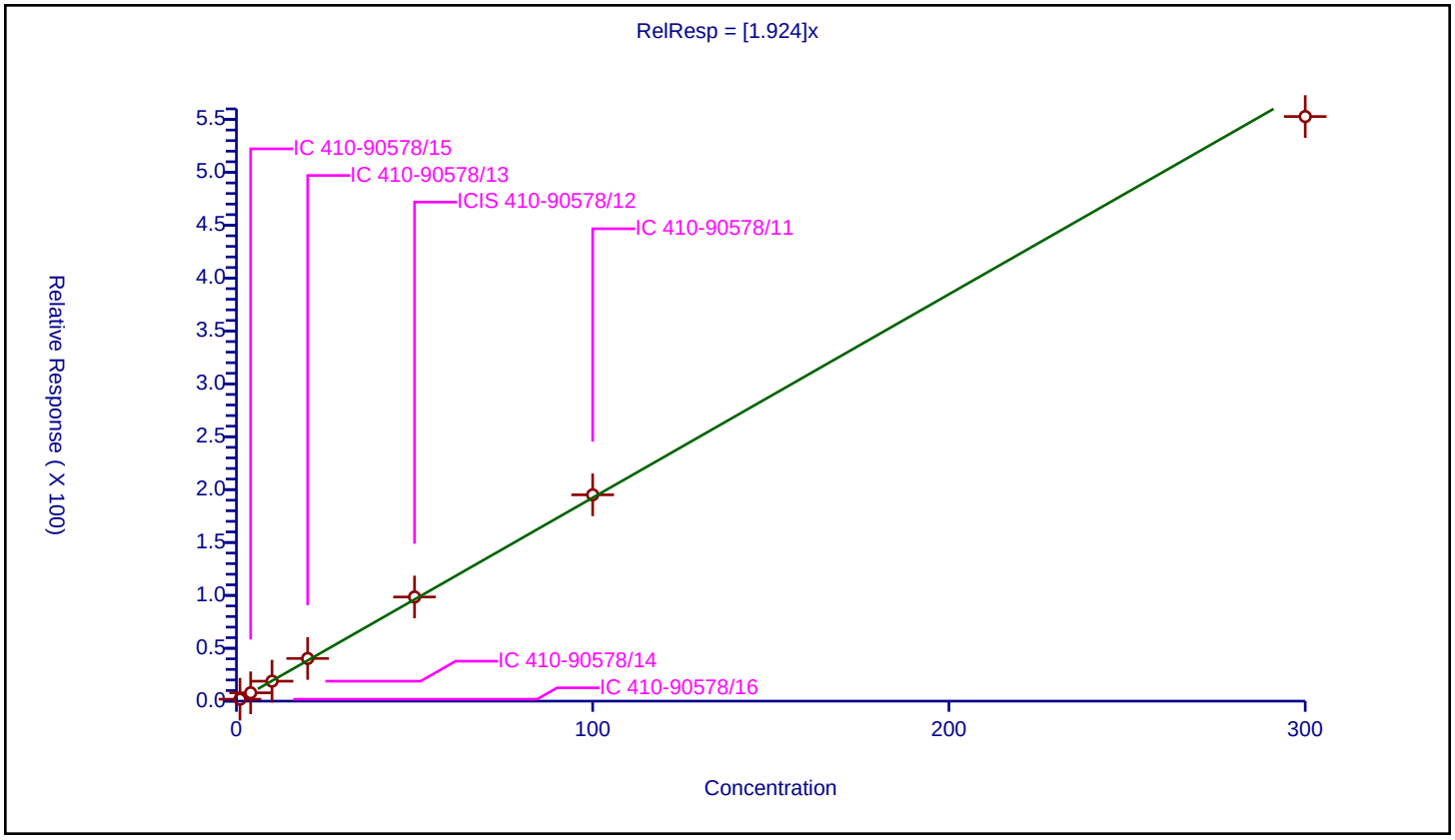
Curve Coefficients

Intercept:	0
Slope:	1.924

Error Coefficients

Standard Error:	2210000
Relative Standard Error:	3.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.822841	50.0	475686.0	1.822841	Y
2	IC 410-90578/15	4.0	7.894468	50.0	489444.0	1.973617	Y
3	IC 410-90578/14	10.0	18.885195	50.0	482174.0	1.888519	Y
4	IC 410-90578/13	20.0	40.348433	50.0	494816.0	2.017422	Y
5	ICIS 410-90578/12	50.0	98.470779	50.0	496135.0	1.969416	Y
6	IC 410-90578/11	100.0	195.087843	50.0	486324.0	1.950878	Y
7	IC 410-90578/10	300.0	552.77126	50.0	447937.0	1.842571	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

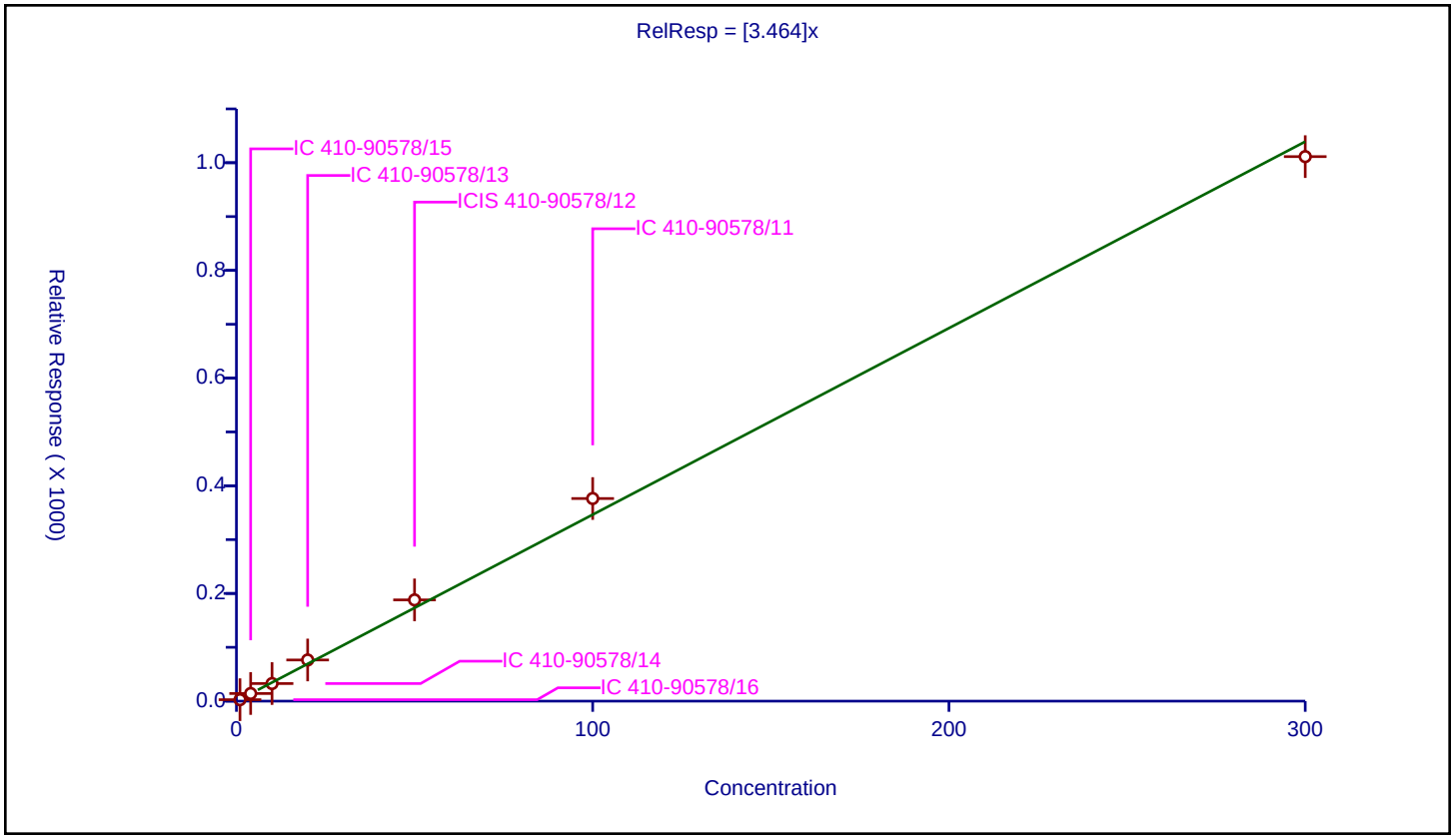
Curve Coefficients

Intercept:	0
Slope:	3.464

Error Coefficients

Standard Error:	4080000
Relative Standard Error:	11.3
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	2.716077	50.0	475686.0	2.716077	Y
2	IC 410-90578/15	4.0	14.187834	50.0	489444.0	3.546958	Y
3	IC 410-90578/14	10.0	32.656365	50.0	482174.0	3.265636	Y
4	IC 410-90578/13	20.0	76.472467	50.0	494816.0	3.823623	Y
5	ICIS 410-90578/12	50.0	188.035011	50.0	496135.0	3.7607	Y
6	IC 410-90578/11	100.0	376.333062	50.0	486324.0	3.763331	Y
7	IC 410-90578/10	300.0	1011.368451	50.0	447937.0	3.371228	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

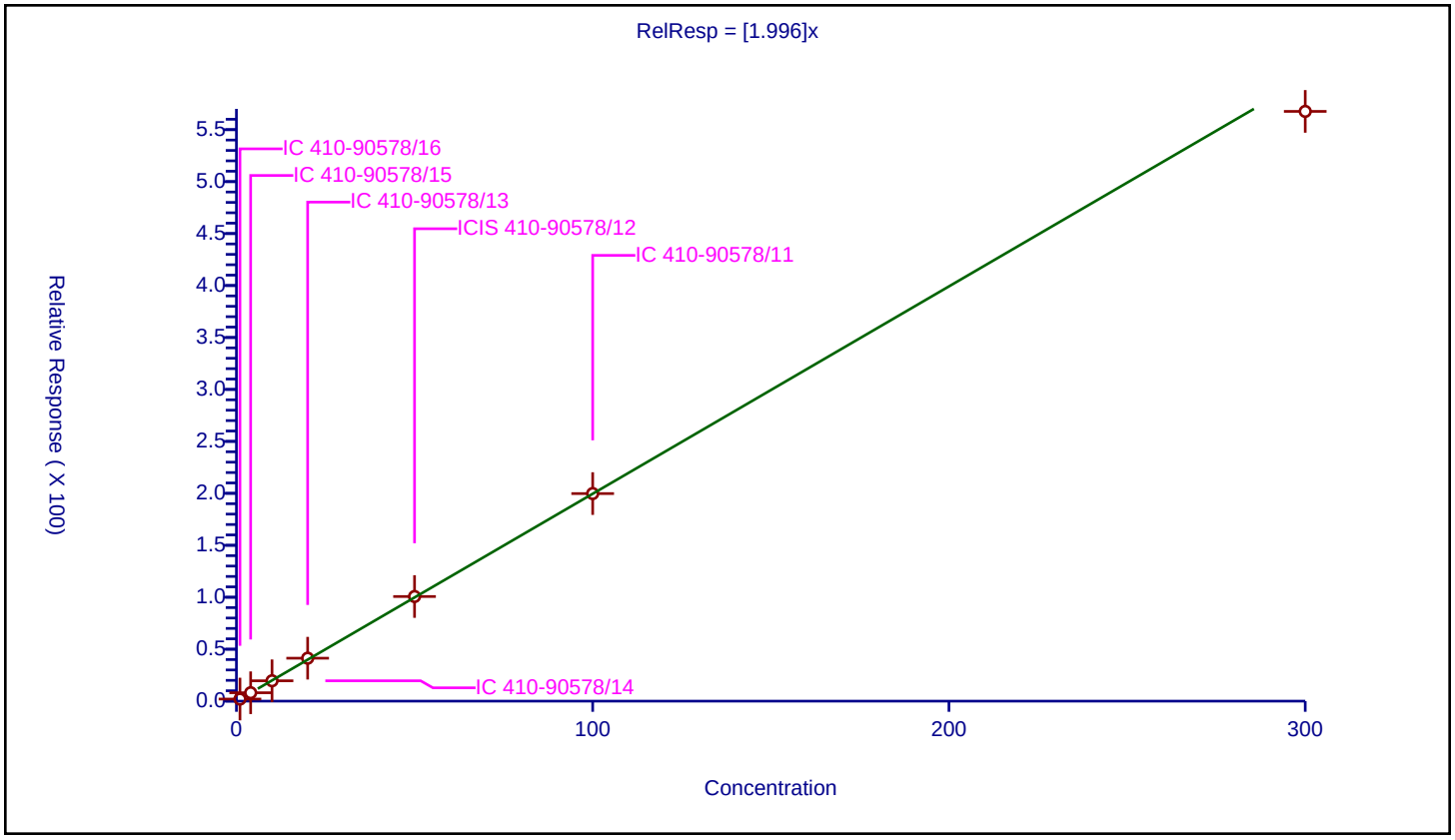
Curve Coefficients

Intercept:	0
Slope:	1.996

Error Coefficients

Standard Error:	2270000
Relative Standard Error:	2.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	2.016666	50.0	475686.0	2.016666	Y
2	IC 410-90578/15	4.0	8.09919	50.0	489444.0	2.024798	Y
3	IC 410-90578/14	10.0	19.586394	50.0	482174.0	1.958639	Y
4	IC 410-90578/13	20.0	41.340518	50.0	494816.0	2.067026	Y
5	ICIS 410-90578/12	50.0	100.701321	50.0	496135.0	2.014026	Y
6	IC 410-90578/11	100.0	199.76785	50.0	486324.0	1.997679	Y
7	IC 410-90578/10	300.0	567.58696	50.0	447937.0	1.891957	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

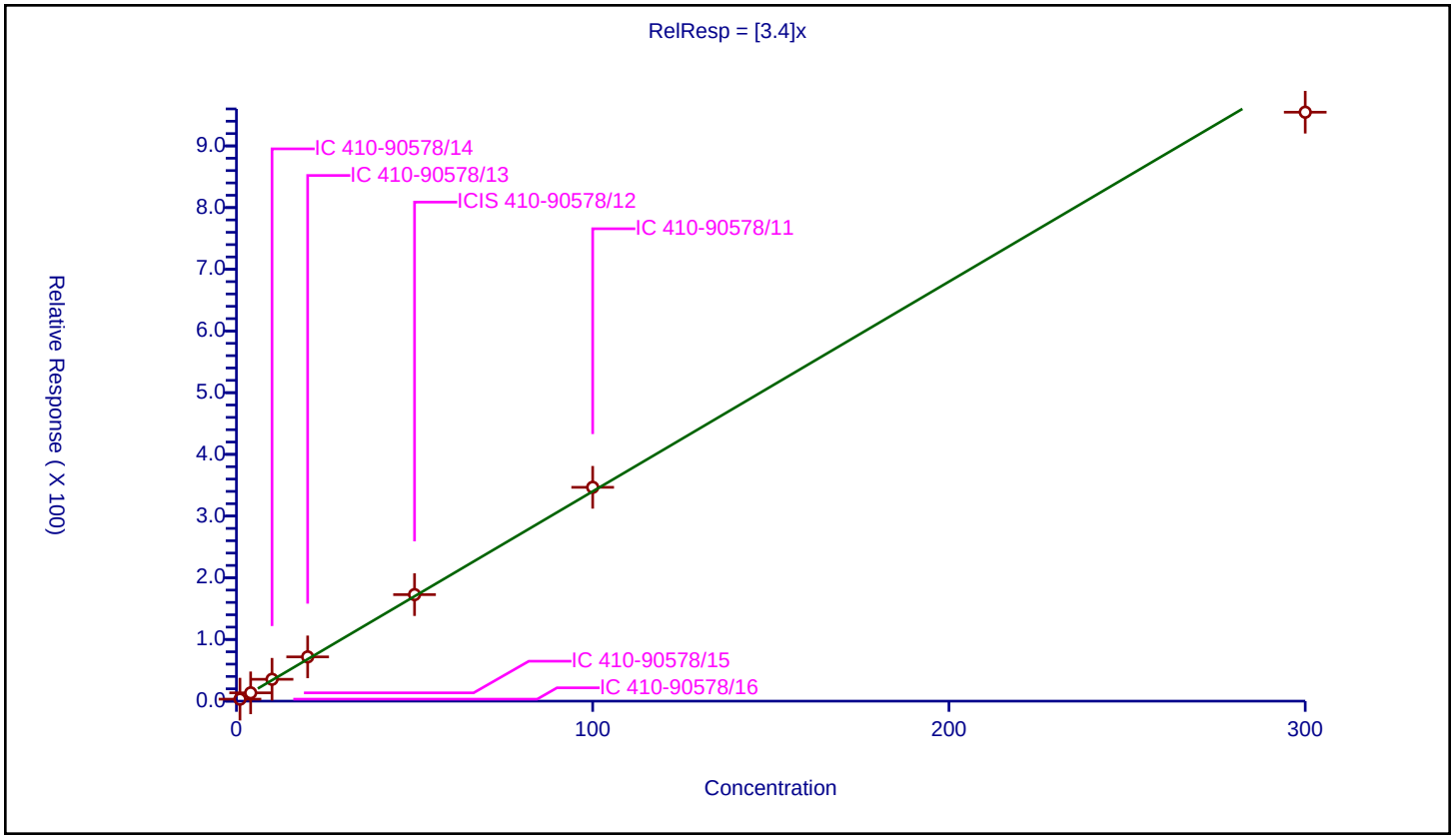
Curve Coefficients

Intercept:	0
Slope:	3.4

Error Coefficients

Standard Error:	3830000
Relative Standard Error:	4.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	3.207158	50.0	475686.0	3.207158	Y
2	IC 410-90578/15	4.0	13.440761	50.0	489444.0	3.36019	Y
3	IC 410-90578/14	10.0	35.419683	50.0	482174.0	3.541968	Y
4	IC 410-90578/13	20.0	71.745356	50.0	494816.0	3.587268	Y
5	ICIS 410-90578/12	50.0	172.678404	50.0	496135.0	3.453568	Y
6	IC 410-90578/11	100.0	346.620154	50.0	486324.0	3.466202	Y
7	IC 410-90578/10	300.0	954.651324	50.0	447937.0	3.182171	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

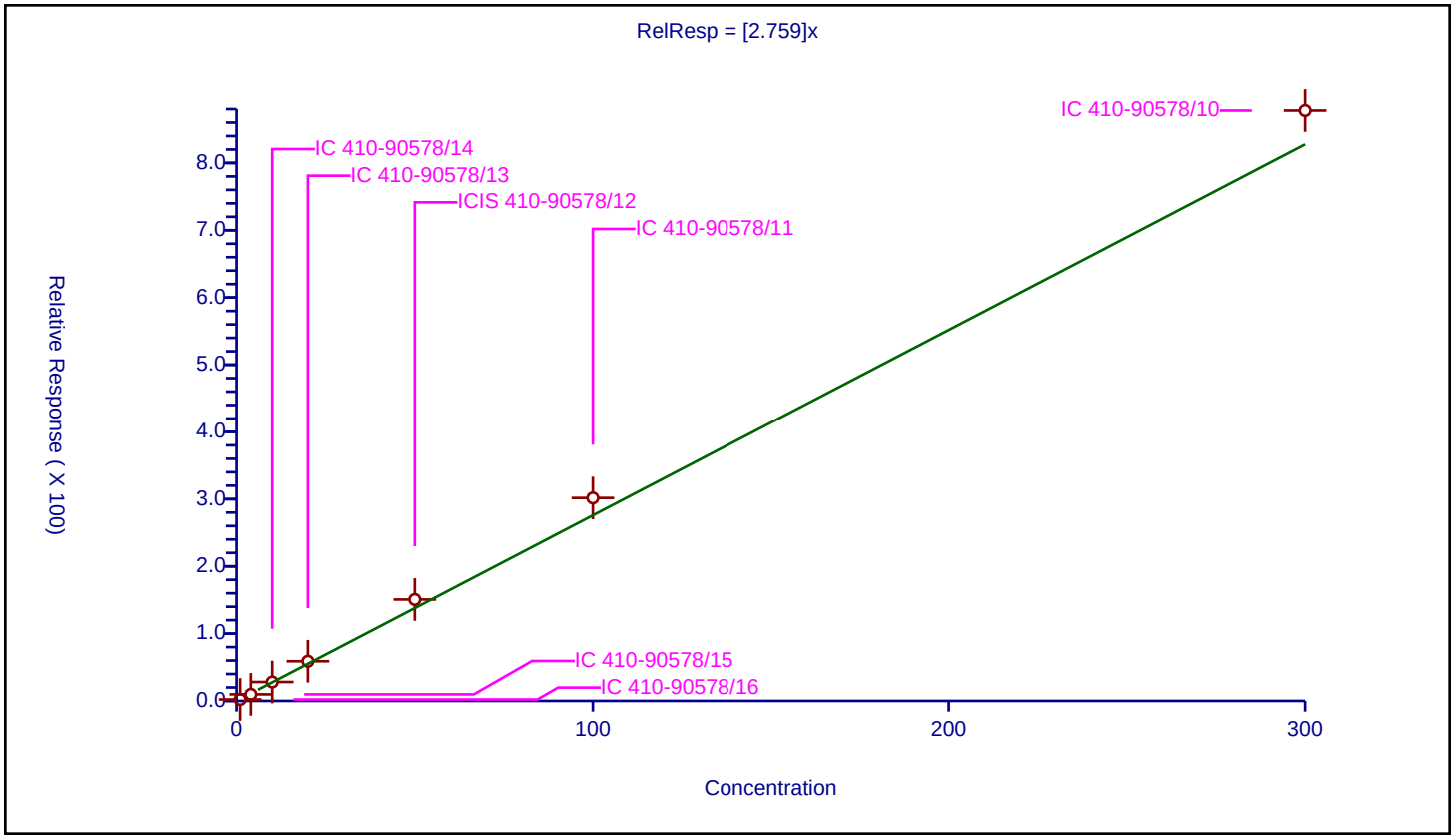
Curve Coefficients

Intercept:	0
Slope:	2.759

Error Coefficients

Standard Error:	3490000
Relative Standard Error:	12.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	2.154573	50.0	475686.0	2.154573	Y
2	IC 410-90578/15	4.0	9.752188	50.0	489444.0	2.438047	Y
3	IC 410-90578/14	10.0	28.130613	50.0	482174.0	2.813061	Y
4	IC 410-90578/13	20.0	58.940596	50.0	494816.0	2.94703	Y
5	ICIS 410-90578/12	50.0	150.776301	50.0	496135.0	3.015526	Y
6	IC 410-90578/11	100.0	301.74174	50.0	486324.0	3.017417	Y
7	IC 410-90578/10	300.0	877.846996	50.0	447937.0	2.926157	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

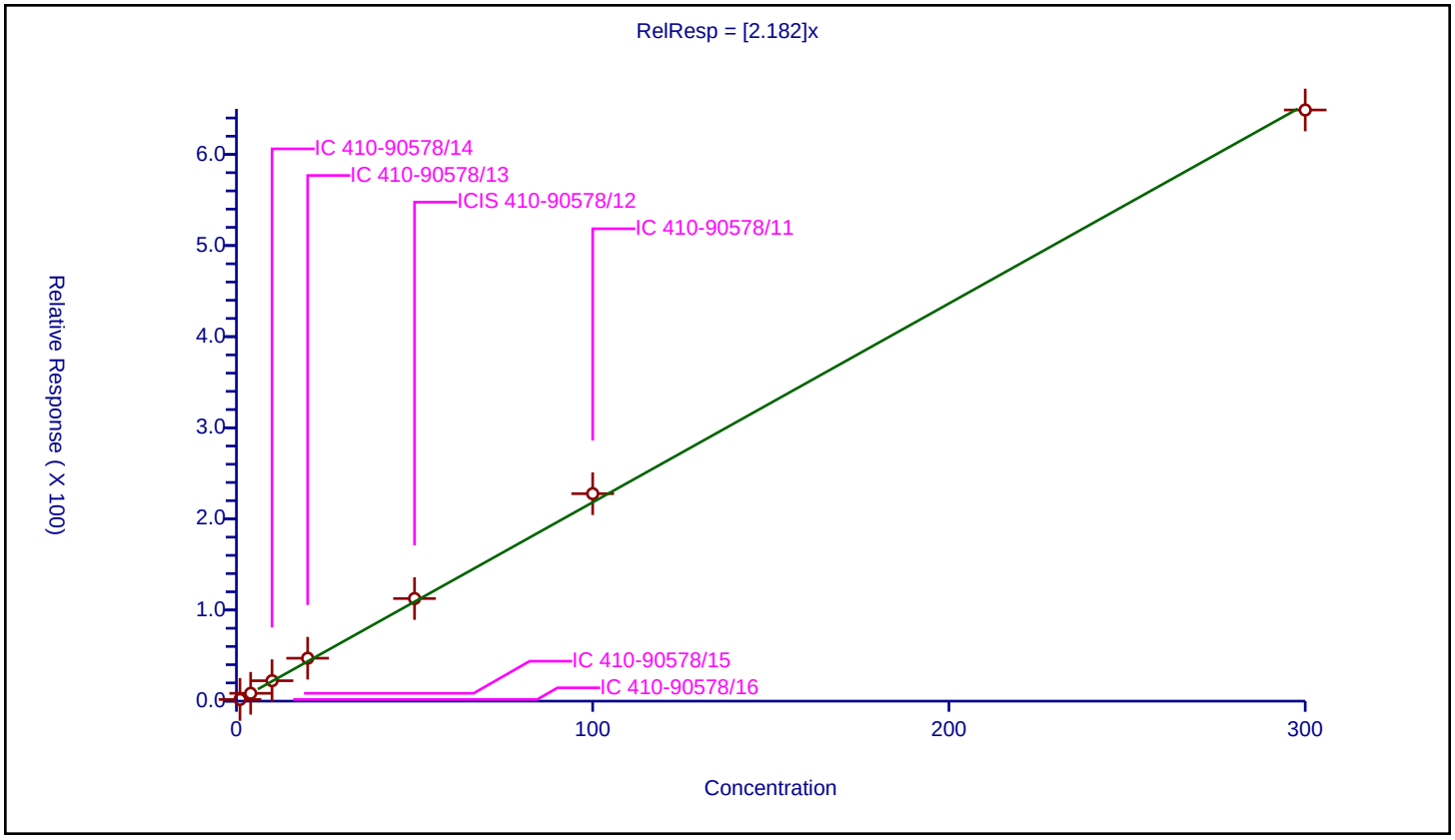
Curve Coefficients

Intercept:	0
Slope:	2.182

Error Coefficients

Standard Error:	2590000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.837872	50.0	475686.0	1.837872	Y
2	IC 410-90578/15	4.0	8.598532	50.0	489444.0	2.149633	Y
3	IC 410-90578/14	10.0	22.398138	50.0	482174.0	2.239814	Y
4	IC 410-90578/13	20.0	47.116201	50.0	494816.0	2.35581	Y
5	ICIS 410-90578/12	50.0	112.612192	50.0	496135.0	2.252244	Y
6	IC 410-90578/11	100.0	227.689257	50.0	486324.0	2.276893	Y
7	IC 410-90578/10	300.0	648.788669	50.0	447937.0	2.162629	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

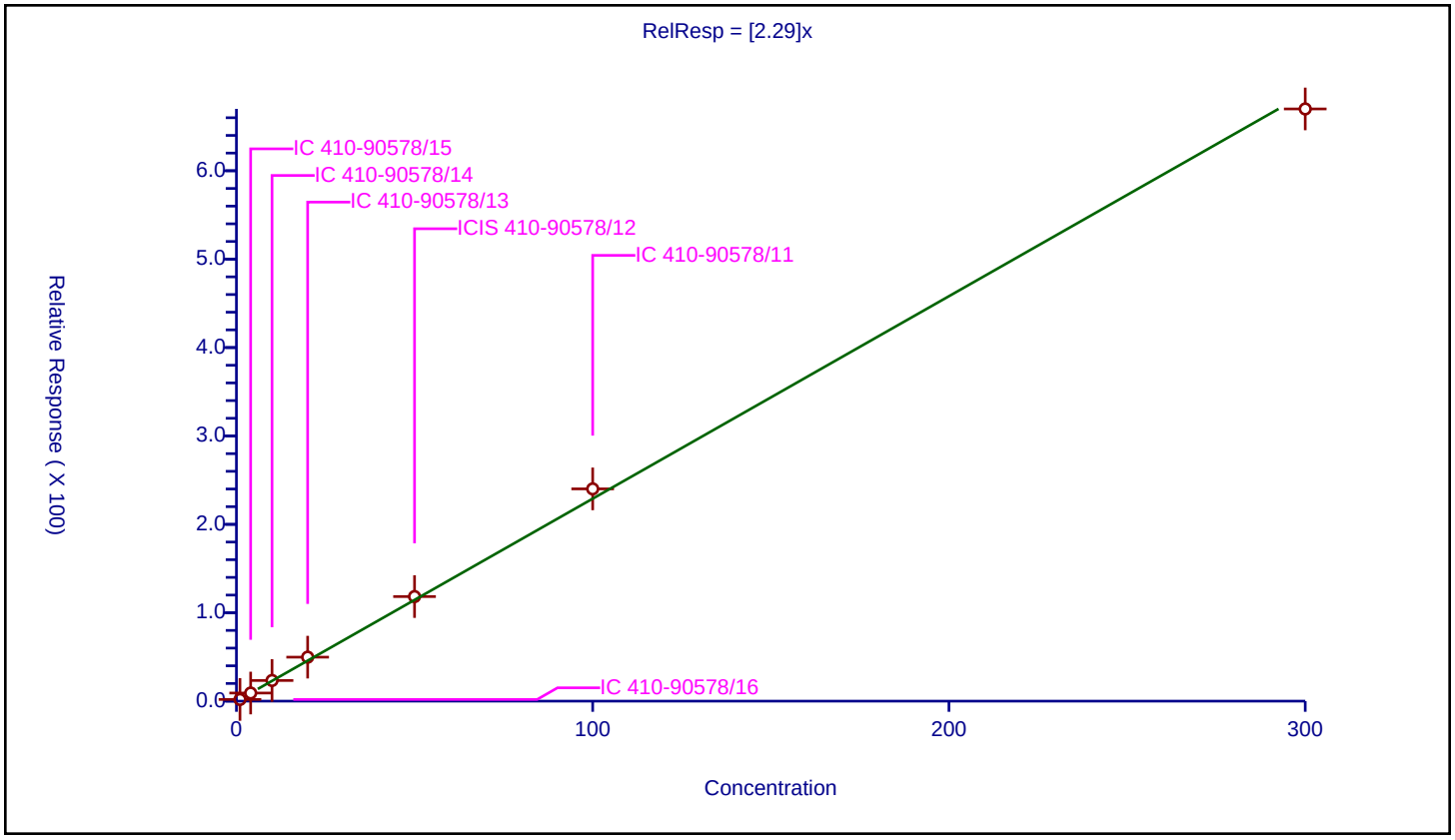
Curve Coefficients

Intercept:	0
Slope:	2.29

Error Coefficients

Standard Error:	2680000
Relative Standard Error:	8.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.914078	50.0	475686.0	1.914078	Y
2	IC 410-90578/15	4.0	9.177148	50.0	489444.0	2.294287	Y
3	IC 410-90578/14	10.0	23.368328	50.0	482174.0	2.336833	Y
4	IC 410-90578/13	20.0	49.757182	50.0	494816.0	2.487859	Y
5	ICIS 410-90578/12	50.0	118.299455	50.0	496135.0	2.365989	Y
6	IC 410-90578/11	100.0	240.119653	50.0	486324.0	2.401197	Y
7	IC 410-90578/10	300.0	669.946332	50.0	447937.0	2.233154	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

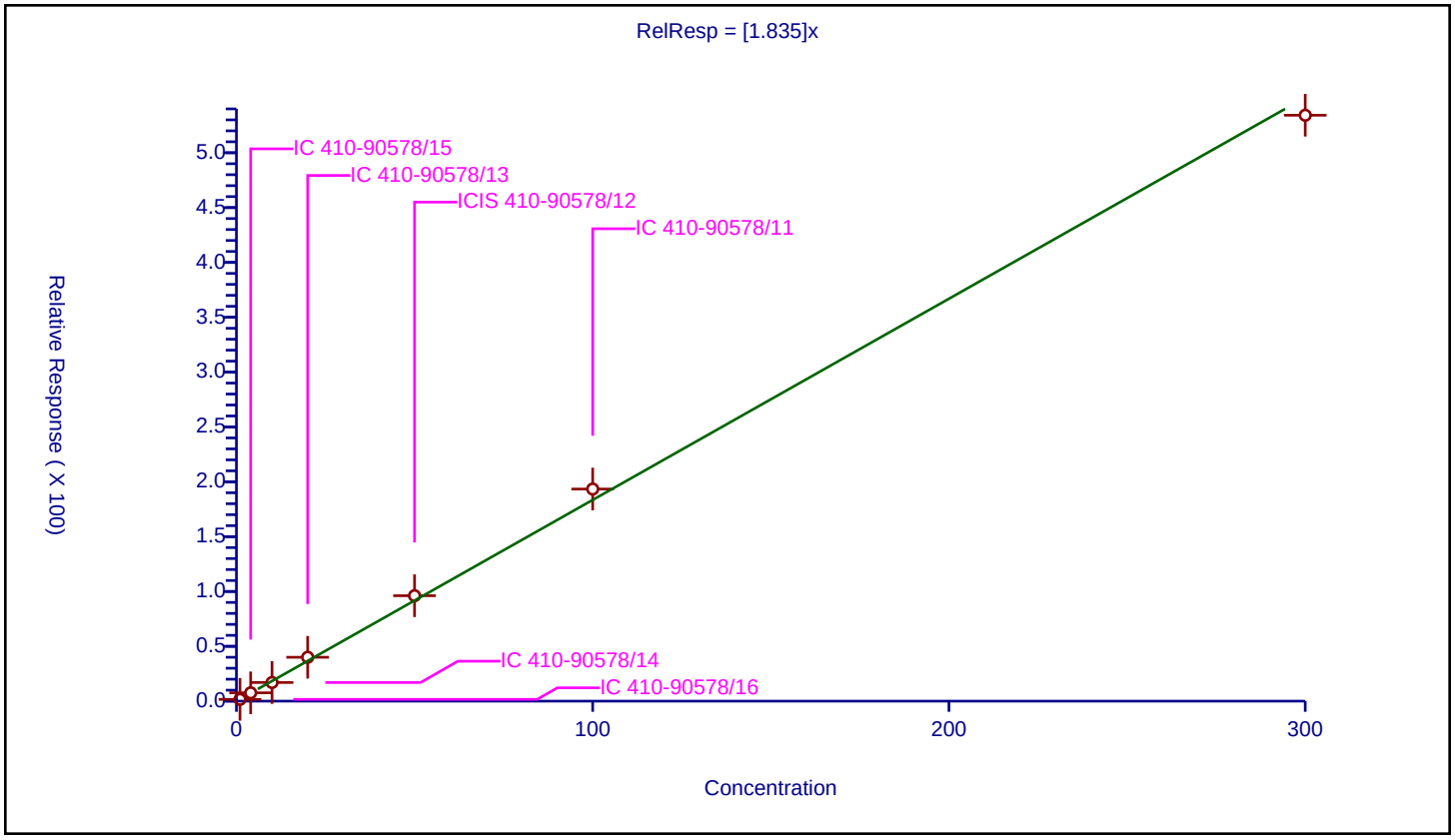
Curve Coefficients

Intercept:	0
Slope:	1.835

Error Coefficients

Standard Error:	2140000
Relative Standard Error:	7.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.609675	50.0	475686.0	1.609675	Y
2	IC 410-90578/15	4.0	7.586363	50.0	489444.0	1.896591	Y
3	IC 410-90578/14	10.0	16.97717	50.0	482174.0	1.697717	Y
4	IC 410-90578/13	20.0	40.005073	50.0	494816.0	2.000254	Y
5	ICIS 410-90578/12	50.0	96.135427	50.0	496135.0	1.922709	Y
6	IC 410-90578/11	100.0	193.395144	50.0	486324.0	1.933951	Y
7	IC 410-90578/10	300.0	534.215749	50.0	447937.0	1.780719	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

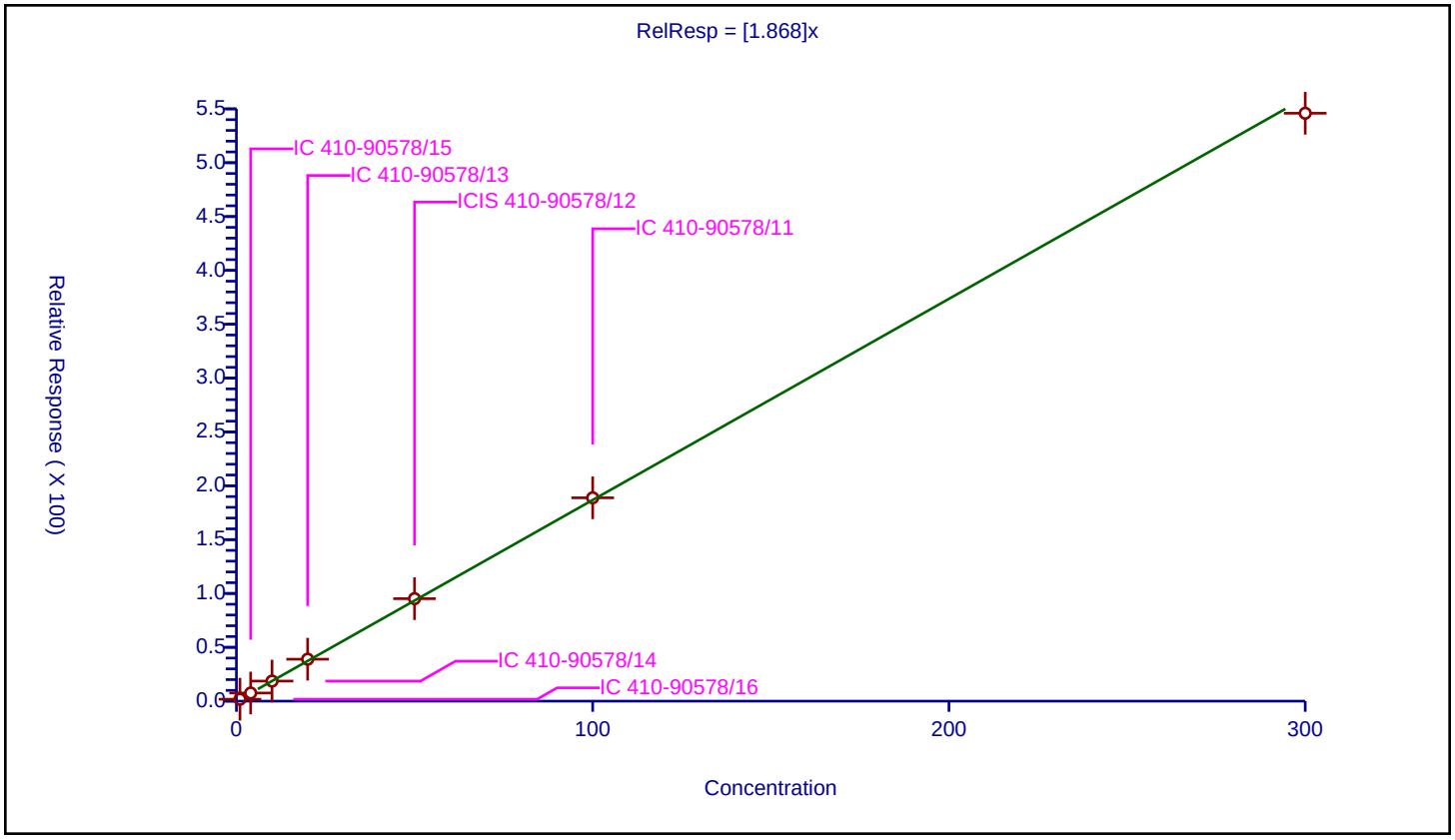
Curve Coefficients

Intercept:	0
Slope:	1.868

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	3.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.766817	50.0	475686.0	1.766817	Y
2	IC 410-90578/15	4.0	7.548565	50.0	489444.0	1.887141	Y
3	IC 410-90578/14	10.0	18.631034	50.0	482174.0	1.863103	Y
4	IC 410-90578/13	20.0	38.949125	50.0	494816.0	1.947456	Y
5	ICIS 410-90578/12	50.0	95.160994	50.0	496135.0	1.90322	Y
6	IC 410-90578/11	100.0	188.82751	50.0	486324.0	1.888275	Y
7	IC 410-90578/10	300.0	545.954677	50.0	447937.0	1.819849	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

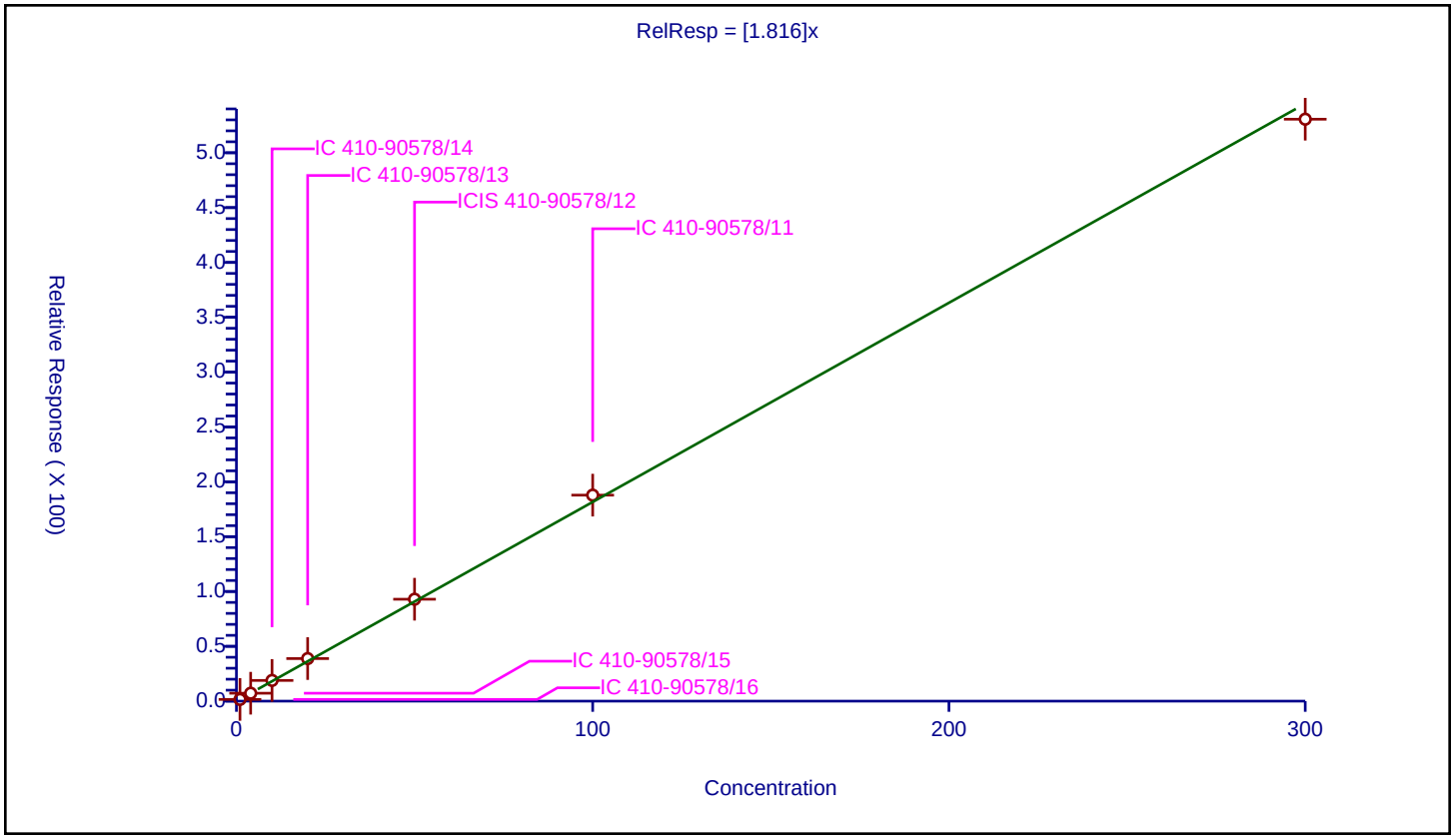
Curve Coefficients

Intercept:	0
Slope:	1.816

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	6.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.572886	50.0	475686.0	1.572886	Y
2	IC 410-90578/15	4.0	7.215126	50.0	489444.0	1.803781	Y
3	IC 410-90578/14	10.0	18.888928	50.0	482174.0	1.888893	Y
4	IC 410-90578/13	20.0	38.816651	50.0	494816.0	1.940833	Y
5	ICIS 410-90578/12	50.0	92.929041	50.0	496135.0	1.858581	Y
6	IC 410-90578/11	100.0	187.81625	50.0	486324.0	1.878163	Y
7	IC 410-90578/10	300.0	530.601736	50.0	447937.0	1.768672	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

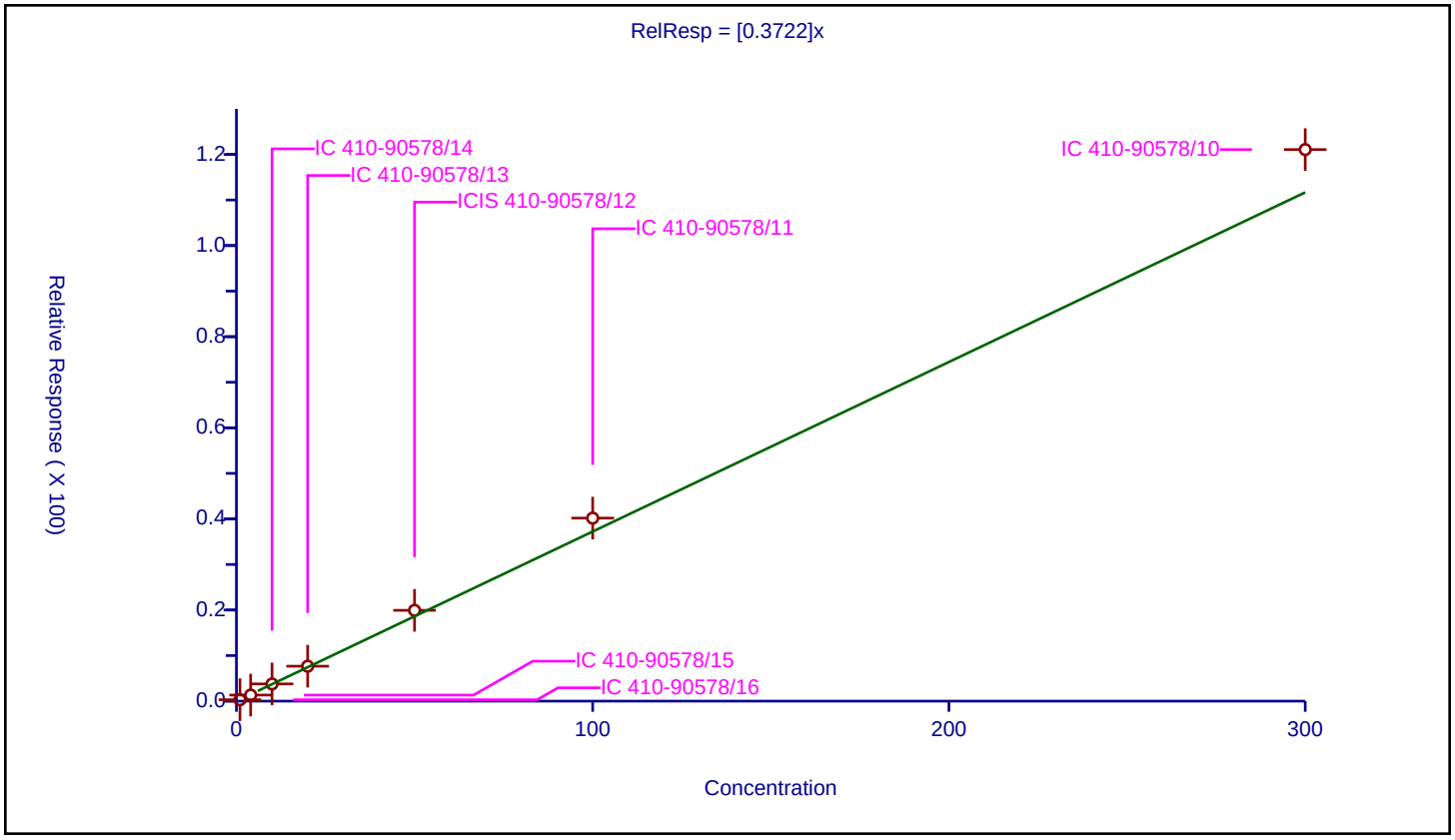
Curve Coefficients

Intercept:	0
Slope:	0.3722

Error Coefficients

Standard Error:	479000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.308081	50.0	475686.0	0.308081	Y
2	IC 410-90578/15	4.0	1.330694	50.0	489444.0	0.332673	Y
3	IC 410-90578/14	10.0	3.774156	50.0	482174.0	0.377416	Y
4	IC 410-90578/13	20.0	7.669821	50.0	494816.0	0.383491	Y
5	ICIS 410-90578/12	50.0	19.935199	50.0	496135.0	0.398704	Y
6	IC 410-90578/11	100.0	40.17219	50.0	486324.0	0.401722	Y
7	IC 410-90578/10	300.0	121.064011	50.0	447937.0	0.403547	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

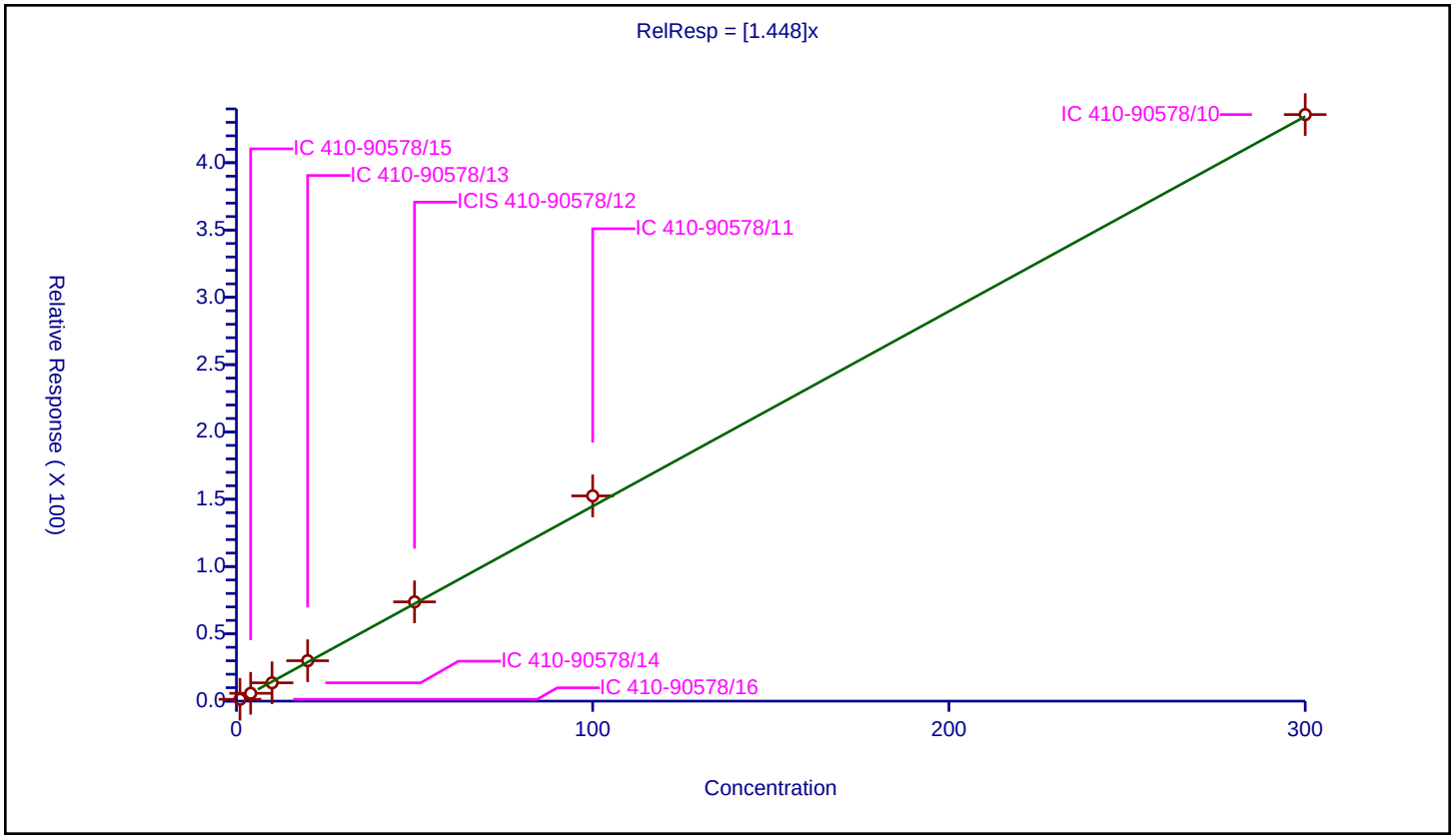
Curve Coefficients

Intercept:	0
Slope:	1.448

Error Coefficients

Standard Error:	1740000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.365922	50.0	475686.0	1.365922	Y
2	IC 410-90578/15	4.0	5.818235	50.0	489444.0	1.454559	Y
3	IC 410-90578/14	10.0	13.619046	50.0	482174.0	1.361905	Y
4	IC 410-90578/13	20.0	30.027525	50.0	494816.0	1.501376	Y
5	ICIS 410-90578/12	50.0	73.760771	50.0	496135.0	1.475215	Y
6	IC 410-90578/11	100.0	152.497615	50.0	486324.0	1.524976	Y
7	IC 410-90578/10	300.0	435.782711	50.0	447937.0	1.452609	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

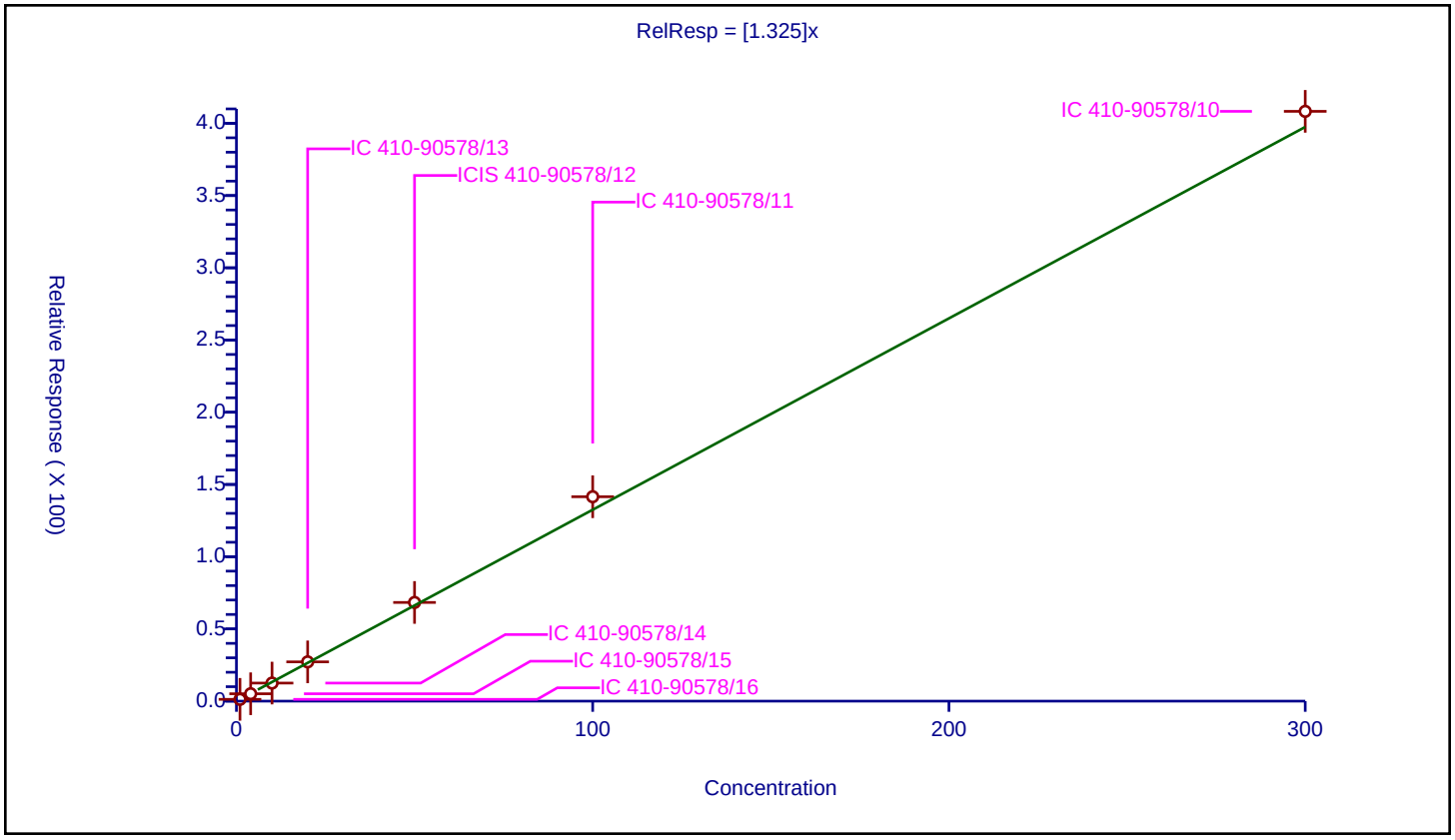
Curve Coefficients

Intercept:	0
Slope:	1.325

Error Coefficients

Standard Error:	1620000
Relative Standard Error:	5.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.243152	50.0	475686.0	1.243152	Y
2	IC 410-90578/15	4.0	5.114273	50.0	489444.0	1.278568	Y
3	IC 410-90578/14	10.0	12.511147	50.0	482174.0	1.251115	Y
4	IC 410-90578/13	20.0	27.178588	50.0	494816.0	1.358929	Y
5	ICIS 410-90578/12	50.0	68.323339	50.0	496135.0	1.366467	Y
6	IC 410-90578/11	100.0	141.510084	50.0	486324.0	1.415101	Y
7	IC 410-90578/10	300.0	408.298712	50.0	447937.0	1.360996	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

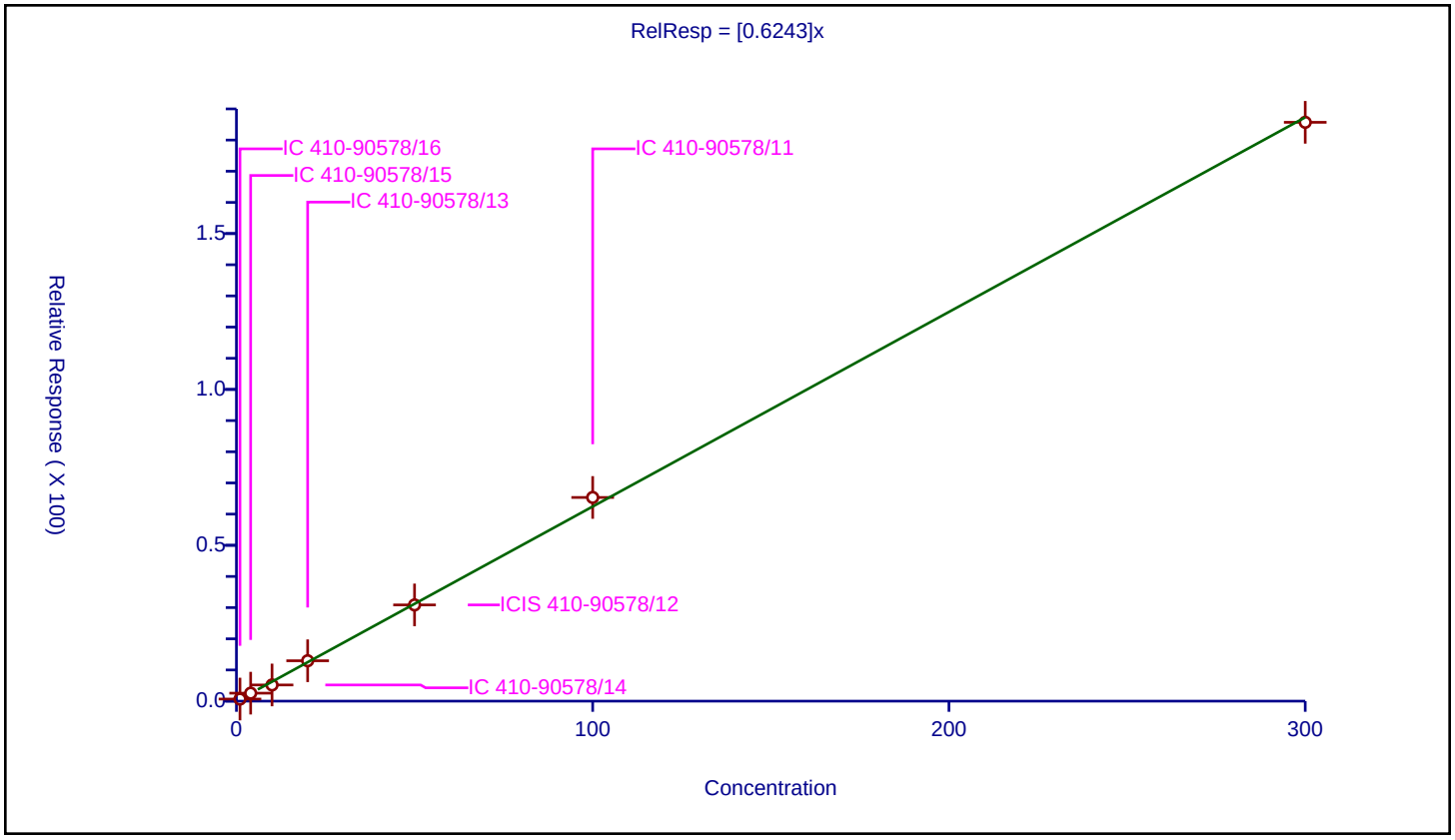
Curve Coefficients

Intercept:	0
Slope:	0.6243

Error Coefficients

Standard Error:	740000
Relative Standard Error:	8.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	0.674184	50.0	475686.0	0.674184	Y
2	IC 410-90578/15	4.0	2.556983	50.0	489444.0	0.639246	Y
3	IC 410-90578/14	10.0	5.191279	50.0	482174.0	0.519128	Y
4	IC 410-90578/13	20.0	12.959767	50.0	494816.0	0.647988	Y
5	ICIS 410-90578/12	50.0	30.863374	50.0	496135.0	0.617267	Y
6	IC 410-90578/11	100.0	65.340904	50.0	486324.0	0.653409	Y
7	IC 410-90578/10	300.0	185.689394	50.0	447937.0	0.618965	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

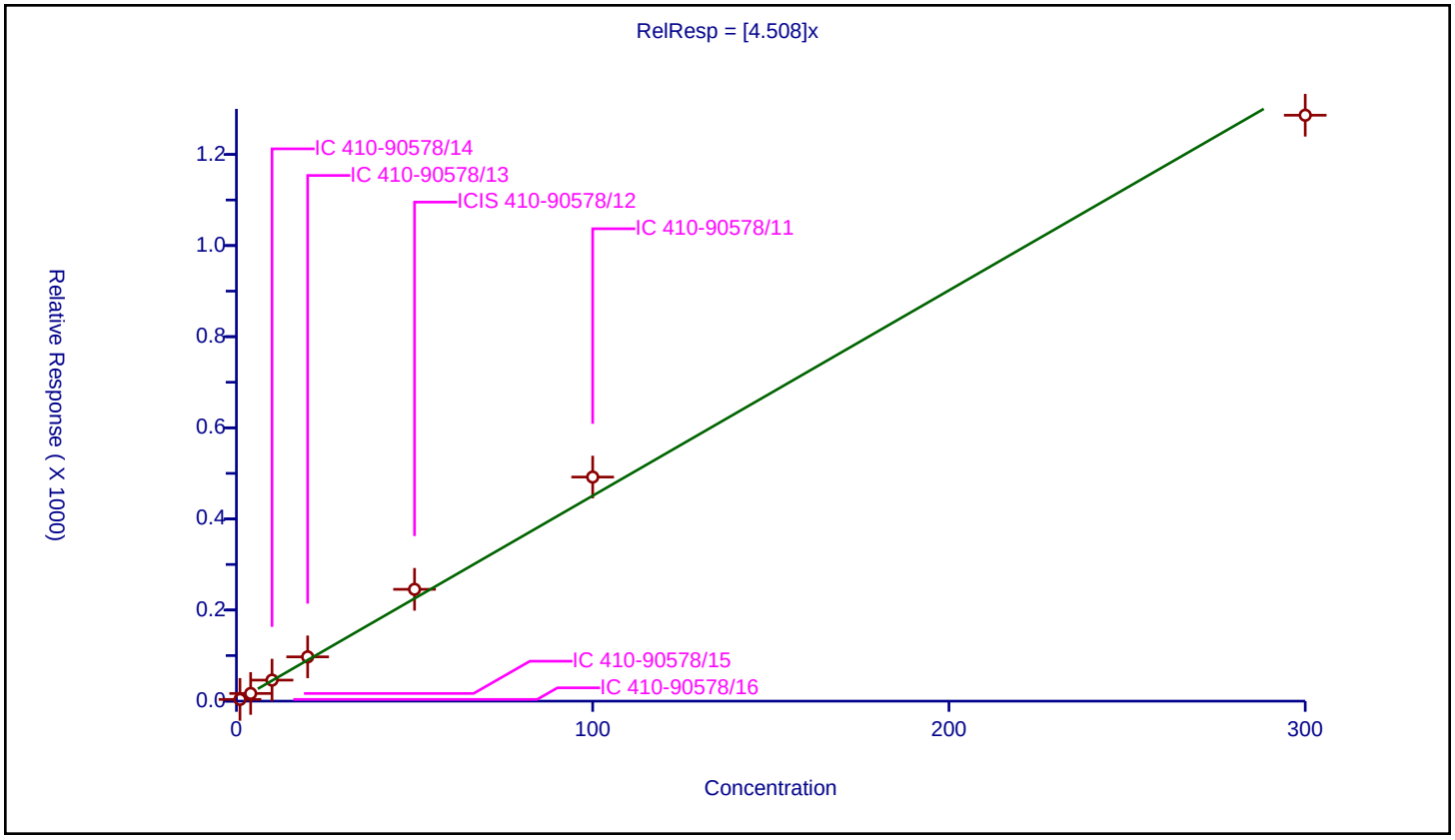
Curve Coefficients

Intercept:	0
Slope:	4.508

Error Coefficients

Standard Error:	5210000
Relative Standard Error:	9.8
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	3.752686	50.0	475686.0	3.752686	Y
2	IC 410-90578/15	4.0	16.867609	50.0	489444.0	4.216902	Y
3	IC 410-90578/14	10.0	46.141331	50.0	482174.0	4.614133	Y
4	IC 410-90578/13	20.0	97.181882	50.0	494816.0	4.859094	Y
5	ICIS 410-90578/12	50.0	245.453657	50.0	496135.0	4.909073	Y
6	IC 410-90578/11	100.0	491.869207	50.0	486324.0	4.918692	Y
7	IC 410-90578/10	300.0	1286.103068	50.0	447937.0	4.28701	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

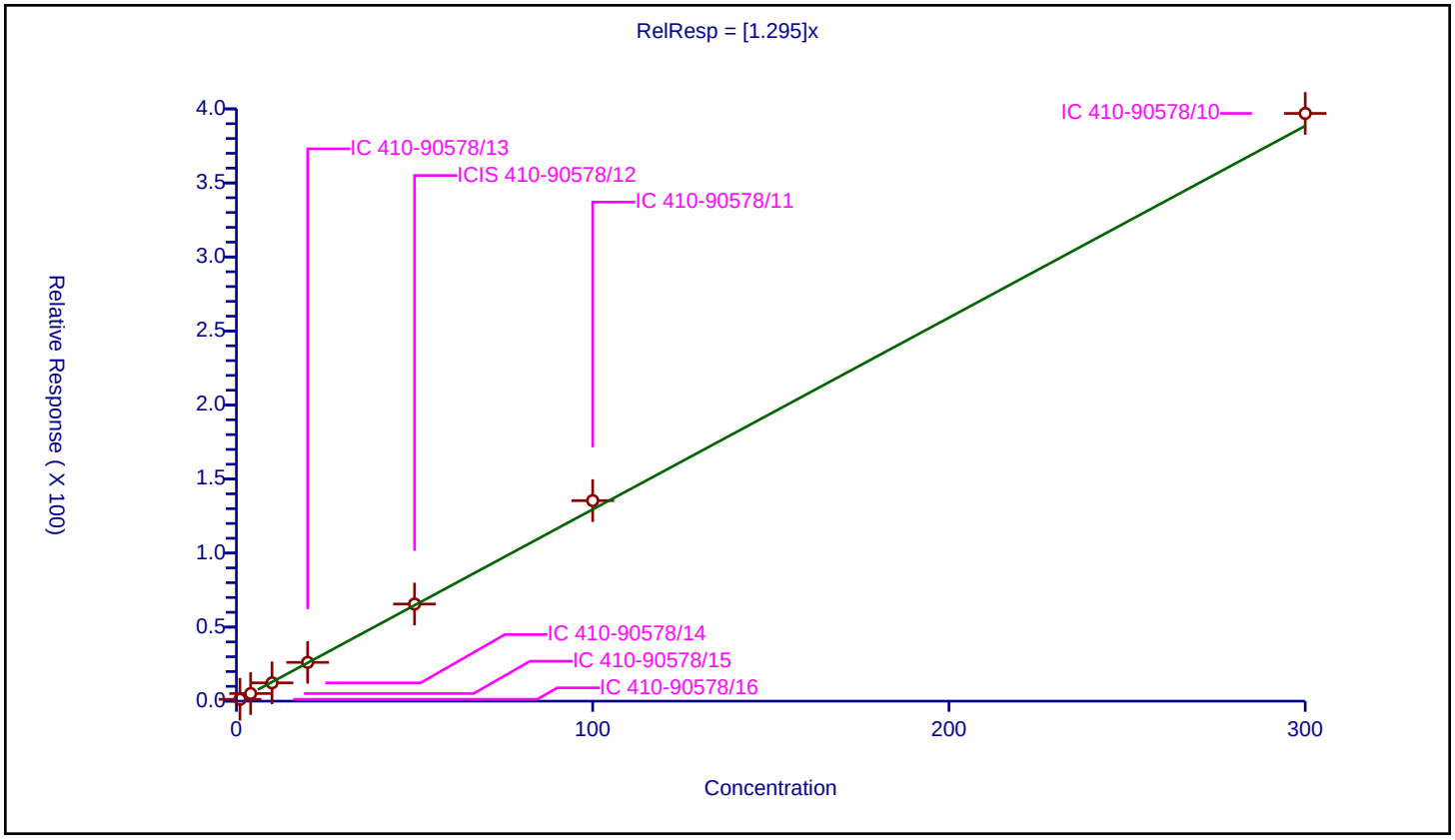
Curve Coefficients

Intercept:	0
Slope:	1.295

Error Coefficients

Standard Error:	1580000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.247567	50.0	475686.0	1.247567	Y
2	IC 410-90578/15	4.0	5.131435	50.0	489444.0	1.282859	Y
3	IC 410-90578/14	10.0	12.362757	50.0	482174.0	1.236276	Y
4	IC 410-90578/13	20.0	26.180035	50.0	494816.0	1.309002	Y
5	ICIS 410-90578/12	50.0	65.589104	50.0	496135.0	1.311782	Y
6	IC 410-90578/11	100.0	135.426485	50.0	486324.0	1.354265	Y
7	IC 410-90578/10	300.0	396.933609	50.0	447937.0	1.323112	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

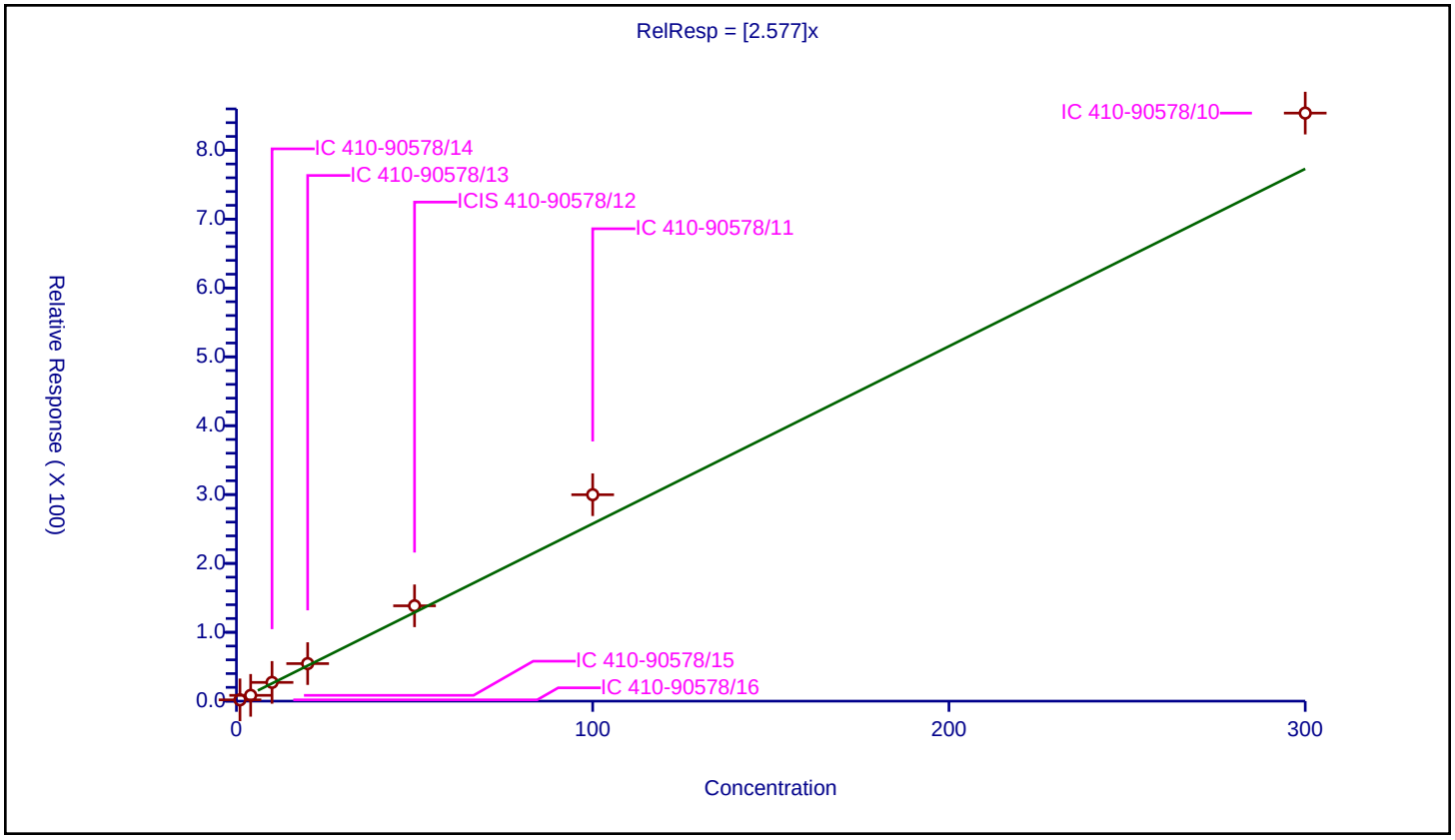
Curve Coefficients

Intercept:	0
Slope:	2.577

Error Coefficients

Standard Error:	3400000
Relative Standard Error:	16.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-90578/16	1.0	1.872874	50.0	475686.0	1.872874	Y
2	IC 410-90578/15	4.0	8.412607	50.0	489444.0	2.103152	Y
3	IC 410-90578/14	10.0	27.210924	50.0	482174.0	2.721092	Y
4	IC 410-90578/13	20.0	54.516325	50.0	494816.0	2.725816	Y
5	ICIS 410-90578/12	50.0	138.445484	50.0	496135.0	2.76891	Y
6	IC 410-90578/11	100.0	299.735876	50.0	486324.0	2.997359	Y
7	IC 410-90578/10	300.0	853.898986	50.0	447937.0	2.84633	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: ICV 410-90578/18 Calibration Date: 02/03/2021 20:10

Instrument ID: 9355 Calib Start Date: 02/03/2021 17:13

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 02/03/2021 19:26

Lab File ID: YF03x18.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	0.3096	0.2689	0.1000	17.4	20.0	-13.1	30.0
Chloromethane	Ave	0.3160	0.2713	0.1000	17.2	20.0	-14.1	30.0
1,3-Butadiene	Ave	0.2778	0.2722		19.6	20.0	-2.0	30.0
Vinyl chloride	Ave	0.2927	0.2789	0.1000	19.1	20.0	-4.7	30.0
Bromomethane	Ave	0.2039	0.1767	0.1000	17.3	20.0	-13.4	30.0
Chloroethane	Ave	0.1747	0.1422	0.1000	16.3	20.0	-18.6	30.0
Dichlorofluoromethane	Ave	0.3926	0.3609		18.4	20.0	-8.1	30.0
Trichlorofluoromethane	Ave	0.3856	0.3688	0.1000	19.1	20.0	-4.4	30.0
n-Pentane	Ave	0.4041	0.3452		17.1	20.0	-14.6	30.0
Ethyl ether	Ave	0.2319	0.2452		21.1	20.0	5.7	30.0
Freon 123a	Ave	0.2867	0.2757		19.2	20.0	-3.8	30.0
Acrolein	Ave	1.820	1.735		143	150	-4.7	30.0
1,1-Dichloroethene	Ave	0.2553	0.2612	0.1000	20.5	20.0	2.3	30.0
Acetone	Ave	1.003	0.9919	0.1000	148	150	-1.1	30.0
Freon 113	Ave	0.2663	0.2521	0.1000	18.9	20.0	-5.3	30.0
2-Propanol	Ave	0.7121	0.6626		140	150	-6.9	30.0
Methyl iodide	Ave	0.4815	0.4521		18.8	20.0	-6.1	30.0
Carbon disulfide	Ave	0.8852	0.8464	0.1000	19.1	20.0	-4.4	30.0
Methyl acetate	Ave	0.5151	0.4939	0.1000	19.2	20.0	-4.1	30.0
Allyl chloride	Ave	0.4833	0.4609		19.1	20.0	-4.6	30.0
Methylene Chloride	Ave	0.3119	0.3102	0.1000	19.9	20.0	-0.6	30.0
t-Butyl alcohol	Ave	1.341	1.275		190	200	-4.9	30.0
Acrylonitrile	Ave	0.2640	0.2517		95.3	100	-4.7	30.0
Methyl tertiary butyl ether	Ave	0.997	0.9448	0.1000	19.0	20.0	-5.2	30.0
trans-1,2-Dichloroethene	Ave	0.2972	0.2950	0.1000	19.9	20.0	-0.7	30.0
n-Hexane	Ave	0.4752	0.4911		20.7	20.0	3.3	30.0
1,1-Dichloroethane	Ave	0.5487	0.5303	0.2000	19.3	20.0	-3.3	30.0
di-Isopropyl ether	Ave	1.036	0.996		19.2	20.0	-3.8	30.0
2-Chloro-1,3-butadiene	Ave	0.4614	0.4456		19.3	20.0	-3.4	30.0
Ethyl t-butyl ether	Ave	0.9519	0.9098		19.1	20.0	-4.4	30.0
2-Butanone	Ave	0.3797	0.3731	0.1000	147	150	-1.7	30.0
cis-1,2-Dichloroethene	Ave	0.3377	0.3326	0.1000	19.7	20.0	-1.5	30.0
2,2-Dichloropropane	Ave	0.4226	0.4133		19.6	20.0	-2.2	30.0
Propionitrile	Ave	1.471	1.523		155	150	3.5	30.0
Methacrylonitrile	Ave	0.2510	0.2526		151	150	0.6	30.0
Bromochloromethane	Ave	0.1774	0.1666		18.8	20.0	-6.1	30.0
Tetrahydrofuran	Ave	1.328	1.410		106	100	6.1	30.0
Chloroform	Ave	0.5214	0.5065	0.2000	19.4	20.0	-2.8	30.0
1,1,1-Trichloroethane	Ave	0.4427	0.4351	0.1000	19.7	20.0	-1.7	30.0
Cyclohexane	Ave	0.5513	0.5599	0.1000	20.3	20.0	1.6	30.0
1,1-Dichloropropene	Ave	0.4291	0.4213		19.6	20.0	-1.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: ICV 410-90578/18 Calibration Date: 02/03/2021 20:10

Instrument ID: 9355 Calib Start Date: 02/03/2021 17:13

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 02/03/2021 19:26

Lab File ID: YF03x18.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	0.3761	0.3720	0.1000	19.8	20.0	-1.1	30.0
Isobutyl alcohol	Ave	0.4493	0.4429		493	500	-1.4	30.0
Benzene	Ave	1.301	1.277	0.5000	19.6	20.0	-1.9	30.0
1,2-Dichloroethane	Ave	0.4557	0.4419	0.1000	19.4	20.0	-3.0	30.0
t-Amyl methyl ether	Ave	0.9441	0.9256		19.6	20.0	-2.0	30.0
n-Heptane	Ave	0.5504	0.5579		20.3	20.0	1.4	30.0
n-Butanol	Ave	0.4086	0.4086		1000	1000	-0.0	30.0
Trichloroethene	Ave	0.3276	0.3166	0.2000	19.3	20.0	-3.4	30.0
Methylcyclohexane	Ave	0.5777	0.6011	0.1000	20.8	20.0	4.0	30.0
1,2-Dichloropropane	Ave	0.3468	0.3444	0.1000	19.9	20.0	-0.7	30.0
t-Amyl ethyl ether	Ave	0.4771	0.4746		19.9	20.0	-0.5	30.0
Methyl methacrylate	Ave	0.3643	0.3562		19.6	20.0	-2.2	30.0
1,4-Dioxane	Ave	0.0961	0.0964	0.0050	501	500	0.3	30.0
Dibromomethane	Ave	0.2186	0.2114		19.3	20.0	-3.3	30.0
Bromodichloromethane	Ave	0.3853	0.3762	0.2000	19.5	20.0	-2.4	30.0
2-Nitropropane	Ave	2.188	2.088		19.1	20.0	-4.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1950	0.1996		20.5	20.0	2.4	30.0
cis-1,3-Dichloropropene	Ave	0.5350	0.5298	0.2000	19.8	20.0	-1.0	30.0
4-Methyl-2-pentanone	Ave	0.6624	0.6557	0.1000	99.0	100	-1.0	30.0
Toluene	Ave	1.090	1.057	0.4000	19.4	20.0	-3.0	30.0
trans-1,3-Dichloropropene	Ave	0.6574	0.6721	0.1000	20.4	20.0	2.2	30.0
Ethyl methacrylate	Ave	0.7168	0.7314		20.4	20.0	2.0	30.0
1,1,2-Trichloroethane	Ave	0.4281	0.4262	0.1000	19.9	20.0	-0.4	30.0
Tetrachloroethene	Ave	0.4779	0.4912	0.2000	20.6	20.0	2.8	30.0
1,3-Dichloropropane	Ave	0.7454	0.7389		19.8	20.0	-0.9	30.0
2-Hexanone	Ave	0.7230	0.7325	0.1000	101	100	1.3	30.0
Dibromochloromethane	Ave	0.4311	0.4211		19.5	20.0	-2.3	30.0
1,2-Dibromoethane	Ave	0.4708	0.4582	0.1000	19.5	20.0	-2.7	30.0
1-Chlorohexane	Ave	0.5885	0.5799		19.7	20.0	-1.5	30.0
Chlorobenzene	Ave	1.252	1.237	0.5000	19.8	20.0	-1.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4091	0.3983		19.5	20.0	-2.6	30.0
Ethylbenzene	Ave	2.039	2.069	0.1000	20.3	20.0	1.5	30.0
m&p-Xylene	Ave	0.8131	0.8321	0.1000	40.9	40.0	2.3	30.0
o-Xylene	Ave	0.7816	0.8061	0.3000	20.6	20.0	3.1	30.0
Styrene	Ave	1.277	1.329	0.3000	20.8	20.0	4.0	30.0
Bromoform	Ave	0.3298	0.3164	0.1000	19.2	20.0	-4.0	30.0
Isopropylbenzene	Ave	1.968	2.024	0.1000	20.6	20.0	2.9	30.0
Cyclohexanone	Ave	0.5345	0.3727		349	500	-30.3*	30.0
1,1,2,2-Tetrachloroethane	Ave	1.388	1.365	0.3000	19.7	20.0	-1.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.4838	0.4883		101	100	0.9	30.0
Bromobenzene	Ave	1.014	0.9865		19.5	20.0	-2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: ICV 410-90578/18 Calibration Date: 02/03/2021 20:10

Instrument ID: 9355 Calib Start Date: 02/03/2021 17:13

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 02/03/2021 19:26

Lab File ID: YF03x18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.4459	0.4317		19.4	20.0	-3.2	30.0
N-Propylbenzene	Ave	4.407	4.563		20.7	20.0	3.5	30.0
2-Chlorotoluene	Ave	0.9474	0.9413		19.9	20.0	-0.6	30.0
1,3,5-Trimethylbenzene	Ave	3.169	3.267		20.6	20.0	3.1	30.0
4-Chlorotoluene	Ave	0.9898	0.9890		20.0	20.0	-0.0	30.0
tert-Butylbenzene	Ave	0.6781	0.7146		21.1	20.0	5.4	30.0
Pentachloroethane	Ave	0.5492	0.5150		18.8	20.0	-6.2	30.0
1,2,4-Trimethylbenzene	Ave	3.274	3.367		20.6	20.0	2.9	30.0
sec-Butylbenzene	Ave	4.054	4.303		21.2	20.0	6.1	30.0
1,3-Dichlorobenzene	Ave	1.924	1.923	0.6000	20.0	20.0	-0.0	30.0
p-Isopropyltoluene	Ave	3.464	3.775		21.8	20.0	9.0	30.0
1,4-Dichlorobenzene	Ave	1.996	1.999	0.5000	20.0	20.0	0.2	30.0
1,2,3-Trimethylbenzene	Ave	3.400	3.582		21.1	20.0	5.4	30.0
Benzyl chloride	Ave	2.759	2.657		19.3	20.0	-3.7	30.0
1,3-Diethylbenzene	Ave	2.182	2.263		20.7	20.0	3.7	30.0
1,4-Diethylbenzene	Ave	2.290	2.425		21.2	20.0	5.9	30.0
n-Butylbenzene	Ave	1.835	1.918		20.9	20.0	4.6	30.0
1,2-Dichlorobenzene	Ave	1.868	1.864	0.4000	20.0	20.0	-0.2	30.0
1,2-Diethylbenzene	Ave	1.816	1.892		20.8	20.0	4.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3722	0.3408	0.0500	18.3	20.0	-8.5	30.0
1,3,5-Trichlorobenzene	Ave	1.448	1.489		20.6	20.0	2.8	30.0
1,2,4-Trichlorobenzene	Ave	1.325	1.338	0.2000	20.2	20.0	1.0	30.0
Hexachlorobutadiene	Ave	0.6243	0.6624		21.2	20.0	6.1	30.0
Naphthalene	Ave	4.508	4.593		20.4	20.0	1.9	30.0
1,2,3-Trichlorobenzene	Ave	1.295	1.304		20.1	20.0	0.7	30.0
2-Methylnaphthalene	Ave	2.577	2.517		19.5	20.0	-2.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2312	0.2295		49.6	50.0	-0.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0612	0.0607		49.6	50.0	-0.8	30.0
Toluene-d8 (Surr)	Ave	1.307	1.305		49.9	50.0	-0.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4869	0.4858		49.9	50.0	-0.2	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x18.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 03-Feb-2021 20:10:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0021230-018
Operator ID: kas02648 Instrument ID: 9355
Sublist:

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:36:55 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 20:57:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.031	2.044	-0.013	99	123534	20.0	17.4	
4 Chloromethane	50	2.238	2.250	-0.012	99	124630	20.0	17.2	M
5 Butadiene	39	2.354	2.366	-0.012	91	125014	20.0	19.6	
6 Vinyl chloride	62	2.360	2.372	-0.012	77	128100	20.0	19.1	
8 Bromomethane	94	2.689	2.707	-0.019	90	81153	20.0	17.3	
9 Chloroethane	64	2.768	2.786	-0.018	99	65313	20.0	16.3	
10 Dichlorofluoromethane	67	3.017	3.029	-0.012	97	165787	20.0	18.4	
11 Trichlorofluoromethane	101	3.096	3.108	-0.012	98	169402	20.0	19.1	
12 Pentane	43	3.133	3.145	-0.012	97	158575	20.0	17.1	
14 Ethyl ether	59	3.346	3.358	-0.012	90	112631	20.0	21.1	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.412	3.431	-0.019	91	126633	20.0	19.2	
16 Acrolein	56	3.510	3.528	-0.018	99	424080	150.0	143.0	
17 1,1-Dichloroethene	96	3.662	3.680	-0.018	97	119967	20.0	20.5	
18 Acetone	58	3.680	3.698	-0.018	100	242477	150.0	148.3	
19 112TCTFE	101	3.698	3.717	-0.019	89	115793	20.0	18.9	
20 Isopropyl alcohol	45	3.850	3.863	-0.013	99	161975	150.0	139.6	
21 Iodomethane	142	3.875	3.887	-0.012	97	207695	20.0	18.8	
22 Carbon disulfide	76	3.990	4.009	-0.019	99	388794	20.0	19.1	
24 Methyl acetate	43	4.118	4.130	-0.012	98	226894	20.0	19.2	
25 3-Chloro-1-propene	41	4.149	4.167	-0.018	93	211720	20.0	19.1	
* 26 t-Butyl alcohol-d10 (IS)	65	4.343	4.349	-0.006	0	407432	250.0	250.0	
27 Methylene Chloride	84	4.343	4.355	-0.012	93	142472	20.0	19.9	
28 2-Methyl-2-propanol	59	4.471	4.483	-0.012	98	415567	200.0	190.2	
30 Acrylonitrile	53	4.666	4.678	-0.012	100	578171	100.0	95.3	
31 Methyl tert-butyl ether	73	4.757	4.769	-0.012	95	433975	20.0	19.0	
32 trans-1,2-Dichloroethene	96	4.775	4.787	-0.012	99	135515	20.0	19.9	
33 Hexane	57	5.195	5.213	-0.018	92	225569	20.0	20.7	
35 1,1-Dichloroethane	63	5.420	5.432	-0.012	96	243594	20.0	19.3	
36 Isopropyl ether	45	5.487	5.493	-0.006	94	457691	20.0	19.2	
37 2-Chloro-1,3-butadiene	53	5.536	5.548	-0.012	90	204688	20.0	19.3	
38 Tert-butyl ethyl ether	59	6.022	6.028	-0.006	97	417909	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	6.205	6.211	-0.006	100	1285339	150.0	147.4	
41 cis-1,2-Dichloroethene	96	6.247	6.259	-0.012	83	152767	20.0	19.7	
43 2,2-Dichloropropane	77	6.272	6.278	-0.006	87	189857	20.0	19.6	
44 Propionitrile	54	6.278	6.290	-0.012	99	372236	150.0	155.3	
45 Methacrylonitrile	67	6.509	6.515	-0.006	92	870286	150.0	150.9	
46 Chlorobromomethane	128	6.588	6.594	-0.006	95	76539	20.0	18.8	
47 Tetrahydrofuran	71	6.612	6.618	-0.006	92	229713	100.0	106.1	
48 Chloroform	83	6.728	6.740	-0.012	93	232680	20.0	19.4	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.953	-0.006	94	263595	50.0	49.6	
50 1,1,1-Trichloroethane	97	6.965	6.971	-0.006	99	199844	20.0	19.7	
51 Cyclohexane	56	7.081	7.087	-0.006	91	257191	20.0	20.3	
52 1,1-Dichloropropene	75	7.178	7.184	-0.006	97	193513	20.0	19.6	
53 Carbon tetrachloride	117	7.190	7.196	-0.006	97	170866	20.0	19.8	
54 Isobutyl alcohol	41	7.294	7.300	-0.006	95	360875	500.0	492.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.409	-0.006	0	69732	50.0	49.6	
56 Benzene	78	7.440	7.446	-0.006	96	586557	20.0	19.6	
58 1,2-Dichloroethane	62	7.513	7.519	-0.006	97	202988	20.0	19.4	
59 Tert-amyl methyl ether	73	7.628	7.634	-0.006	98	425169	20.0	19.6	
* 61 Fluorobenzene (IS)	96	7.841	7.847	-0.006	99	1148382	50.0	50.0	
62 n-Heptane	43	7.860	7.866	-0.006	93	256270	20.0	20.3	
63 n-Butanol	56	8.176	8.182	-0.006	89	665898	1000.0	999.9	
64 Trichloroethene	95	8.328	8.328	0.000	98	145415	20.0	19.3	
65 Methylcyclohexane	83	8.644	8.650	-0.006	95	276097	20.0	20.8	
66 1,2-Dichloropropane	63	8.657	8.656	0.000	72	158195	20.0	19.9	
67 2-ethoxy-2-methyl butane	87	8.663	8.662	0.001	93	217989	20.0	19.9	
68 Methyl methacrylate	69	8.730	8.729	0.001	92	163629	20.0	19.6	
69 1,4-Dioxane	88	8.742	8.748	-0.006	93	78567	500.0	501.4	
70 Dibromomethane	93	8.772	8.772	0.000	97	97087	20.0	19.3	
72 Dichlorobromomethane	83	8.997	9.003	-0.006	99	172808	20.0	19.5	
73 2-Nitropropane	41	9.241	9.247	-0.006	99	68055	20.0	19.1	
74 2-Chloroethyl vinyl ether	63	9.344	9.350	-0.006	91	91679	20.0	20.5	
75 cis-1,3-Dichloropropene	75	9.533	9.539	-0.006	96	243367	20.0	19.8	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.691	0.000	97	1505941	100.0	99.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1139021	50.0	49.9	
78 Toluene	92	9.916	9.922	-0.006	98	368776	20.0	19.4	
81 trans-1,3-Dichloropropene	75	10.165	10.165	0.000	92	234599	20.0	20.4	
82 Ethyl methacrylate	69	10.220	10.220	0.000	90	255302	20.0	20.4	
83 1,1,2-Trichloroethane	97	10.372	10.372	0.000	90	148775	20.0	19.9	
84 Tetrachloroethene	166	10.469	10.469	0.000	96	171444	20.0	20.6	
85 1,3-Dichloropropane	76	10.530	10.530	0.000	90	257889	20.0	19.8	
87 2-Hexanone	43	10.567	10.567	0.000	97	1278351	100.0	101.3	
89 Chlorodibromomethane	129	10.749	10.749	0.000	90	146967	20.0	19.5	
90 Ethylene Dibromide	107	10.865	10.865	0.000	99	159943	20.0	19.5	
92 1-Chlorohexane	91	11.291	11.291	0.000	98	202405	20.0	19.7	
* 93 Chlorobenzene-d5 (IS)	117	11.291	11.291	0.000	86	872591	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	95	431875	20.0	19.8	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	96	139034	20.0	19.5	
96 Ethylbenzene	91	11.400	11.400	0.000	98	721994	20.0	20.3	
97 m-Xylene & p-Xylene	106	11.510	11.516	-0.006	100	580886	40.0	40.9	
98 o-Xylene	106	11.838	11.838	0.000	96	281355	20.0	20.6	
99 Styrene	104	11.856	11.856	0.000	95	463713	20.0	20.8	
100 Bromoform	173	12.015	12.021	-0.006	97	110452	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 Isopropylbenzene	105	12.136	12.136	0.000	96	706535	20.0	20.6	
103 Cyclohexanone	55	12.209	12.209	0.000	92	303758	500.0	348.7	M
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	90	423921	50.0	49.9	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.373	0.001	93	262159	20.0	19.7	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	90	468962	100.0	100.9	
107 Bromobenzene	156	12.404	12.404	0.000	70	189481	20.0	19.5	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	82	82914	20.0	19.4	
109 N-Propylbenzene	91	12.465	12.465	0.000	99	876451	20.0	20.7	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	180804	20.0	19.9	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	627445	20.0	20.6	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	189950	20.0	20.0	
114 tert-Butylbenzene	134	12.842	12.842	0.000	93	137247	20.0	21.1	
115 Pentachloroethane	167	12.879	12.878	0.000	89	98911	20.0	18.8	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.001	97	646721	20.0	20.6	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	826513	20.0	21.2	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	98	369337	20.0	20.0	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	725049	20.0	21.8	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	95	480174	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	96	384028	20.0	20.0	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	687933	20.0	21.1	
123 Benzyl chloride	91	13.256	13.256	0.000	98	510300	20.0	19.3	
124 1,3-Diethylbenzene	119	13.317	13.316	0.001	95	434664	20.0	20.7	
125 p-Diethylbenzene	119	13.390	13.389	0.001	94	465699	20.0	21.2	
126 n-Butylbenzene	92	13.408	13.408	0.000	96	368400	20.0	20.9	
127 1,2-Dichlorobenzene	146	13.444	13.444	0.000	98	357928	20.0	20.0	
128 o-diethylbenzene	119	13.456	13.456	0.000	95	363444	20.0	20.8	
130 1,2-Dibromo-3-Chloropropane	75	13.986	13.986	0.000	85	65448	20.0	18.3	
131 1,3,5-Trichlorobenzene	180	14.113	14.113	0.000	98	286015	20.0	20.6	
132 1,2,4-Trichlorobenzene	180	14.539	14.539	0.000	94	257085	20.0	20.2	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	97	127230	20.0	21.2	
134 Naphthalene	128	14.722	14.716	0.006	97	882123	20.0	20.4	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	95	250492	20.0	20.1	
136 2-Methylnaphthalene	142	15.513	15.507	0.006	92	483431	20.0	19.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_QCYC_00004	Amount Added:	50.00	Units: uL	
MSV_Q_EE_00003	Amount Added:	50.00	Units: uL	
MSV_Q_QVOA1_00066	Amount Added:	50.00	Units: uL	
MSV_Q_QARC_00065	Amount Added:	50.00	Units: uL	
MSV_Q_QVOA6_00064	Amount Added:	50.00	Units: uL	
MSV_DCFM_00034	Amount Added:	1.00	Units: uL	
MSV_Q_QGases_00121	Amount Added:	50.00	Units: uL	
MSV_HP20_ISSS_00037	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Feb-2021 21:37:01 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x18.D

Injection Date: 03-Feb-2021 20:10:30 Instrument ID: 9355 Operator ID: kas02648

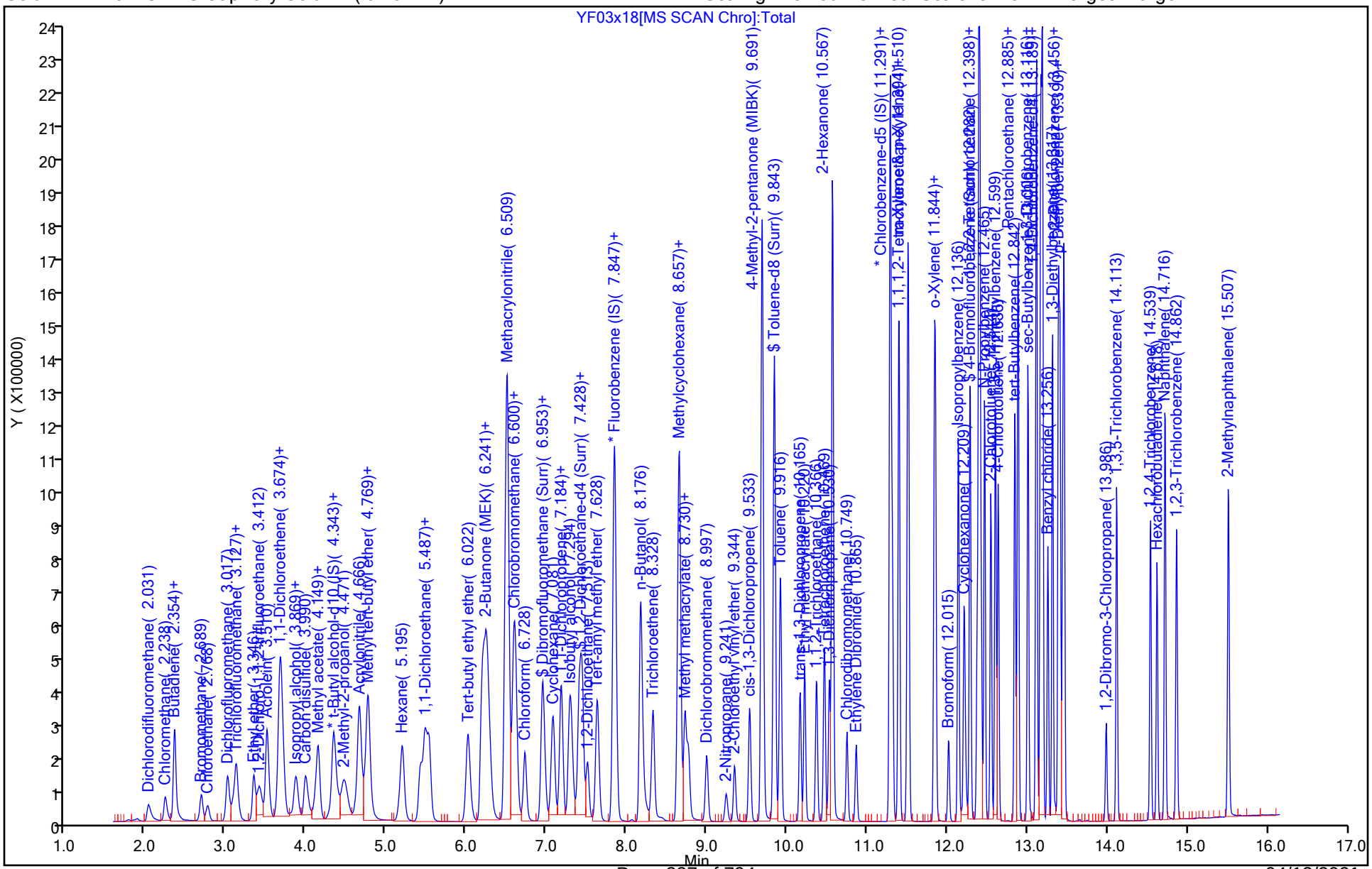
Lims ID: ICV Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

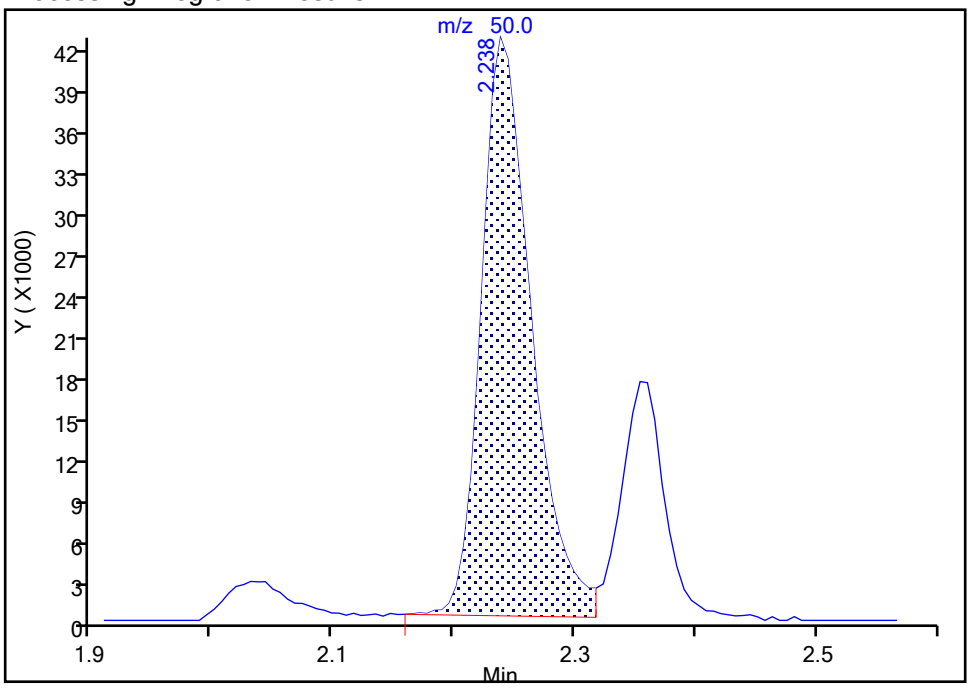
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x18.D
Injection Date: 03-Feb-2021 20:10:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

4 Chloromethane, CAS: 74-87-3

Signal: 1

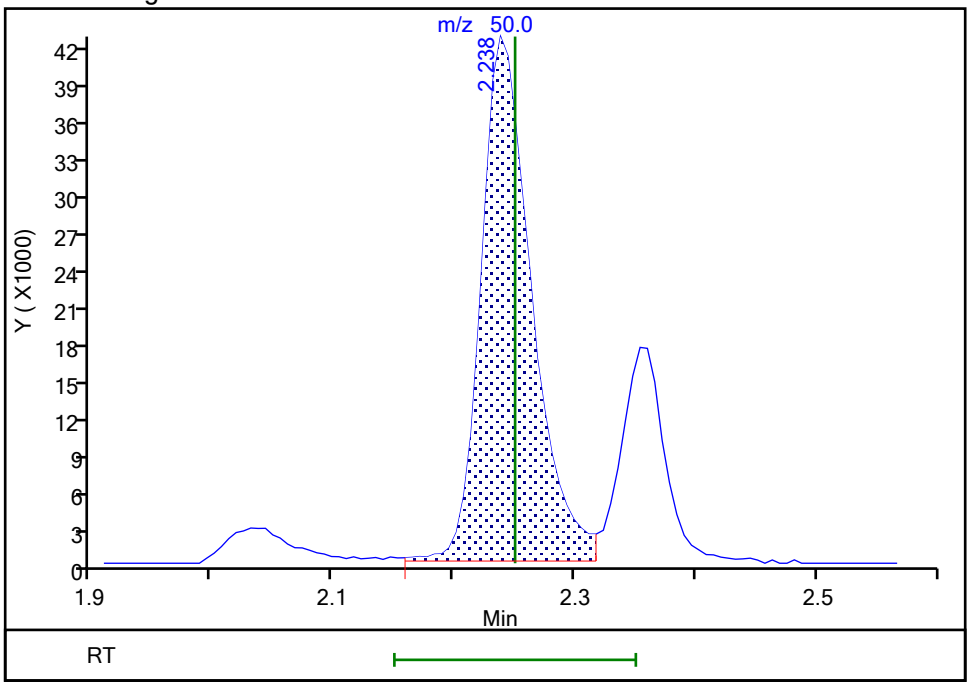
Processing Integration Results

RT: 2.24
Area: 123108
Amount: 16.964237
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 124630
Amount: 17.173968
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:53:52
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

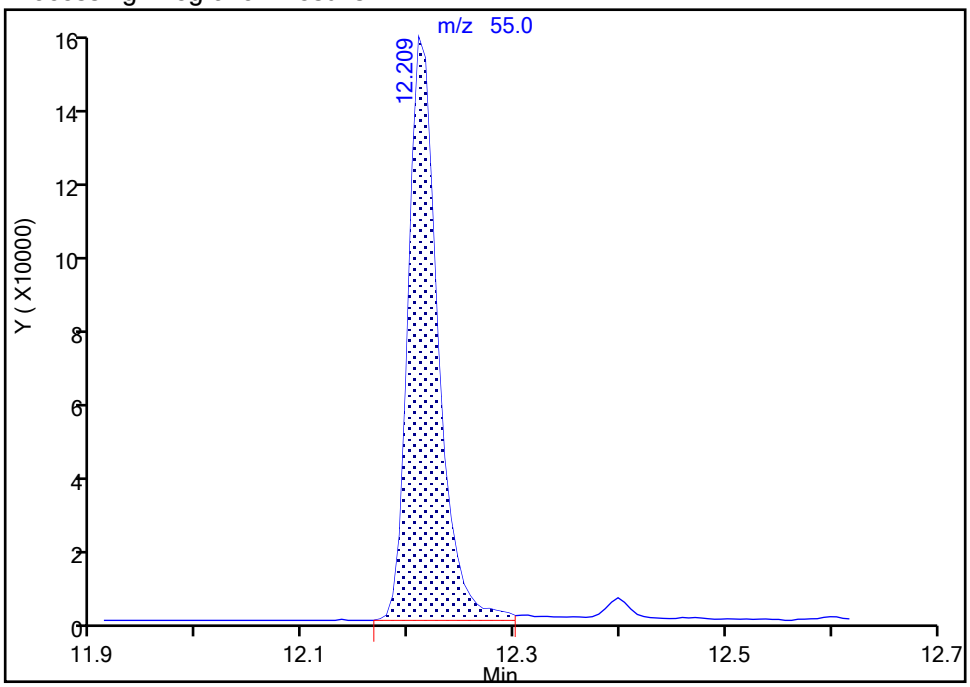
Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x18.D
Injection Date: 03-Feb-2021 20:10:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

103 Cyclohexanone, CAS: 108-94-1

Signal: 1

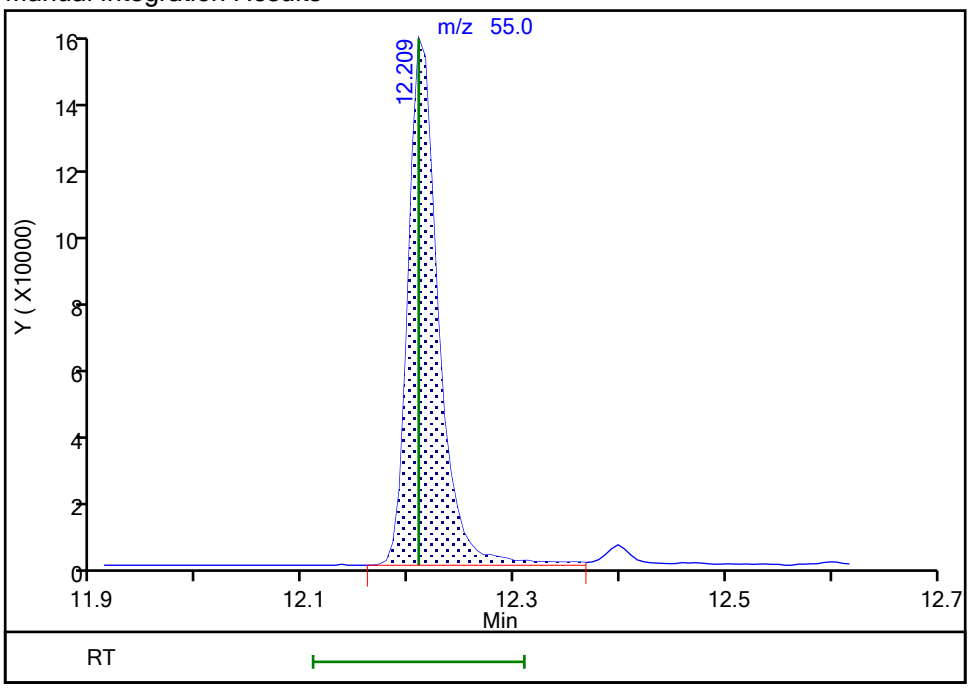
Processing Integration Results

RT: 12.21
Area: 299665
Amount: 344.0150
Amount Units: ug/l



Manual Integration Results

RT: 12.21
Area: 303758
Amount: 348.7137
Amount Units: ug/l



Reviewer: campbellme, 03-Feb-2021 20:55:17
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-111709/3 Calibration Date: 04/07/2021 10:47

Instrument ID: 9355 Calib Start Date: 02/03/2021 17:13

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 02/03/2021 19:26

Lab File ID: YA07C01.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	0.3096	0.2802	0.1000	45.3	50.0	-9.5	20.0
Chloromethane	Ave	0.3160	0.2427	0.1000	38.4	50.0	-23.2*	20.0
1,3-Butadiene	Ave	0.2778	0.2597		46.7	50.0	-6.5	20.0
Vinyl chloride	Ave	0.2927	0.2505	0.1000	42.8	50.0	-14.4	20.0
Bromomethane	Ave	0.2039	0.1968	0.1000	48.3	50.0	-3.5	20.0
Chloroethane	Ave	0.1747	0.1559	0.1000	44.6	50.0	-10.8	20.0
Dichlorofluoromethane	Ave	0.3926	0.3630		46.2	50.0	-7.5	20.0
Trichlorofluoromethane	Ave	0.3856	0.4215	0.1000	54.7	50.0	9.3	20.0
n-Pentane	Ave	0.4041	0.3809		47.1	50.0	-5.7	20.0
Ethyl ether	Ave	0.2319	0.2709		58.4	50.0	16.8	20.0
Freon 123a	Ave	0.2867	0.3280		57.2	50.0	14.4	20.0
Acrolein	Ave	1.820	2.022		555	500	11.1	20.0
1,1-Dichloroethene	Ave	0.2553	0.2668	0.1000	52.2	50.0	4.5	20.0
Acetone	Ave	1.003	0.8480	0.1000	84.5	100	-15.5	20.0
Freon 113	Ave	0.2663	0.2983	0.1000	56.0	50.0	12.0	20.0
2-Propanol	Ave	0.7121	0.5953		209	250	-16.4	20.0
Methyl iodide	Ave	0.4815	0.5246		54.5	50.0	9.0	20.0
Carbon disulfide	Ave	0.8852	0.8736	0.1000	49.3	50.0	-1.3	20.0
Methyl acetate	Ave	0.5151	0.4122	0.1000	40.0	50.0	-20.0	20.0
Allyl chloride	Ave	0.4833	0.4148		42.9	50.0	-14.2	20.0
Methylene Chloride	Ave	0.3119	0.3046	0.1000	48.8	50.0	-2.4	20.0
t-Butyl alcohol	Ave	1.341	1.269		237	250	-5.3	20.0
Acrylonitrile	Ave	0.2640	0.2347		44.4	50.0	-11.1	20.0
Methyl tertiary butyl ether	Ave	0.997	1.002	0.1000	50.3	50.0	0.5	20.0
trans-1,2-Dichloroethene	Ave	0.2972	0.3055	0.1000	51.4	50.0	2.8	20.0
n-Hexane	Ave	0.4752	0.4916		51.7	50.0	3.5	20.0
1,1-Dichloroethane	Ave	0.5487	0.5366	0.2000	48.9	50.0	-2.2	20.0
di-Isopropyl ether	Ave	1.036	0.9446		45.6	50.0	-8.8	20.0
2-Chloro-1,3-butadiene	Ave	0.4614	0.4878		52.9	50.0	5.7	20.0
Ethyl t-butyl ether	Ave	0.9519	0.9236		48.5	50.0	-3.0	20.0
2-Butanone	Ave	0.3797	0.3332	0.1000	87.8	100	-12.2	20.0
cis-1,2-Dichloroethene	Ave	0.3377	0.3481	0.1000	51.5	50.0	3.1	20.0
2,2-Dichloropropane	Ave	0.4226	0.4722		55.9	50.0	11.8	20.0
Propionitrile	Ave	1.471	1.465		249	250	-0.4	20.0
Methacrylonitrile	Ave	0.2510	0.2418		120	125	-3.7	20.0
Bromochloromethane	Ave	0.1774	0.1814		51.1	50.0	2.3	20.0
Tetrahydrofuran	Ave	1.328	1.465		110	100	10.3	20.0
Chloroform	Ave	0.5214	0.5572	0.2000	53.4	50.0	6.9	20.0
1,1,1-Trichloroethane	Ave	0.4427	0.5002	0.1000	56.5	50.0	13.0	20.0
Cyclohexane	Ave	0.5513	0.5539	0.1000	50.2	50.0	0.5	20.0
1,1-Dichloropropene	Ave	0.4291	0.4491		52.3	50.0	4.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-111709/3 Calibration Date: 04/07/2021 10:47

Instrument ID: 9355 Calib Start Date: 02/03/2021 17:13

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 02/03/2021 19:26

Lab File ID: YA07C01.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	0.3761	0.4392	0.1000	58.4	50.0	16.8	20.0
Isobutyl alcohol	Ave	0.4493	0.4351		605	625	-3.2	20.0
Benzene	Ave	1.301	1.283	0.5000	49.3	50.0	-1.4	20.0
1,2-Dichloroethane	Ave	0.4557	0.4904	0.1000	53.8	50.0	7.6	20.0
t-Amyl methyl ether	Ave	0.9441	0.9481		50.2	50.0	0.4	20.0
n-Heptane	Ave	0.5504	0.5740		52.1	50.0	4.3	20.0
n-Butanol	Ave	0.4086	0.4451		1360	1250	8.9	20.0
Trichloroethene	Ave	0.3276	0.3414	0.2000	52.1	50.0	4.2	20.0
Methylcyclohexane	Ave	0.5777	0.5772	0.1000	50.0	50.0	-0.0	20.0
1,2-Dichloropropane	Ave	0.3468	0.3277	0.1000	47.2	50.0	-5.5	20.0
t-Amyl ethyl ether	Ave	0.4771	0.5043		52.9	50.0	5.7	20.0
Methyl methacrylate	Ave	0.3643	0.3617		49.6	50.0	-0.7	20.0
1,4-Dioxane	Ave	0.0961	0.1048	0.0050	681	625	9.0	20.0
Dibromomethane	Ave	0.2186	0.2334		53.4	50.0	6.8	20.0
Bromodichloromethane	Ave	0.3853	0.4253	0.2000	55.2	50.0	10.4	20.0
2-Nitropropane	Ave	2.188	2.895		132	100	32.3*	20.0
2-Chloroethyl vinyl ether	Ave	0.1950	0.2787		71.5	50.0	42.9*	20.0
cis-1,3-Dichloropropene	Ave	0.5350	0.5601	0.2000	52.3	50.0	4.7	20.0
4-Methyl-2-pentanone	Ave	0.6624	0.7236	0.1000	109	100	9.2	20.0
Toluene	Ave	1.090	1.070	0.4000	49.1	50.0	-1.8	20.0
trans-1,3-Dichloropropene	Ave	0.6574	0.6848	0.1000	52.1	50.0	4.2	20.0
Ethyl methacrylate	Ave	0.7168	0.7362		51.4	50.0	2.7	20.0
1,1,2-Trichloroethane	Ave	0.4281	0.4296	0.1000	50.2	50.0	0.3	20.0
Tetrachloroethene	Ave	0.4779	0.5267	0.2000	55.1	50.0	10.2	20.0
1,3-Dichloropropane	Ave	0.7454	0.7249		48.6	50.0	-2.7	20.0
2-Hexanone	Ave	0.7230	0.8236	0.1000	114	100	13.9	20.0
Dibromochloromethane	Ave	0.4311	0.4852		56.3	50.0	12.6	20.0
1,2-Dibromoethane	Ave	0.4708	0.4894	0.1000	52.0	50.0	4.0	20.0
1-Chlorohexane	Ave	0.5885	0.5887		50.0	50.0	0.0	20.0
Chlorobenzene	Ave	1.252	1.280	0.5000	51.1	50.0	2.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4091	0.4549		55.6	50.0	11.2	20.0
Ethylbenzene	Ave	2.039	2.107	0.1000	51.7	50.0	3.4	20.0
m&p-Xylene	Ave	0.8131	0.8570	0.1000	105	100	5.4	20.0
o-Xylene	Ave	0.7816	0.8401	0.3000	53.7	50.0	7.5	20.0
Styrene	Ave	1.277	1.405	0.3000	55.0	50.0	10.0	20.0
Bromoform	Ave	0.3298	0.3882	0.1000	58.9	50.0	17.7	20.0
Isopropylbenzene	Ave	1.968	2.169	0.1000	55.1	50.0	10.2	20.0
Cyclohexanone	Ave	0.5345	0.3567		417	625	-33.3*	20.0
1,1,2,2-Tetrachloroethane	Ave	1.388	1.312	0.3000	47.3	50.0	-5.5	20.0
Bromobenzene	Ave	1.014	1.024		50.5	50.0	1.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4838	0.4789		124	125	-1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-111709/3 Calibration Date: 04/07/2021 10:47

Instrument ID: 9355 Calib Start Date: 02/03/2021 17:13

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 02/03/2021 19:26

Lab File ID: YA07C01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichloropropane	Ave	0.4459	0.4474		50.2	50.0	0.3	20.0
N-Propylbenzene	Ave	4.407	4.387		49.8	50.0	-0.5	20.0
2-Chlorotoluene	Ave	0.9474	0.9377		49.5	50.0	-1.0	20.0
1,3,5-Trimethylbenzene	Ave	3.169	3.291		51.9	50.0	3.8	20.0
4-Chlorotoluene	Ave	0.9898	0.996		50.3	50.0	0.6	20.0
tert-Butylbenzene	Ave	0.6781	0.7115		52.5	50.0	4.9	20.0
Pentachloroethane	Ave	0.5492	0.5616		51.1	50.0	2.3	20.0
1,2,4-Trimethylbenzene	Ave	3.274	3.436		52.5	50.0	5.0	20.0
sec-Butylbenzene	Ave	4.054	4.307		53.1	50.0	6.2	20.0
1,3-Dichlorobenzene	Ave	1.924	1.981	0.6000	51.5	50.0	3.0	20.0
p-Isopropyltoluene	Ave	3.464	3.793		54.8	50.0	9.5	20.0
1,4-Dichlorobenzene	Ave	1.996	2.024	0.5000	50.7	50.0	1.4	20.0
1,2,3-Trimethylbenzene	Ave	3.400	3.428		50.4	50.0	0.8	20.0
Benzyl chloride	Ave	2.759	2.943		53.3	50.0	6.7	20.0
1,3-Diethylbenzene	Ave	2.182	2.207		50.6	50.0	1.2	20.0
1,4-Diethylbenzene	Ave	2.290	2.339		51.1	50.0	2.1	20.0
n-Butylbenzene	Ave	1.835	1.905		51.9	50.0	3.9	20.0
1,2-Dichlorobenzene	Ave	1.868	1.927	0.4000	51.6	50.0	3.2	20.0
1,2-Diethylbenzene	Ave	1.816	1.850		50.9	50.0	1.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3722	0.3897	0.0500	52.3	50.0	4.7	20.0
1,3,5-Trichlorobenzene	Ave	1.448	1.516		52.4	50.0	4.7	20.0
1,2,4-Trichlorobenzene	Ave	1.325	1.360	0.2000	51.3	50.0	2.6	20.0
Hexachlorobutadiene	Ave	0.6243	0.6546		52.4	50.0	4.9	20.0
Naphthalene	Ave	4.508	4.730		52.5	50.0	4.9	20.0
1,2,3-Trichlorobenzene	Ave	1.295	1.260		48.7	50.0	-2.7	20.0
2-Methylnaphthalene	Ave	2.577	2.268		44.0	50.0	-12.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2312	0.2489		53.8	50.0	7.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0612	0.0627		51.2	50.0	2.4	20.0
Toluene-d8 (Surr)	Ave	1.307	1.285		49.2	50.0	-1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4869	0.4911		50.4	50.0	0.9	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07C01.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Apr-2021 10:47:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-003
Misc. Info.: CCVIS
Operator ID: lcp00895 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub2

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 12:43:06 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 07-Apr-2021 11:25:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.038	2.038	0.000	99	300862	50.0	45.3	
4 Chloromethane	50	2.244	2.244	0.000	99	260644	50.0	38.4	
6 Vinyl chloride	62	2.366	2.366	0.000	98	268978	50.0	42.8	
5 Butadiene	39	2.366	2.366	0.000	92	278862	50.0	46.7	
8 Bromomethane	94	2.707	2.707	0.000	90	211381	50.0	48.3	M
9 Chloroethane	64	2.786	2.786	0.000	100	167377	50.0	44.6	
10 Dichlorofluoromethane	67	3.035	3.035	0.000	97	389786	50.0	46.2	
11 Trichlorofluoromethane	101	3.108	3.108	0.000	98	452643	50.0	54.7	
12 Pentane	43	3.133	3.133	0.000	95	409070	50.0	47.1	
14 Ethyl ether	59	3.346	3.346	0.000	90	290930	50.0	58.4	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	90	352241	50.0	57.2	
16 Acrolein	56	3.510	3.510	0.000	99	1455836	500.0	555.5	
17 1,1-Dichloroethene	96	3.680	3.680	0.000	98	286473	50.0	52.2	
18 Acetone	58	3.680	3.680	0.000	82	122142	100.0	84.5	
19 112TCTFE	101	3.711	3.711	0.000	92	320358	50.0	56.0	
20 Isopropyl alcohol	45	3.851	3.851	0.000	99	214372	250.0	209.0	
21 Iodomethane	142	3.887	3.887	0.000	98	563401	50.0	54.5	
22 Carbon disulfide	76	4.027	4.027	0.000	99	938162	50.0	49.3	
24 Methyl acetate	43	4.118	4.118	0.000	98	442650	50.0	40.0	M
25 3-Chloro-1-propene	41	4.149	4.149	0.000	91	445445	50.0	42.9	
* 26 t-Butyl alcohol-d10 (IS)	65	4.331	4.331	0.000	0	360102	250.0	250.0	
27 Methylene Chloride	84	4.355	4.355	0.000	92	327074	50.0	48.8	
28 2-Methyl-2-propanol	59	4.465	4.465	0.000	98	457044	250.0	236.6	
30 Acrylonitrile	53	4.660	4.660	0.000	97	252005	50.0	44.4	
31 Methyl tert-butyl ether	73	4.763	4.763	0.000	95	1076264	50.0	50.3	
32 trans-1,2-Dichloroethene	96	4.775	4.775	0.000	99	328122	50.0	51.4	
33 Hexane	57	5.201	5.201	0.000	93	527956	50.0	51.7	
35 1,1-Dichloroethane	63	5.420	5.420	0.000	96	576283	50.0	48.9	
36 Isopropyl ether	45	5.481	5.481	0.000	93	1014426	50.0	45.6	
37 2-Chloro-1,3-butadiene	53	5.536	5.536	0.000	91	523820	50.0	52.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 Tert-butyl ethyl ether	59	6.022	6.022	0.000	97	991791	50.0	48.5	
40 2-Butanone (MEK)	43	6.205	6.205	0.000	99	715654	100.0	87.8	
41 cis-1,2-Dichloroethene	96	6.247	6.247	0.000	83	373832	50.0	51.5	
43 2,2-Dichloropropane	77	6.272	6.272	0.000	92	507117	50.0	55.9	
44 Propionitrile	54	6.284	6.284	0.000	98	527541	250.0	249.1	
45 Methacrylonitrile	67	6.503	6.503	0.000	91	649119	125.0	120.4	
46 Chlorobromomethane	128	6.582	6.582	0.000	90	194835	50.0	51.1	
47 Tetrahydrofuran	71	6.606	6.606	0.000	90	211018	100.0	110.3	
48 Chloroform	83	6.728	6.728	0.000	93	598398	50.0	53.4	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.947	0.000	93	267242	50.0	53.8	
50 1,1,1-Trichloroethane	97	6.965	6.965	0.000	98	537110	50.0	56.5	
51 Cyclohexane	56	7.081	7.081	0.000	90	594786	50.0	50.2	
52 1,1-Dichloropropene	75	7.178	7.178	0.000	96	482296	50.0	52.3	
53 Carbon tetrachloride	117	7.184	7.184	0.000	95	471698	50.0	58.4	
54 Isobutyl alcohol	41	7.294	7.294	0.000	94	391691	625.0	605.2	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	67313	50.0	51.2	
56 Benzene	78	7.440	7.440	0.000	96	1378000	50.0	49.3	
58 1,2-Dichloroethane	62	7.507	7.507	0.000	98	526661	50.0	53.8	
59 Tert-amyl methyl ether	73	7.635	7.635	0.000	98	1018132	50.0	50.2	
* 61 Fluorobenzene (IS)	96	7.841	7.841	0.000	99	1073879	50.0	50.0	
62 n-Heptane	43	7.854	7.854	0.000	91	616399	50.0	52.1	
63 n-Butanol	56	8.170	8.170	0.000	89	801394	1250.0	1361.6	
64 Trichloroethene	95	8.328	8.328	0.000	97	366572	50.0	52.1	
65 Methylcyclohexane	83	8.644	8.644	0.000	95	619890	50.0	50.0	
66 1,2-Dichloropropane	63	8.650	8.650	0.000	71	351875	50.0	47.2	
67 2-ethoxy-2-methyl butane	87	8.657	8.657	0.000	96	541589	50.0	52.9	
68 Methyl methacrylate	69	8.723	8.723	0.000	90	388412	50.0	49.6	
69 1,4-Dioxane	88	8.742	8.742	0.000	89	94347	625.0	681.2	M
70 Dibromomethane	93	8.766	8.766	0.000	95	250630	50.0	53.4	
72 Dichlorobromomethane	83	8.997	8.997	0.000	99	456688	50.0	55.2	
73 2-Nitropropane	41	9.241	9.241	0.000	97	417022	100.0	132.3	
74 2-Chloroethyl vinyl ether	63	9.338	9.338	0.000	92	299334	50.0	71.5	
75 cis-1,3-Dichloropropene	75	9.533	9.533	0.000	96	601458	50.0	52.3	
76 4-Methyl-2-pentanone (MIBK)	43	9.685	9.685	0.000	96	1554011	100.0	109.2	
$ 77 Toluene-d8 (Surr)	98	9.843	9.843	0.000	93	1088714	50.0	49.2	
78 Toluene	92	9.916	9.916	0.000	98	906948	50.0	49.1	
81 trans-1,3-Dichloropropene	75	10.159	10.159	0.000	92	580361	50.0	52.1	
82 Ethyl methacrylate	69	10.220	10.220	0.000	89	623934	50.0	51.4	
83 1,1,2-Trichloroethane	97	10.366	10.366	0.000	91	364076	50.0	50.2	
84 Tetrachloroethene	166	10.463	10.463	0.000	98	446318	50.0	55.1	
85 1,3-Dichloropropane	76	10.524	10.524	0.000	91	614316	50.0	48.6	
87 2-Hexanone	43	10.567	10.567	0.000	96	1395902	100.0	113.9	
89 Chlorodibromomethane	129	10.743	10.743	0.000	89	411201	50.0	56.3	
90 Ethylene Dibromide	107	10.859	10.859	0.000	98	414759	50.0	52.0	
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	86	847449	50.0	50.0	
92 1-Chlorohexane	91	11.291	11.291	0.000	97	498928	50.0	50.0	
94 Chlorobenzene	112	11.315	11.315	0.000	96	1084833	50.0	51.1	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	96	385530	50.0	55.6	
96 Ethylbenzene	91	11.394	11.394	0.000	98	1785510	50.0	51.7	
97 m-Xylene & p-Xylene	106	11.510	11.510	0.000	99	1452454	100.0	105.4	
98 o-Xylene	106	11.838	11.838	0.000	96	711918	50.0	53.7	
99 Styrene	104	11.850	11.850	0.000	94	1190515	50.0	55.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 Bromoform	173	12.015	12.015	0.000	97	328953	50.0	58.9	
101 Isopropylbenzene	105	12.136	12.136	0.000	95	1838193	50.0	55.1	
103 Cyclohexanone	55	12.209	12.209	0.000	92	321119	625.0	417.1	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	416193	50.0	50.4	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.374	0.000	94	650108	50.0	47.3	
107 Bromobenzene	156	12.398	12.398	0.000	94	507377	50.0	50.5	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	84	593416	125.0	123.7	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	83	221737	50.0	50.2	
109 N-Propylbenzene	91	12.465	12.465	0.000	98	2174560	50.0	49.8	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	464759	50.0	49.5	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	1630987	50.0	51.9	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	493621	50.0	50.3	
114 tert-Butylbenzene	134	12.842	12.842	0.000	93	352674	50.0	52.5	
115 Pentachloroethane	167	12.879	12.879	0.000	91	278345	50.0	51.1	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.000	97	1703129	50.0	52.5	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	2134520	50.0	53.1	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	97	982062	50.0	51.5	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	1880147	50.0	54.8	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	495649	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	95	1003396	50.0	50.7	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	1699291	50.0	50.4	
123 Benzyl chloride	91	13.256	13.256	0.000	98	1458917	50.0	53.3	
124 1,3-Diethylbenzene	119	13.310	13.310	0.000	95	1094105	50.0	50.6	
125 p-Diethylbenzene	119	13.383	13.383	0.000	94	1159524	50.0	51.1	
126 n-Butylbenzene	92	13.408	13.408	0.000	97	944294	50.0	51.9	
127 1,2-Dichlorobenzene	146	13.438	13.438	0.000	99	955237	50.0	51.6	
128 o-diethylbenzene	119	13.457	13.457	0.000	95	916884	50.0	50.9	
130 1,2-Dibromo-3-Chloropropane	75	13.980	13.980	0.000	87	193153	50.0	52.3	
131 1,3,5-Trichlorobenzene	180	14.114	14.114	0.000	98	751564	50.0	52.4	
132 1,2,4-Trichlorobenzene	180	14.533	14.533	0.000	94	674044	50.0	51.3	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	97	324476	50.0	52.4	
134 Naphthalene	128	14.716	14.716	0.000	97	2344254	50.0	52.5	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	624739	50.0	48.7	
136 2-Methylnaphthalene	142	15.507	15.507	0.000	97	1124146	50.0	44.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_V_2CEVE_00148	Amount Added:	5.00	Units: uL	
MSV_V_VOA3_00076	Amount Added:	2.00	Units: uL	
MSV_V_VOA6_00082	Amount Added:	5.00	Units: uL	
MSV_VCYC_00006	Amount Added:	10.00	Units: uL	
MSV_V_VOA1_00137	Amount Added:	5.00	Units: uL	
MSV_V_EE_00004	Amount Added:	5.00	Units: uL	
MSV_V_Gas_00232	Amount Added:	2.50	Units: uL	
MSV_DCFM_00037	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00040	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Apr-2021 12:43:09 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07C01.D

Injection Date: 07-Apr-2021 10:47:30 Instrument ID: 9355 Operator ID: lcp00895

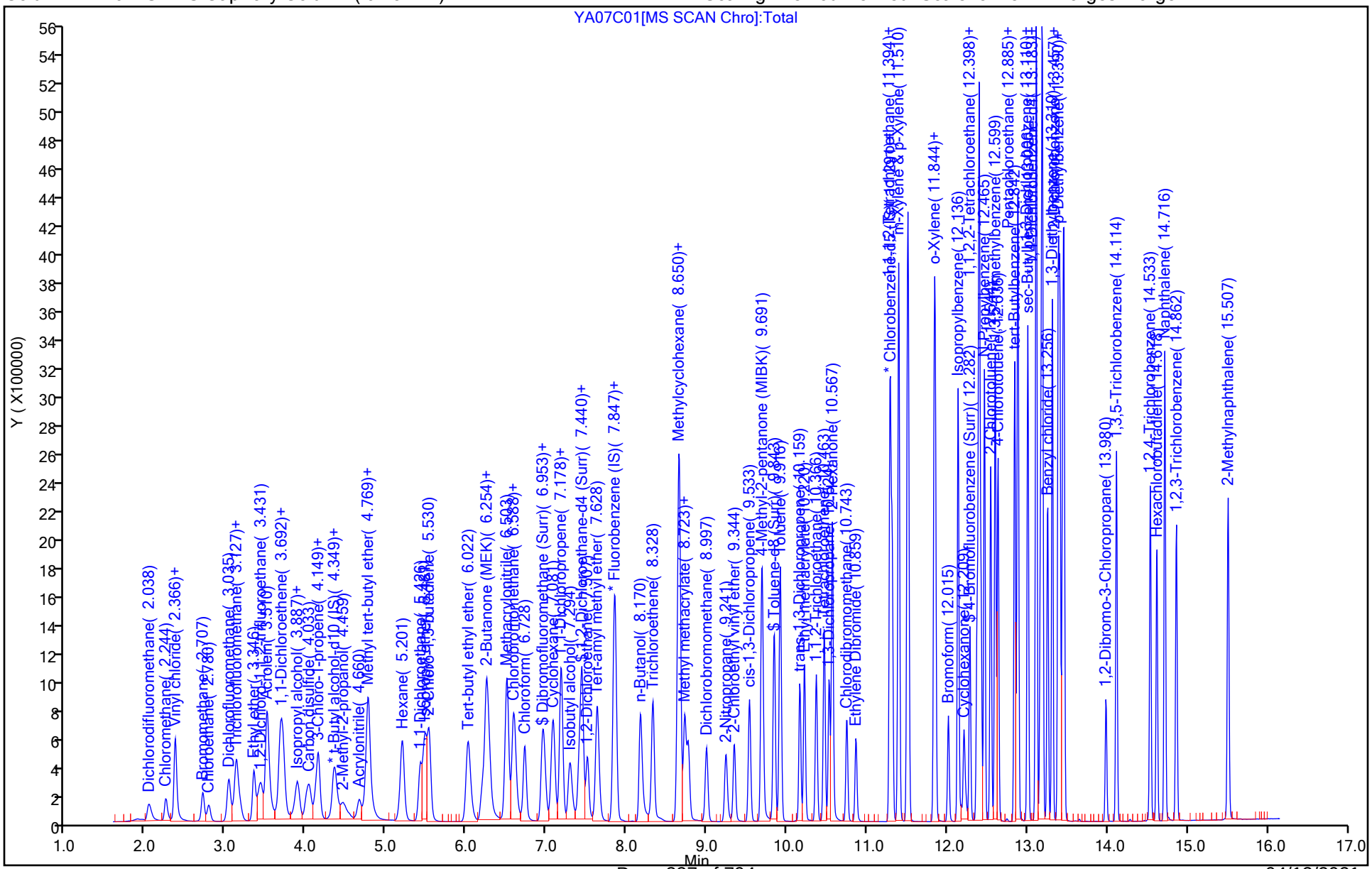
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Env, LLC

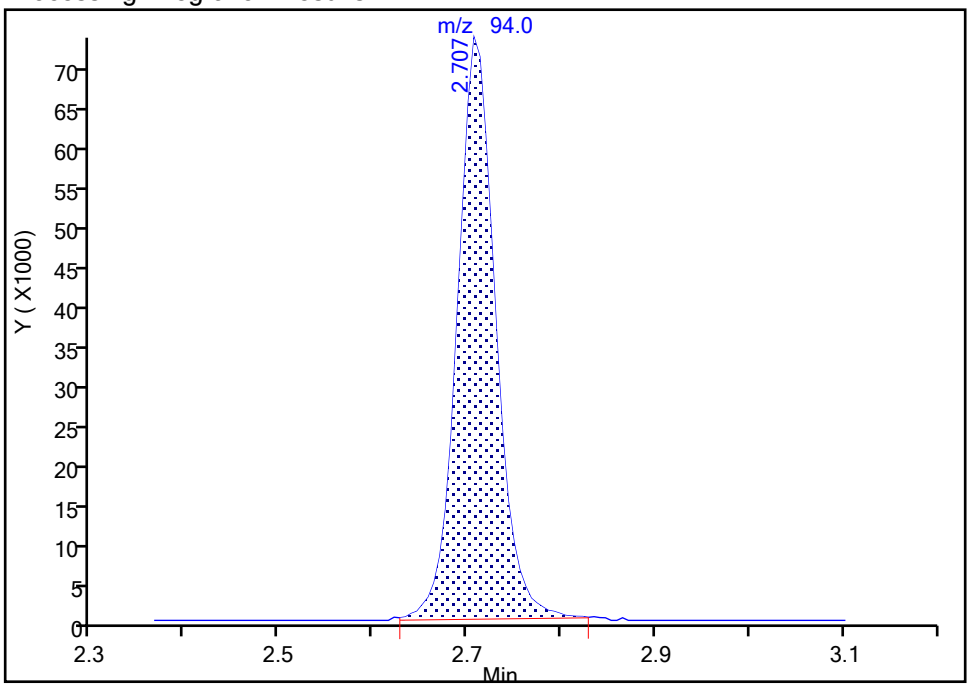
Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07C01.D
Injection Date: 07-Apr-2021 10:47:30 Instrument ID: 9355
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

8 Bromomethane, CAS: 74-83-9

Signal: 1

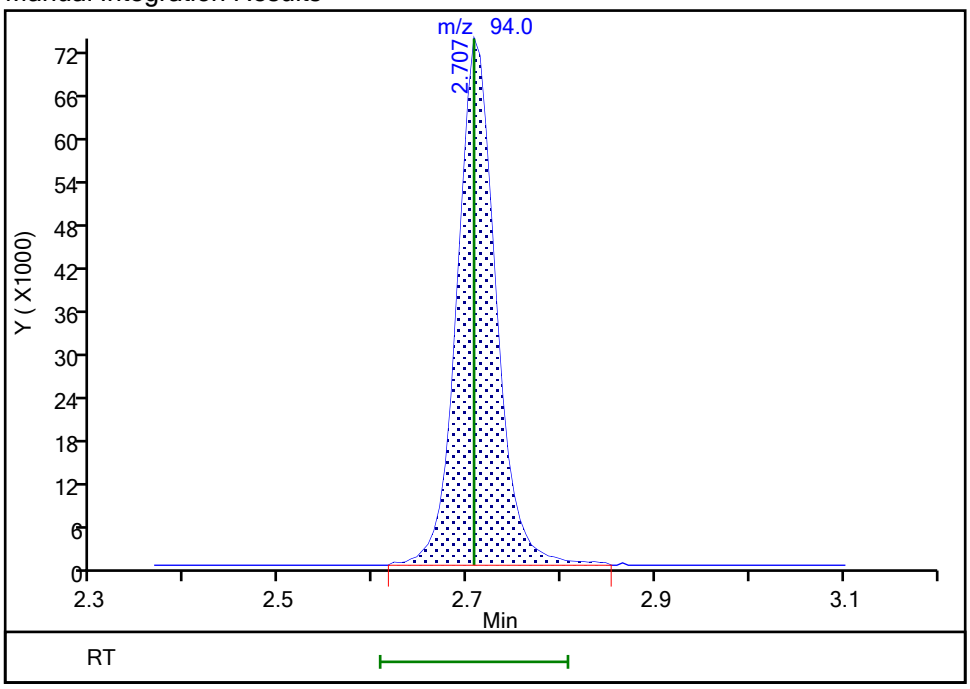
Processing Integration Results

RT: 2.71
Area: 208659
Amount: 47.645828
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 211381
Amount: 48.267378
Amount Units: ug/l



Reviewer: papel, 07-Apr-2021 11:14:00
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

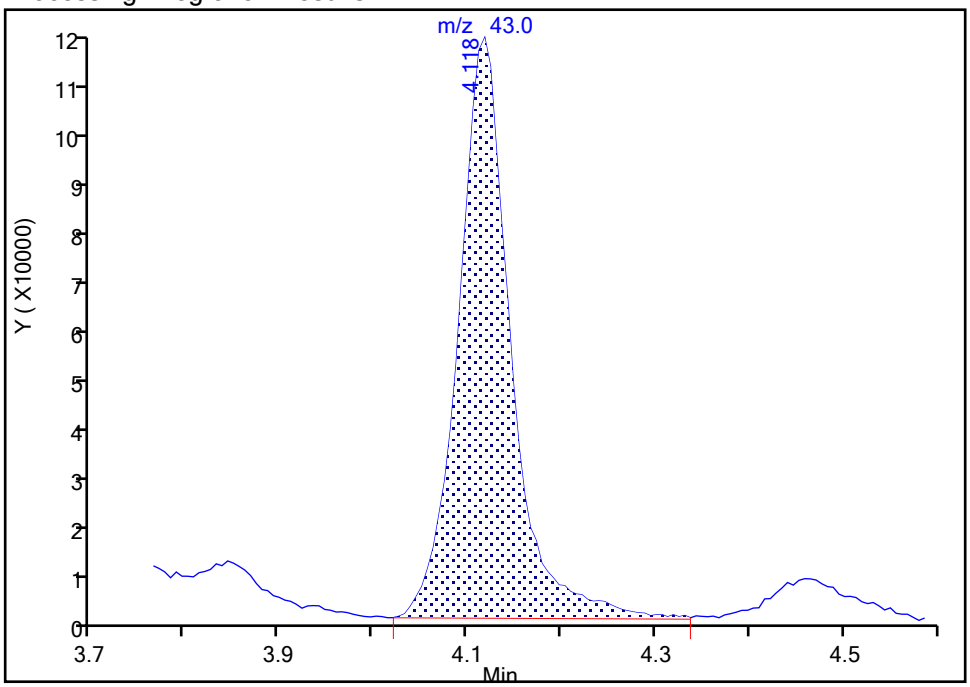
Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07C01.D
Injection Date: 07-Apr-2021 10:47:30 Instrument ID: 9355
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

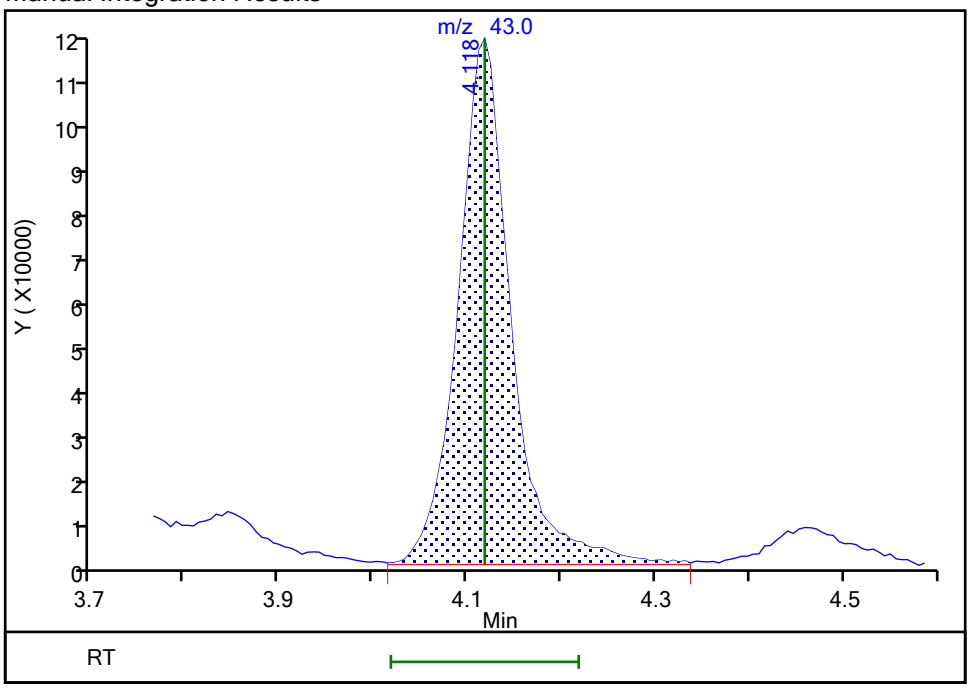
Processing Integration Results

RT: 4.12
Area: 438724
Amount: 39.658303
Amount Units: ug/l



Manual Integration Results

RT: 4.12
Area: 442650
Amount: 40.013192
Amount Units: ug/l



Reviewer: papel, 07-Apr-2021 11:14:31
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

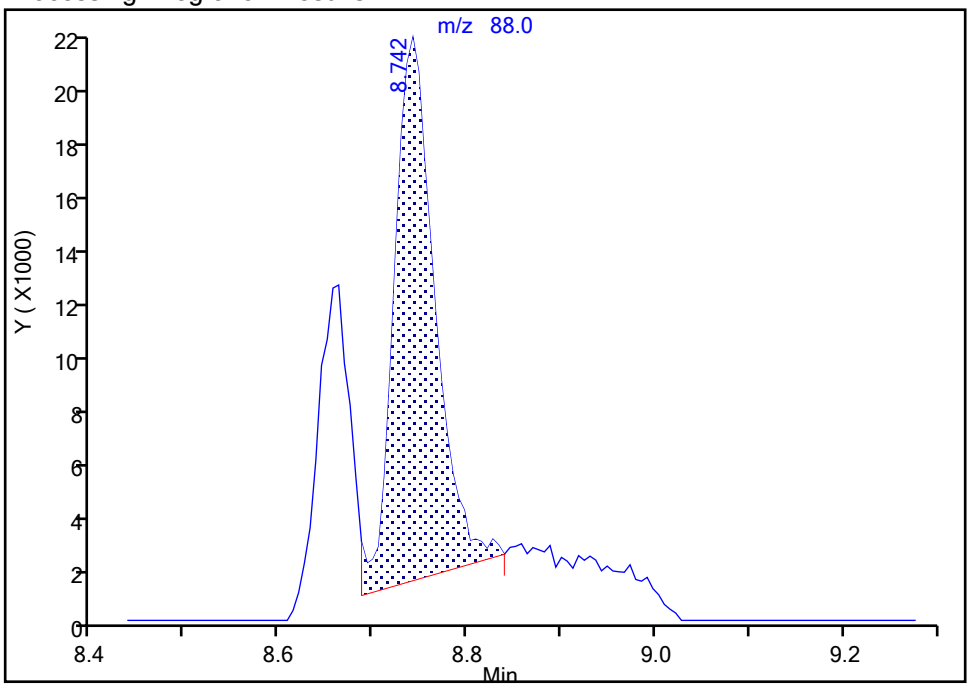
Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07C01.D
Injection Date: 07-Apr-2021 10:47:30 Instrument ID: 9355
Lims ID: CCVIS
Client ID:
Operator ID: lcp00895 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

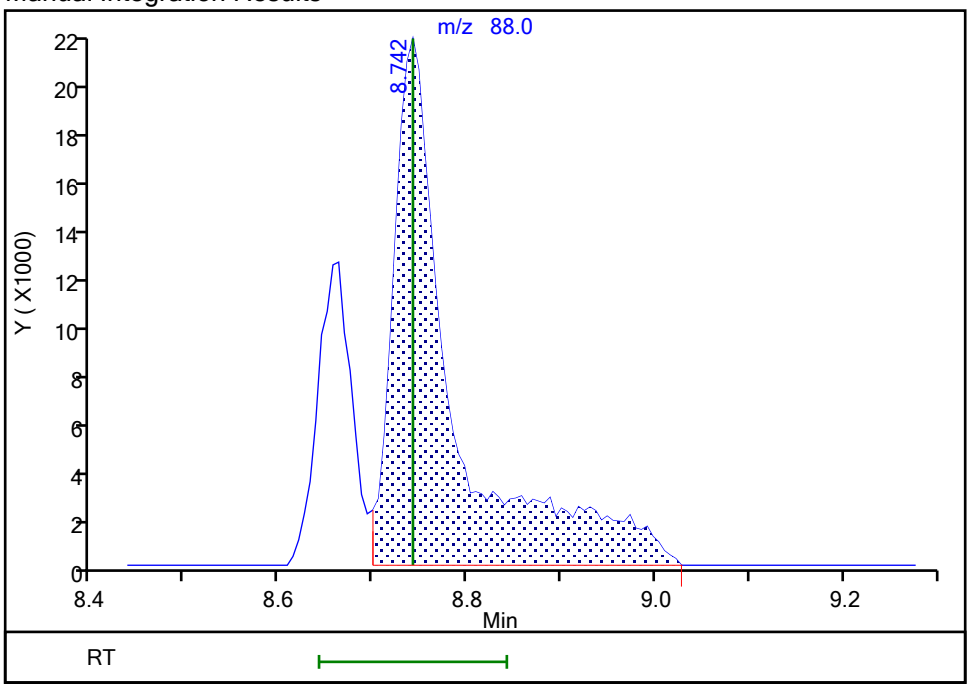
Processing Integration Results

RT: 8.74
Area: 59728
Amount: 431.2683
Amount Units: ug/l



Manual Integration Results

RT: 8.74
Area: 94347
Amount: 681.2360
Amount Units: ug/l



Reviewer: papel, 07-Apr-2021 11:15:17
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 03-Feb-2021 14:00:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0021230-001
Operator ID: kas02648 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 03-Feb-2021 21:36:55 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1659

First Level Reviewer: campbellme Date: 03-Feb-2021 18:03:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 29 BFB	95	4.671	4.671	0.000	0	120183	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

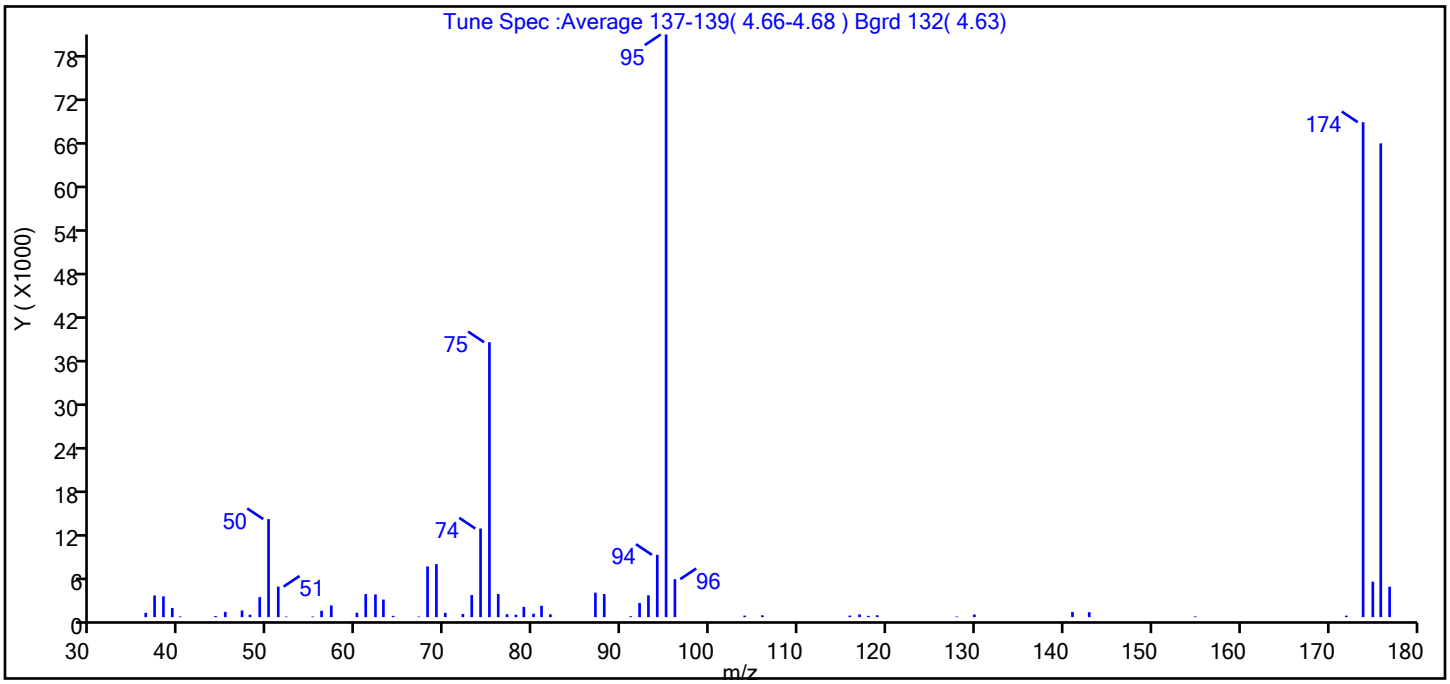
MSV_V_BFB_00004 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03T01.D
Injection Date: 03-Feb-2021 14:00:30 Instrument ID: 9355
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 29 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.9
175	5 to 9% of m/z 174	6.1 (7.2)
176	Greater than 95% but less than 101% of m/z 174	81.3 (95.7)
177	5 to 9% of m/z 176	5.2 (6.4)

Data File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03T01.D\MSVoa_9355.rslt\spectra.d
Injection Date: 03-Feb-2021 14:00:30
Spectrum: Tune Spec :Average 137-139(4.66-4.68) Bgrd 132(4.63)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 60

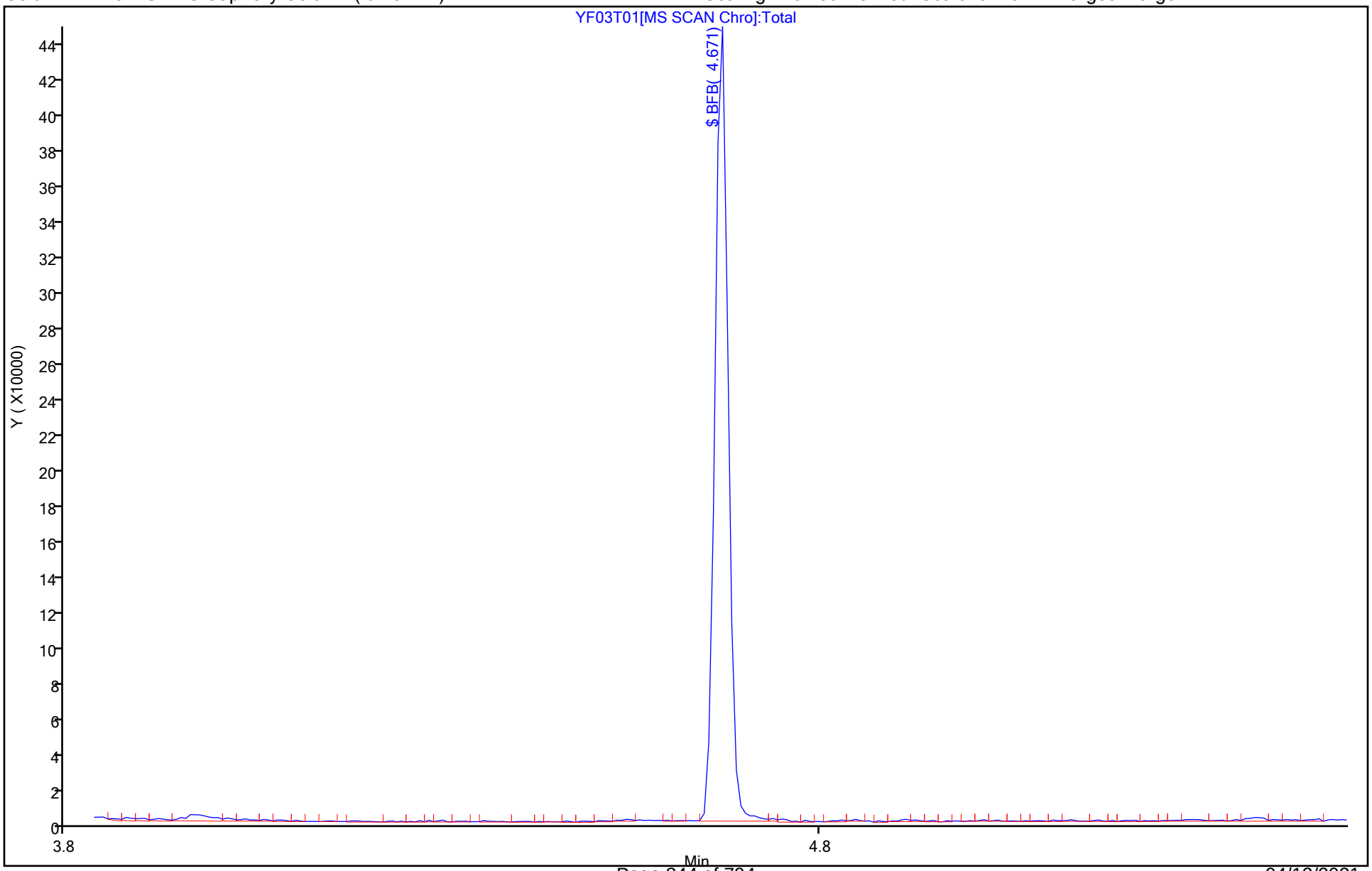
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	595	57.00	1617	77.00	408	106.00	256
37.00	2996	60.00	613	78.00	336	116.00	218
38.00	2878	61.00	3187	79.00	1422	117.00	381
39.00	1261	62.00	3142	80.00	472	118.00	185
40.00	100	63.00	2431	81.00	1574	119.00	261
44.00	159	64.00	182	82.00	392	128.00	91
45.00	730	67.00	84	87.00	3385	130.00	365
47.00	919	68.00	7012	88.00	3187	141.00	719
48.00	340	69.00	7333	91.00	128	143.00	689
49.00	2767	70.00	595	92.00	1957	155.00	108
50.00	13558	72.00	441	93.00	3012	172.00	212
51.00	4223	73.00	3057	94.00	8613	174.00	68432
52.00	86	74.00	12256	95.00	80560	175.00	4903
55.00	91	75.00	38008	96.00	5254	176.00	65504
56.00	883	76.00	3191	104.00	212	177.00	4205

Report Date: 03-Feb-2021 21:36:56 Chrom Revision: 2.3 17-Jan-2021 00:24:10

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03T01.D				
Injection Date:	03-Feb-2021 14:00:30	Instrument ID:	9355	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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\9355\20210407-26049.b\YA07T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 07-Apr-2021 10:07:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0026049-001
Misc. Info.: BFB
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 12:43:03 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 07-Apr-2021 10:22:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 29 BFB	95	4.665	4.665	0.000	0	168788	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

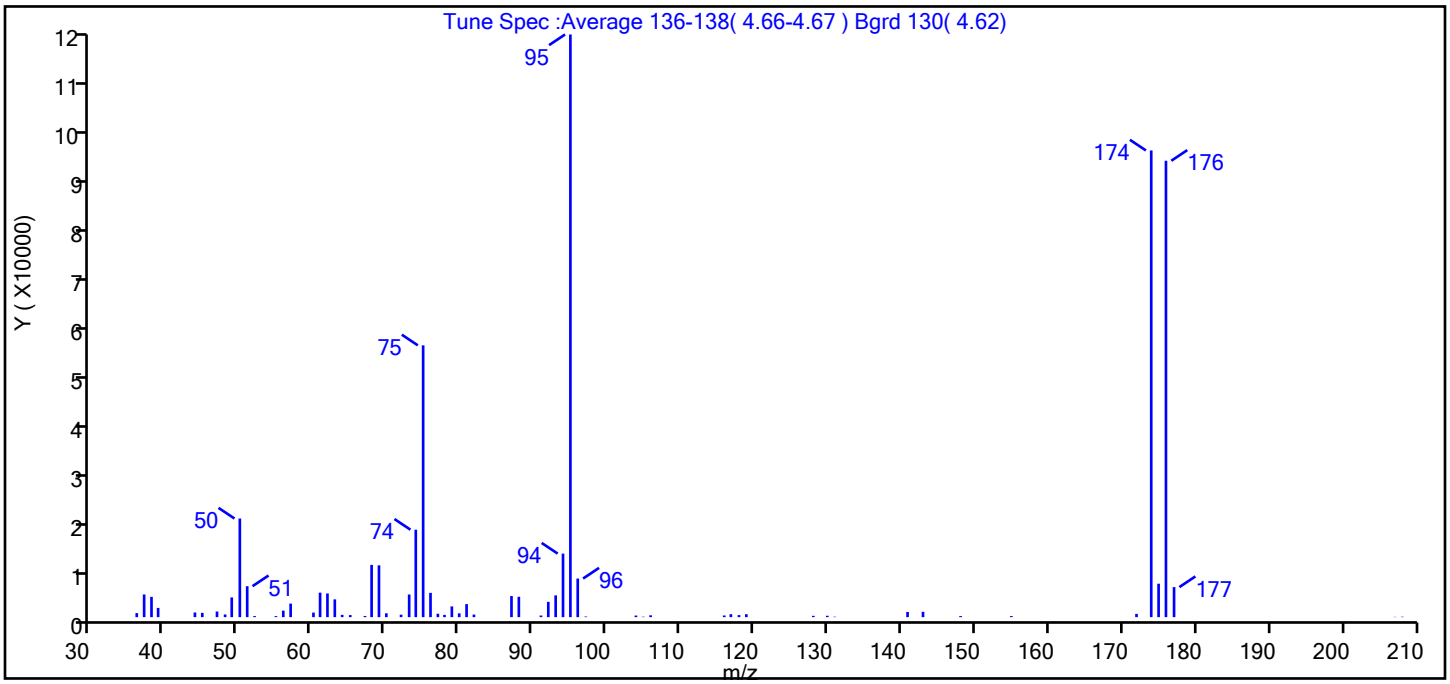
MSV_V_BFB_00005 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07T01.D
Injection Date: 07-Apr-2021 10:07:30 Instrument ID: 9355
Lims ID: bfb
Client ID:
Operator ID: lcp00895 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 29 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.9
75	30 to 60% of m/z 95	46.6
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	80.1
175	5 to 9% of m/z 174	5.7 (7.2)
176	Greater than 95% but less than 101% of m/z 174	78.3 (97.8)
177	5 to 9% of m/z 176	5.2 (6.6)

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07T01.D\MSVoa_9355.rslt\spectra.d
Injection Date: 07-Apr-2021 10:07:30
Spectrum: Tune Spec :Average 136-138(4.66-4.67) Bgrd 130(4.62)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	792	62.00	4645	81.00	2561	119.00	576
37.00	4450	63.00	3487	82.00	507	128.00	260
38.00	3979	64.00	446	87.00	4139	130.00	273
39.00	1812	65.00	402	88.00	3993	131.00	85
44.00	911	67.00	232	91.00	319	141.00	1015
45.00	837	68.00	10247	92.00	2994	143.00	1043
47.00	1105	69.00	10164	93.00	4270	148.00	214
48.00	527	70.00	756	94.00	12463	155.00	211
49.00	3865	72.00	489	95.00	114304	172.00	640
50.00	19344	73.00	4442	96.00	7572	174.00	91552
51.00	6075	74.00	17152	97.00	127	175.00	6559
52.00	213	75.00	53320	104.00	315	176.00	89528
55.00	201	76.00	4765	105.00	86	177.00	5896
56.00	1278	77.00	668	106.00	361	207.00	53
57.00	2658	78.00	438	116.00	327	208.00	83
60.00	895	79.00	2104	117.00	578		
61.00	4807	80.00	746	118.00	404		

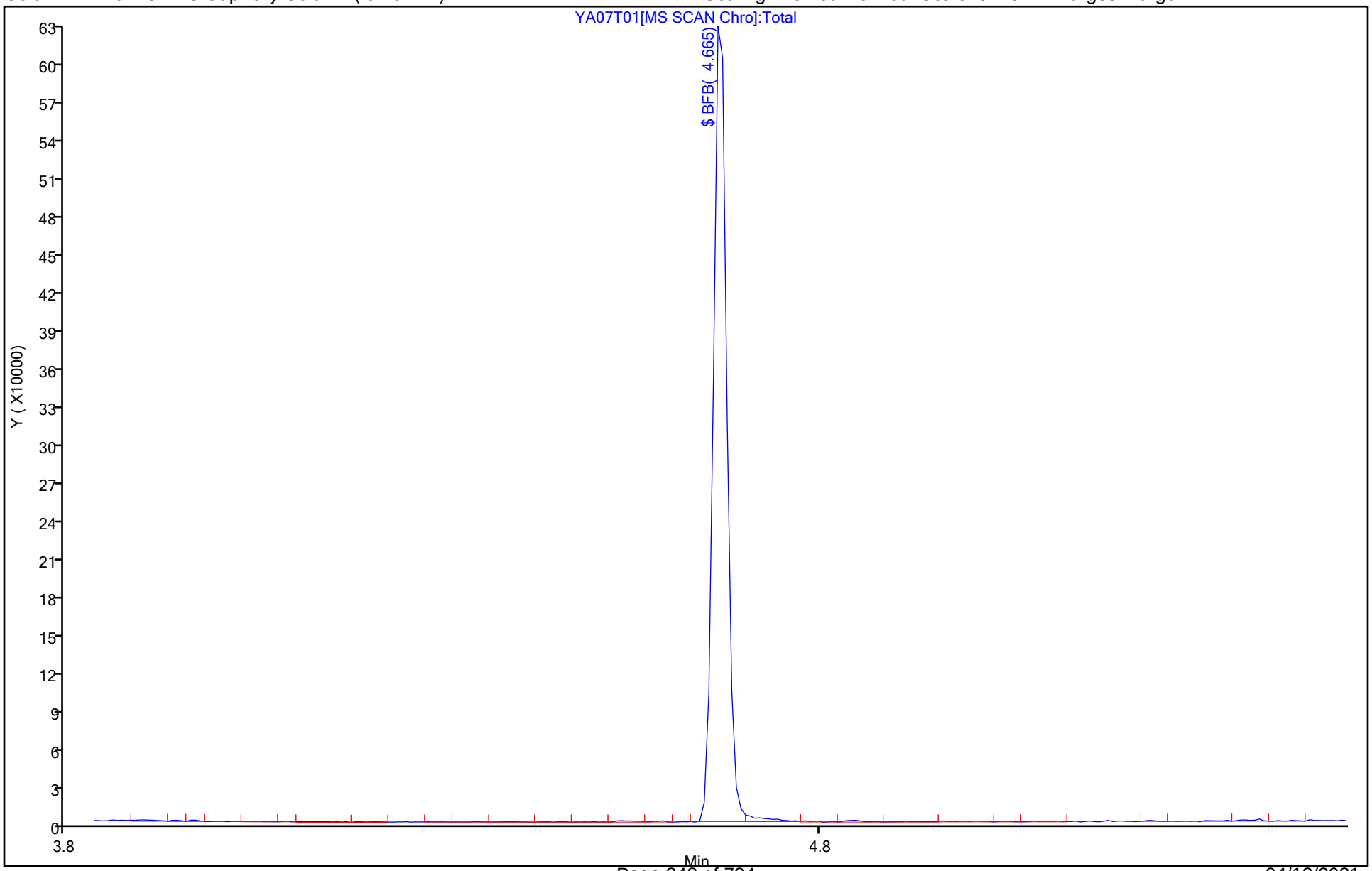
Report Date: 07-Apr-2021 12:43:03 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07T01.D

Injection Date:	07-Apr-2021 10:07:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-111709/7

Matrix: Water Lab File ID: YA07B01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 12:15

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.20
1330-20-7	Xylenes, Total	ND		6.0	1.4
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)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07B01.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Apr-2021 12:15:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-007
Misc. Info.: MB
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 12:43:19 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 07-Apr-2021 12:42:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.989					ND	
2	Dichlorodifluoromethane	85		2.038					ND	
3	Chlorodifluoromethane	51		2.044					ND	
4	Chloromethane	50		2.244					ND	
6	Vinyl chloride	62		2.366					ND	
5	Butadiene	39		2.366					ND	7
7	2-Chloro-1,1,1-Trifluoroethane	118		2.427					ND	
8	Bromomethane	94		2.707					ND	
9	Chloroethane	64		2.786					ND	
10	Dichlorofluoromethane	67		3.035					ND	
11	Trichlorofluoromethane	101		3.108					ND	
12	Pentane	43		3.133					ND	
13	Ethanol	45		3.193					ND	
14	Ethyl ether	59		3.346					ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		3.431					ND	
16	Acrolein	56		3.510					ND	
17	1,1-Dichloroethene	96		3.680					ND	
18	Acetone	58		3.680					ND	
19	112TCTFE	101		3.711					ND	
20	Isopropyl alcohol	45		3.851					ND	
21	Iodomethane	142		3.887					ND	
22	Carbon disulfide	76		4.027					ND	
23	Acetonitrile	41		4.033					ND	
24	Methyl acetate	43		4.118					ND	
25	3-Chloro-1-propene	41		4.149					ND	
* 26	t-Butyl alcohol-d10 (IS)	65	4.343	4.325	0.018	0	354251	250.0	250.0	
27	Methylene Chloride	84		4.355					ND	
28	2-Methyl-2-propanol	59		4.465					ND	
30	Acrylonitrile	53		4.660					ND	
31	Methyl tert-butyl ether	73		4.763					ND	
32	trans-1,2-Dichloroethene	96		4.775					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	33 Hexane	57		5.201					ND	
	34 Vinyl acetate	43		5.408					ND	
	35 1,1-Dichloroethane	63		5.420					ND	
	36 Isopropyl ether	45		5.481					ND	
	37 2-Chloro-1,3-butadiene	53		5.536					ND	
	38 Tert-butyl ethyl ether	59		6.022					ND	
S	39 1,2-Dichloroethene, Total	100		6.155					ND	7
	40 2-Butanone (MEK)	43		6.205					ND	
	41 cis-1,2-Dichloroethene	96		6.247					ND	
	42 Ethyl acetate	43		6.272					ND	
	43 2,2-Dichloropropane	77		6.272					ND	
	44 Propionitrile	54		6.284					ND	
	45 Methacrylonitrile	67		6.503					ND	
	46 Chlorobromomethane	128		6.582					ND	
	47 Tetrahydrofuran	71		6.606					ND	
	48 Chloroform	83		6.728					ND	
$	49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	94	253926	50.0	54.2	
	50 1,1,1-Trichloroethane	97		6.965					ND	
	51 Cyclohexane	56		7.081					ND	
	52 1,1-Dichloropropene	75		7.178					ND	
	53 Carbon tetrachloride	117		7.184					ND	
	54 Isobutyl alcohol	41		7.294					ND	
$	55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	64051	50.0	51.7	
	56 Benzene	78		7.440					ND	
	57 Isopropyl acetate	43		7.501					ND	
	58 1,2-Dichloroethane	62		7.507					ND	7
	59 Tert-amyl methyl ether	73		7.635					ND	
*	61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	1012367	50.0	50.0	
	60 t-Amyl alcohol	73	7.841	7.842	-0.001	34	13038		NC	
	62 n-Heptane	43		7.854					ND	
	63 n-Butanol	56		8.170					ND	
	64 Trichloroethene	95		8.328					ND	
	65 Methylcyclohexane	83		8.644					ND	
	66 1,2-Dichloropropane	63		8.650					ND	
	67 2-ethoxy-2-methyl butane	87		8.657					ND	
	68 Methyl methacrylate	69		8.723					ND	
	69 1,4-Dioxane	88		8.742					ND	
	70 Dibromomethane	93		8.766					ND	
	71 n-Propyl acetate	61		8.796					ND	
	72 Dichlorobromomethane	83		8.997					ND	
	73 2-Nitropropane	41		9.241					ND	
	74 2-Chloroethyl vinyl ether	63		9.338					ND	
	75 cis-1,3-Dichloropropene	75		9.533					ND	
	76 4-Methyl-2-pentanone (MIBK)	43		9.685					ND	
$	77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	93	987345	50.0	48.5	
	78 Toluene	92		9.916					ND	
	79 1,3-Dichlorobutene-2(total)	89		10.000					ND	7
S	80 1,3-Dichloropropene, Total	100		10.060					ND	7
	81 trans-1,3-Dichloropropene	75		10.159					ND	
	82 Ethyl methacrylate	69		10.220					ND	
	83 1,1,2-Trichloroethane	97		10.366					ND	
	84 Tetrachloroethene	166		10.463					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,3-Dichloropropane	76		10.524				ND		
86 3,4-Dichloro-1-butene	75		10.561				ND		
87 2-Hexanone	43		10.567				ND		
88 n-Butyl acetate	43		10.688				ND		
89 Chlorodibromomethane	129		10.743				ND		
90 Ethylene Dibromide	107		10.859				ND		
S 91 Xylenes, Total	106		11.245				ND		7
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	85	778608	50.0	50.0	
92 1-Chlorohexane	91		11.291				ND		U
94 Chlorobenzene	112		11.315				ND		
95 1,1,1,2-Tetrachloroethane	131		11.394				ND		
96 Ethylbenzene	91		11.394				ND		
97 m-Xylene & p-Xylene	106		11.510				ND		
98 o-Xylene	106		11.838				ND		
99 Styrene	104		11.850				ND		
100 Bromoform	173		12.015				ND		
101 Isopropylbenzene	105		12.136				ND		
102 cis-1,4-Dichloro-2-butene	88		12.173				ND		
103 Cyclohexanone	55		12.209				ND		
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	92	360939	50.0	47.6	
105 1,1,2,2-Tetrachloroethane	83		12.374				ND		
107 Bromobenzene	156		12.398				ND		
106 trans-1,4-Dichloro-2-butene	53		12.398				ND		
108 1,2,3-Trichloropropane	110		12.422				ND		
109 N-Propylbenzene	91		12.465				ND		
110 2-Chlorotoluene	126		12.544				ND		
111 1,3,5-Trimethylbenzene	105		12.599				ND		
112 4-Chlorotoluene	126		12.635				ND		
113 2,3,4-Trichlorobutene	109		12.647				ND		
114 tert-Butylbenzene	134		12.842				ND		
115 Pentachloroethane	167		12.879				ND		
116 1,2,4-Trimethylbenzene	105		12.885				ND		
117 sec-Butylbenzene	105		13.006				ND		
118 1,3-Dichlorobenzene	146		13.110				ND		
119 4-Isopropyltoluene	119		13.116				ND		
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	439983	50.0	50.0	
121 1,4-Dichlorobenzene	146		13.183				ND		
122 1,2,3-Trimethylbenzene	105		13.189				ND		
123 Benzyl chloride	91		13.256				ND		7
124 1,3-Diethylbenzene	119		13.310				ND		
125 p-Diethylbenzene	119		13.383				ND		
126 n-Butylbenzene	92		13.408				ND		
127 1,2-Dichlorobenzene	146		13.438				ND		
128 o-diethylbenzene	119		13.457				ND		
129 Hexachloroethane	201		13.560				ND		
130 1,2-Dibromo-3-Chloropropane	75		13.980				ND		
131 1,3,5-Trichlorobenzene	180		14.114				ND		
132 1,2,4-Trichlorobenzene	180		14.533				ND		
133 Hexachlorobutadiene	225		14.618				ND		
134 Naphthalene	128		14.716				ND		7
135 1,2,3-Trichlorobenzene	180		14.862				ND		
136 2-Methylnaphthalene	142		15.507				ND		7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
137 C4-C10	1		0.000					ND	
172 Propene oxide	1		0.000					ND	
173 Methyl acrylate	1		0.000					ND	
174 1,3-Divinylbenzene	1		0.000					ND	
175 Ethyl bromide	1		0.000					ND	
176 Chloroacetonitrile	1		0.000					ND	
S 177 divinyl benzene	1		0.000					ND	7
198 beta-Propiolactone TIC	1		0.000					ND	
197 n-Propylamine (TIC)	1		0.000					ND	
180 Dodecane	57		0.000					ND	
181 Butane	1		0.000					ND	
182 2,3-Dibromo-1-propanol TIC	1		0.000					ND	
183 1-Methyl-2-pyrrilidinone TIC	1		0.000					ND	
184 2-Bromoethanol TIC	1		0.000					ND	
185 2-Chloroethanol TIC	1		0.000					ND	
196 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
199 Propargyl alcohol TIC	1		0.000					ND	
188 Epichlorohydrin TIC	1		0.000					ND	
164 1-Bromo-2-chloroethane	1		0.000					ND	
163 C5-C12	1		0.000					ND	
162 Diethoxymethane	1		0.000					ND	
161 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
160 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
141 Pentachloroethane TIC	1		0.000					ND	
148 1-Bromopropane TIC	1		0.000					ND	
149 Allyl Alcohol TIC	1		0.000					ND	
156 1-Chlorobutane	1		0.000					ND	
140 Chloroacetaldehyde TIC	1		0.000					ND	
189 2-Bromo-3-chloropropene TIC	1		0.000					ND	
190 Ethylene oxide TIC	1		0.000					ND	
191 2,3-Dibromopropene TIC	1		0.000					ND	
192 3-Chloro-1,2-propanediol TIC	1		0.000					ND	
193 1-Bromo-2-chloroethane TIC	1		0.000					ND	
194 1,2,3,4-Diepoxybutane (TIC)	1		0.000					ND	
195 N-Nitrosodi-n-butylamine TIC	1		0.000					ND	
138 C6-C10	1		0.000					ND	
157 1,4-Divinylbenzene	1		0.000					ND	
139 Nitrobenzene TIC	1		0.000					ND	
210 Propene oxide TIC	1		0.000					ND	
219 Ethyl Acetate TIC	1		0.000					ND	
143 Methanol TIC	1		0.000					ND	
144 Bromoacetone (TIC)	1		0.000					ND	
145 Epibromohydrin TIC	1		0.000					ND	
146 Paraldehyde TIC	1		0.000					ND	
147 Pentafluorobenzene TIC	1		0.000					ND	
153 o-toluidine TIC	1		0.000					ND	
167 3-chloro-1-Butene	1		0.000					ND	
150 Vinyl acetate (TIC)	1		0.000					ND	
151 2-Picoline (TIC)	1		0.000					ND	
169 Ethyl acrylate	55		0.000					ND	
152 Vinyl bromide TIC	1		0.000					ND	
154 1,1,2,2-Tetrachloro-1,2-difluoro	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
155 C4-C12	1		0.000					ND	
S 166 Total Diethylbenzene	1		0.000					ND	7
165 C6-C12	1		0.000					ND	
158 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
201 Malononitrile (TIC)	1		0.000					ND	
211 Acetonitrile TIC	1		0.000					ND	
212 Propane TIC	1		0.000					ND	
213 Propionaldehyde TIC	1		0.000					ND	
214 1-Chlorobutane TIC	1		0.000					ND	
215 Isooctane TIC	1		0.000					ND	
159 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
216 n-butyl Acetate TIC	1		0.000					ND	
186 Monochloroacetic acid TIC	1		0.000					ND	
178 Methylal	1		0.000					ND	
142 Chloral hydrate (TIC)	1		0.000					ND	
171 Hexachloroethane TIC	1		0.000					ND	
168 2-Pentanone (TIC)	1		0.000					ND	
170 Ethanol TIC	1		0.000					ND	
202 tert-Butyl Formate	1		0.000					ND	
187 Bis(2-chloroethyl)sulfide (TIC)	1		0.000					ND	
200 Propanol TIC	1		0.000					ND	
217 Ethyl acrylate TIC	1		0.000					ND	
218 Ethyl ether TIC	1		0.000					ND	
179 n-Decane	57		0.000					ND	
220 Chlorodifluoromethane 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_HP20_ISSS_00040 Amount Added: 1.00 Units: uL Run Reagent

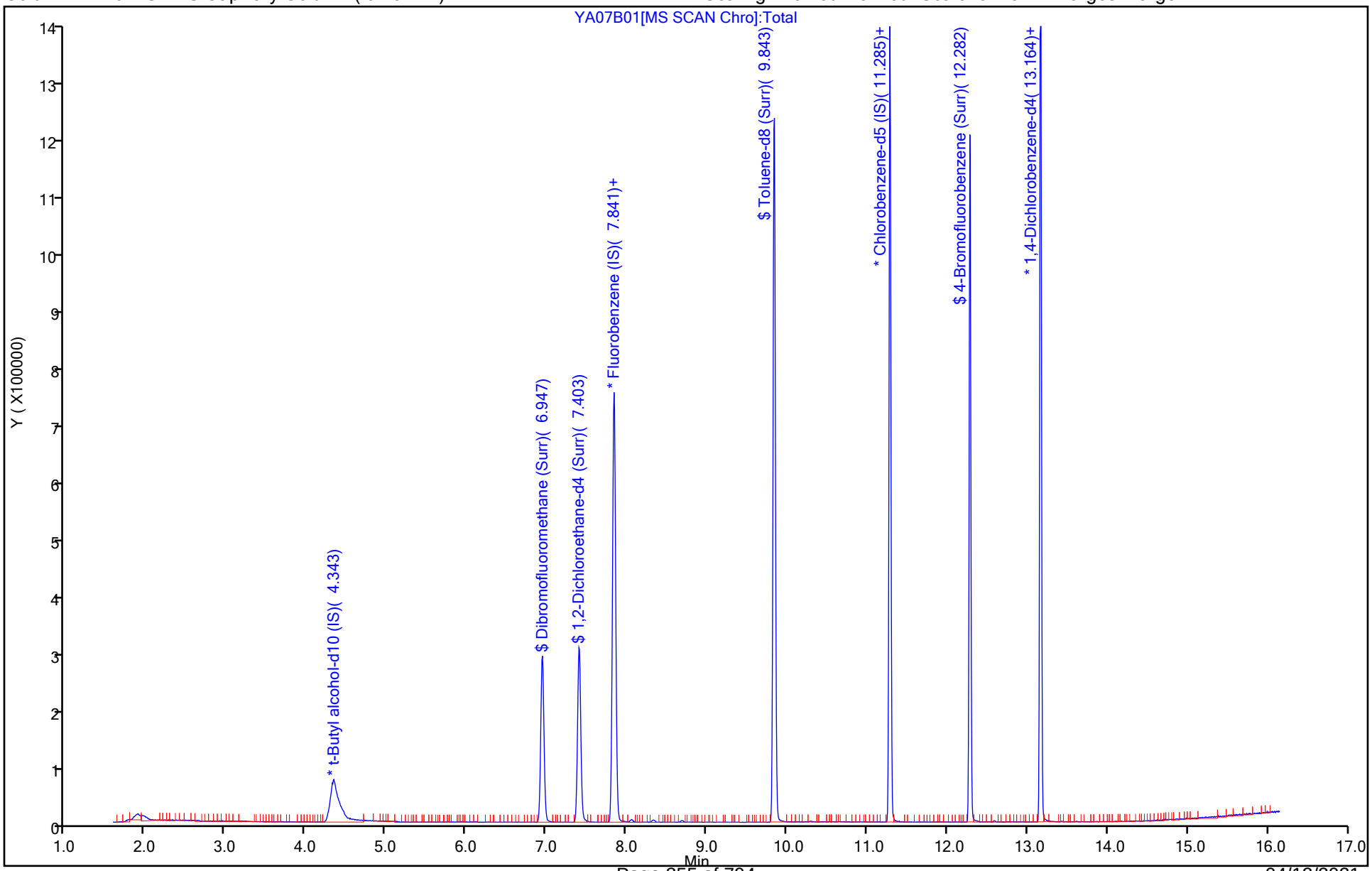
Report Date: 07-Apr-2021 12:43:43 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07B01.D

Injection Date:	07-Apr-2021 12:15:30	Instrument ID:	9355	Operator ID:	lcp00895
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-111709/5

Matrix: Water Lab File ID: YA07L01.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 11:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	18.6		1.0	0.20
100-41-4	Ethylbenzene	19.1		1.0	0.40
108-88-3	Toluene	18.6		1.0	0.20
1330-20-7	Xylenes, Total	58.6		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	18.5		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		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\9355\20210407-26049.b\YA07L01.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Apr-2021 11:31:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-005
Misc. Info.: LCS
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 12:43:19 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1635

First Level Reviewer: papel Date: 07-Apr-2021 12:31:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.032	2.038	-0.006	99	109474	20.0	16.4	
4 Chloromethane	50	2.245	2.244	0.000	99	110434	20.0	16.2	
6 Vinyl chloride	62	2.360	2.366	-0.006	87	109192	20.0	17.2	
5 Butadiene	39	2.354	2.366	-0.012	91	113162	20.0	18.8	
8 Bromomethane	94	2.701	2.707	-0.006	91	81480	20.0	18.5	
9 Chloroethane	64	2.774	2.786	-0.012	99	61374	20.0	16.2	
11 Trichlorofluoromethane	101	3.102	3.108	-0.006	98	159277	20.0	19.1	
12 Pentane	43	3.121	3.133	-0.012	95	121771	20.0	13.9	
14 Ethyl ether	59	3.340	3.346	-0.006	90	118349	20.0	23.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	91	133029	20.0	21.5	
16 Acrolein	56	3.504	3.510	-0.006	99	349209	150.0	141.7	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	54	112532	20.0	20.4	
18 Acetone	58	3.668	3.680	-0.012	100	200062	150.0	147.2	
19 112TCTFE	101	3.705	3.711	-0.006	92	101513	20.0	17.6	
20 Isopropyl alcohol	45	3.838	3.851	-0.013	96	105669	150.0	109.6	
21 Iodomethane	142	3.887	3.887	0.000	98	204215	20.0	19.6	
22 Carbon disulfide	76	4.033	4.027	0.006	99	340782	20.0	17.8	
24 Methyl acetate	43	4.112	4.118	-0.006	98	187730	20.0	16.9	
25 3-Chloro-1-propene	41	4.149	4.149	0.000	91	175490	20.0	16.8	
* 26 t-Butyl alcohol-d10 (IS)	65	4.331	4.325	0.006	0	338646	250.0	250.0	
27 Methylene Chloride	84	4.349	4.355	-0.006	91	132795	20.0	19.7	
28 2-Methyl-2-propanol	59	4.459	4.465	-0.006	98	279812	200.0	154.0	
30 Acrylonitrile	53	4.654	4.660	-0.006	99	462957	100.0	81.1	
31 Methyl tert-butyl ether	73	4.757	4.763	-0.006	95	399138	20.0	18.5	
32 trans-1,2-Dichloroethene	96	4.769	4.775	-0.006	98	124211	20.0	19.3	
33 Hexane	57	5.189	5.201	-0.012	92	165838	20.0	16.1	
35 1,1-Dichloroethane	63	5.414	5.420	-0.006	96	219293	20.0	18.5	
36 Isopropyl ether	45	5.481	5.481	0.000	92	377324	20.0	16.8	
37 2-Chloro-1,3-butadiene	53	5.530	5.536	-0.006	91	182028	20.0	18.2	
38 Tert-butyl ethyl ether	59	6.016	6.022	-0.006	96	367674	20.0	17.9	
40 2-Butanone (MEK)	43	6.199	6.205	-0.006	100	1027230	150.0	125.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	6.241	6.247	-0.006	82	141765	20.0	19.4	
43 2,2-Dichloropropane	77	6.260	6.272	-0.012	79	185714	20.0	20.3	
44 Propionitrile	54	6.272	6.284	-0.012	98	288278	150.0	144.7	
45 Methacrylonitrile	67	6.503	6.503	0.000	92	740377	150.0	136.3	
46 Chlorobromomethane	128	6.582	6.582	0.000	89	75897	20.0	19.8	
47 Tetrahydrofuran	71	6.600	6.606	-0.006	92	192929	100.0	107.2	
48 Chloroform	83	6.728	6.728	0.000	93	228162	20.0	20.2	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	94	264861	50.0	53.0	
50 1,1,1-Trichloroethane	97	6.959	6.965	-0.006	98	199323	20.0	20.8	
51 Cyclohexane	56	7.075	7.081	-0.006	90	196413	20.0	16.5	
52 1,1-Dichloropropene	75	7.178	7.178	0.000	96	177018	20.0	19.1	
53 Carbon tetrachloride	117	7.184	7.184	0.000	97	165846	20.0	20.4	
54 Isobutyl alcohol	41	7.288	7.294	-0.006	94	256221	500.0	421.0	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	67800	50.0	51.2	
56 Benzene	78	7.440	7.440	0.000	96	524974	20.0	18.6	
58 1,2-Dichloroethane	62	7.507	7.507	0.000	98	202095	20.0	20.5	
59 Tert-amyl methyl ether	73	7.628	7.635	-0.007	97	386388	20.0	18.9	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	98	1081486	50.0	50.0	
62 n-Heptane	43	7.854	7.854	0.000	93	181644	20.0	15.3	
63 n-Butanol	56	8.170	8.170	0.000	89	539886	1000.0	975.4	
64 Trichloroethene	95	8.322	8.328	-0.006	97	135008	20.0	19.1	
65 Methylcyclohexane	83	8.644	8.644	0.000	94	213858	20.0	17.1	
66 1,2-Dichloropropane	63	8.651	8.650	0.000	72	135357	20.0	18.0	
67 2-ethoxy-2-methyl butane	87	8.657	8.657	0.000	92	202274	20.0	19.6	
68 Methyl methacrylate	69	8.724	8.723	0.001	91	137573	20.0	17.5	M
69 1,4-Dioxane	88	8.736	8.742	-0.006	92	67839	500.0	520.9	
70 Dibromomethane	93	8.766	8.766	0.000	96	94617	20.0	20.0	
72 Dichlorobromomethane	83	8.997	8.997	0.000	99	165856	20.0	19.9	
73 2-Nitropropane	41	9.235	9.241	-0.006	99	62151	20.0	21.0	
74 2-Chloroethyl vinyl ether	63	9.338	9.338	0.000	92	108634	20.0	25.8	
75 cis-1,3-Dichloropropene	75	9.533	9.533	0.000	96	220761	20.0	19.1	
76 4-Methyl-2-pentanone (MIBK)	43	9.685	9.685	0.000	96	1261205	100.0	88.0	
$ 77 Toluene-d8 (Surr)	98	9.837	9.837	0.000	93	1092962	50.0	49.6	
78 Toluene	92	9.916	9.916	0.000	98	341242	20.0	18.6	
81 trans-1,3-Dichloropropene	75	10.159	10.159	0.000	93	218297	20.0	19.7	
82 Ethyl methacrylate	69	10.220	10.220	0.000	89	222665	20.0	18.4	
83 1,1,2-Trichloroethane	97	10.366	10.366	0.000	91	140685	20.0	19.5	
84 Tetrachloroethene	166	10.463	10.463	0.000	97	155276	20.0	19.3	
85 1,3-Dichloropropane	76	10.524	10.524	0.000	91	232252	20.0	18.5	
87 2-Hexanone	43	10.567	10.567	0.000	97	1067294	100.0	87.5	
89 Chlorodibromomethane	129	10.743	10.743	0.000	90	143428	20.0	19.7	
90 Ethylene Dibromide	107	10.859	10.859	0.000	98	152081	20.0	19.1	
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	86	843814	50.0	50.0	
92 1-Chlorohexane	91	11.291	11.291	0.000	97	171173	20.0	17.2	
94 Chlorobenzene	112	11.309	11.315	-0.006	96	409321	20.0	19.4	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	96	138155	20.0	20.0	
96 Ethylbenzene	91	11.394	11.394	0.000	98	658411	20.0	19.1	
97 m-Xylene & p-Xylene	106	11.510	11.510	0.000	100	537168	40.0	39.1	
98 o-Xylene	106	11.838	11.838	0.000	96	257194	20.0	19.5	
99 Styrene	104	11.850	11.850	0.000	94	430528	20.0	20.0	
100 Bromoform	173	12.015	12.015	0.000	97	109959	20.0	19.8	
101 Isopropylbenzene	105	12.136	12.136	0.000	95	643413	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Cyclohexanone	55	12.209	12.209	0.000	92	245859	500.0	339.6	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	413004	50.0	50.3	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.374	0.000	94	246179	20.0	18.4	
107 Bromobenzene	156	12.398	12.398	0.000	74	189047	20.0	19.3	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	91	426602	100.0	91.4	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	83	81089	20.0	18.9	
109 N-Propylbenzene	91	12.465	12.465	0.000	98	802743	20.0	18.9	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	170840	20.0	18.7	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	590636	20.0	19.3	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	181910	20.0	19.1	
114 tert-Butylbenzene	134	12.842	12.842	0.000	92	125141	20.0	19.1	
115 Pentachloroethane	167	12.879	12.879	0.000	89	106689	20.0	20.1	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.000	97	616838	20.0	19.5	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	756837	20.0	19.4	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	97	361500	20.0	19.5	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	673893	20.0	20.2	
* 120 1,4-Dichlorobenzene-d4	152	13.165	13.164	0.001	94	482288	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	95	379343	20.0	19.7	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	657438	20.0	20.0	
123 Benzyl chloride	91	13.256	13.256	0.000	98	501253	20.0	18.8	
124 1,3-Diethylbenzene	119	13.311	13.310	0.001	96	407073	20.0	19.3	
125 p-Diethylbenzene	119	13.384	13.383	0.001	96	435099	20.0	19.7	
126 n-Butylbenzene	92	13.408	13.408	0.000	97	331118	20.0	18.7	
127 1,2-Dichlorobenzene	146	13.438	13.438	0.000	99	355827	20.0	19.7	
128 o-diethylbenzene	119	13.457	13.457	0.001	95	339378	20.0	19.4	
130 1,2-Dibromo-3-Chloropropane	75	13.980	13.980	0.000	87	61475	20.0	17.1	
131 1,3,5-Trichlorobenzene	180	14.114	14.114	0.000	98	271294	20.0	19.4	
132 1,2,4-Trichlorobenzene	180	14.533	14.533	0.000	94	246797	20.0	19.3	
133 Hexachlorobutadiene	225	14.619	14.618	0.000	97	113782	20.0	18.9	
134 Naphthalene	128	14.716	14.716	0.000	96	832589	20.0	19.1	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	95	236947	20.0	19.0	
136 2-Methylnaphthalene	142	15.507	15.507	0.000	92	395115	20.0	15.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QARC_00075	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA6_00073	Amount Added: 50.00	Units: uL	
MSV_Q_QGases_00139	Amount Added: 50.00	Units: uL	
MSV_Q_QVOA1_00077	Amount Added: 50.00	Units: uL	
MSV_QCYC_00005	Amount Added: 50.00	Units: uL	
MSV_Q_EE_00003	Amount Added: 50.00	Units: uL	
MSV_HP20_ISSS_00040	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 07-Apr-2021 12:43:27 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07L01.D

Injection Date: 07-Apr-2021 11:31:30 Instrument ID: 9355 Operator ID: lcp00895

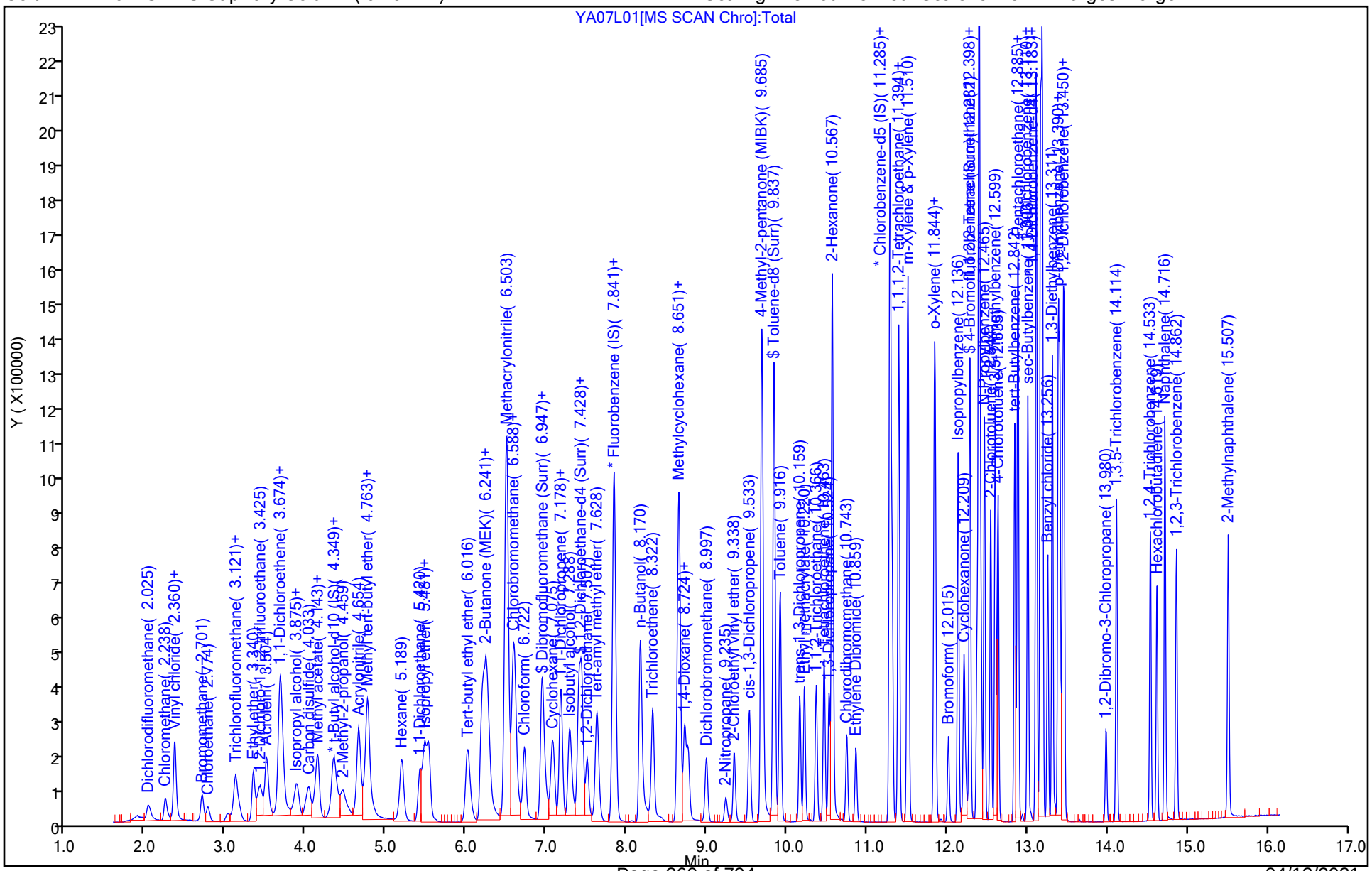
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-7S-20210331 MS Lab Sample ID: 410-34553-4 MS

Matrix: Groundwater Lab File ID: YA07S06.D

Analysis Method: 8260C Date Collected: 03/31/2021 14:45

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 14:27

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	20.8		1.0	0.20
100-41-4	Ethylbenzene	21.3		1.0	0.40
108-88-3	Toluene	20.0		1.0	0.20
1330-20-7	Xylenes, Total	64.4		6.0	1.4
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)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S06.D
Lims ID: 410-34553-A-4 MS
Client ID: MW-7S-20210331
Sample Type: MS
Inject. Date: 07-Apr-2021 14:27:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-013
Misc. Info.: 410-34553-A-4 MS
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 23:19:15 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 21:30:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.031	2.038	-0.007	99	141647	20.0	22.9	
4 Chloromethane	50	2.238	2.244	-0.006	99	112967	20.0	17.9	M
6 Vinyl chloride	62	2.360	2.366	-0.006	97	119053	20.0	20.4	
5 Butadiene	39	2.360	2.366	-0.006	93	128544	20.0	23.2	M
8 Bromomethane	94	2.701	2.707	-0.006	91	87214	20.0	21.4	
9 Chloroethane	64	2.780	2.786	-0.006	99	64732	20.0	18.6	
11 Trichlorofluoromethane	101	3.102	3.108	-0.006	98	195794	20.0	25.5	
12 Pentane	43	3.127	3.133	-0.006	95	142690	20.0	17.7	
14 Ethyl ether	59	3.339	3.346	-0.007	88	99561	20.0	21.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.425	3.431	-0.006	92	141624	20.0	24.8	
16 Acrolein	56	3.504	3.510	-0.006	98	316305	150.0	147.4	
17 1,1-Dichloroethene	96	3.674	3.680	-0.006	62	120456	20.0	23.7	
18 Acetone	58	3.674	3.680	-0.006	99	161571	150.0	136.5	
19 112TCTFE	101	3.698	3.711	-0.013	93	123275	20.0	23.2	
20 Isopropyl alcohol	45	3.850	3.851	-0.001	97	97279	150.0	115.8	
21 Iodomethane	142	3.887	3.887	0.000	98	209958	20.0	21.9	
22 Carbon disulfide	76	4.033	4.027	0.006	99	361116	20.0	20.5	
24 Methyl acetate	43	4.112	4.118	-0.006	97	160556	20.0	15.6	
25 3-Chloro-1-propene	41	4.149	4.149	0.000	90	178335	20.0	18.5	
* 26 t-Butyl alcohol-d10 (IS)	65	4.331	4.325	0.006	0	294822	250.0	250.0	
27 Methylene Chloride	84	4.355	4.355	0.000	90	130625	20.0	21.0	
28 2-Methyl-2-propanol	59	4.459	4.465	-0.006	97	276643	200.0	174.9	
30 Acrylonitrile	53	4.660	4.660	0.000	98	410828	100.0	78.0	
31 Methyl tert-butyl ether	73	4.757	4.763	-0.006	96	376017	20.0	18.9	
32 trans-1,2-Dichloroethene	96	4.769	4.775	-0.006	99	132221	20.0	22.3	
33 Hexane	57	5.195	5.201	-0.006	94	197410	20.0	20.8	
35 1,1-Dichloroethane	63	5.420	5.420	0.000	96	225323	20.0	20.6	
36 Isopropyl ether	45	5.481	5.481	0.000	92	359033	20.0	17.4	
37 2-Chloro-1,3-butadiene	53	5.530	5.536	-0.006	92	199339	20.0	21.7	
38 Tert-butyl ethyl ether	59	6.016	6.022	-0.006	97	348668	20.0	18.4	
40 2-Butanone (MEK)	43	6.205	6.205	0.000	99	873409	150.0	115.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	6.247	6.247	0.000	82	145386	20.0	21.6	
43 2,2-Dichloropropane	77	6.266	6.272	-0.006	86	204172	20.0	24.2	
44 Propionitrile	54	6.278	6.284	-0.006	99	262755	150.0	151.5	
45 Methacrylonitrile	67	6.503	6.503	0.000	92	686959	150.0	137.2	
46 Chlorobromomethane	128	6.582	6.582	0.000	88	74852	20.0	21.2	
47 Tetrahydrofuran	71	6.600	6.606	-0.006	90	172357	100.0	110.0	
48 Chloroform	83	6.728	6.728	0.000	93	230412	20.0	22.2	
$ 49 Dibromofluoromethane (Surr)	113	6.941	6.941	0.000	93	247115	50.0	53.6	
50 1,1,1-Trichloroethane	97	6.965	6.965	0.000	98	220650	20.0	25.0	
51 Cyclohexane	56	7.081	7.081	0.000	90	226307	20.0	20.6	
52 1,1-Dichloropropene	75	7.178	7.178	0.000	95	187328	20.0	21.9	
53 Carbon tetrachloride	117	7.184	7.184	0.000	80	189476	20.0	25.3	
54 Isobutyl alcohol	41	7.288	7.294	-0.006	93	234704	500.0	443.0	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.403	7.403	0.000	0	62857	50.0	51.5	
56 Benzene	78	7.440	7.440	0.000	96	539561	20.0	20.8	
58 1,2-Dichloroethane	62	7.507	7.507	0.000	98	203707	20.0	22.4	
59 Tert-amyl methyl ether	73	7.628	7.635	-0.007	97	364282	20.0	19.3	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	98	997341	50.0	50.0	
62 n-Heptane	43	7.853	7.854	-0.001	89	215468	20.0	19.6	
63 n-Butanol	56	8.170	8.170	0.000	89	480850	1000.0	997.9	
64 Trichloroethene	95	8.322	8.328	-0.006	98	143148	20.0	21.9	
65 Methylcyclohexane	83	8.644	8.644	0.000	95	256115	20.0	22.2	
66 1,2-Dichloropropane	63	8.650	8.650	0.000	72	134342	20.0	19.4	
67 2-ethoxy-2-methyl butane	87	8.657	8.657	-0.001	92	204321	20.0	21.5	
68 Methyl methacrylate	69	8.723	8.723	0.000	92	129439	20.0	17.8	
69 1,4-Dioxane	88	8.742	8.742	0.000	94	60667	500.0	535.0	M
70 Dibromomethane	93	8.766	8.766	0.000	96	92036	20.0	21.1	
72 Dichlorobromomethane	83	8.997	8.997	0.000	99	167339	20.0	21.8	
73 2-Nitropropane	41	9.234	9.241	-0.007	98	58002	20.0	22.5	
74 2-Chloroethyl vinyl ether	63		9.338				ND	ND	
75 cis-1,3-Dichloropropene	75	9.533	9.533	0.000	96	206063	20.0	19.3	
76 4-Methyl-2-pentanone (MIBK)	43	9.685	9.685	0.000	96	1107605	100.0	83.8	
$ 77 Toluene-d8 (Surr)	98	9.837	9.837	0.000	93	1013189	50.0	49.0	
78 Toluene	92	9.916	9.916	0.000	98	345936	20.0	20.0	
81 trans-1,3-Dichloropropene	75	10.159	10.159	0.000	92	208759	20.0	20.1	
82 Ethyl methacrylate	69	10.220	10.220	0.000	90	206124	20.0	18.2	
83 1,1,2-Trichloroethane	97	10.366	10.366	0.000	91	134944	20.0	19.9	
84 Tetrachloroethene	166	10.463	10.463	0.000	96	164855	20.0	21.8	
85 1,3-Dichloropropane	76	10.524	10.524	0.000	91	224930	20.0	19.1	
87 2-Hexanone	43	10.567	10.567	0.000	97	971083	100.0	84.8	
89 Chlorodibromomethane	129	10.749	10.743	0.006	90	140432	20.0	20.6	
90 Ethylene Dibromide	107	10.859	10.859	0.000	99	145758	20.0	19.6	
* 93 Chlorobenzene-d5 (IS)	117	11.285	11.285	0.000	86	791769	50.0	50.0	
92 1-Chlorohexane	91	11.291	11.291	0.000	97	186268	20.0	20.0	
94 Chlorobenzene	112	11.315	11.315	0.000	96	416251	20.0	21.0	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	94	140033	20.0	21.6	
96 Ethylbenzene	91	11.394	11.394	0.000	98	686706	20.0	21.3	
97 m-Xylene & p-Xylene	106	11.510	11.510	0.000	99	558058	40.0	43.3	
98 o-Xylene	106	11.838	11.838	0.000	96	261452	20.0	21.1	
99 Styrene	104	11.850	11.850	0.000	94	432939	20.0	21.4	
100 Bromoform	173	12.015	12.015	0.000	96	105175	20.0	20.1	
101 Isopropylbenzene	105	12.136	12.136	0.000	95	692799	20.0	22.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Cyclohexanone	55	12.209	12.209	0.000	93	209971	500.0	333.1	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	386402	50.0	50.1	
105 1,1,2,2-Tetrachloroethane	83	12.374	12.374	0.000	95	230240	20.0	18.1	
107 Bromobenzene	156	12.398	12.398	0.000	78	190258	20.0	20.4	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	90	387267	100.0	87.2	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	83	76184	20.0	18.6	
109 N-Propylbenzene	91	12.465	12.465	0.000	98	852780	20.0	21.1	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	176041	20.0	20.2	
111 1,3,5-Trimethylbenzene	105	12.599	12.599	0.000	94	615249	20.0	21.2	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	187063	20.0	20.6	
114 tert-Butylbenzene	134	12.842	12.842	0.000	93	131885	20.0	21.2	
115 Pentachloroethane	167	12.879	12.879	-0.001	89	106431	20.0	21.1	
116 1,2,4-Trimethylbenzene	105	12.885	12.885	0.000	97	644701	20.0	21.5	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	796063	20.0	21.4	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	98	372323	20.0	21.1	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	718056	20.0	22.6	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	94	458993	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	95	384365	20.0	21.0	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	669697	20.0	21.5	
123 Benzyl chloride	91	13.256	13.256	0.000	98	480429	20.0	19.0	
124 1,3-Diethylbenzene	119	13.310	13.310	0.000	95	425799	20.0	21.3	
125 p-Diethylbenzene	119	13.383	13.383	0.000	95	458100	20.0	21.8	
126 n-Butylbenzene	92	13.408	13.408	0.000	96	355649	20.0	21.1	
127 1,2-Dichlorobenzene	146	13.438	13.438	0.000	98	355686	20.0	20.7	
128 o-diethylbenzene	119	13.456	13.457	0.000	94	356353	20.0	21.4	
130 1,2-Dibromo-3-Chloropropane	75	13.980	13.980	0.000	91	59596	20.0	17.4	
131 1,3,5-Trichlorobenzene	180	14.113	14.114	-0.001	97	278111	20.0	20.9	
132 1,2,4-Trichlorobenzene	180	14.533	14.533	0.000	94	245063	20.0	20.1	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	98	123629	20.0	21.6	
134 Naphthalene	128	14.716	14.716	0.000	96	794737	20.0	19.2	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	230780	20.0	19.4	
136 2-Methylnaphthalene	142	15.507	15.507	0.000	92	383319	20.0	16.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QARC_00075	Amount Added: 21.50	Units: uL	
MSV_Q_QVOA6_00073	Amount Added: 21.50	Units: uL	
MSV_Q_QGases_00139	Amount Added: 21.50	Units: uL	
MSV_Q_QVOA1_00077	Amount Added: 21.50	Units: uL	
MSV_QCYC_00005	Amount Added: 21.50	Units: uL	
MSV_Q_EE_00003	Amount Added: 21.50	Units: uL	
MSV_HP20_ISSS_00040	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 07-Apr-2021 23:20:03 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S06.D

Injection Date: 07-Apr-2021 14:27:30 Instrument ID: 9355 Operator ID: lcp00895

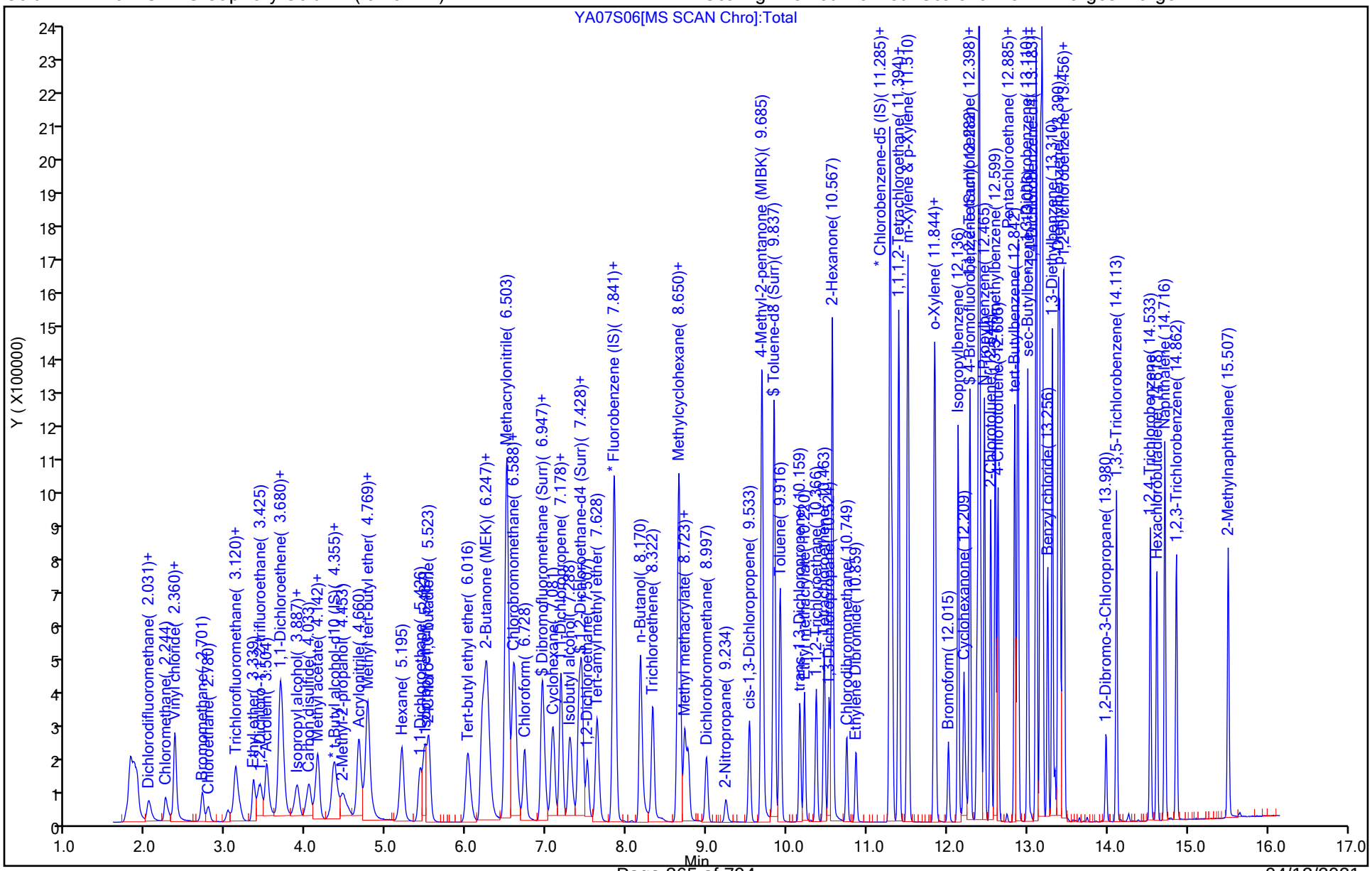
Lims ID: 410-34553-A-4 MS Worklist Smp#: 13

Client ID: MW-7S-20210331

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Client Sample ID: MW-7S-20210331 MSD Lab Sample ID: 410-34553-4 MSD

Matrix: Groundwater Lab File ID: YA07S07.D

Analysis Method: 8260C Date Collected: 03/31/2021 14:45

Sample wt/vol: 5(mL) Date Analyzed: 04/07/2021 14:49

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 111709 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	21.2		1.0	0.20
100-41-4	Ethylbenzene	21.5		1.0	0.40
108-88-3	Toluene	20.4		1.0	0.20
1330-20-7	Xylenes, Total	65.1		6.0	1.4
1634-04-4	Methyl tertiary butyl ether	19.0		1.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		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\9355\20210407-26049.b\YA07S07.D
Lims ID: 410-34553-A-4 MSD
Client ID: MW-7S-20210331
Sample Type: MSD
Inject. Date: 07-Apr-2021 14:49:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026049-014
Misc. Info.: 410-34553-A-4 MSD
Operator ID: lcp00895 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 07-Apr-2021 23:19:15 Calib Date: 03-Feb-2021 19:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20210203-21230.b\YF03x16.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: proctore Date: 07-Apr-2021 23:18:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	2.037	2.038	-0.001	99	144806	20.0	22.9	
4 Chloromethane	50	2.250	2.244	0.006	99	124957	20.0	19.4	
6 Vinyl chloride	62	2.366	2.366	0.000	86	126020	20.0	21.1	
5 Butadiene	39	2.372	2.366	0.006	91	132152	20.0	23.3	M
8 Bromomethane	94	2.713	2.707	0.006	90	86325	20.0	20.7	
9 Chloroethane	64	2.786	2.786	0.000	100	67534	20.0	18.9	
11 Trichlorofluoromethane	101	3.108	3.108	0.000	98	188293	20.0	23.9	
12 Pentane	43	3.132	3.133	-0.001	94	145942	20.0	17.7	
14 Ethyl ether	59	3.351	3.346	0.005	90	121855	20.0	25.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.431	3.431	0.000	91	150464	20.0	25.7	
16 Acrolein	56	3.516	3.510	0.006	99	338128	150.0	141.6	
17 1,1-Dichloroethene	96	3.686	3.680	0.006	64	124043	20.0	23.8	
18 Acetone	58	3.680	3.680	0.000	99	181348	150.0	137.7	
19 112TCTFE	101	3.710	3.711	-0.001	92	124362	20.0	22.9	
20 Isopropyl alcohol	45	3.856	3.851	0.005	98	100479	150.0	107.5	
21 Iodomethane	142	3.899	3.887	0.012	98	215151	20.0	21.9	
22 Carbon disulfide	76	4.045	4.027	0.018	99	366899	20.0	20.3	
24 Methyl acetate	43	4.118	4.118	0.000	98	179746	20.0	17.1	
25 3-Chloro-1-propene	41	4.154	4.149	0.005	90	188208	20.0	19.1	
* 26 t-Butyl alcohol-d10 (IS)	65	4.337	4.325	0.012	0	328104	250.0	250.0	
27 Methylene Chloride	84	4.361	4.355	0.006	93	133983	20.0	21.0	
28 2-Methyl-2-propanol	59	4.471	4.465	0.006	98	286536	200.0	162.8	
30 Acrylonitrile	53	4.666	4.660	0.006	99	439366	100.0	81.5	
31 Methyl tert-butyl ether	73	4.769	4.763	0.006	95	386988	20.0	19.0	
32 trans-1,2-Dichloroethene	96	4.775	4.775	0.000	98	134597	20.0	22.2	
33 Hexane	57	5.201	5.201	0.000	94	203290	20.0	21.0	
35 1,1-Dichloroethane	63	5.426	5.420	0.006	96	231273	20.0	20.6	
36 Isopropyl ether	45	5.487	5.481	0.006	92	377931	20.0	17.9	
37 2-Chloro-1,3-butadiene	53	5.542	5.536	0.006	91	206481	20.0	21.9	
38 Tert-butyl ethyl ether	59	6.022	6.022	0.000	97	362973	20.0	18.7	
40 2-Butanone (MEK)	43	6.205	6.205	0.000	99	921011	150.0	118.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	6.247	6.247	0.000	82	148639	20.0	21.6	
43 2,2-Dichloropropane	77	6.265	6.272	-0.007	86	204372	20.0	23.7	
44 Propionitrile	54	6.284	6.284	0.000	97	282687	150.0	146.5	
45 Methacrylonitrile	67	6.509	6.503	0.006	92	711067	150.0	138.8	
46 Chlorobromomethane	128	6.582	6.582	0.000	90	76566	20.0	21.1	
47 Tetrahydrofuran	71	6.612	6.606	0.006	91	184713	100.0	106.0	
48 Chloroform	83	6.728	6.728	0.000	93	236974	20.0	22.3	
$ 49 Dibromofluoromethane (Surr)	113	6.947	6.941	0.006	93	250988	50.0	53.2	
50 1,1,1-Trichloroethane	97	6.971	6.965	0.006	98	222519	20.0	24.6	
51 Cyclohexane	56	7.081	7.081	0.000	91	234776	20.0	20.9	
52 1,1-Dichloropropene	75	7.178	7.178	0.000	96	195688	20.0	22.3	
53 Carbon tetrachloride	117	7.190	7.184	0.006	96	192015	20.0	25.0	
54 Isobutyl alcohol	41	7.294	7.294	0.000	93	234547	500.0	397.8	
$ 55 1,2-Dichloroethane-d4 (Surr)	102	7.409	7.403	0.006	0	64480	50.0	51.6	
56 Benzene	78	7.446	7.440	0.006	96	562704	20.0	21.2	
58 1,2-Dichloroethane	62	7.513	7.507	0.006	98	203322	20.0	21.9	
59 Tert-amyl methyl ether	73	7.634	7.635	-0.001	97	377113	20.0	19.6	
* 61 Fluorobenzene (IS)	96	7.841	7.835	0.006	99	1020677	50.0	50.0	
62 n-Heptane	43	7.859	7.854	0.005	91	223397	20.0	19.9	
63 n-Butanol	56	8.176	8.170	0.006	89	526136	1000.0	981.1	
64 Trichloroethene	95	8.328	8.328	0.000	98	148458	20.0	22.2	
65 Methylcyclohexane	83	8.644	8.644	0.000	93	264908	20.0	22.5	
66 1,2-Dichloropropane	63	8.656	8.650	0.006	71	138265	20.0	19.5	
67 2-ethoxy-2-methyl butane	87	8.662	8.657	0.005	93	206690	20.0	21.2	
68 Methyl methacrylate	69	8.723	8.723	0.000	90	136432	20.0	18.3	M
69 1,4-Dioxane	88	8.735	8.742	-0.007	90	66057	500.0	523.5	M
70 Dibromomethane	93	8.766	8.766	0.000	96	93247	20.0	20.9	
72 Dichlorobromomethane	83	8.997	8.997	0.000	99	169415	20.0	21.5	
73 2-Nitropropane	41	9.240	9.241	-0.001	99	59909	20.0	20.9	
74 2-Chloroethyl vinyl ether	63		9.338				20.0	ND	7
75 cis-1,3-Dichloropropene	75	9.532	9.533	-0.001	96	214913	20.0	19.7	
76 4-Methyl-2-pentanone (MIBK)	43	9.691	9.685	0.006	96	1175903	100.0	87.0	
$ 77 Toluene-d8 (Surr)	98	9.843	9.837	0.006	93	1034429	50.0	49.7	
78 Toluene	92	9.916	9.916	0.000	98	354042	20.0	20.4	
81 trans-1,3-Dichloropropene	75	10.165	10.159	0.006	93	218222	20.0	20.8	
82 Ethyl methacrylate	69	10.220	10.220	0.000	90	212001	20.0	18.6	
83 1,1,2-Trichloroethane	97	10.366	10.366	0.000	91	138184	20.0	20.2	
84 Tetrachloroethene	166	10.463	10.463	0.000	98	170840	20.0	22.4	
85 1,3-Dichloropropane	76	10.524	10.524	0.000	91	227357	20.0	19.1	
87 2-Hexanone	43	10.567	10.567	0.000	97	1013139	100.0	87.9	
89 Chlorodibromomethane	129	10.749	10.743	0.006	90	142262	20.0	20.7	
90 Ethylene Dibromide	107	10.865	10.859	0.006	100	149250	20.0	19.9	
* 93 Chlorobenzene-d5 (IS)	117	11.284	11.285	-0.001	86	796964	50.0	50.0	
92 1-Chlorohexane	91	11.291	11.291	0.000	97	193885	20.0	20.7	
94 Chlorobenzene	112	11.315	11.315	0.000	96	422282	20.0	21.2	
95 1,1,1,2-Tetrachloroethane	131	11.394	11.394	0.000	93	144109	20.0	22.1	
96 Ethylbenzene	91	11.394	11.394	0.000	98	697700	20.0	21.5	
97 m-Xylene & p-Xylene	106	11.510	11.510	0.000	99	568036	40.0	43.8	
98 o-Xylene	106	11.838	11.838	0.000	96	265468	20.0	21.3	
99 Styrene	104	11.850	11.850	0.000	93	439575	20.0	21.6	
100 Bromoform	173	12.014	12.015	-0.001	97	106051	20.0	20.2	
101 Isopropylbenzene	105	12.136	12.136	0.000	96	698461	20.0	22.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Cyclohexanone	55	12.209	12.209	0.000	93	229362	500.0	327.0	
$ 104 4-Bromofluorobenzene (Surr)	95	12.282	12.282	0.000	91	392131	50.0	50.5	
105 1,1,2,2-Tetrachloroethane	83	12.373	12.374	-0.001	95	231911	20.0	18.1	
107 Bromobenzene	156	12.404	12.398	0.006	77	190017	20.0	20.3	
106 trans-1,4-Dichloro-2-butene	53	12.398	12.398	0.000	94	392431	100.0	87.7	
108 1,2,3-Trichloropropane	110	12.422	12.422	0.000	83	77404	20.0	18.8	
109 N-Propylbenzene	91	12.465	12.465	0.000	98	849913	20.0	20.9	
110 2-Chlorotoluene	126	12.544	12.544	0.000	97	179138	20.0	20.4	
111 1,3,5-Trimethylbenzene	105	12.598	12.599	-0.001	94	620063	20.0	21.2	
112 4-Chlorotoluene	126	12.635	12.635	0.000	97	189085	20.0	20.7	
114 tert-Butylbenzene	134	12.842	12.842	0.000	93	131737	20.0	21.0	
115 Pentachloroethane	167	12.878	12.879	-0.001	89	107909	20.0	21.3	
116 1,2,4-Trimethylbenzene	105	12.884	12.885	-0.001	97	649573	20.0	21.5	
117 sec-Butylbenzene	105	13.006	13.006	0.000	94	808940	20.0	21.6	
118 1,3-Dichlorobenzene	146	13.110	13.110	0.000	98	369637	20.0	20.8	
119 4-Isopropyltoluene	119	13.116	13.116	0.000	97	717387	20.0	22.4	
* 120 1,4-Dichlorobenzene-d4	152	13.164	13.164	0.000	96	462307	50.0	50.0	
121 1,4-Dichlorobenzene	146	13.183	13.183	0.000	93	383958	20.0	20.8	
122 1,2,3-Trimethylbenzene	105	13.189	13.189	0.000	98	675708	20.0	21.5	
123 Benzyl chloride	91	13.256	13.256	0.000	98	495109	20.0	19.4	
124 1,3-Diethylbenzene	119	13.310	13.310	0.000	95	429685	20.0	21.3	
125 p-Diethylbenzene	119	13.383	13.383	0.000	95	464799	20.0	21.9	
126 n-Butylbenzene	92	13.408	13.408	0.000	97	356352	20.0	21.0	
127 1,2-Dichlorobenzene	146	13.438	13.438	0.000	99	356500	20.0	20.6	
128 o-diethylbenzene	119	13.456	13.457	0.000	95	358854	20.0	21.4	
130 1,2-Dibromo-3-Chloropropane	75	13.979	13.980	-0.001	86	60783	20.0	17.7	
131 1,3,5-Trichlorobenzene	180	14.113	14.114	-0.001	98	276374	20.0	20.6	
132 1,2,4-Trichlorobenzene	180	14.533	14.533	0.000	94	241197	20.0	19.7	
133 Hexachlorobutadiene	225	14.618	14.618	0.000	98	122756	20.0	21.3	
134 Naphthalene	128	14.716	14.716	0.000	97	798455	20.0	19.2	
135 1,2,3-Trichlorobenzene	180	14.862	14.862	0.000	96	225675	20.0	18.8	
136 2-Methylnaphthalene	142	15.506	15.507	-0.001	92	375458	20.0	15.8	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QARC_00075	Amount Added: 21.50	Units: uL	
MSV_Q_QVOA6_00073	Amount Added: 21.50	Units: uL	
MSV_Q_QGases_00139	Amount Added: 21.50	Units: uL	
MSV_Q_QVOA1_00077	Amount Added: 21.50	Units: uL	
MSV_QCYC_00005	Amount Added: 21.50	Units: uL	
MSV_Q_EE_00003	Amount Added: 21.50	Units: uL	
MSV_HP20_ISSS_00040	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 07-Apr-2021 23:20:07 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20210407-26049.b\YA07S07.D

Injection Date: 07-Apr-2021 14:49:30 Instrument ID: 9355 Operator ID: lcp00895

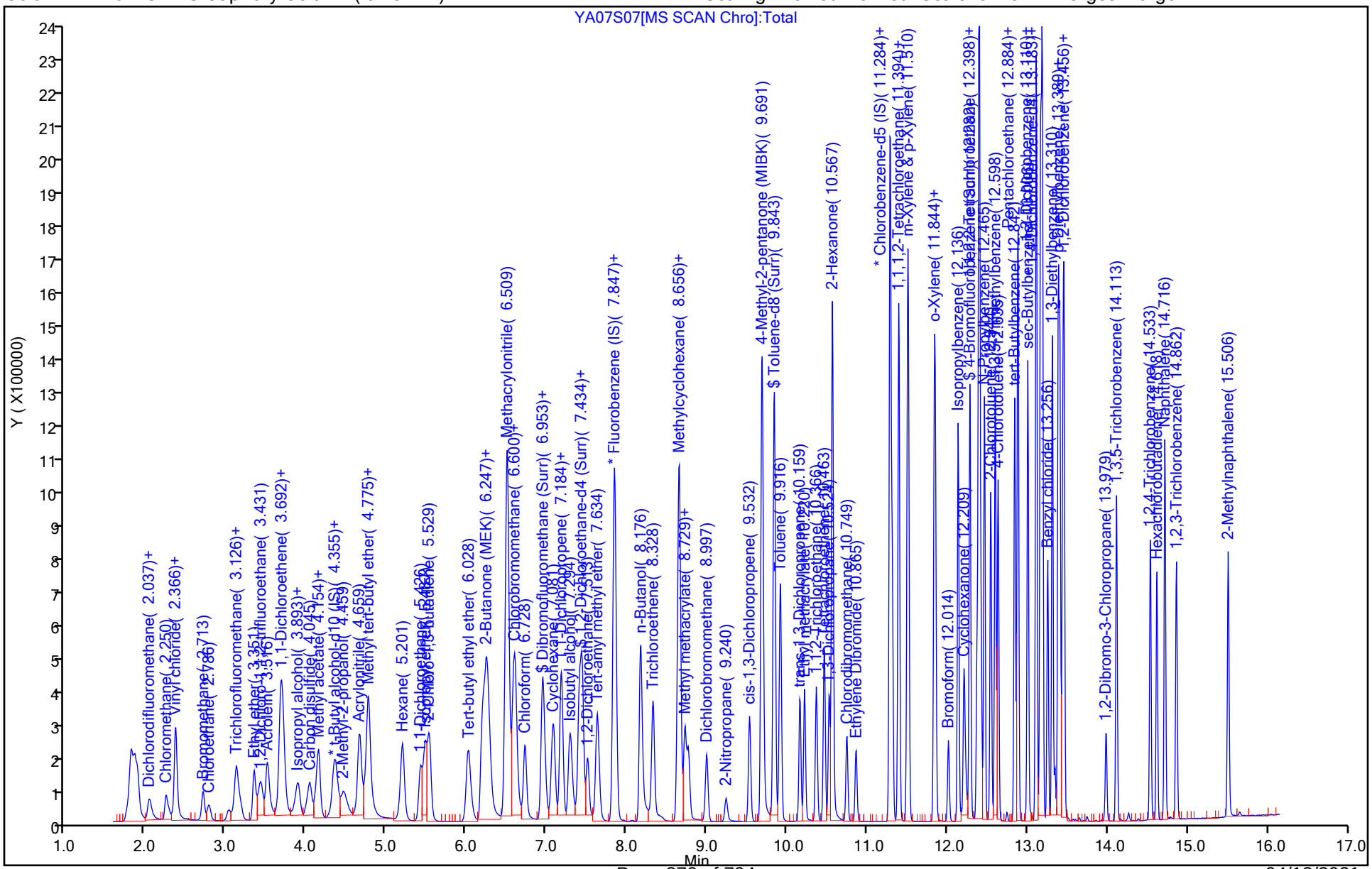
Lims ID: 410-34553-A-4 MSD Worklist Smp#: 14

Client ID: MW-7S-20210331

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 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.: 410-34553-1

SDG No.:

Instrument ID: 9355 Start Date: 02/03/2021 14:00

Analysis Batch Number: 90578 End Date: 02/03/2021 20:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-90578/1		02/03/2021 14:00	1	YF03T01.D	R-624SilMS 30m 0.25(mm)
IC 410-90578/3		02/03/2021 14:39	1		R-624SilMS 30m 0.25(mm)
IC 410-90578/4		02/03/2021 15:01	1		R-624SilMS 30m 0.25(mm)
IC 410-90578/5		02/03/2021 15:23	1		R-624SilMS 30m 0.25(mm)
IC 410-90578/6		02/03/2021 15:45	1		R-624SilMS 30m 0.25(mm)
IC 410-90578/7		02/03/2021 16:07	1		R-624SilMS 30m 0.25(mm)
IC 410-90578/8		02/03/2021 16:29	1		R-624SilMS 30m 0.25(mm)
ICV 410-90578/9		02/03/2021 16:51	1		R-624SilMS 30m 0.25(mm)
IC 410-90578/10		02/03/2021 17:13	1	YF03x10.D	R-624SilMS 30m 0.25(mm)
IC 410-90578/11		02/03/2021 17:36	1	YF03x11.D	R-624SilMS 30m 0.25(mm)
ICIS 410-90578/12		02/03/2021 17:58	1	YF03x12.D	R-624SilMS 30m 0.25(mm)
IC 410-90578/13		02/03/2021 18:20	1	YF03x13.D	R-624SilMS 30m 0.25(mm)
IC 410-90578/14		02/03/2021 18:42	1	YF03x14.D	R-624SilMS 30m 0.25(mm)
IC 410-90578/15		02/03/2021 19:04	1	YF03x15.D	R-624SilMS 30m 0.25(mm)
IC 410-90578/16		02/03/2021 19:26	1	YF03x16.D	R-624SilMS 30m 0.25(mm)
ICV 410-90578/18		02/03/2021 20:10	1	YF03x18.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Instrument ID: 9355 Start Date: 04/07/2021 10:07

Analysis Batch Number: 111709 End Date: 04/07/2021 21:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-111709/1		04/07/2021 10:07	1	YA07T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-111709/3		04/07/2021 10:47	1	YA07C01.D	R-624SilMS 30m 0.25(mm)
CCV 410-111709/4		04/07/2021 11:09	1		R-624SilMS 30m 0.25(mm)
LCS 410-111709/5		04/07/2021 11:31	1	YA07L01.D	R-624SilMS 30m 0.25(mm)
MB 410-111709/7		04/07/2021 12:15	1	YA07B01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		04/07/2021 12:37	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		04/07/2021 12:59	1		R-624SilMS 30m 0.25(mm)
410-34553-17	FB-20210402	04/07/2021 13:21	1	YA07S03.D	R-624SilMS 30m 0.25(mm)
410-34553-21	Trip-Blank	04/07/2021 13:43	1	YA07S04.D	R-624SilMS 30m 0.25(mm)
410-34553-4	MW-7S-20210331	04/07/2021 14:05	1	YA07S05.D	R-624SilMS 30m 0.25(mm)
410-34553-4 MS	MW-7S-20210331 MS	04/07/2021 14:27	1	YA07S06.D	R-624SilMS 30m 0.25(mm)
410-34553-4 MSD	MW-7S-20210331 MSD	04/07/2021 14:49	1	YA07S07.D	R-624SilMS 30m 0.25(mm)
410-34553-1	MW-1-20210331	04/07/2021 15:11	1	YA07S08.D	R-624SilMS 30m 0.25(mm)
410-34553-2	MW-10S-20210331	04/07/2021 15:33	1	YA07S09.D	R-624SilMS 30m 0.25(mm)
410-34553-3	MW-10D-20210331	04/07/2021 15:55	1	YA07S10.D	R-624SilMS 30m 0.25(mm)
410-34553-5	MW-7D-20210331	04/07/2021 16:17	1	YA07S11.D	R-624SilMS 30m 0.25(mm)
410-34553-6	MW-14S-20210331	04/07/2021 16:39	1	YA07S12.D	R-624SilMS 30m 0.25(mm)
410-34553-7	MW-14D-20210331	04/07/2021 17:01	1	YA07S13.D	R-624SilMS 30m 0.25(mm)
410-34553-8	MW-8S-20210401	04/07/2021 17:23	1	YA07S14.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		04/07/2021 17:45	10		R-624SilMS 30m 0.25(mm)
410-34553-9	MW-8D-20210401	04/07/2021 18:08	1	YA07S16.D	R-624SilMS 30m 0.25(mm)
410-34553-10	MW-12S-20210401	04/07/2021 18:30	1	YA07S17.D	R-624SilMS 30m 0.25(mm)
410-34553-11	MW-12D-20210401	04/07/2021 18:52	1	YA07S18.D	R-624SilMS 30m 0.25(mm)
410-34553-12	MW-11S-20210401	04/07/2021 19:14	1	YA07S19.D	R-624SilMS 30m 0.25(mm)
410-34553-13	MW-11D-20210401	04/07/2021 19:36	1	YA07S20.D	R-624SilMS 30m 0.25(mm)
410-34553-14	MW-4S-20210402	04/07/2021 19:58	1	YA07S21.D	R-624SilMS 30m 0.25(mm)
410-34553-15	MW-4D-20210402	04/07/2021 20:20	1	YA07S22.D	R-624SilMS 30m 0.25(mm)
410-34553-16	MW-3-20210402	04/07/2021 20:42	1	YA07S23.D	R-624SilMS 30m 0.25(mm)
410-34553-18	MW-13S-20210402	04/07/2021 21:04	5	YA07S24.D	R-624SilMS 30m 0.25(mm)
410-34553-19	MW-13D-20210402	04/07/2021 21:27	1	YA07S25.D	R-624SilMS 30m 0.25(mm)
410-34553-20	DUP-20210402	04/07/2021 21:49	1	YA07S26.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-34553-1

SDG No.:

Batch Number: 90578 Batch Start Date: 02/03/21 14:00 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSV_4ppbEE 00162	MSV_DCFM 00034	MSV_HP20_ISSS 00037	MSV_Q_EE 00003
BFB 410-90578/1		8260C		1 uL	1 uL				
IC 410-90578/10		8260C		5 mL	5 mL		7.5 uL	1 uL	
IC 410-90578/11		8260C		5 mL	5 mL		2.5 uL	1 uL	
ICIS 410-90578/12		8260C		5 mL	5 mL		2.5 uL	1 uL	
IC 410-90578/13		8260C		5 mL	5 mL		2 uL	1 uL	
IC 410-90578/14		8260C		5 mL	5 mL		1 uL	1 uL	
IC 410-90578/15		8260C		5 mL	5 mL		2 uL	1 uL	
IC 410-90578/16		8260C		5 mL	5 mL	25 mL		1 uL	
ICV 410-90578/18		8260C		5 mL	5 mL		1 uL	1 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_QARC 00065	MSV_Q_QGases 00121	MSV_Q_QVOA1 00066	MSV_Q_QVOA6 00064	MSV_QCYC 00004	MSV_V_2CEVE 00139
BFB 410-90578/1		8260C							
IC 410-90578/10		8260C							15 uL
IC 410-90578/11		8260C							5 uL
ICIS 410-90578/12		8260C							5 uL
IC 410-90578/13		8260C							4 uL
IC 410-90578/14		8260C							2 uL
IC 410-90578/15		8260C							4 uL
IC 410-90578/16		8260C							
ICV 410-90578/18		8260C		50 uL	50 uL	50 uL	50 uL	50 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00004	MSV_V_EE 00004	MSV_V_Gas 00209	MSV_V_VOA1 00127	MSV_V_VOA2 00069	MSV_V_VOA3 00066
BFB 410-90578/1		8260C		1 uL					
IC 410-90578/10		8260C			15 uL	7.5 uL	15 uL		6 uL
IC 410-90578/11		8260C			5 uL	2.5 uL	5 uL		2 uL
ICIS 410-90578/12		8260C			5 uL	2.5 uL	5 uL		2 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.: 410-34553-1

SDG No.:

Batch Number: 90578 Batch Start Date: 02/03/21 14:00 Batch Analyst: Campbell, Miranda E

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00004	MSV_V_EE 00004	MSV_V_Gas 00209	MSV_V_VOA1 00127	MSV_V_VOA2 00069	MSV_V_VOA3 00066
IC 410-90578/13		8260C			4 uL	2 uL	4 uL	4 uL	1.6 uL
IC 410-90578/14		8260C			2 uL	1 uL	2 uL	2 uL	0.8 uL
IC 410-90578/15		8260C			4 uL	2 uL	4 uL	12 uL	1.6 uL
IC 410-90578/16		8260C							
ICV 410-90578/18		8260C							

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA6 00073	MSV_VCYC 00005				
BFB 410-90578/1		8260C							
IC 410-90578/10		8260C		15 uL	30 uL				
IC 410-90578/11		8260C		5 uL	10 uL				
ICIS 410-90578/12		8260C		5 uL	10 uL				
IC 410-90578/13		8260C		4 uL	16 uL				
IC 410-90578/14		8260C		2 uL	8 uL				
IC 410-90578/15		8260C		4 uL	32 uL				
IC 410-90578/16		8260C							
ICV 410-90578/18		8260C							

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-34553-1

SDG No.:

Batch Number: 111709 Batch Start Date: 04/07/21 10:07 Batch Analyst: Proctor, Evan

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-111709/1		8260C		1 uL	1 uL				
CCVIS 410-111709/3		8260C		5 mL	5 mL				0126201F
LCS 410-111709/5		8260C		5 mL	5 mL				0126201F
MB 410-111709/7		8260C		5 mL	5 mL				0126201F
410-34553-A-17	FB-20210402	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-21	Trip-Blank	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-4	MW-7S-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-4 MS	MW-7S-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-4 MSD	MW-7S-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-1	MW-1-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-2	MW-10S-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-3	MW-10D-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-5	MW-7D-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-6	MW-14S-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-7	MW-14D-20210331	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-8	MW-8S-20210401	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-9	MW-8D-20210401	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-10	MW-12S-20210401	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-11	MW-12D-20210401	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-12	MW-11S-20210401	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-13	MW-11D-20210401	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-14	MW-4S-20210402	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-15	MW-4D-20210402	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-16	MW-3-20210402	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-18	MW-13S-20210402	8260C	T	5 mL	5 mL	<2 SU	N	N	0126201F
410-34553-A-19	MW-13D-20210402	8260C	T	5 mL	5 mL	<2 SU	N	N	
410-34553-A-20	DUP-20210402	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.: 410-34553-1

SDG No.:

Batch Number: 111709 Batch Start Date: 04/07/21 10:07 Batch Analyst: Proctor, Evan

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_DCFM 00037	MSV_HP20_ISSS 00040	MSV_Q_EE 00003	MSV_Q_QARC 00075	MSV_Q_QGases 00139	MSV_Q_QVOA1 00077
BFB 410-111709/1		8260C							
CCVIS 410-111709/3		8260C		2.5 uL	1 uL				
LCS 410-111709/5		8260C			1 uL	50 uL	50 uL	50 uL	50 uL
MB 410-111709/7		8260C			1 uL				
410-34553-A-17	FB-20210402	8260C	T		1 uL				
410-34553-A-21	Trip-Blank	8260C	T		1 uL				
410-34553-A-4	MW-7S-20210331	8260C	T		1 uL				
410-34553-A-4 MS	MW-7S-20210331	8260C	T		1 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-34553-A-4 MSD	MW-7S-20210331	8260C	T		1 uL	21.5 uL	21.5 uL	21.5 uL	21.5 uL
410-34553-A-1	MW-1-20210331	8260C	T		1 uL				
410-34553-A-2	MW-10S-20210331	8260C	T		1 uL				
410-34553-A-3	MW-10D-20210331	8260C	T		1 uL				
410-34553-A-5	MW-7D-20210331	8260C	T		1 uL				
410-34553-A-6	MW-14S-20210331	8260C	T		1 uL				
410-34553-A-7	MW-14D-20210331	8260C	T		1 uL				
410-34553-A-8	MW-8S-20210401	8260C	T		1 uL				
410-34553-A-9	MW-8D-20210401	8260C	T		1 uL				
410-34553-A-10	MW-12S-20210401	8260C	T		1 uL				
410-34553-A-11	MW-12D-20210401	8260C	T		1 uL				
410-34553-A-12	MW-11S-20210401	8260C	T		1 uL				
410-34553-A-13	MW-11D-20210401	8260C	T		1 uL				
410-34553-A-14	MW-4S-20210402	8260C	T		1 uL				
410-34553-A-15	MW-4D-20210402	8260C	T		1 uL				
410-34553-A-16	MW-3-20210402	8260C	T		1 uL				
410-34553-A-18	MW-13S-20210402	8260C	T		1 uL				
410-34553-A-19	MW-13D-20210402	8260C	T		1 uL				
410-34553-A-20	DUP-20210402	8260C	T		1 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.: 410-34553-1

SDG No.:

Batch Number: 111709 Batch Start Date: 04/07/21 10:07 Batch Analyst: Proctor, Evan

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_QVOA6 00073	MSV_QCYC 00005	MSV_V_2CEVE 00148	MSV_V_BFB 00005	MSV_V_EE 00004	MSV_V_Gas 00232
BFB 410-111709/1		8260C					1 uL		
CCVIS 410-111709/3		8260C				5 uL		5 uL	2.5 uL
LCS 410-111709/5		8260C		50 uL	50 uL				
MB 410-111709/7		8260C							
410-34553-A-17	FB-20210402	8260C	T						
410-34553-A-21	Trip-Blank	8260C	T						
410-34553-A-4	MW-7S-20210331	8260C	T						
410-34553-A-4 MS	MW-7S-20210331	8260C	T	21.5 uL	21.5 uL				
410-34553-A-4 MSD	MW-7S-20210331	8260C	T	21.5 uL	21.5 uL				
410-34553-A-1	MW-1-20210331	8260C	T						
410-34553-A-2	MW-10S-20210331	8260C	T						
410-34553-A-3	MW-10D-20210331	8260C	T						
410-34553-A-5	MW-7D-20210331	8260C	T						
410-34553-A-6	MW-14S-20210331	8260C	T						
410-34553-A-7	MW-14D-20210331	8260C	T						
410-34553-A-8	MW-8S-20210401	8260C	T						
410-34553-A-9	MW-8D-20210401	8260C	T						
410-34553-A-10	MW-12S-20210401	8260C	T						
410-34553-A-11	MW-12D-20210401	8260C	T						
410-34553-A-12	MW-11S-20210401	8260C	T						
410-34553-A-13	MW-11D-20210401	8260C	T						
410-34553-A-14	MW-4S-20210402	8260C	T						
410-34553-A-15	MW-4D-20210402	8260C	T						
410-34553-A-16	MW-3-20210402	8260C	T						
410-34553-A-18	MW-13S-20210402	8260C	T						
410-34553-A-19	MW-13D-20210402	8260C	T						
410-34553-A-20	DUP-20210402	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.: 410-34553-1

SDG No.:

Batch Number: 111709 Batch Start Date: 04/07/21 10:07 Batch Analyst: Proctor, Evan

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_VOA1 00137	MSV_V_VOA3 00076	MSV_V_VOA6 00082	MSV_VCYC 00006	AnalysisComment	
BFB 410-111709/1		8260C							
CCVIS 410-111709/3		8260C		5 uL	2 uL	5 uL	10 uL		
LCS 410-111709/5		8260C							
MB 410-111709/7		8260C							
410-34553-A-17	FB-20210402	8260C	T						
410-34553-A-21	Trip-Blank	8260C	T						
410-34553-A-4	MW-7S-20210331	8260C	T						
410-34553-A-4 MS	MW-7S-20210331	8260C	T						
410-34553-A-4 MSD	MW-7S-20210331	8260C	T						
410-34553-A-1	MW-1-20210331	8260C	T						
410-34553-A-2	MW-10S-20210331	8260C	T						
410-34553-A-3	MW-10D-20210331	8260C	T						
410-34553-A-5	MW-7D-20210331	8260C	T						
410-34553-A-6	MW-14S-20210331	8260C	T						
410-34553-A-7	MW-14D-20210331	8260C	T						
410-34553-A-8	MW-8S-20210401	8260C	T						
410-34553-A-9	MW-8D-20210401	8260C	T						
410-34553-A-10	MW-12S-20210401	8260C	T						
410-34553-A-11	MW-12D-20210401	8260C	T						
410-34553-A-12	MW-11S-20210401	8260C	T						
410-34553-A-13	MW-11D-20210401	8260C	T						
410-34553-A-14	MW-4S-20210402	8260C	T						
410-34553-A-15	MW-4D-20210402	8260C	T						
410-34553-A-16	MW-3-20210402	8260C	T						
410-34553-A-18	MW-13S-20210402	8260C	T					2708	
410-34553-A-19	MW-13D-20210402	8260C	T						
410-34553-A-20	DUP-20210402	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.: 410-34553-1

SDG No.:

Batch Number: 111709 Batch Start Date: 04/07/21 10:07 Batch Analyst: Proctor, Evan

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.: 410-34553-1

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-1-20210331	410-34553-1	76	90	59
MW-10S-20210331	410-34553-2	77	100	78
MW-10D-20210331	410-34553-3	76	100	70
MW-7S-20210331	410-34553-4	71	92	74
MW-7D-20210331	410-34553-5	62	81	57
MW-14S-20210331	410-34553-6	75	90	77
MW-14D-20210331	410-34553-7	68	91	47
MW-8S-20210401	410-34553-8	68	81	71
MW-8D-20210401	410-34553-9	53	66	54
MW-12S-20210401	410-34553-10	70	92	54
MW-12D-20210401	410-34553-11	63	93	46
MW-11S-20210401	410-34553-12	73	106	86
MW-11S-20210401 DL	410-34553-12 DL	73	92	81
MW-11D-20210401	410-34553-13	52	74	28
MW-4S-20210402	410-34553-14	41 S1-	56 S1-	45
MW-4S-20210402 DL	410-34553-14 DL	39 S1-	54 S1-	40
MW-4D-20210402	410-34553-15	65	85	51
MW-3-20210402	410-34553-16	51	95	68
MW-3-20210402 DL	410-34553-16 DL	58	85	73
FB-20210402	410-34553-17	69	91	70
MW-13S-20210402	410-34553-18	58	98	66
MW-13S-20210402 DL	410-34553-18 DL	63	87	76
MW-13D-20210402	410-34553-19	60	88	65
DUP-20210402	410-34553-20	68	110	78
DUP-20210402 DL	410-34553-20 DL	94	88	100
DUP-20210402 DL2	410-34553-20 DL2	89	94	116
	MB 410-111583/1-A	48 S1-	79	61
	MB 410-111922/1-A	72	99	78
	LCS 410-111583/2-A	49	85	74
	LCS 410-111922/2-A	77	101	86
	LCSD 410-111922/3-A	69	96	82
MW-7S-20210331 MS	410-34553-4 MS	71	95	67

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	49-115
FLN10 = Fluoranthene-d10 (Surr)	65-129
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-122

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.: 410-34553-1

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-7S-20210331 MSD	410-34553-4 MSD	67	104	78

	QC LIMITS
MNPd10 = 1-Methylnaphthalene-d10 (Surr)	49-115
FLN10 = Fluoranthene-d10 (Surr)	65-129
BAPd12 = Benzo(a)pyrene-d12 (Surr)	10-122

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 Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MD0403.D

Lab ID: LCS 410-111583/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.593	59	52-107	
Acenaphthylene	1.00	0.649	65	48-103	
Anthracene	1.00	0.766	77	61-118	
Benzo[a]anthracene	1.00	0.754	75	69-119	
Benzo[a]pyrene	1.00	0.806	81	73-117	
Benzo[b]fluoranthene	1.00	0.715	72	72-123	
Benzo[g,h,i]perylene	1.00	0.682	68	59-114	
Benzo[k]fluoranthene	1.00	0.827	83	66-124	
Chrysene	1.00	0.804	80	61-117	
Dibenz(a,h)anthracene	1.00	0.683	68	60-118	
Fluoranthene	1.00	0.841	84	69-116	
Fluorene	1.00	0.673	67	55-112	
Indeno[1,2,3-cd]pyrene	1.00	0.664	66	57-134	
Naphthalene	1.00	0.531	53	35-108	
Phenanthrene	1.00	0.762	76	59-119	
Pyrene	1.00	0.650	65	56-118	

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 Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MD0453.D

Lab ID: LCS 410-111922/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.759	76	52-107	
Acenaphthylene	1.00	0.785	79	48-103	
Anthracene	1.00	0.899	90	61-118	
Benzo[a]anthracene	1.00	0.880	88	69-119	
Benzo[a]pyrene	1.00	0.907	91	73-117	
Benzo[b]fluoranthene	1.00	0.833	83	72-123	
Benzo[g,h,i]perylene	1.00	0.743	74	59-114	
Benzo[k]fluoranthene	1.00	0.941	94	66-124	
Chrysene	1.00	0.928	93	61-117	
Dibenz(a,h)anthracene	1.00	0.711	71	60-118	
Fluoranthene	1.00	0.984	98	69-116	
Fluorene	1.00	0.823	82	55-112	
Indeno[1,2,3-cd]pyrene	1.00	0.733	73	57-134	
Naphthalene	1.00	0.767	77	35-108	
Phenanthrene	1.00	0.890	89	59-119	
Pyrene	1.00	0.736	74	56-118	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MD0454.D

Lab ID: LCSD 410-111922/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.00	0.710	71	7	30	52-107	
Acenaphthylene	1.00	0.761	76	3	30	48-103	
Anthracene	1.00	0.870	87	3	30	61-118	
Benzo[a]anthracene	1.00	0.841	84	4	30	69-119	
Benzo[a]pyrene	1.00	0.885	89	2	30	73-117	
Benzo[b]fluoranthene	1.00	0.805	81	3	30	72-123	
Benzo[g,h,i]perylene	1.00	0.695	70	7	30	59-114	
Benzo[k]fluoranthene	1.00	0.912	91	3	30	66-124	
Chrysene	1.00	0.894	89	4	30	61-117	
Dibenz(a,h)anthracene	1.00	0.680	68	4	30	60-118	
Fluoranthene	1.00	0.945	95	4	30	69-116	
Fluorene	1.00	0.779	78	6	30	55-112	
Indeno[1,2,3-cd]pyrene	1.00	0.690	69	6	30	57-134	
Naphthalene	1.00	0.778	78	1	30	35-108	
Phenanthrene	1.00	0.855	86	4	30	59-119	
Pyrene	1.00	0.709	71	4	30	56-118	

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 Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MD0414.D

Lab ID: 410-34553-4 MS Client ID: MW-7S-20210331 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	1.00	0.095	0.727	63	52-107	
Acenaphthylene	1.00	ND	0.685	68	48-103	
Anthracene	1.00	0.026 J	0.859	83	61-118	
Benzo[a]anthracene	1.00	ND	0.806	81	69-119	
Benzo[a]pyrene	1.00	ND	0.735	73	73-117	
Benzo[b]fluoranthene	1.00	ND	0.746	75	72-123	
Benzo[g,h,i]perylene	1.00	ND	0.592	59	59-114	
Benzo[k]fluoranthene	1.00	ND	0.833	83	66-124	
Chrysene	1.00	ND	0.834	83	61-117	
Dibenz(a,h)anthracene	1.00	ND	0.705	71	60-118	
Fluoranthene	1.00	ND	0.927	93	69-116	
Fluorene	1.00	0.026 J	0.725	70	55-112	
Indeno[1,2,3-cd]pyrene	1.00	ND	0.708	71	57-134	
Naphthalene	1.00	0.11	0.768	66	35-108	
Phenanthrene	1.00	ND	0.917	92	59-119	
Pyrene	1.00	ND	0.649	65	56-118	

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 Job No.: 410-34553-1

SDG No.:

Matrix: Water Level: Low Lab File ID: MD0415.D

Lab ID: 410-34553-4 MSD Client ID: MW-7S-20210331 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1.00	0.816	72	11	30	52-107	
Acenaphthylene	1.00	0.766	77	11	30	48-103	
Anthracene	1.00	0.951	93	10	30	61-118	
Benzo[a]anthracene	1.00	0.872	87	8	30	69-119	
Benzo[a]pyrene	1.00	0.829	83	12	30	73-117	
Benzo[b]fluoranthene	1.00	0.814	81	9	30	72-123	
Benzo[g,h,i]perylene	1.00	0.695	69	16	30	59-114	
Benzo[k]fluoranthene	1.00	0.891	89	7	30	66-124	
Chrysene	1.00	0.889	89	6	30	61-117	
Dibenz(a,h)anthracene	1.00	0.730	73	3	30	60-118	
Fluoranthene	1.00	1.02	102	9	30	69-116	
Fluorene	1.00	0.803	78	10	30	55-112	
Indeno[1,2,3-cd]pyrene	1.00	0.779	78	9	30	57-134	
Naphthalene	1.00	0.787	68	2	30	35-108	
Phenanthrene	1.00	1.02	102	11	30	59-119	
Pyrene	1.00	0.694	69	7	30	56-118	

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 Job No.: 410-34553-1

SDG No.:

Lab File ID: MD0402.D Lab Sample ID: MB 410-111583/1-A

Matrix: Water Date Extracted: 04/07/2021 10:10

Instrument ID: HP21585 Date Analyzed: 04/07/2021 21:04

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-111583/2-A	MD0403.D	04/07/2021 21:34
MW-1-20210331	410-34553-1	MD0410.D	04/08/2021 01:07
MW-10S-20210331	410-34553-2	MD0411.D	04/08/2021 01:38
MW-10D-20210331	410-34553-3	MD0412.D	04/08/2021 02:08
MW-7S-20210331	410-34553-4	MD0413.D	04/08/2021 02:39
MW-7S-20210331 MS	410-34553-4 MS	MD0414.D	04/08/2021 03:09
MW-7S-20210331 MSD	410-34553-4 MSD	MD0415.D	04/08/2021 03:39
MW-7D-20210331	410-34553-5	MD0416.D	04/08/2021 04:10
MW-14S-20210331	410-34553-6	MD0417.D	04/08/2021 04:40
MW-14D-20210331	410-34553-7	MD0418.D	04/08/2021 05:11
MW-8S-20210401	410-34553-8	MD0419.D	04/08/2021 05:41
MW-8D-20210401	410-34553-9	MD0458.D	04/08/2021 10:54
MW-12S-20210401	410-34553-10	MD0459.D	04/08/2021 11:55
MW-12D-20210401	410-34553-11	MD0460.D	04/08/2021 13:26
MW-11S-20210401	410-34553-12	MD0461.D	04/08/2021 13:57
MW-11D-20210401	410-34553-13	MD0462.D	04/08/2021 14:27
MW-4S-20210402	410-34553-14	MD0463.D	04/08/2021 14:58
MW-4D-20210402	410-34553-15	MD0464.D	04/08/2021 15:28
MW-3-20210402	410-34553-16	MD0465.D	04/08/2021 15:59
FB-20210402	410-34553-17	MD0466.D	04/08/2021 16:29
MW-13S-20210402	410-34553-18	MD0467.D	04/08/2021 17:00
MW-13D-20210402	410-34553-19	MD0468.D	04/08/2021 17:30
MW-11S-20210401 DL	410-34553-12 DL	MD0502.D	04/08/2021 22:50
MW-4S-20210402 DL	410-34553-14 DL	MD0503.D	04/08/2021 23:20
MW-3-20210402 DL	410-34553-16 DL	MD0504.D	04/08/2021 23:51
MW-13S-20210402 DL	410-34553-18 DL	MD0506.D	04/09/2021 00:51

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-34553-1

SDG No.:

Lab File ID: MD0452.D Lab Sample ID: MB 410-111922/1-A

Matrix: Water Date Extracted: 04/07/2021 17:45

Instrument ID: HP21585 Date Analyzed: 04/08/2021 07:21

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-111922/2-A	MD0453.D	04/08/2021 07:51
	LCSD 410-111922/3-A	MD0454.D	04/08/2021 08:22
DUP-20210402	410-34553-20	MD0511.D	04/09/2021 03:23
DUP-20210402 DL	410-34553-20 DL	MD0512.D	04/09/2021 04:10
DUP-20210402 DL2	410-34553-20 DL2	MD0513.D	04/09/2021 04:51

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Lab File ID: MC0560.D DFTPP Injection Date: 03/19/2021

Instrument ID: HP21585 DFTPP Injection Time: 10:25

Analysis Batch No.: 105018

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	45.9	
68	Less than 2% of mass 69	0.9	(1.8) 1
69	Mass 69 Relative abundance	51.3	
70	Less than 2% of mass 69	0.2	(0.5) 1
127	10-80% of Base Peak	46.0	
197	Less than 2% of mass 198	0.5	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	30.0	
365	Greater than 1% of mass 198	5.4	
441	present but less than 24% of mass 442	15.5	(16.0) 2
442	Greater than 50% of mass 198	96.9	
443	15-24% of mass 442	18.7	(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 410-105018/2	MC0561.D	03/19/2021	10:42
	IC 410-105018/3	MC0562.D	03/19/2021	12:06
	IC 410-105018/4	MC0563.D	03/19/2021	12:36
	IC 410-105018/5	MC0564.D	03/19/2021	13:06
	IC 410-105018/6	MC0565.D	03/19/2021	13:37
	IC 410-105018/7	MC0566a.D	03/19/2021	15:33
	ICV 410-105018/9	MC0568.D	03/19/2021	16:12

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Lab File ID: MD0400.D DFTPP Injection Date: 04/07/2021

Instrument ID: HP21585 DFTPP Injection Time: 18:54

Analysis Batch No.: 111994

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	66.3	
68	Less than 2% of mass 69	1.1	(1.6) 1
69	Mass 69 Relative abundance	67.9	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	56.6	
197	Less than 2% of mass 198	1.3	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	29.1	
365	Greater than 1% of mass 198	6.0	
441	present but less than 24% of mass 442	16.2	(15.3) 2
442	Greater than 50% of mass 198	106.2	
443	15-24% of mass 442	20.2	(19.0) 2

1-Value is % mass 69 2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-111994/2	MD0401.D	04/07/2021	19:43
	MB 410-111583/1-A	MD0402.D	04/07/2021	21:04
	LCS 410-111583/2-A	MD0403.D	04/07/2021	21:34
MW-1-20210331	410-34553-1	MD0410.D	04/08/2021	1:07
MW-10S-20210331	410-34553-2	MD0411.D	04/08/2021	1:38
MW-10D-20210331	410-34553-3	MD0412.D	04/08/2021	2:08
MW-7S-20210331	410-34553-4	MD0413.D	04/08/2021	2:39
MW-7S-20210331 MS	410-34553-4 MS	MD0414.D	04/08/2021	3:09
MW-7S-20210331 MSD	410-34553-4 MSD	MD0415.D	04/08/2021	3:39
MW-7D-20210331	410-34553-5	MD0416.D	04/08/2021	4:10
MW-14S-20210331	410-34553-6	MD0417.D	04/08/2021	4:40
MW-14D-20210331	410-34553-7	MD0418.D	04/08/2021	5:11
MW-8S-20210401	410-34553-8	MD0419.D	04/08/2021	5:41

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Lab File ID: MD0450.D DFTPP Injection Date: 04/08/2021

Instrument ID: HP21585 DFTPP Injection Time: 06:17

Analysis Batch No.: 112126

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	65.0	
68	Less than 2% of mass 69	1.0	(1.5) 1
69	Mass 69 Relative abundance	68.3	
70	Less than 2% of mass 69	0.4	(0.6) 1
127	10-80% of Base Peak	54.6	
197	Less than 2% of mass 198	0.3	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	28.3	
365	Greater than 1% of mass 198	5.3	
441	present but less than 24% of mass 442	16.3	(15.1) 2
442	Greater than 50% of mass 198	107.8	
443	15-24% of mass 442	21.3	(19.8) 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 410-112126/2	MD0451.D	04/08/2021	6:36
	MB 410-111922/1-A	MD0452.D	04/08/2021	7:21
	LCS 410-111922/2-A	MD0453.D	04/08/2021	7:51
	LCSD 410-111922/3-A	MD0454.D	04/08/2021	8:22
MW-8D-20210401	410-34553-9	MD0458.D	04/08/2021	10:54
MW-12S-20210401	410-34553-10	MD0459.D	04/08/2021	11:55
MW-12D-20210401	410-34553-11	MD0460.D	04/08/2021	13:26
MW-11S-20210401	410-34553-12	MD0461.D	04/08/2021	13:57
MW-11D-20210401	410-34553-13	MD0462.D	04/08/2021	14:27
MW-4S-20210402	410-34553-14	MD0463.D	04/08/2021	14:58
MW-4D-20210402	410-34553-15	MD0464.D	04/08/2021	15:28
MW-3-20210402	410-34553-16	MD0465.D	04/08/2021	15:59
FB-20210402	410-34553-17	MD0466.D	04/08/2021	16:29
MW-13S-20210402	410-34553-18	MD0467.D	04/08/2021	17:00
MW-13D-20210402	410-34553-19	MD0468.D	04/08/2021	17:30

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Lab File ID: MD0500.D DFTPP Injection Date: 04/08/2021

Instrument ID: HP21585 DFTPP Injection Time: 20:56

Analysis Batch No.: 112543

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	57.2	
68	Less than 2% of mass 69	1.0	(1.7) 1
69	Mass 69 Relative abundance	59.6	
70	Less than 2% of mass 69	0.3	(0.5) 1
127	10-80% of Base Peak	50.6	
197	Less than 2% of mass 198	1.2	
198	Base peak	100.0	
199	5-9% of mass 198	6.7	
275	10-60% of Base Peak	30.5	
365	Greater than 1% of mass 198	6.1	
441	present but less than 24% of mass 442	18.4	(14.8) 2
442	Greater than 50% of mass 198	124.7	
443	15-24% of mass 442	24.0	(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
	CCVIS 410-112543/2	MD0501.D	04/08/2021	21:39
MW-11S-20210401 DL	410-34553-12 DL	MD0502.D	04/08/2021	22:50
MW-4S-20210402 DL	410-34553-14 DL	MD0503.D	04/08/2021	23:20
MW-3-20210402 DL	410-34553-16 DL	MD0504.D	04/08/2021	23:51
MW-13S-20210402 DL	410-34553-18 DL	MD0506.D	04/09/2021	0:51
DUP-20210402	410-34553-20	MD0511.D	04/09/2021	3:23
DUP-20210402 DL	410-34553-20 DL	MD0512.D	04/09/2021	4:10
DUP-20210402 DL2	410-34553-20 DL2	MD0513.D	04/09/2021	4:51

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Sample No.: ICIS 410-105018/2 Date Analyzed: 03/19/2021 10:42

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MC0561.D Heated Purge: (Y/N) N

Calibration ID: 21738

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		32987	7.12	113498	9.03	65566	11.77
UPPER LIMIT		65974	7.62	226996	9.53	131132	12.27
LOWER LIMIT		16494	6.62	56749	8.53	32783	11.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-105018/9		34007	7.12	115905	9.03	64489	11.77
CCVIS 410-111994/2		23898	7.08	99418	8.97	56022	11.72
CCVIS 410-112126/2		29767	7.08	110298	8.97	64200	11.72
CCVIS 410-112543/2		28162	7.04	105756	8.95	61859	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.: 410-34553-1

SDG No.:

Sample No.: ICIS 410-105018/2 Date Analyzed: 03/19/2021 10:42

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MC0561.D Heated Purge: (Y/N) N

Calibration ID: 21738

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		132628	13.67	109446	17.83	109534	20.31
UPPER LIMIT		265256	14.17	218892	18.33	219068	20.81
LOWER LIMIT		66314	13.17	54723	17.33	54767	19.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-105018/9		126100	13.67	116734	17.83	113731	20.31
CCVIS 410-111994/2		109823	13.62	119062	17.76	149590	20.25
CCVIS 410-112126/2		120051	13.62	137837	17.76	172250	20.25
CCVIS 410-112543/2		122089	13.59	121054	17.74	135670	20.22

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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-111994/2 Date Analyzed: 04/07/2021 19:43

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0401.D Heated Purge: (Y/N) N

Calibration ID: 22081

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		23898	7.08	99418	8.97	56022	11.72
UPPER LIMIT		47796	7.58	198836	9.47	112044	12.22
LOWER LIMIT		11949	6.58	49709	8.47	28011	11.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-111583/1-A		28630	7.08	106879	8.97	61249	11.72
LCS 410-111583/2-A		29908	7.08	115063	8.97	64680	11.72
410-34553-1	MW-1-20210331	34057	7.08	120683	8.97	71099	11.72
410-34553-2	MW-10S-20210331	30670	7.08	109041	8.97	62436	11.72
410-34553-3	MW-10D-20210331	31282	7.08	116537	8.97	65331	11.72
410-34553-4	MW-7S-20210331	30395	7.08	117137	8.97	65053	11.72
410-34553-4 MS	MW-7S-20210331 MS	30200	7.08	114588	8.97	66835	11.72
410-34553-4 MSD	MW-7S-20210331 MSD	28827	7.08	120639	8.97	62424	11.72
410-34553-5	MW-7D-20210331	27557	7.08	101796	8.97	58463	11.72
410-34553-6	MW-14S-20210331	29618	7.08	112276	8.97	64558	11.72
410-34553-7	MW-14D-20210331	30365	7.08	116580	8.97	64607	11.72
410-34553-8	MW-8S-20210401	28795	7.08	109353	8.97	60822	11.72

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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-111994/2 Date Analyzed: 04/07/2021 19:43

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0401.D Heated Purge: (Y/N) N

Calibration ID: 22081

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		109823	13.62	119062	17.76	149590	20.25
UPPER LIMIT		219646	14.12	238124	18.26	299180	20.75
LOWER LIMIT		54912	13.12	59531	17.26	74795	19.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-111583/1-A		115796	13.62	121878	17.76	144606	20.25
LCS 410-111583/2-A		122250	13.62	129176	17.76	152320	20.25
410-34553-1	MW-1-20210331	135672	13.62	145118	17.76	179004	20.25
410-34553-2	MW-10S-20210331	119047	13.62	127270	17.76	163605	20.25
410-34553-3	MW-10D-20210331	123913	13.62	137287	17.76	170618	20.25
410-34553-4	MW-7S-20210331	111898	13.62	129773	17.76	165980	20.25
410-34553-4 MS	MW-7S-20210331 MS	107217	13.62	131689	17.76	166372	20.25
410-34553-4 MSD	MW-7S-20210331 MSD	97976	13.62	122013	17.76	152898	20.25
410-34553-5	MW-7D-20210331	109667	13.62	121896	17.76	148352	20.25
410-34553-6	MW-14S-20210331	121601	13.62	128591	17.76	157479	20.25
410-34553-7	MW-14D-20210331	124304	13.62	131772	17.76	158853	20.25
410-34553-8	MW-8S-20210401	114893	13.62	117906	17.76	151652	20.25

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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-112126/2 Date Analyzed: 04/08/2021 06:36

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0451.D Heated Purge: (Y/N) N

Calibration ID: 22081

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		29767	7.08	110298	8.97	64200	11.72
UPPER LIMIT		59534	7.58	220596	9.47	128400	12.22
LOWER LIMIT		14884	6.58	55149	8.47	32100	11.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-111922/1-A		30211	7.08	110046	8.97	62265	11.72
LCS 410-111922/2-A		29196	7.08	110078	8.97	61204	11.72
LCSD 410-111922/3-A		30368	7.08	115528	8.97	64557	11.72
410-34553-9	MW-8D-20210401	29544	7.08	111147	8.97	62878	11.72
410-34553-10	MW-12S-20210401	28464	7.08	109946	8.97	60432	11.72
410-34553-11	MW-12D-20210401	27117	7.08	102791	8.97	55716	11.72
410-34553-12	MW-11S-20210401	28182	7.06	108564	8.97	63881	11.72
410-34553-13	MW-11D-20210401	27431	7.08	104878	8.97	57967	11.72
410-34553-14	MW-4S-20210402	27198	7.08	104821	8.97	60739	11.72
410-34553-15	MW-4D-20210402	28105	7.08	106758	8.97	60565	11.72
410-34553-16	MW-3-20210402	28890	7.08	123064	8.97	66016	11.72
410-34553-17	FB-20210402	29743	7.08	113189	8.97	63582	11.72
410-34553-18	MW-13S-20210402	28455	7.08	118508	8.97	66530	11.72
410-34553-19	MW-13D-20210402	28458	7.08	109483	8.97	61308	11.72

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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-112126/2 Date Analyzed: 04/08/2021 06:36

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0451.D Heated Purge: (Y/N) N

Calibration ID: 22081

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		120051	13.62	137837	17.76	172250	20.25
UPPER LIMIT		240102	14.12	275674	18.26	344500	20.75
LOWER LIMIT		60026	13.12	68919	17.26	86125	19.75
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-111922/1-A		116348	13.62	127933	17.76	156367	20.25
LCS 410-111922/2-A		117284	13.62	128297	17.76	153566	20.25
LCSD 410-111922/3-A		121437	13.62	132906	17.76	158338	20.25
410-34553-9	MW-8D-20210401	118888	13.62	120830	17.76	157010	20.25
410-34553-10	MW-12S-20210401	117567	13.62	122261	17.76	149259	20.25
410-34553-11	MW-12D-20210401	108175	13.62	118657	17.76	141946	20.25
410-34553-12	MW-11S-20210401	92878	13.62	122162	17.76	152927	20.25
410-34553-13	MW-11D-20210401	108617	13.62	119075	17.76	144074	20.25
410-34553-14	MW-4S-20210402	108933	13.62	117711	17.76	146637	20.25
410-34553-15	MW-4D-20210402	114449	13.62	118698	17.76	143898	20.25
410-34553-16	MW-3-20210402	98904	13.62	126784	17.76	131006	20.25
410-34553-17	FB-20210402	120537	13.62	135032	17.76	162980	20.25
410-34553-18	MW-13S-20210402	89656	13.62	123277	17.77	157484	20.25
410-34553-19	MW-13D-20210402	115999	13.62	126923	17.76	155263	20.25

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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-112543/2 Date Analyzed: 04/08/2021 21:39

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0501.D Heated Purge: (Y/N) N

Calibration ID: 22081

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		28162	7.04	105756	8.95	61859	11.71
UPPER LIMIT		56324	7.54	211512	9.45	123718	12.21
LOWER LIMIT		14081	6.54	52878	8.45	30930	11.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-34553-12 DL	MW-11S-20210401 DL	27903	7.04	106366	8.95	63006	11.71
410-34553-14 DL	MW-4S-20210402 DL	29835	7.04	113468	8.95	64846	11.71
410-34553-16 DL	MW-3-20210402 DL	30678	7.04	115671	8.95	66866	11.71
410-34553-18 DL	MW-13S-20210402 DL	29475	7.04	113568	8.95	66463	11.71
410-34553-20	DUP-20210402	32549	7.06	124263	8.95	77257	11.71
410-34553-20 DL	DUP-20210402 DL	32903	7.04	122409	8.95	81637	11.71
410-34553-20 DL2	DUP-20210402 DL2	32162	7.04	121816	8.95	74088	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.: 410-34553-1

SDG No.:

Sample No.: CCVIS 410-112543/2 Date Analyzed: 04/08/2021 21:39

Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): MD0501.D Heated Purge: (Y/N) N

Calibration ID: 22081

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		122089	13.59	121054	17.74	135670	20.22
UPPER LIMIT		244178	14.09	242108	18.24	271340	20.72
LOWER LIMIT		61045	13.09	60527	17.24	67835	19.72
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-34553-12 DL	MW-11S-20210401 DL	119140	13.59	112481	17.74	128060	20.22
410-34553-14 DL	MW-4S-20210402 DL	123910	13.59	119565	17.74	133244	20.22
410-34553-16 DL	MW-3-20210402 DL	126156	13.59	120523	17.74	136660	20.22
410-34553-18 DL	MW-13S-20210402 DL	123969	13.59	114737	17.74	131188	20.22
410-34553-20	DUP-20210402	101183	13.60	145199	17.75	184869	20.23
410-34553-20 DL	DUP-20210402 DL	150096	13.60	129399	17.74	194157	20.22
410-34553-20 DL2	DUP-20210402 DL2	142709	13.59	141675	17.74	188765	20.22

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-1-20210331 Lab Sample ID: 410-34553-1

Matrix: Groundwater Lab File ID: MD0410.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 10:45

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 01:07

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.: 111994 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)	59		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		49-115
93951-69-0	Fluoranthene-d10 (Surr)	90		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0410.D				
Lims ID:	410-34553-D-1-A				
Client ID:	MW-1-20210331				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 01:07:42	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-1-A				
Misc. Info.:	410-0026113-011				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 06:17:36	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1632				
First Level Reviewer: gamblerj		Date:	08-Apr-2021 05:53:21		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	94	34057	0.2500	
* 5 Naphthalene-d8	136	8.972	8.973	-0.001	91	120683	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	-0.001	100	48877	0.1901	
* 13 Acenaphthene-d10	164	11.719	11.720	-0.001	96	71099	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	98	135672	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	-0.001	99	117381	0.2245	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	145118	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	-0.001	99	92531	0.1485	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	179004	0.2500	

QC Flag Legend

Processing Flags

Reagents:

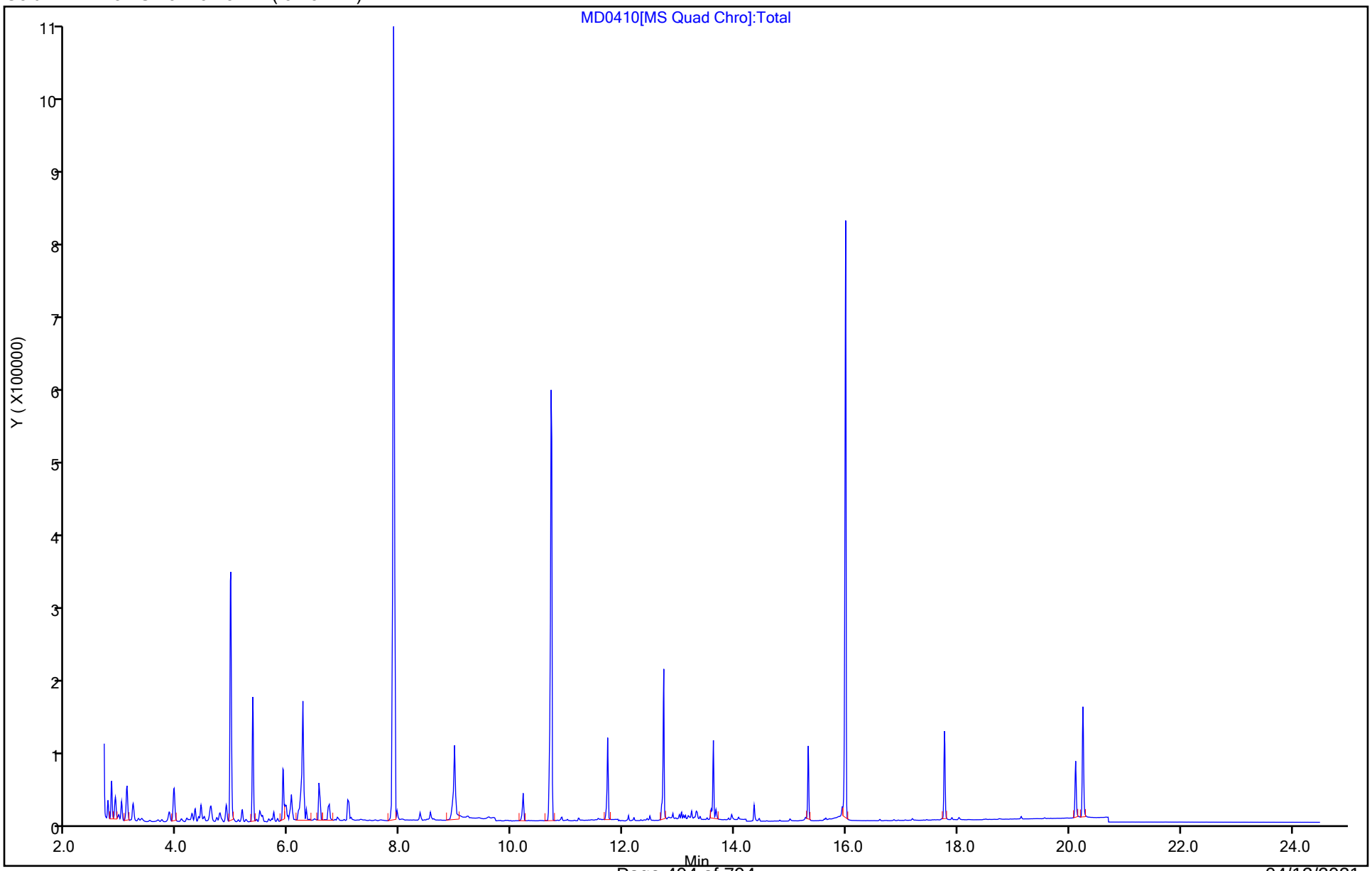
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 06:18:02 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0410.D				
Injection Date:	08-Apr-2021 01:07:42	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-1-A	Lab Sample ID:	410-34553-1	Worklist Smp#:	11
Client ID:	MW-1-20210331				
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)



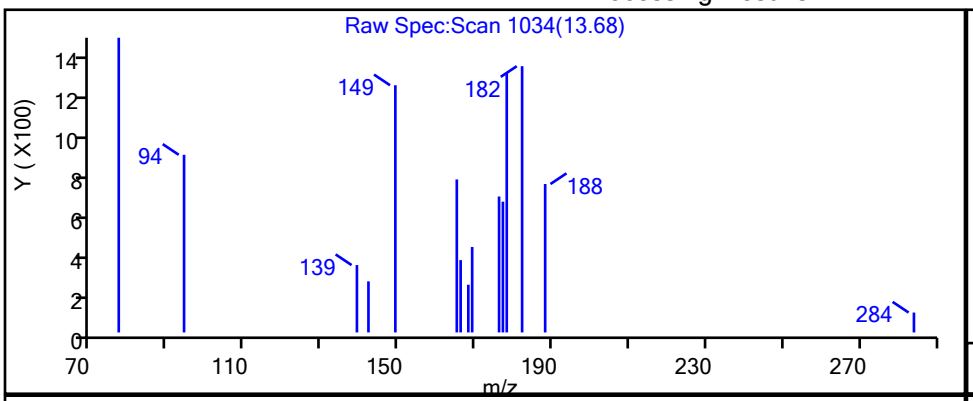
User Disabled Compound Report

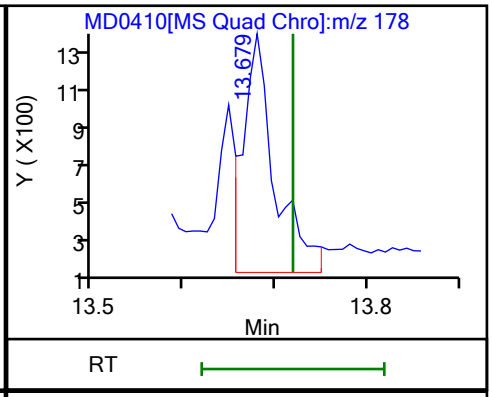
Eurofins Lancaster Laboratories Env, LLC

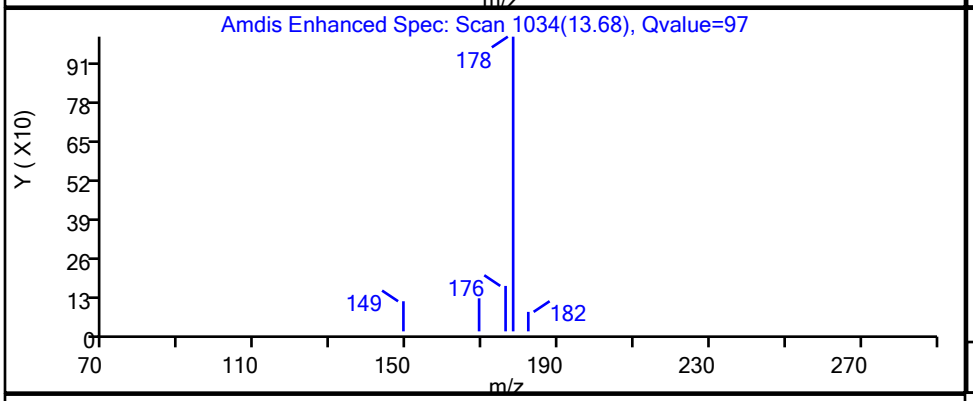
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0410.D				
Injection Date:	08-Apr-2021 01:07:42	Instrument ID:	HP21585		
Lims ID:	410-34553-D-1-A	Lab Sample ID:	410-34553-1		
Client ID:	MW-1-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

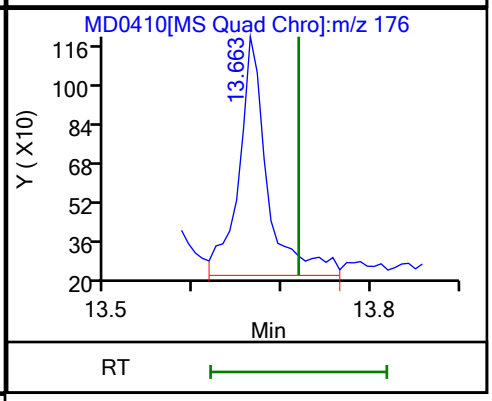
22 Anthracene, CAS: 120-12-7

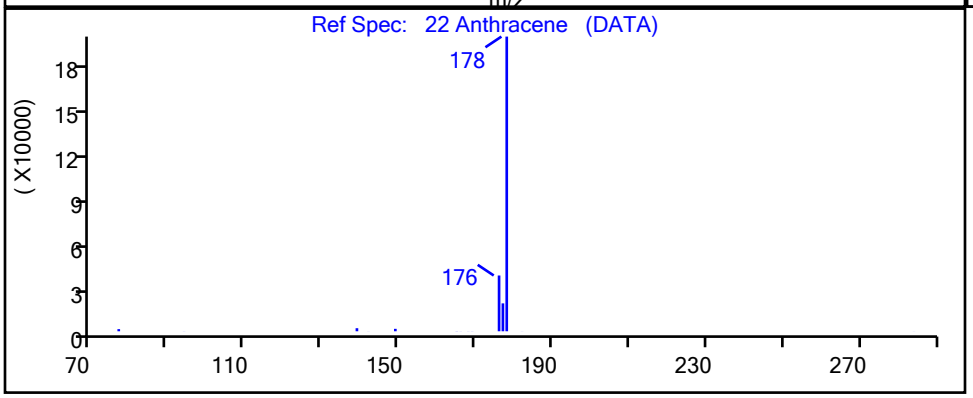
Processing Results











RT	Mass	Response	Amount
13.68	178.00	2576	0.004671
13.66	176.00	2210	

Reviewer: gamblerj, 08-Apr-2021 05:53:12

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-10S-20210331 Lab Sample ID: 410-34553-2

Matrix: Groundwater Lab File ID: MD0411.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 11:38

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 01:38

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.: 111994 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)	78		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		49-115
93951-69-0	Fluoranthene-d10 (Surr)	100		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0411.D				
Lims ID:	410-34553-D-2-A				
Client ID:	MW-10S-20210331				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 01:38:11	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-2-A				
Misc. Info.:	410-0026113-012				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 06:17:36	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1632				
First Level Reviewer: gamblerj		Date:	08-Apr-2021 05:53:55		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	88	30670	0.2500	
* 5 Naphthalene-d8	136	8.973	8.973	0.000	91	109041	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	100	44489	0.1915	
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	97	62436	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	95	119047	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	98	114141	0.2488	
* 29 Chrysene-d12	240	17.762	17.762	0.000	56	127270	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	111657	0.1960	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	163605	0.2500	

QC Flag Legend
Processing Flags

Reagents:
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

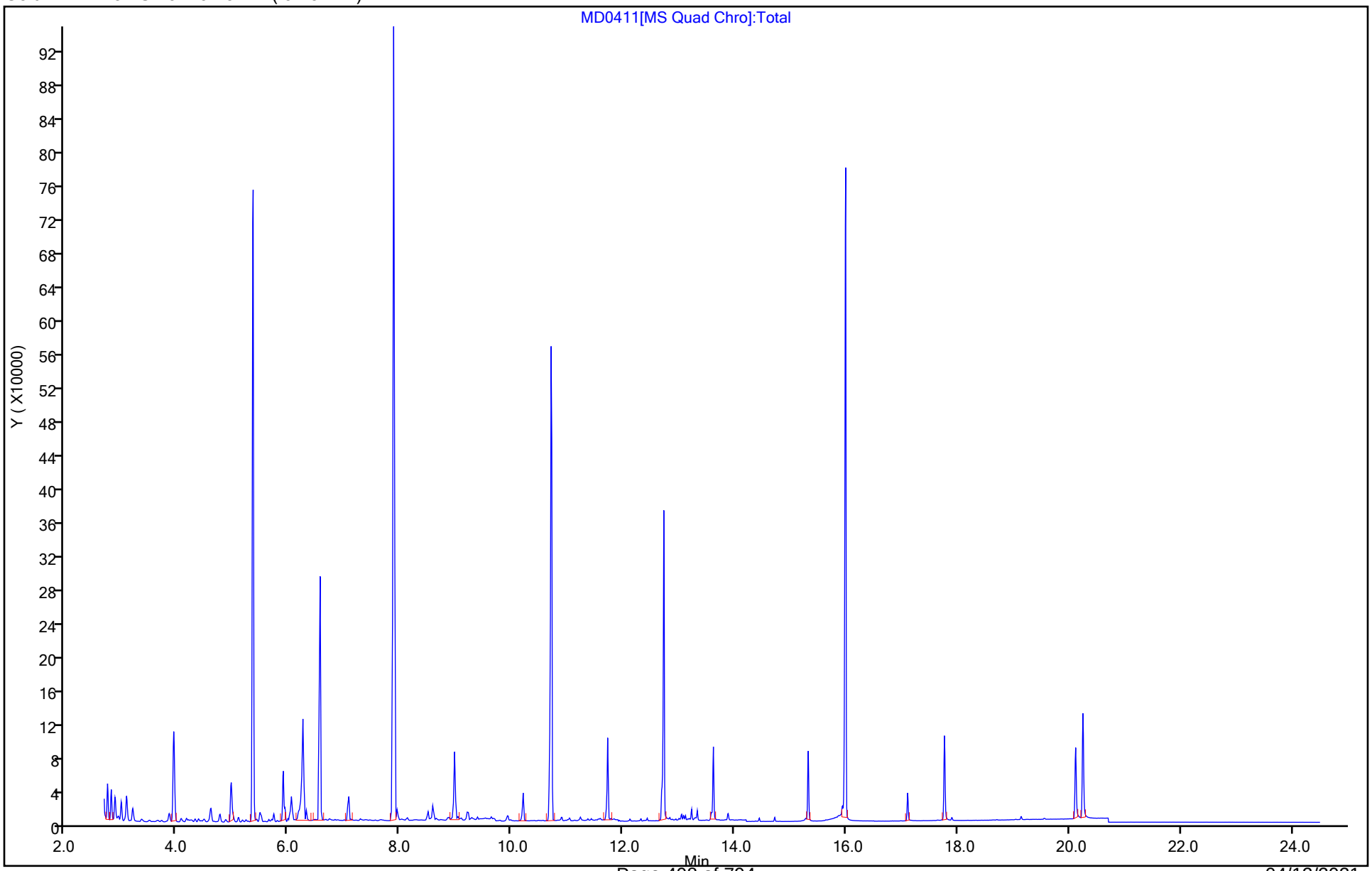
Report Date: 08-Apr-2021 06:18:03 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0411.D

Injection Date:	08-Apr-2021 01:38:11	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-2-A	Lab Sample ID:	410-34553-2	Worklist Smp#:	12
Client ID:	MW-10S-20210331				
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)



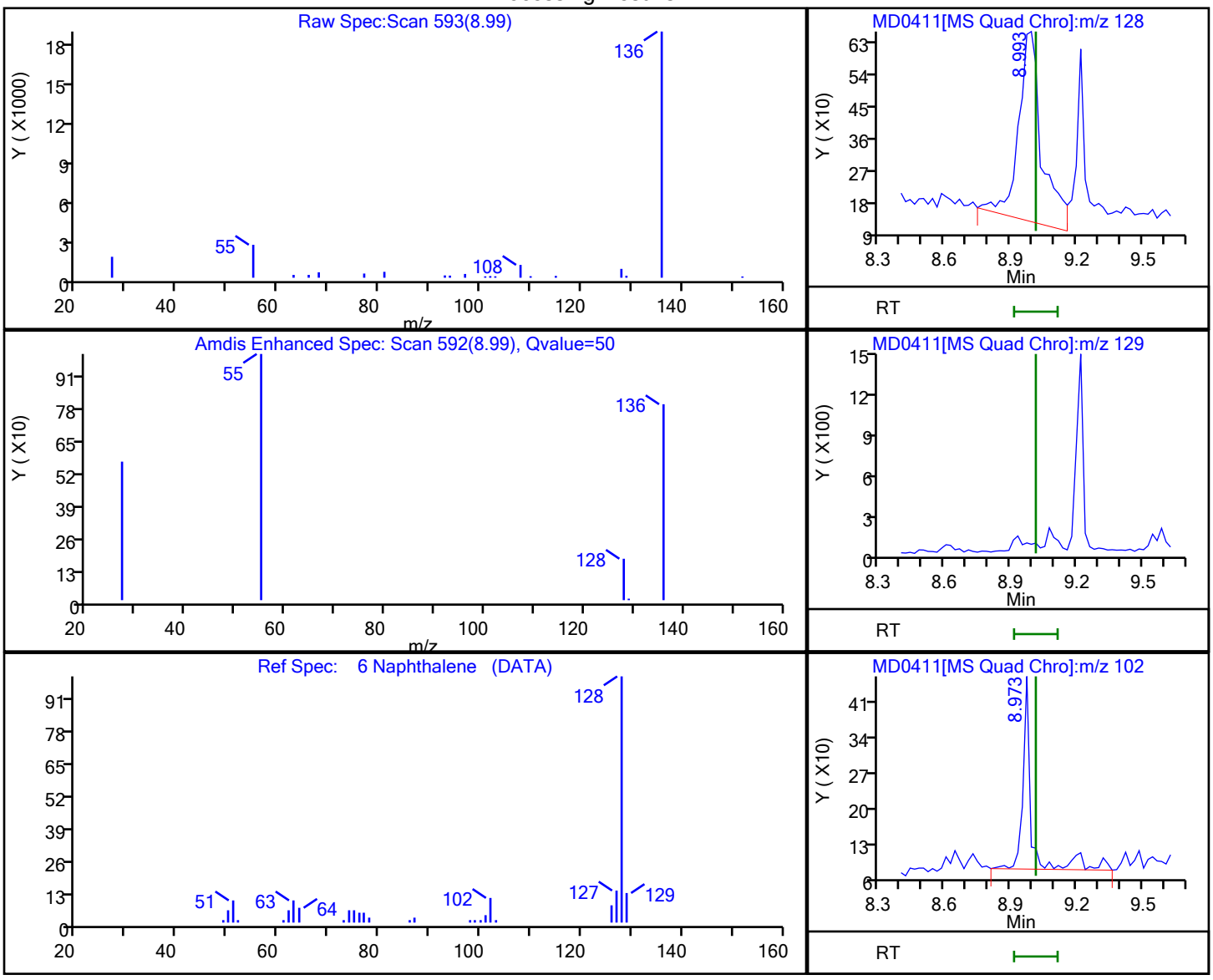
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0411.D				
Injection Date:	08-Apr-2021 01:38:11	Instrument ID:	HP21585		
Lims ID:	410-34553-D-2-A	Lab Sample ID:	410-34553-2		
Client ID:	MW-10S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	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
8.99	128.00	3930	0.008997
9.01	129.00	0	
8.97	102.00	1000	

Reviewer: gamblerj, 08-Apr-2021 05:53:44

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-10D-20210331 Lab Sample ID: 410-34553-3

Matrix: Groundwater Lab File ID: MD0412.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 12:25

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 02:08

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.: 111994 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)	70		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	76		49-115
93951-69-0	Fluoranthene-d10 (Surr)	100		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0412.D				
Lims ID:	410-34553-D-3-A				
Client ID:	MW-10D-20210331				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 02:08:34	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-3-A				
Misc. Info.:	410-0026113-013				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 06:17:36	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1632				
First Level Reviewer: gamblerj		Date:	08-Apr-2021 05:54:26		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	94	31282	0.2500	
* 5 Naphthalene-d8	136	8.972	8.973	-0.001	93	116537	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	-0.001	100	46909	0.1889	
* 13 Acenaphthene-d10	164	11.719	11.720	-0.001	98	65331	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	95	123913	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	-0.001	99	119832	0.2509	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	137287	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	103856	0.1748	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	170618	0.2500	

QC Flag Legend

Processing Flags

Reagents:

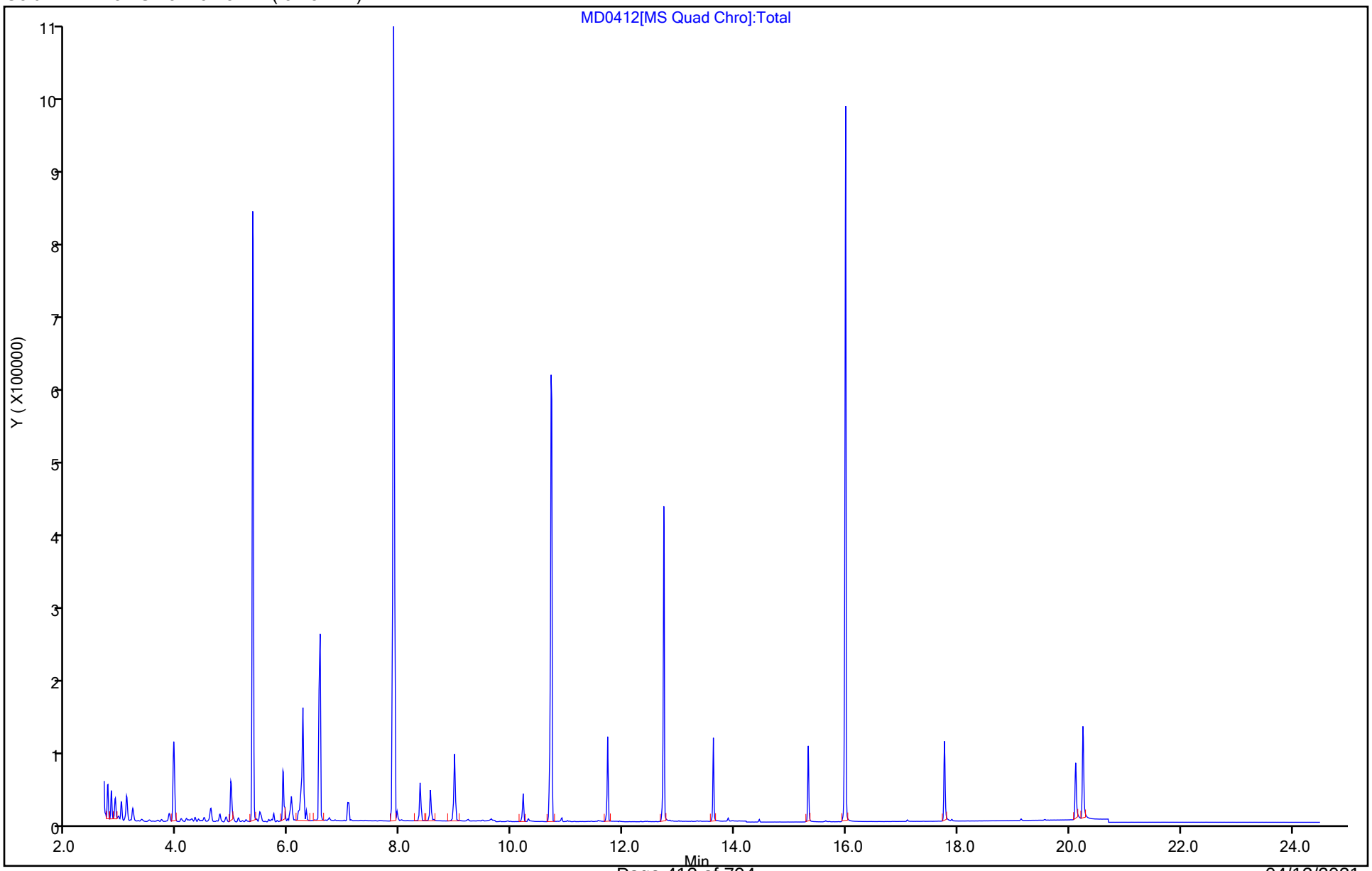
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 06:18:03 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0412.D				
Injection Date:	08-Apr-2021 02:08:34	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-3-A	Lab Sample ID:	410-34553-3	Worklist Smp#:	13
Client ID:	MW-10D-20210331				
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)



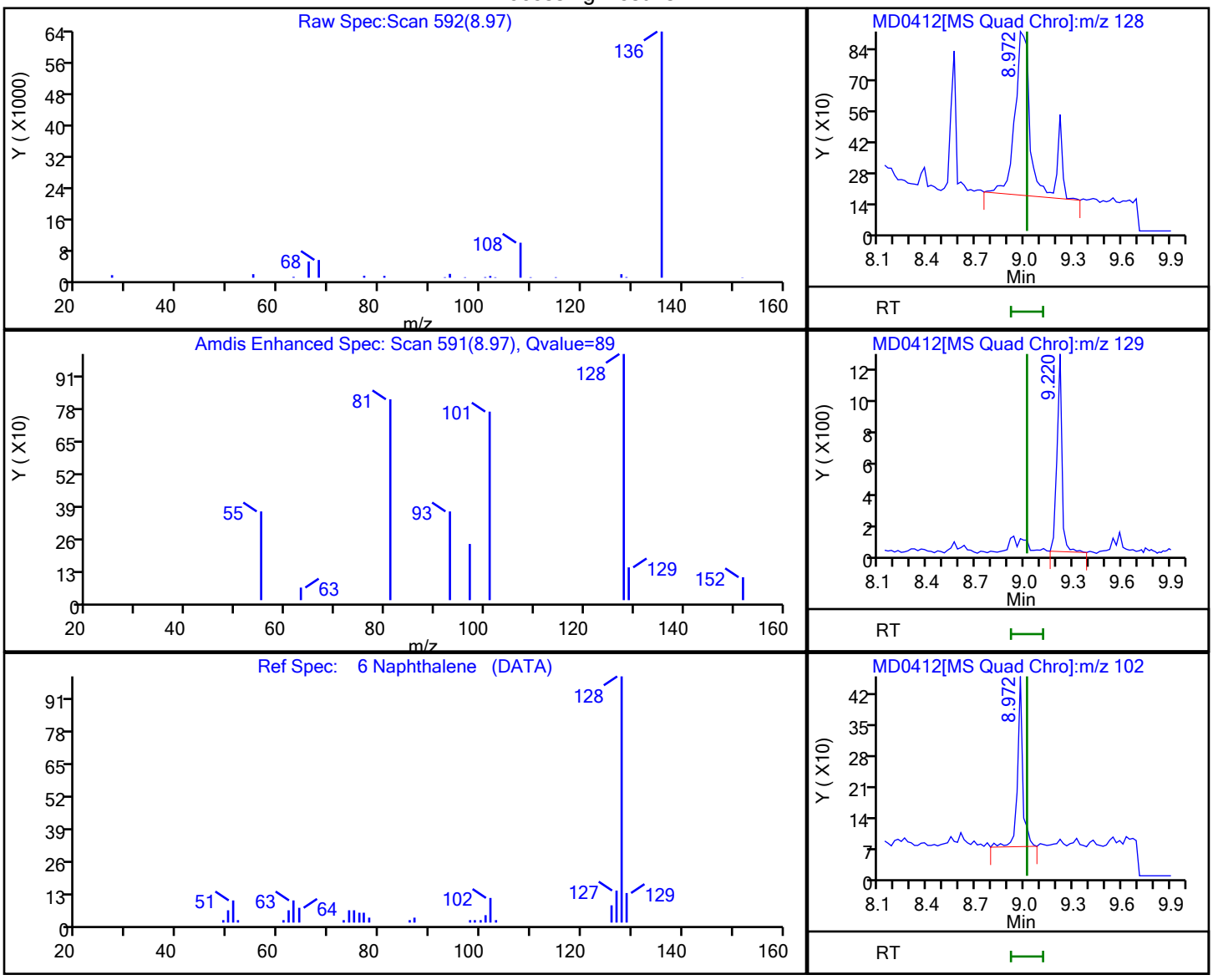
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0412.D				
Injection Date:	08-Apr-2021 02:08:34	Instrument ID:	HP21585		
Lims ID:	410-34553-D-3-A	Lab Sample ID:	410-34553-3		
Client ID:	MW-10D-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	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
8.97	128.00	5524	0.011833
9.22	129.00	2526	
8.97	102.00	863	

Reviewer: gamblerj, 08-Apr-2021 05:54:15

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-7S-20210331 Lab Sample ID: 410-34553-4

Matrix: Groundwater Lab File ID: MD0413.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 14:45

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 02:39

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.: 111994 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.095		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	0.026	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	ND		0.050	0.010
86-73-7	Fluorene	0.026	J	0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	0.11		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)	74		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	71		49-115
93951-69-0	Fluoranthene-d10 (Surr)	92		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D
Lims ID: 410-34553-D-4-C
Client ID: MW-7S-20210331
Sample Type: Client
Inject. Date: 08-Apr-2021 02:39:03 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-4-C
Misc. Info.: 410-0026113-014
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 06:17:36 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 05:55:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.077	7.076	0.000	95	30395	0.2500	
* 5 Naphthalene-d8	136	8.973	8.973	0.000	91	117137	0.2500	
6 Naphthalene	128	9.014	9.014	0.000	93	12700	0.0271	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	100	44130	0.1768	
12 Acenaphthylene	152	11.524	11.524	0.000	100	1129	0.002393	7M
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	97	65053	0.2500	
14 Acenaphthene	154	11.769	11.768	0.001	94	7251	0.0238	M
17 Fluorene	166	12.423	12.423	0.000	95	2369	0.006608	M
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	95	111898	0.2500	
22 Anthracene	178	13.718	13.718	0.000	100	2953	0.006492	M
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	98	99129	0.2299	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	129773	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	107293	0.1856	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	165980	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

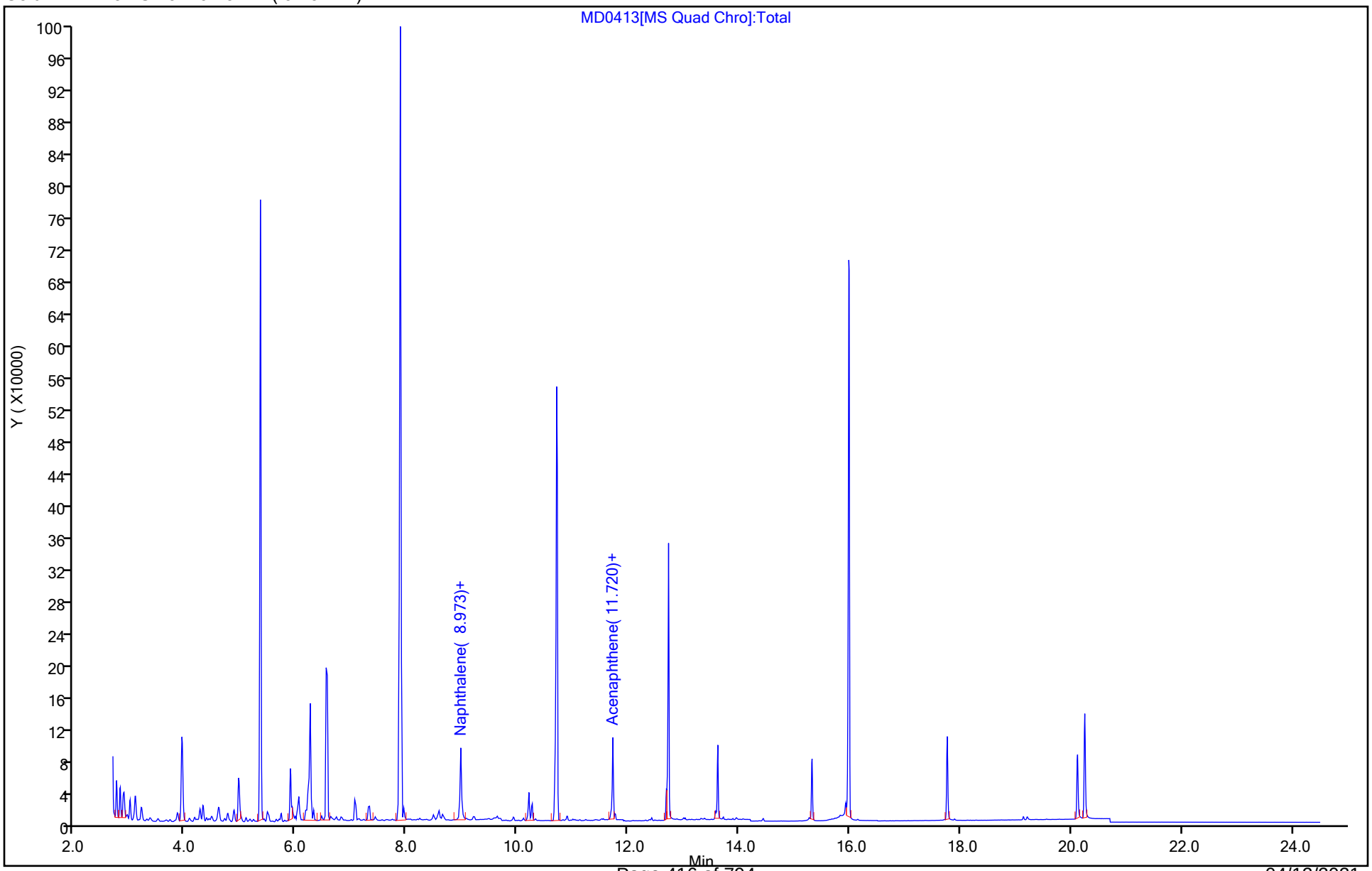
Report Date: 08-Apr-2021 06:18:04 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D

Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4	Worklist Smp#:	14
Client ID:	MW-7S-20210331				
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)



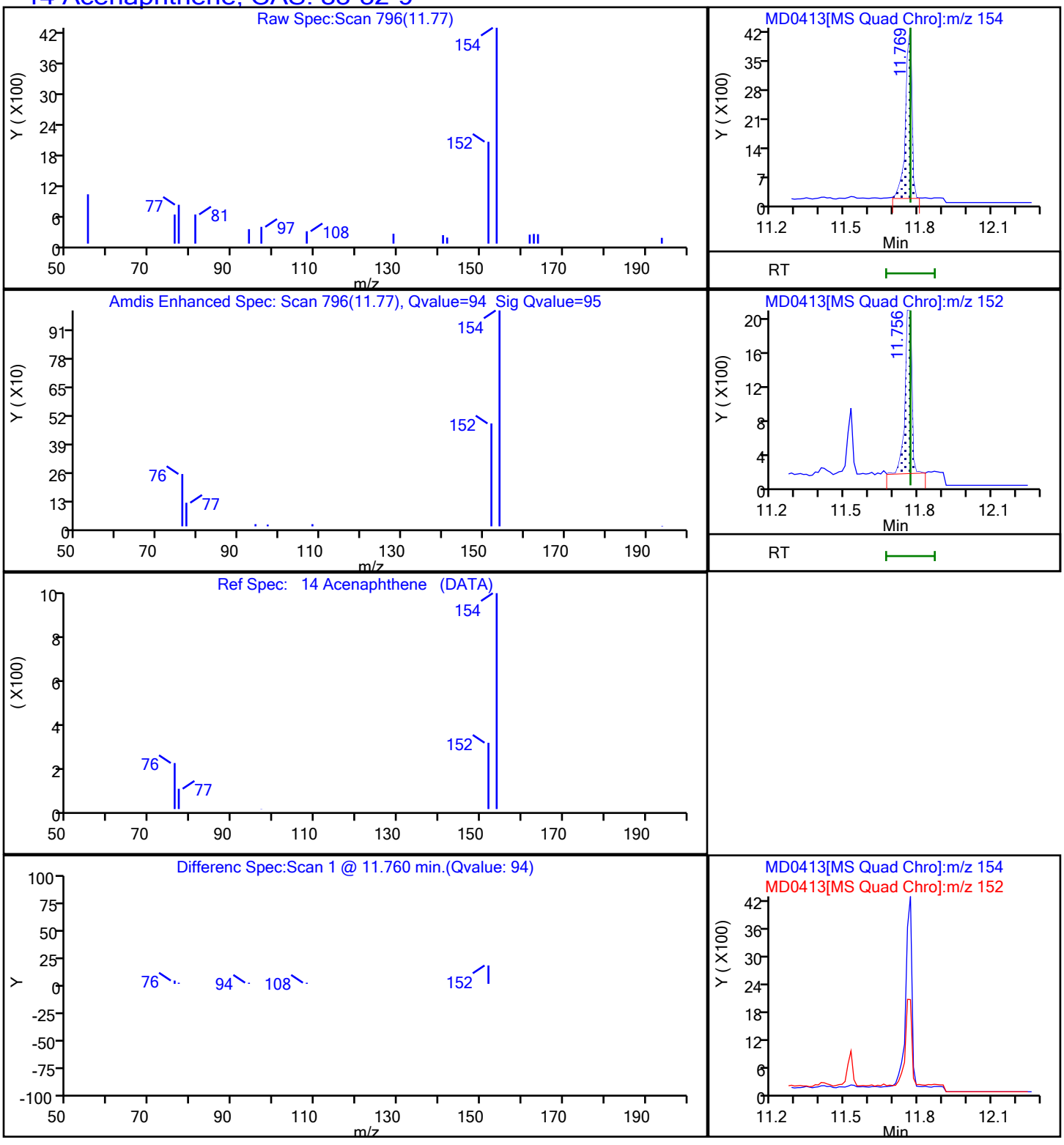
Report Date: 08-Apr-2021 06:18:04 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D

Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585		
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4		
Client ID:	MW-7S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

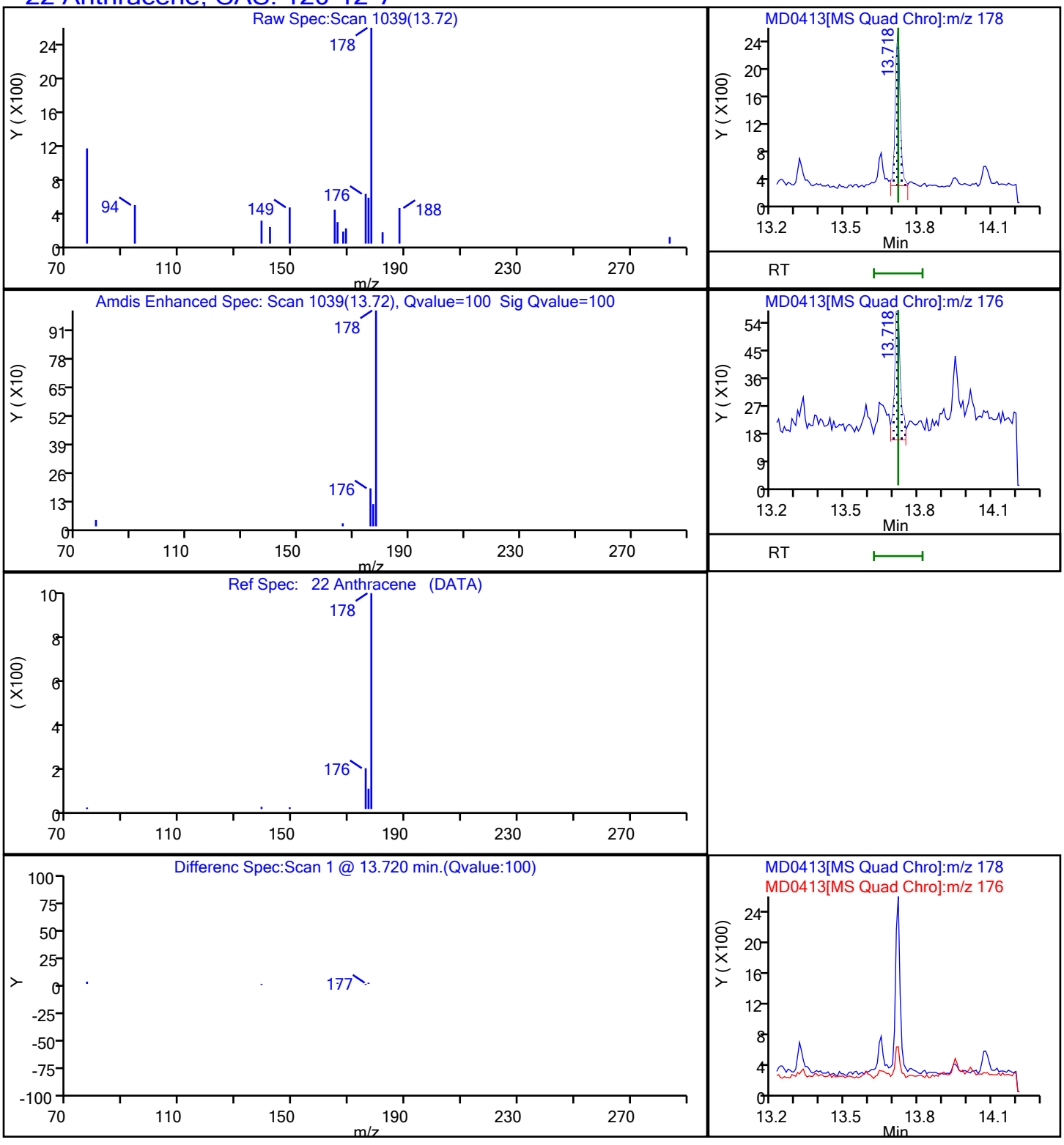
14 Acenaphthene, CAS: 83-32-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D		
Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4
Client ID:	MW-7S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

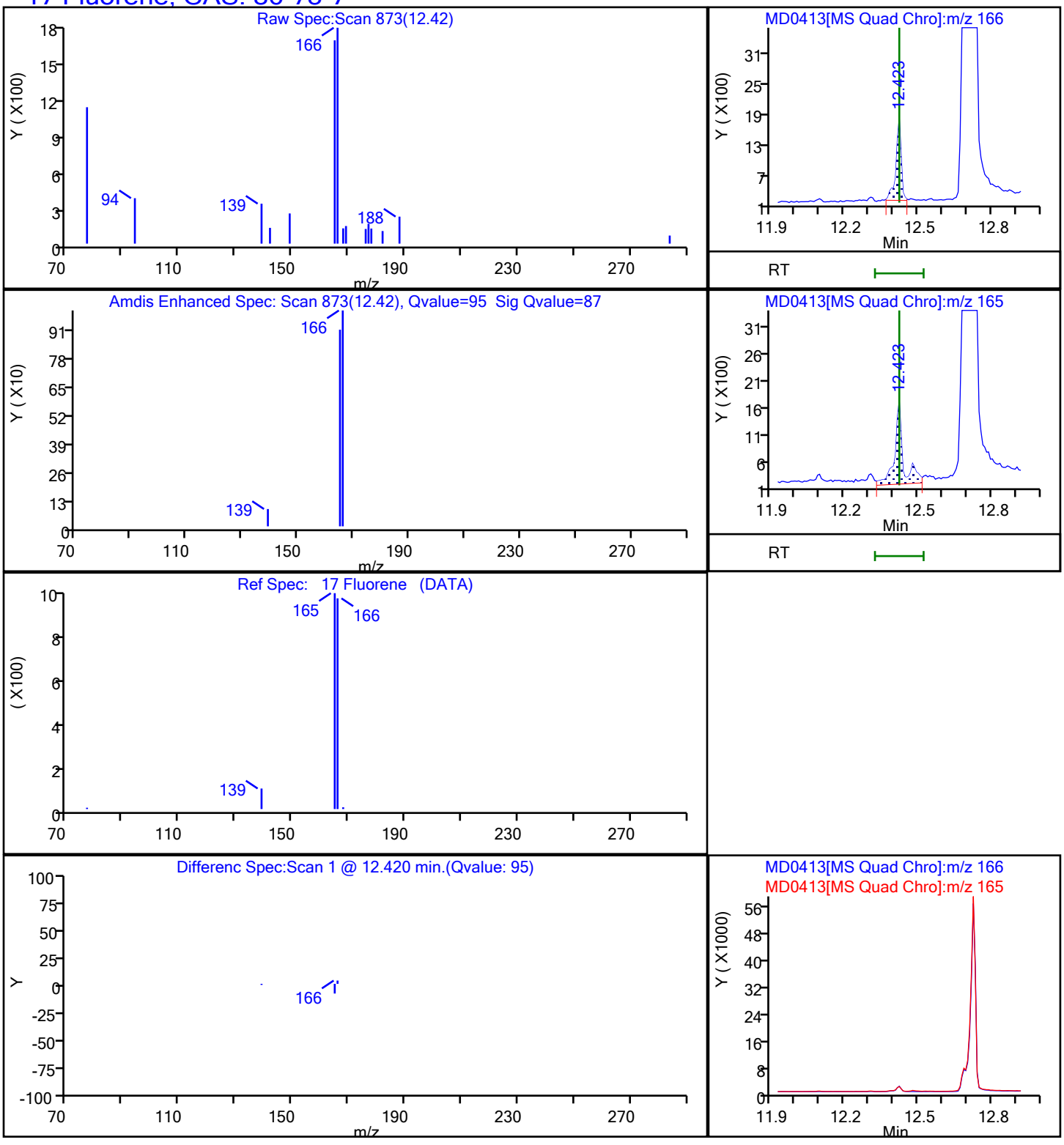
22 Anthracene, CAS: 120-12-7



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D		
Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4
Client ID:	MW-7S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	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



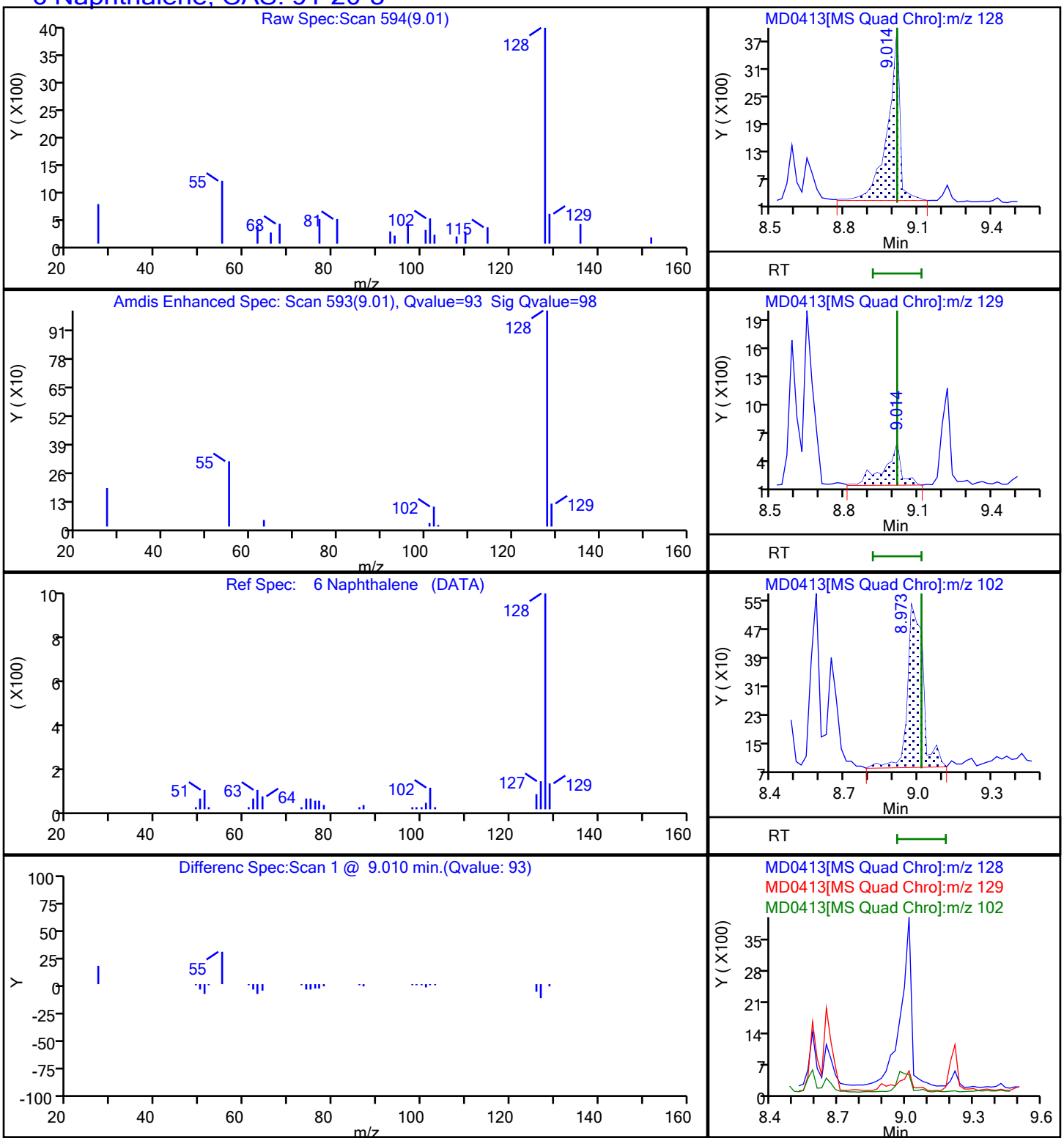
Report Date: 08-Apr-2021 06:18:04 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D

Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4
Client ID:	MW-7S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

6 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

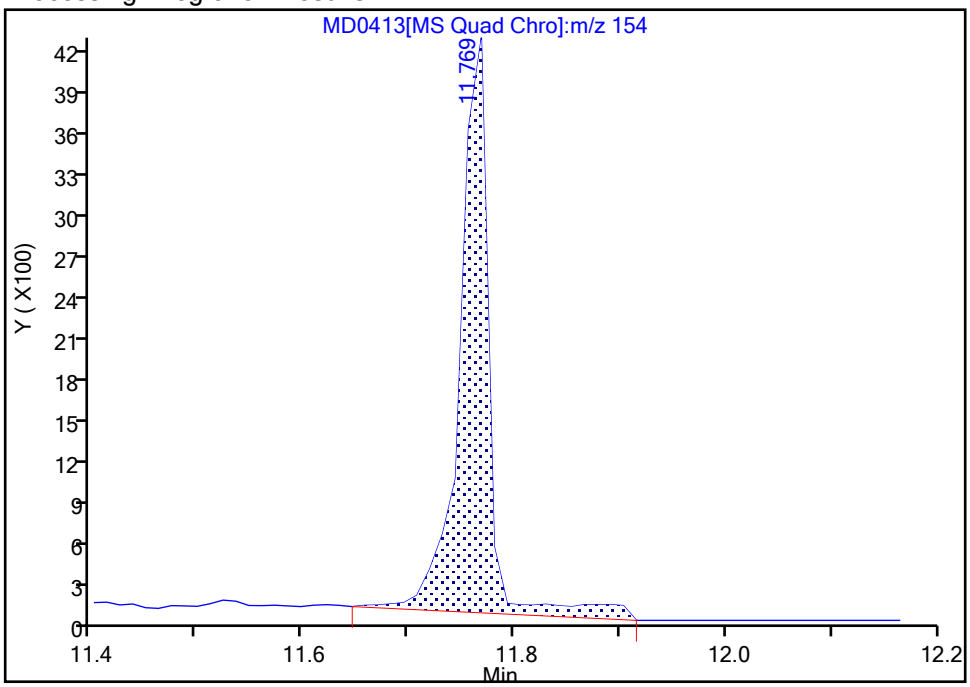
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D				
Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585		
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4		
Client ID:	MW-7S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9

Signal: 1

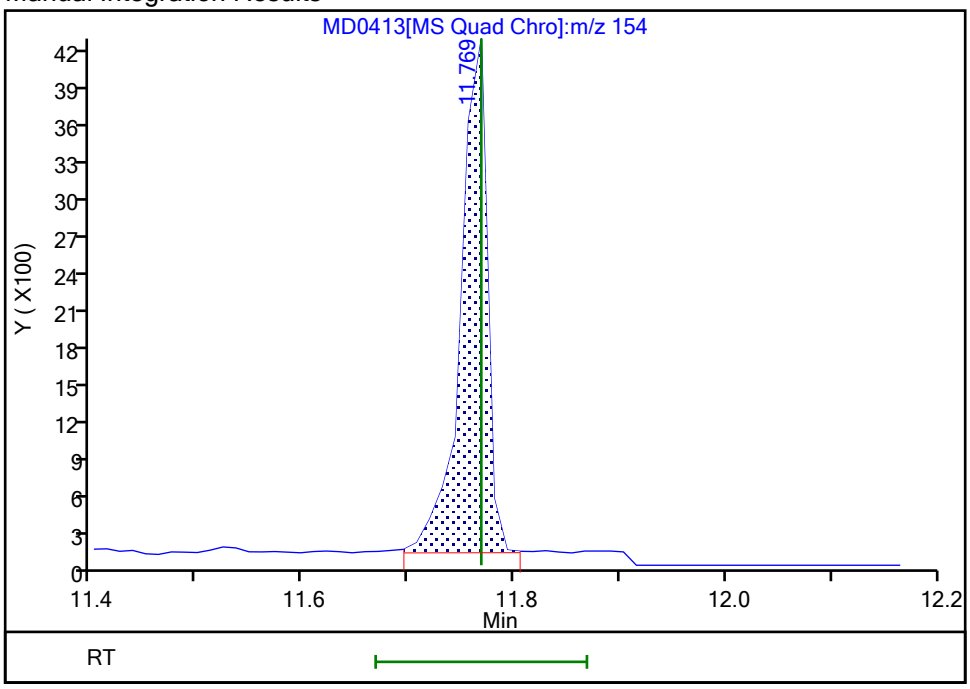
Processing Integration Results

RT: 11.77
Area: 8124
Amount: 0.026681
Amount Units: ug/ml



Manual Integration Results

RT: 11.77
Area: 7251
Amount: 0.023814
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:55:09

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

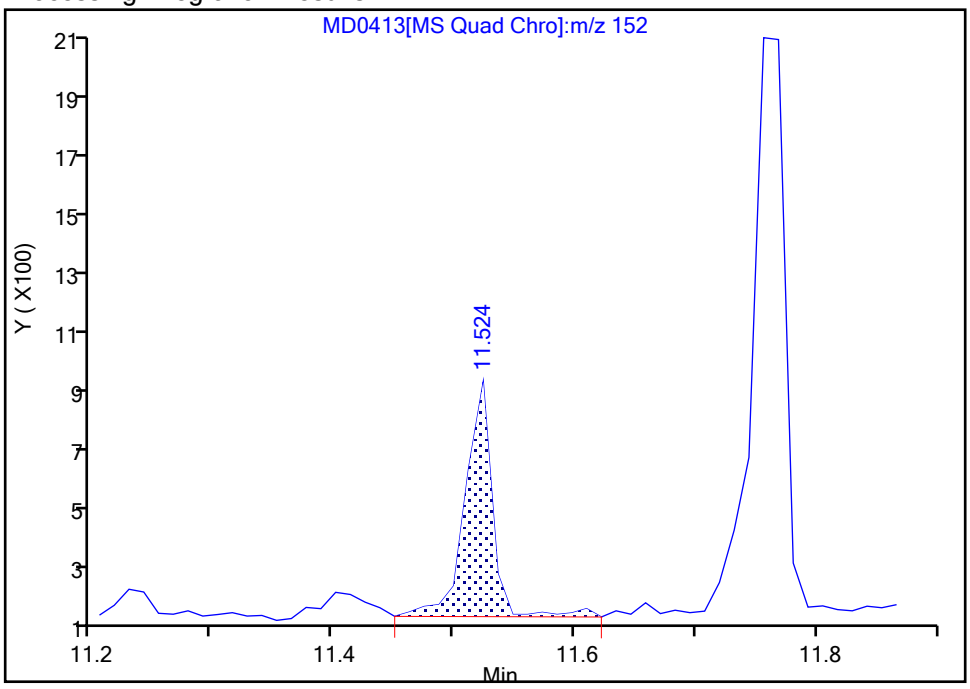
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D				
Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585		
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4		
Client ID:	MW-7S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	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

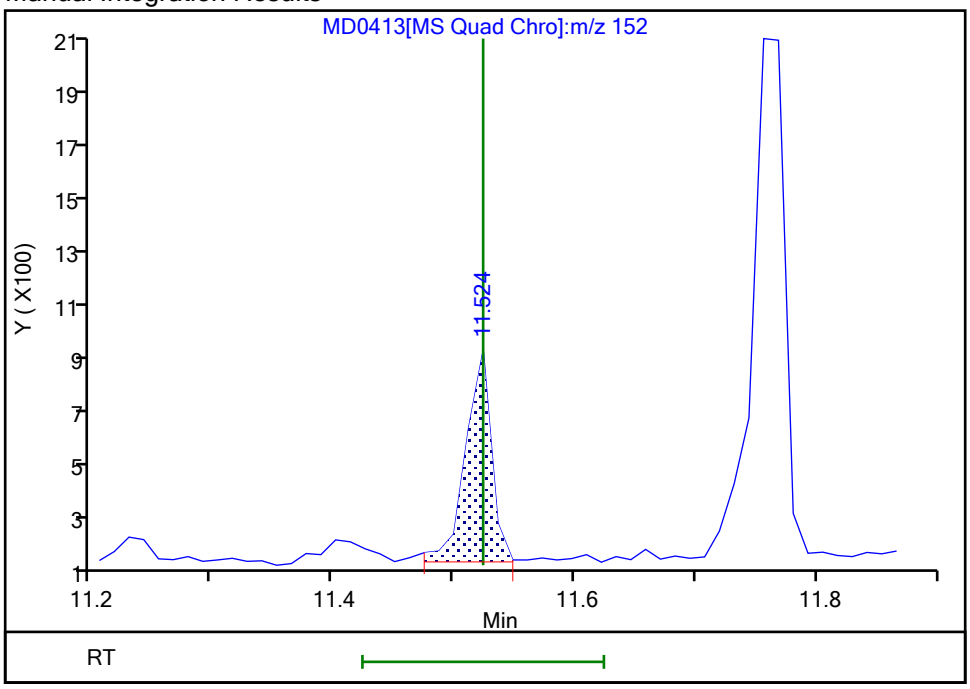
Processing Integration Results

RT: 11.52
Area: 1203
Amount: 0.002549
Amount Units: ug/ml



Manual Integration Results

RT: 11.52
Area: 1129
Amount: 0.002393
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:55:00

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

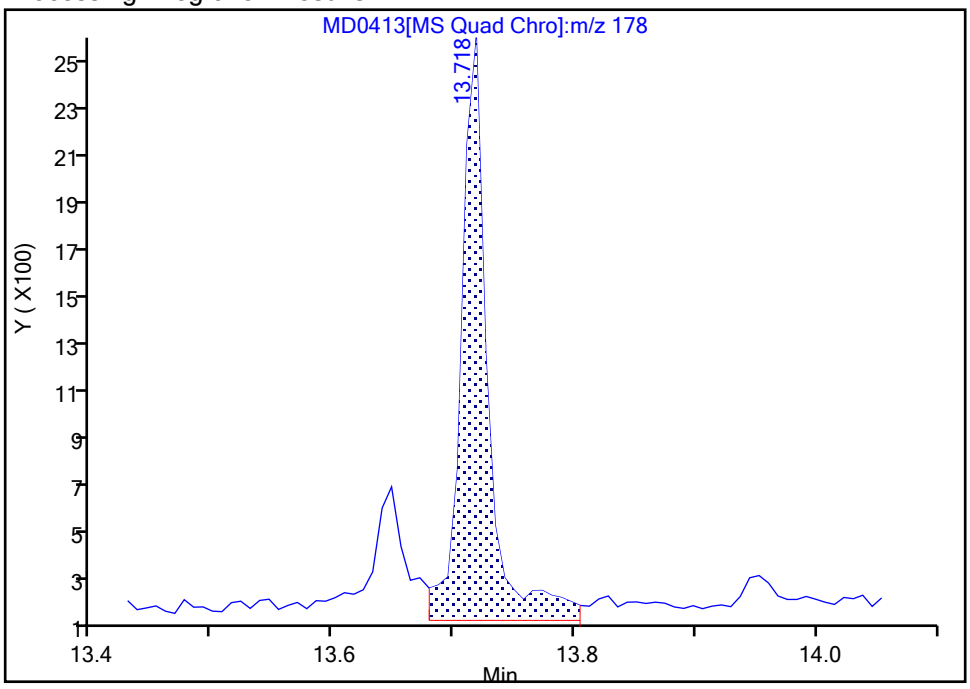
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D				
Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585		
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4		
Client ID:	MW-7S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	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

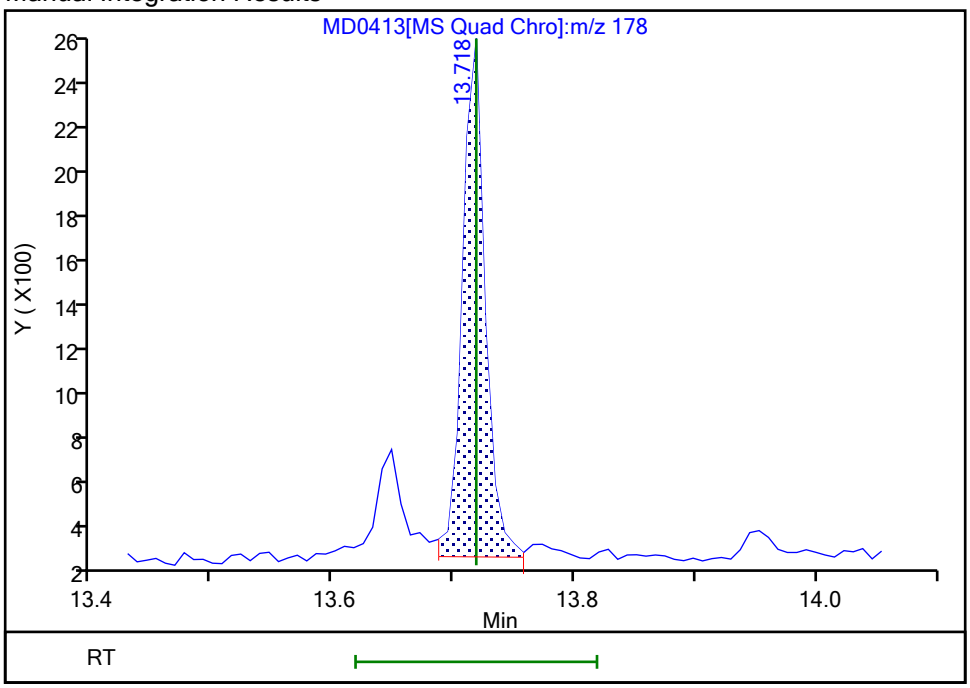
Processing Integration Results

RT: 13.72
Area: 3559
Amount: 0.007824
Amount Units: ug/ml



Manual Integration Results

RT: 13.72
Area: 2953
Amount: 0.006492
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:55:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

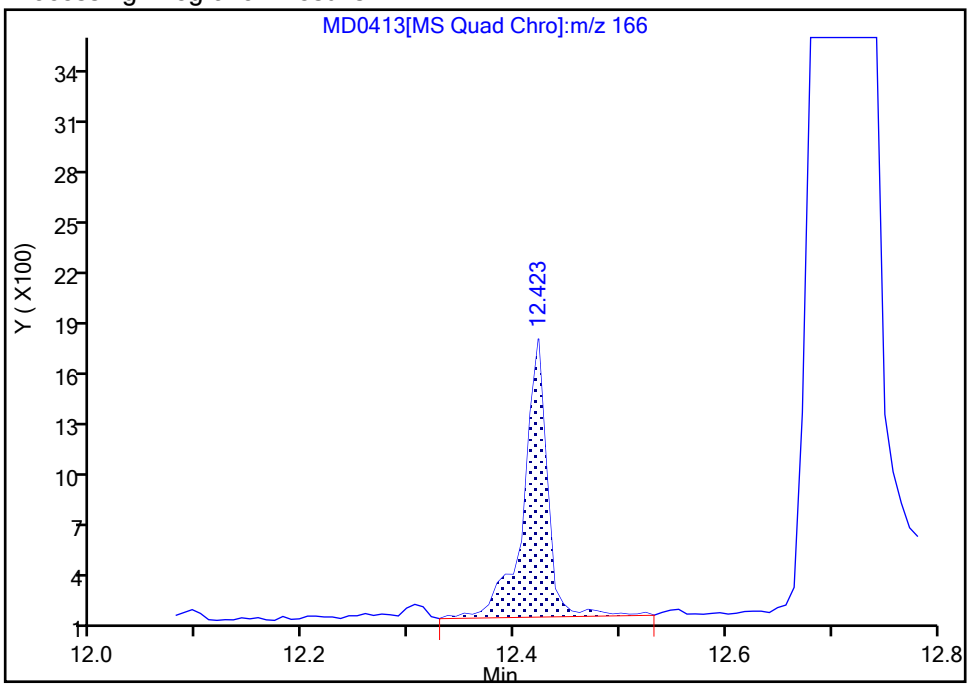
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0413.D				
Injection Date:	08-Apr-2021 02:39:03	Instrument ID:	HP21585		
Lims ID:	410-34553-D-4-C	Lab Sample ID:	410-34553-4		
Client ID:	MW-7S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	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

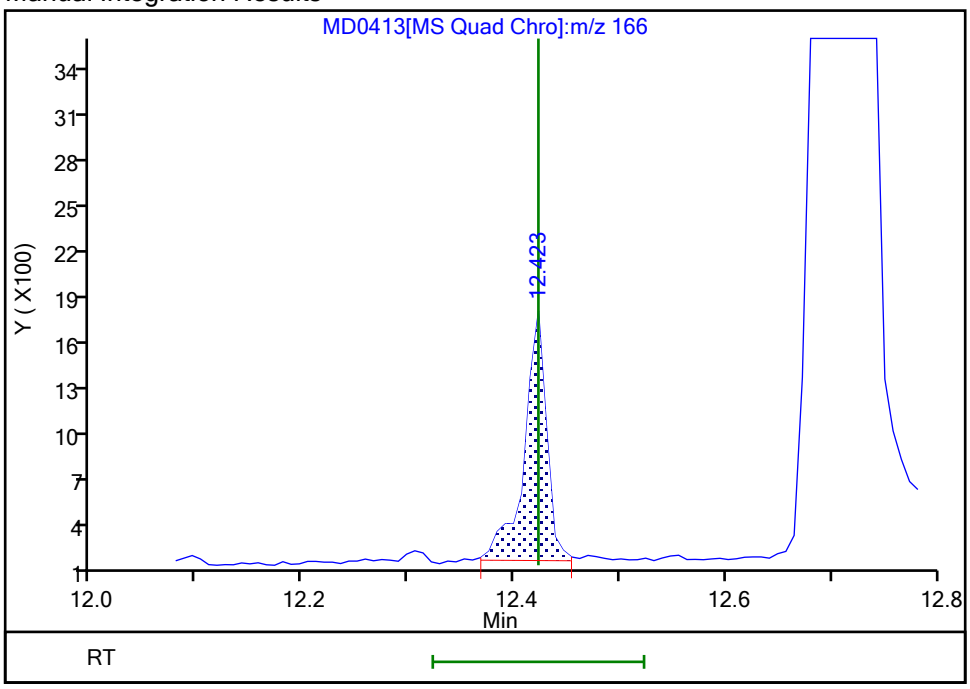
Processing Integration Results

RT: 12.42
Area: 2566
Amount: 0.007158
Amount Units: ug/ml



Manual Integration Results

RT: 12.42
Area: 2369
Amount: 0.006608
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:55:15

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-7D-20210331 Lab Sample ID: 410-34553-5

Matrix: Groundwater Lab File ID: MD0416.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 15:38

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 04:10

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.: 111994 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)	57		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	62		49-115
93951-69-0	Fluoranthene-d10 (Surr)	81		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0416.D				
Lims ID:	410-34553-D-5-A				
Client ID:	MW-7D-20210331				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 04:10:19	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-5-A				
Misc. Info.:	410-0026113-017				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 06:17:36	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1632				
First Level Reviewer: gamblerj		Date:	08-Apr-2021 05:57:48		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	89	27557	0.2500	
* 5 Naphthalene-d8	136	8.972	8.973	-0.001	92	101796	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	-0.001	100	33640	0.1551	
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	98	58463	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	95	109667	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	-0.001	98	85112	0.2014	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	121896	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	73336	0.1420	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	148352	0.2500	

QC Flag Legend

Processing Flags

Reagents:

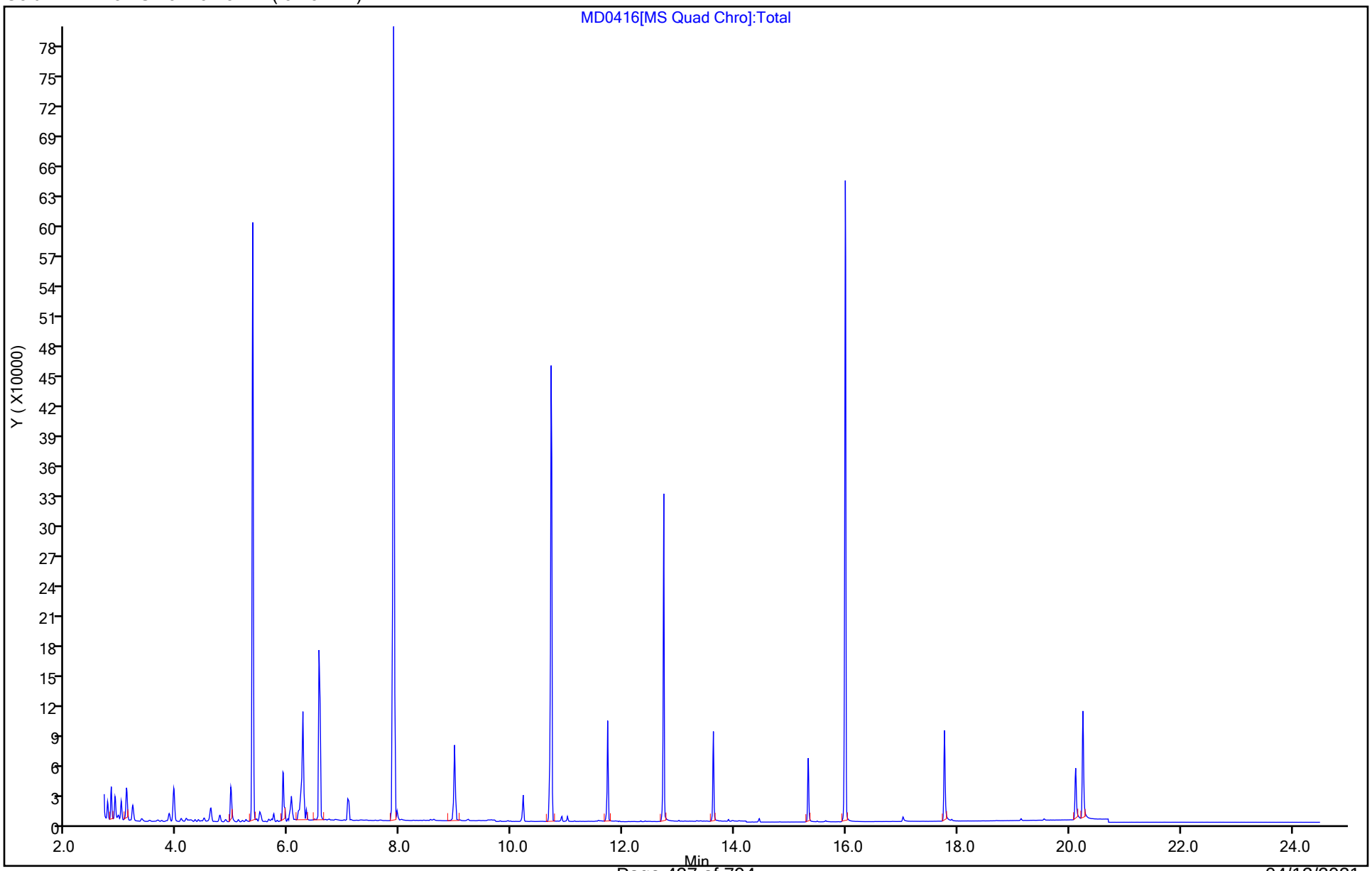
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 06:18:07 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0416.D				
Injection Date:	08-Apr-2021 04:10:19	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-5-A	Lab Sample ID:	410-34553-5	Worklist Smp#:	17
Client ID:	MW-7D-20210331				
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)



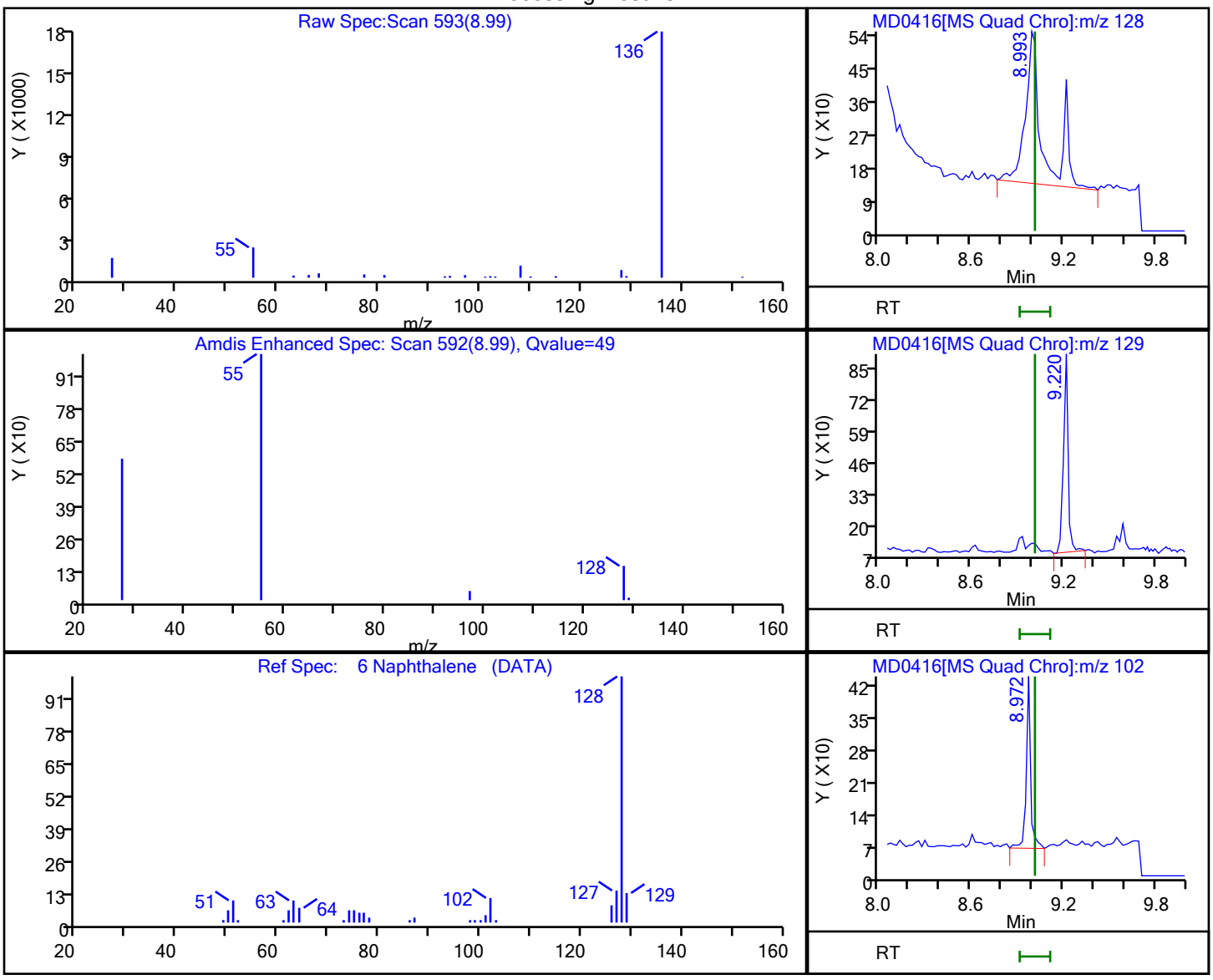
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0416.D				
Injection Date:	08-Apr-2021 04:10:19	Instrument ID:	HP21585		
Lims ID:	410-34553-D-5-A	Lab Sample ID:	410-34553-5		
Client ID:	MW-7D-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	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
8.99	128.00	3212	0.007877
9.22	129.00	1742	
8.97	102.00	753	

Reviewer: gamblerj, 08-Apr-2021 05:57:33

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-14S-20210331 Lab Sample ID: 410-34553-6

Matrix: Groundwater Lab File ID: MD0417.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 16:30

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 04:40

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.: 111994 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.84		0.050	0.010
208-96-8	Acenaphthylene	0.022	J	0.050	0.010
120-12-7	Anthracene	0.016	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	ND		0.050	0.010
86-73-7	Fluorene	0.030	J	0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	0.065	J	0.070	0.030
85-01-8	Phenanthrene	0.063	J	0.070	0.030
129-00-0	Pyrene	0.010	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	77		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	75		49-115
93951-69-0	Fluoranthene-d10 (Surr)	90		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D
Lims ID: 410-34553-D-6-A
Client ID: MW-14S-20210331
Sample Type: Client
Inject. Date: 08-Apr-2021 04:40:46 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-6-A
Misc. Info.: 410-0026113-018
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 06:17:36 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 05:59:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	93	29618	0.2500	
* 5 Naphthalene-d8	136	8.972	8.973	-0.001	91	112276	0.2500	
6 Naphthalene	128	9.013	9.014	-0.001	42	7352	0.0163	M
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	-0.001	100	44967	0.1879	
12 Acenaphthylene	152	11.524	11.524	0.000	95	2608	0.005569	M
* 13 Acenaphthene-d10	164	11.719	11.720	-0.001	96	64558	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	93	63154	0.2090	
17 Fluorene	166	12.422	12.423	-0.001	95	2678	0.007527	M
* 20 Phenanthrene-d10	188	13.616	13.617	-0.001	95	121601	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	7936	0.0157	
22 Anthracene	178	13.718	13.718	0.000	99	2003	0.004052	M
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	-0.001	98	105178	0.2244	
26 Pyrene	202	15.702	15.702	0.000	98	1919	0.002599	M
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	128591	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	-0.001	99	104882	0.1913	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	157479	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

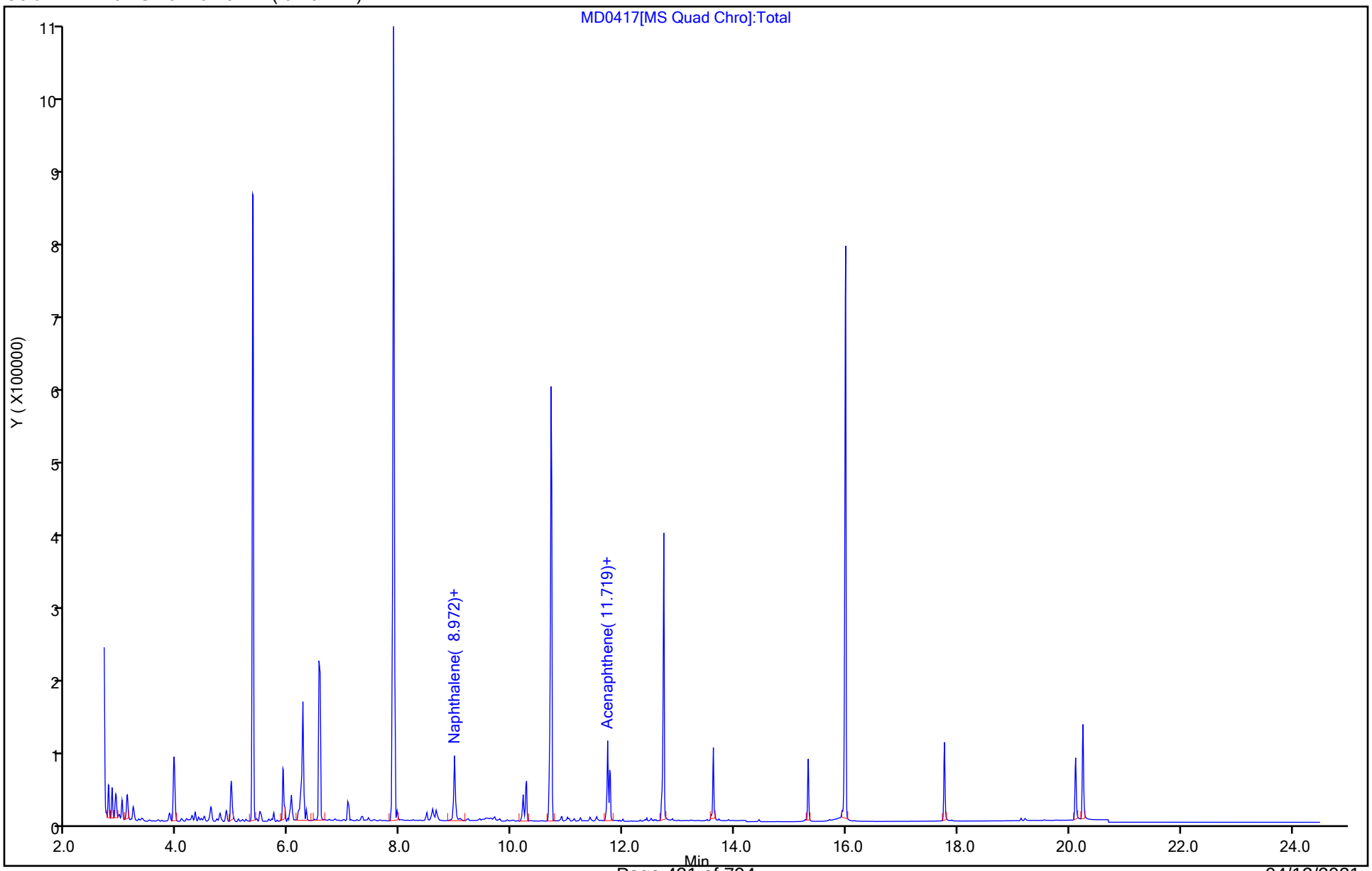
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 06:18:08 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D				
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6	Worklist Smp#:	18
Client ID:	MW-14S-20210331				
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)



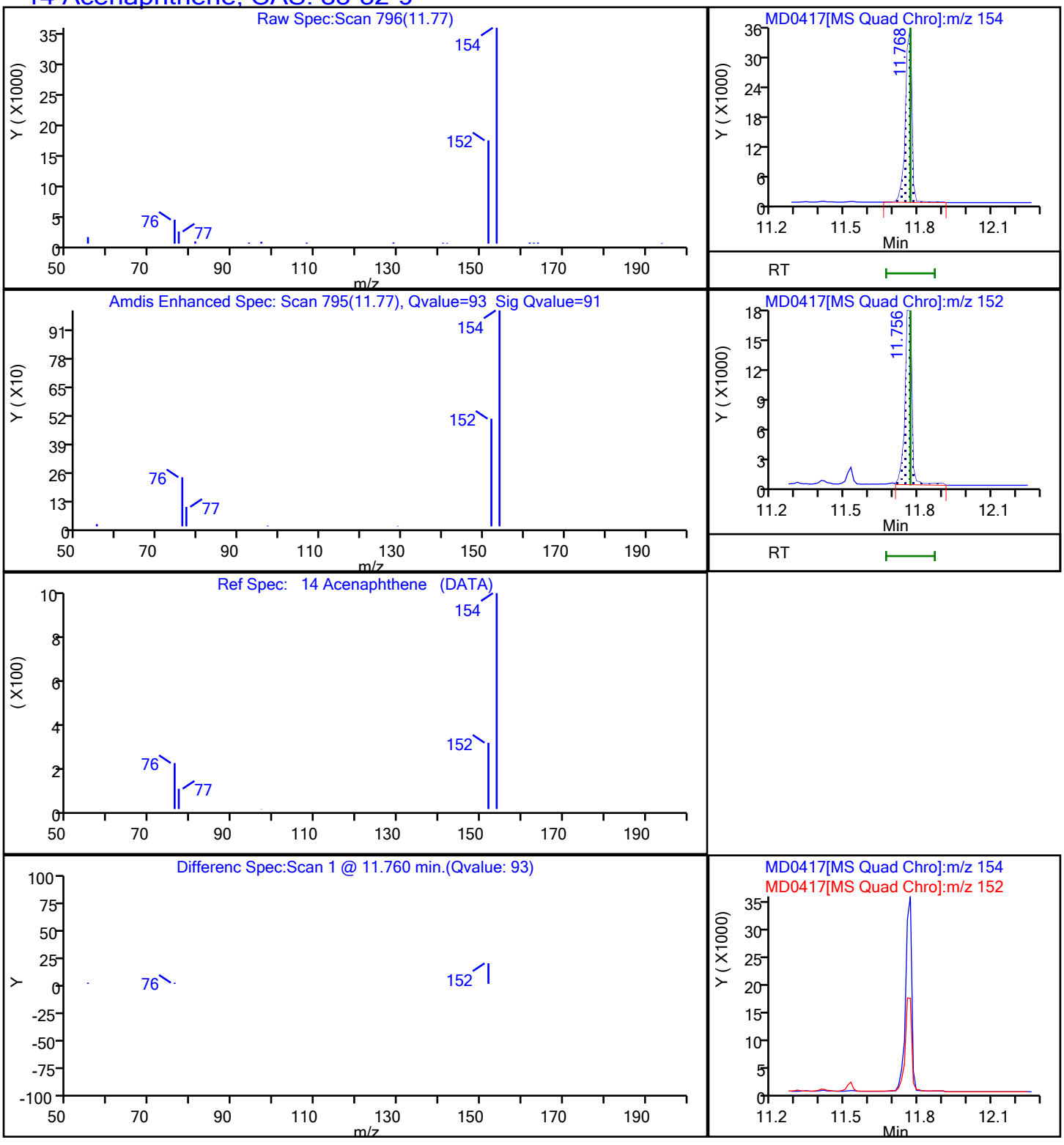
Report Date: 08-Apr-2021 06:18:08 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D

Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6		
Client ID:	MW-14S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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



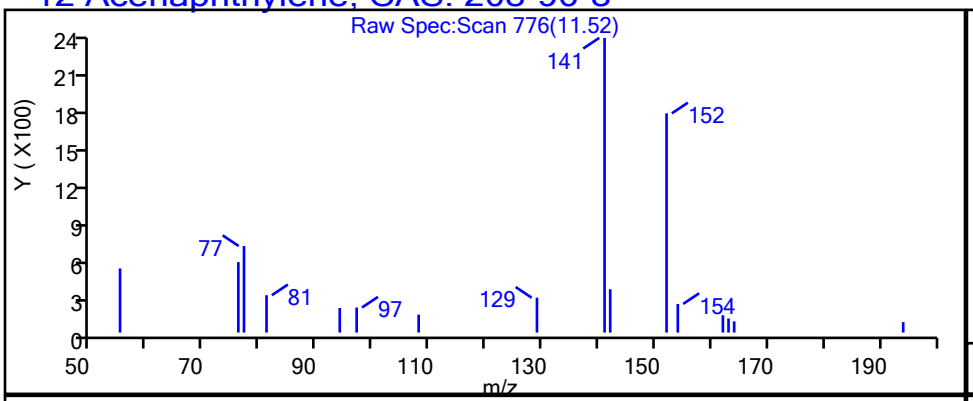
Report Date: 08-Apr-2021 06:18:08 Chrom Revision: 2.3 19-Mar-2021 08:24:58

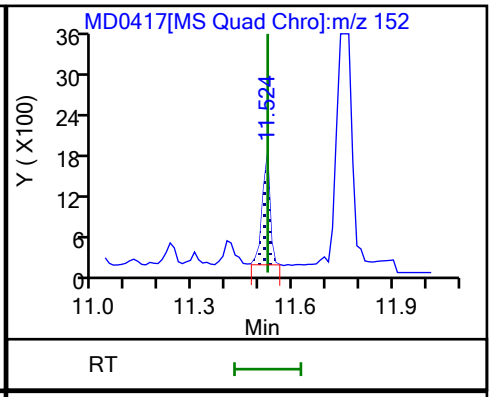
Eurofins Lancaster Laboratories Env, LLC

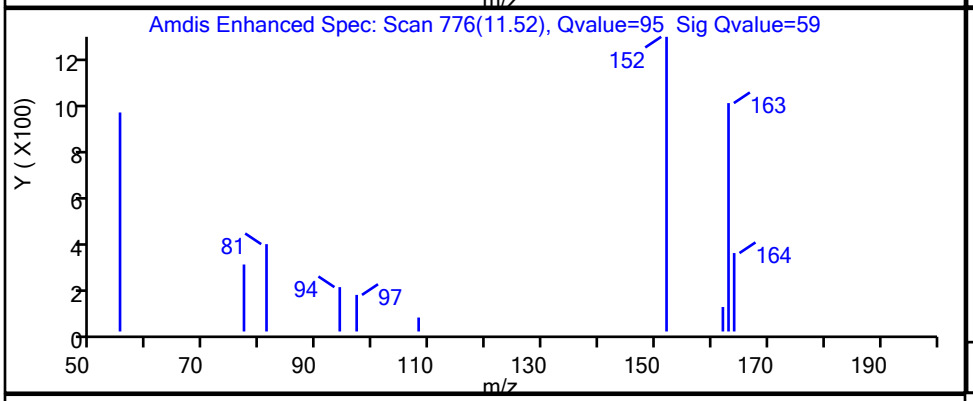
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D

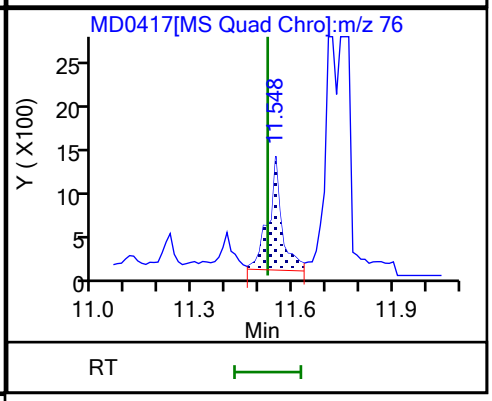
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6
Client ID:	MW-14S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

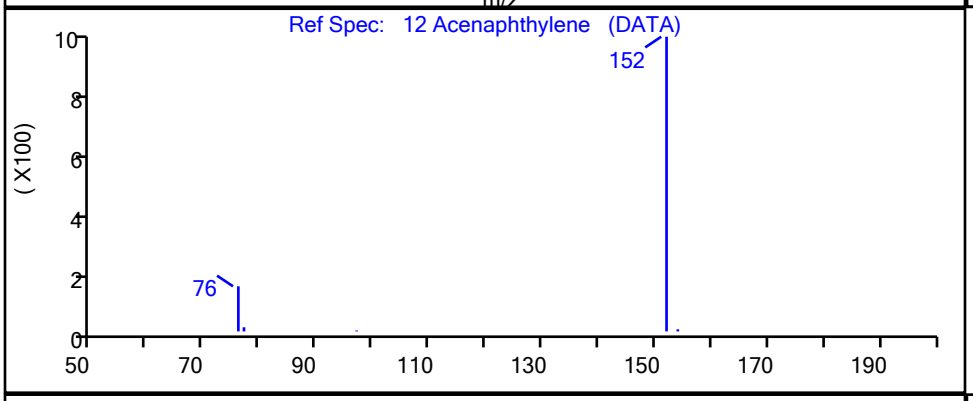
12 Acenaphthylene, CAS: 208-96-8

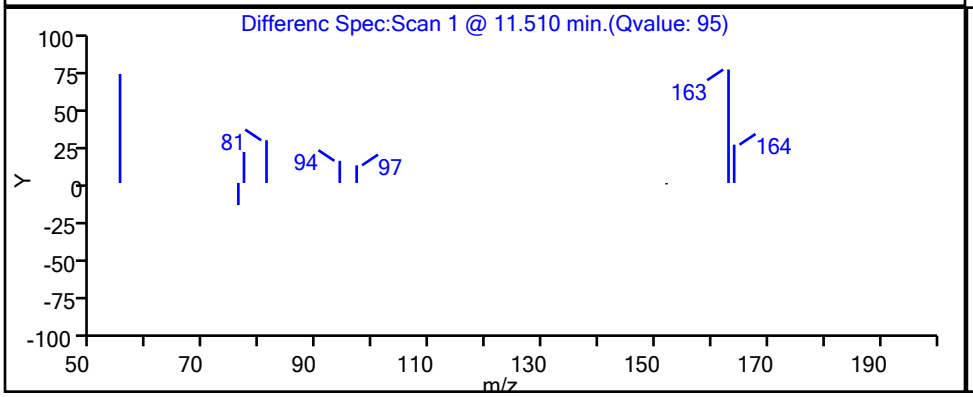


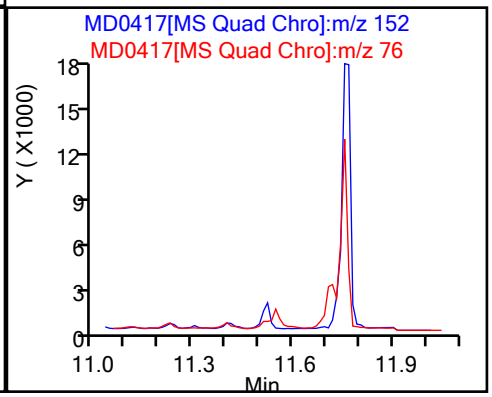








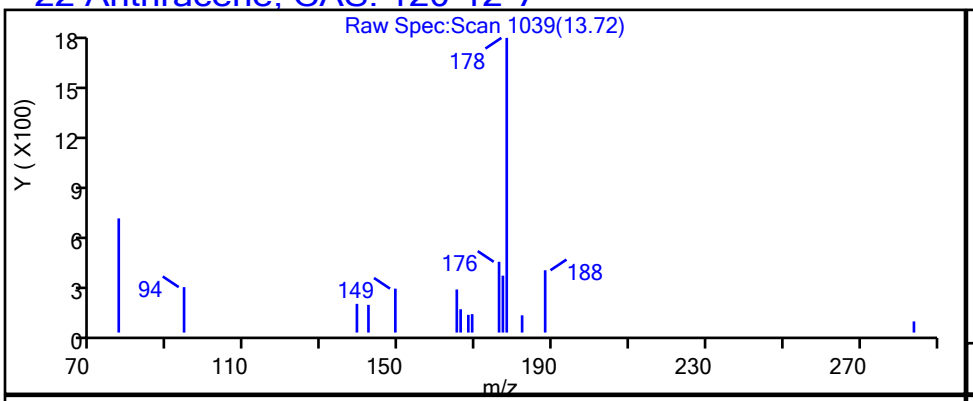


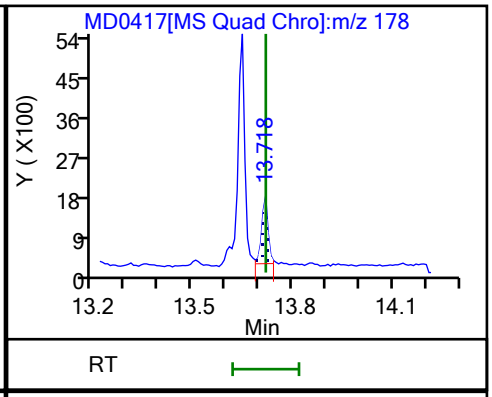


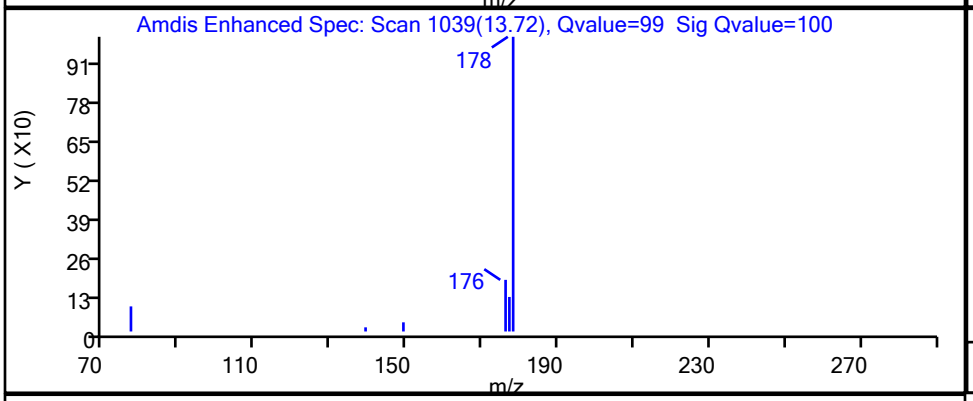
Eurofins Lancaster Laboratories Env, LLC

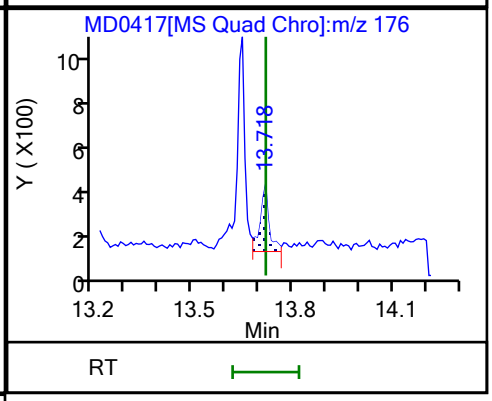
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D		
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6
Client ID:	MW-14S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

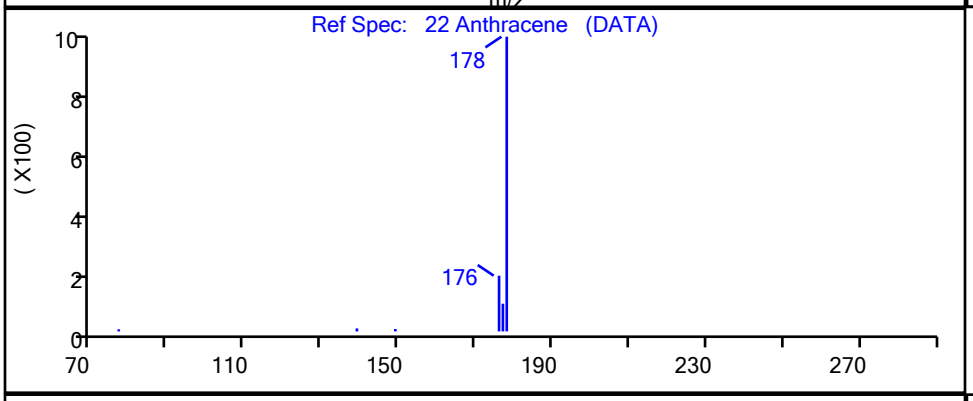
22 Anthracene, CAS: 120-12-7

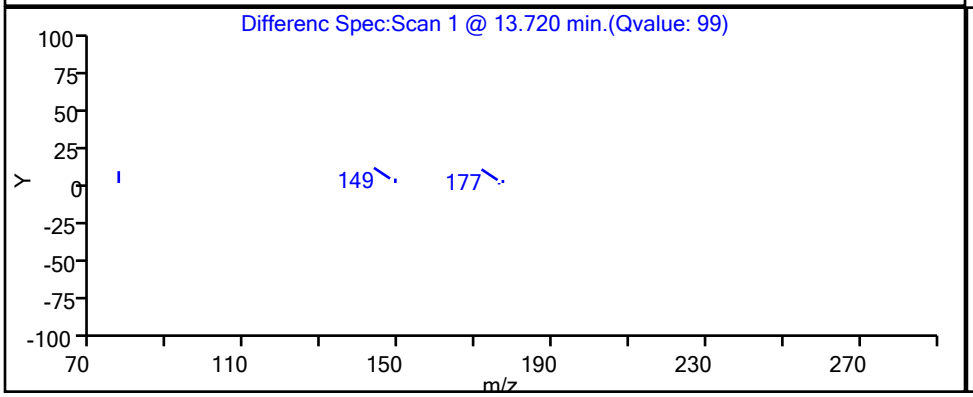


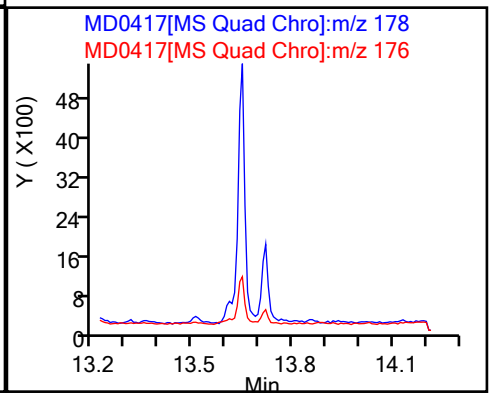












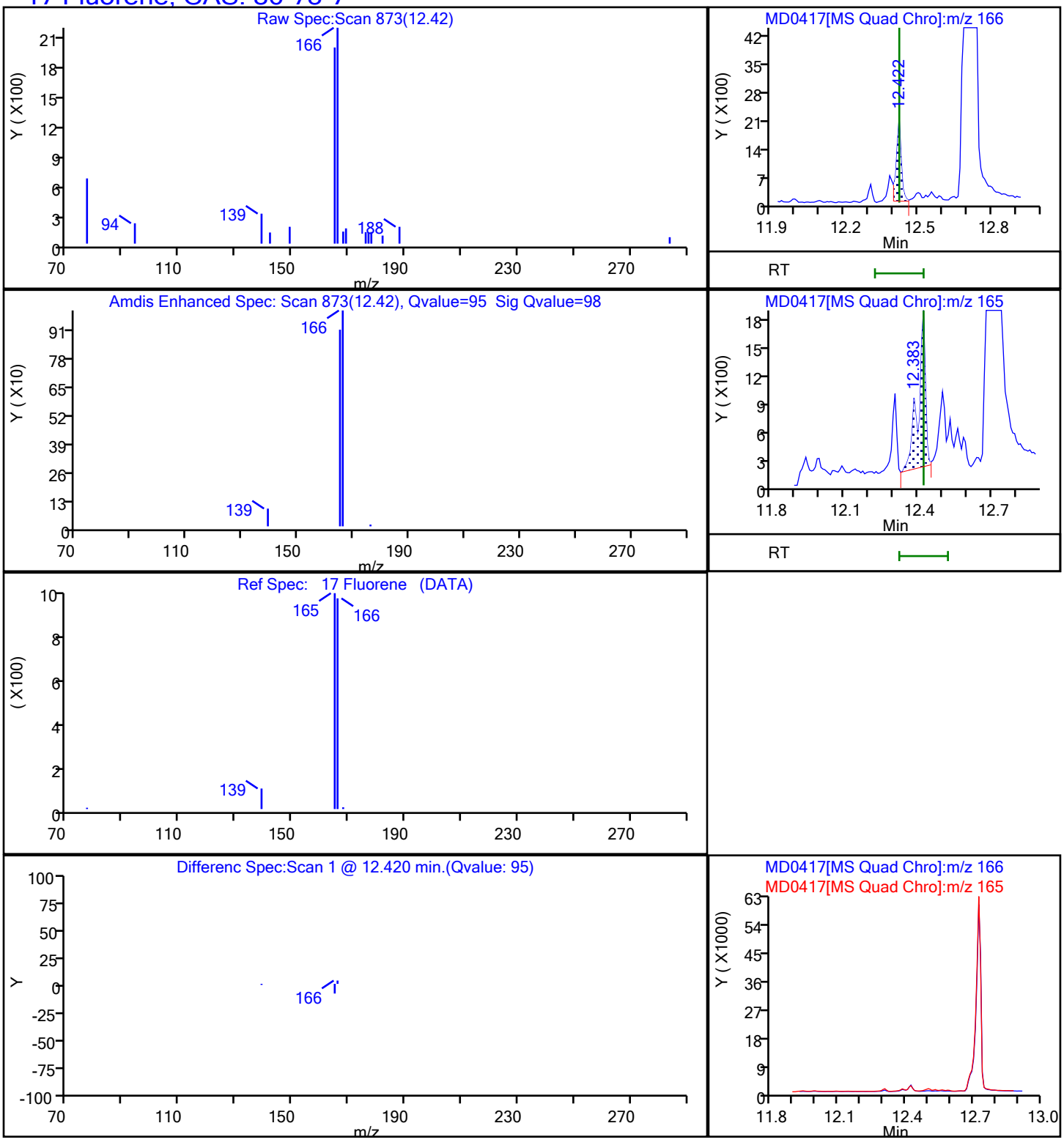
Report Date: 08-Apr-2021 06:18:08 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D

Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6		
Client ID:	MW-14S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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



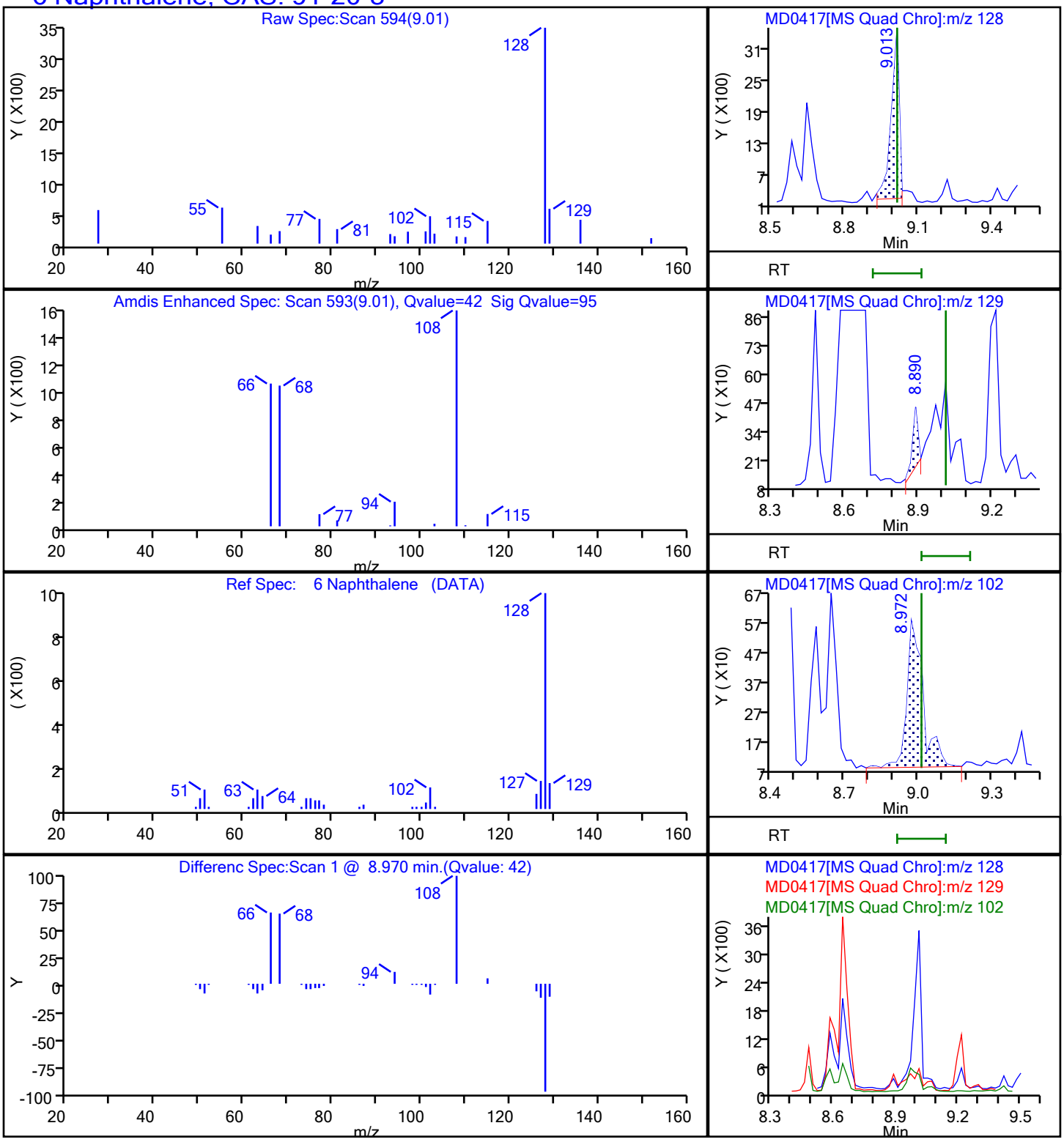
Report Date: 08-Apr-2021 06:18:08 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D

Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6
Client ID:	MW-14S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

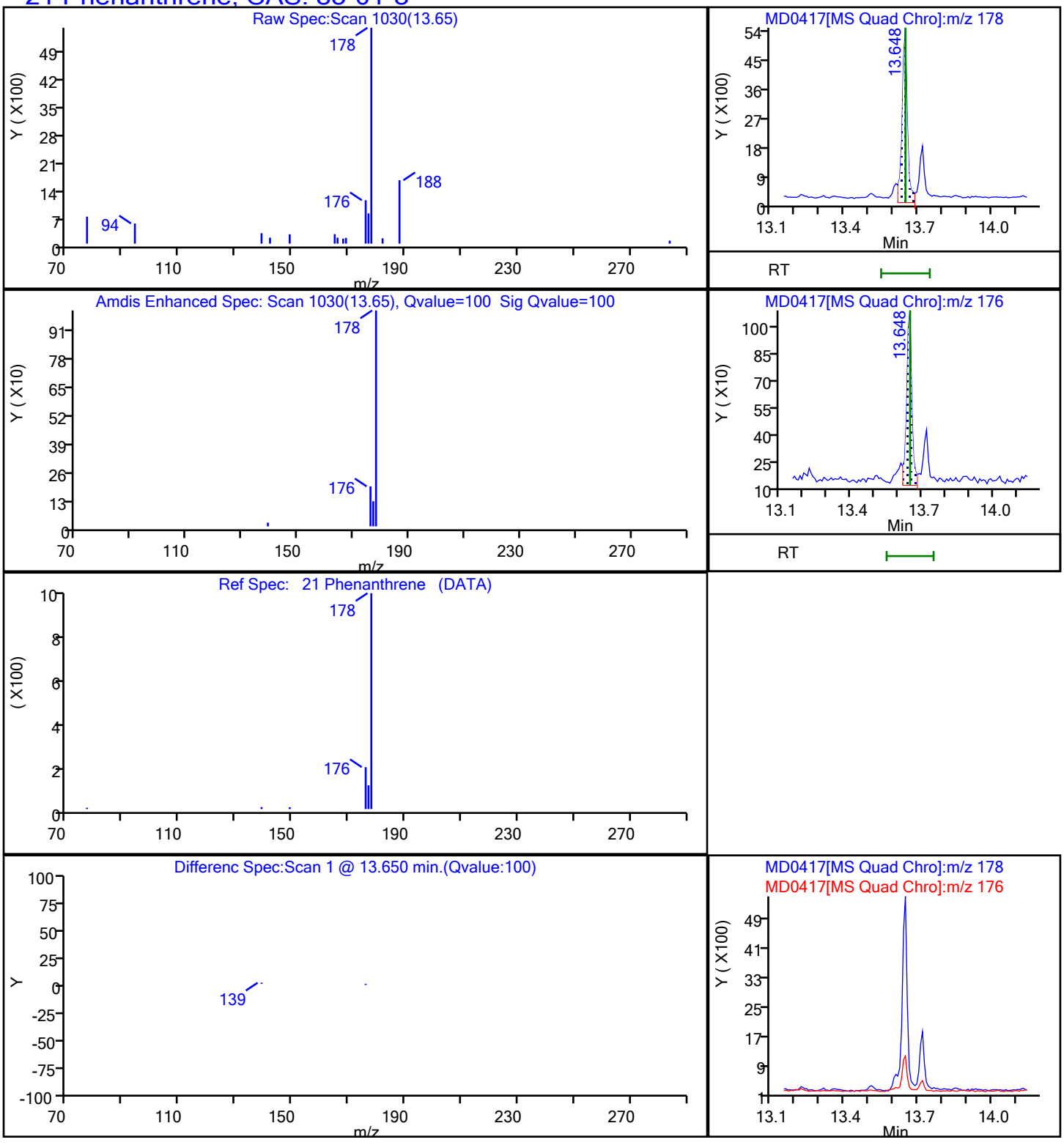
6 Naphthalene, CAS: 91-20-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D		
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6
Client ID:	MW-14S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

21 Phenanthrene, CAS: 85-01-8



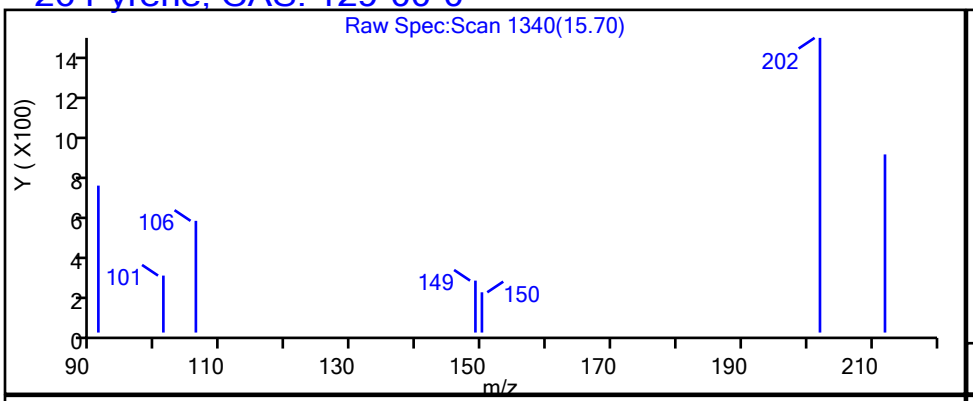
Report Date: 08-Apr-2021 06:18:09 Chrom Revision: 2.3 19-Mar-2021 08:24:58

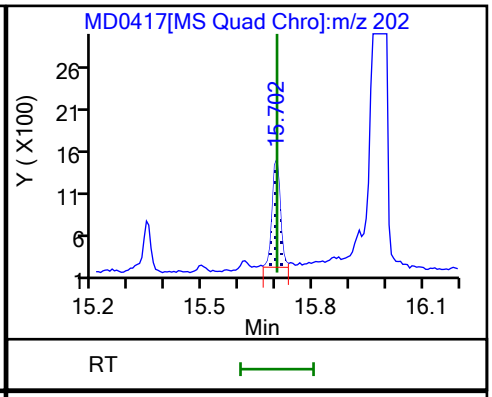
Eurofins Lancaster Laboratories Env, LLC

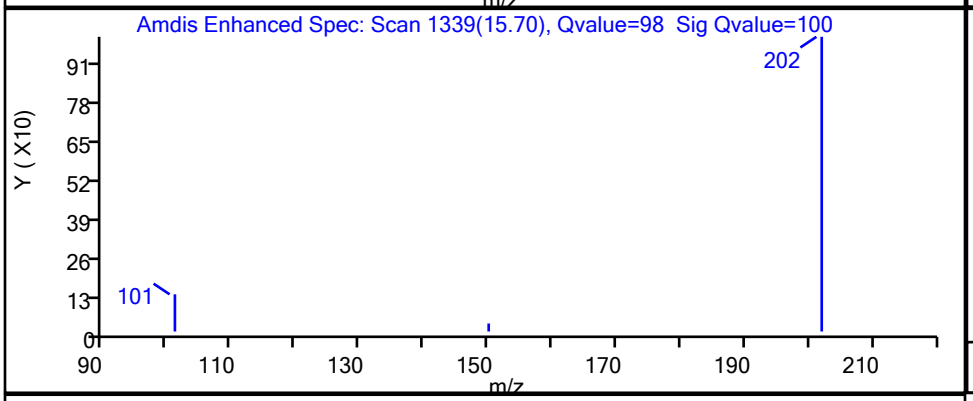
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D

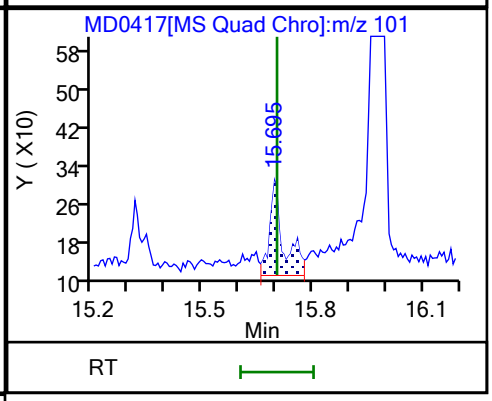
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6		
Client ID:	MW-14S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

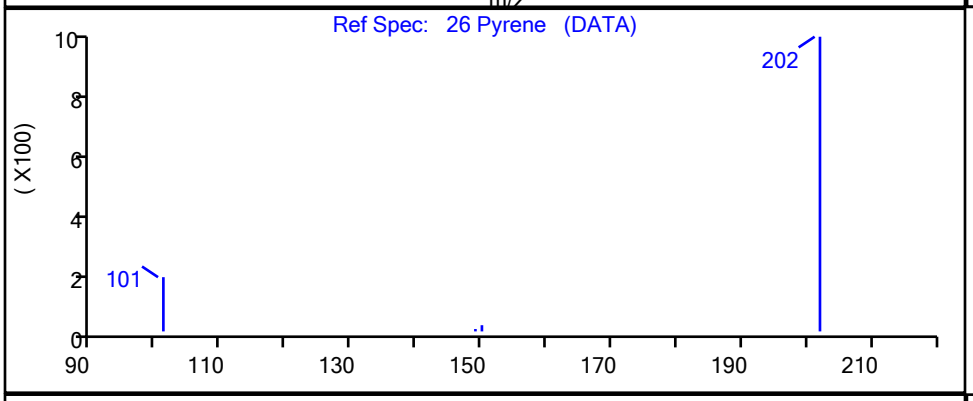
26 Pyrene, CAS: 129-00-0

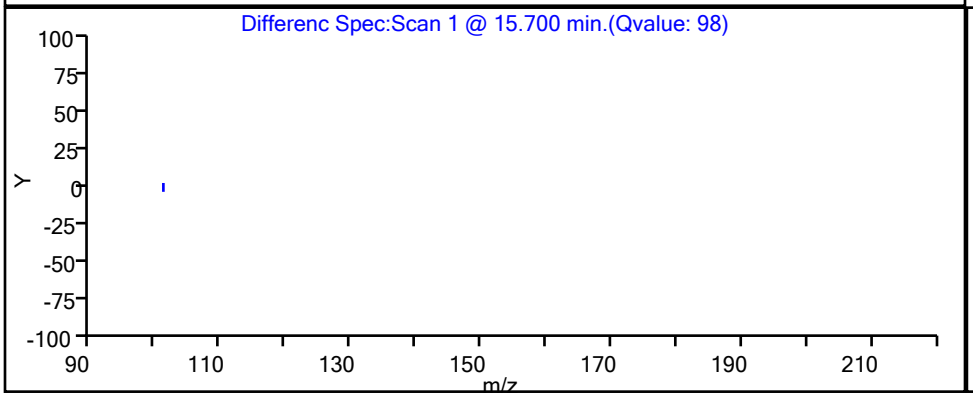


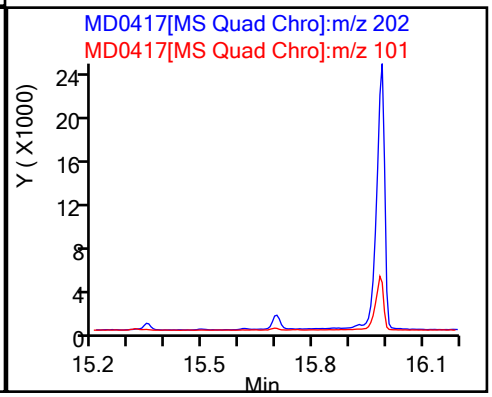












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

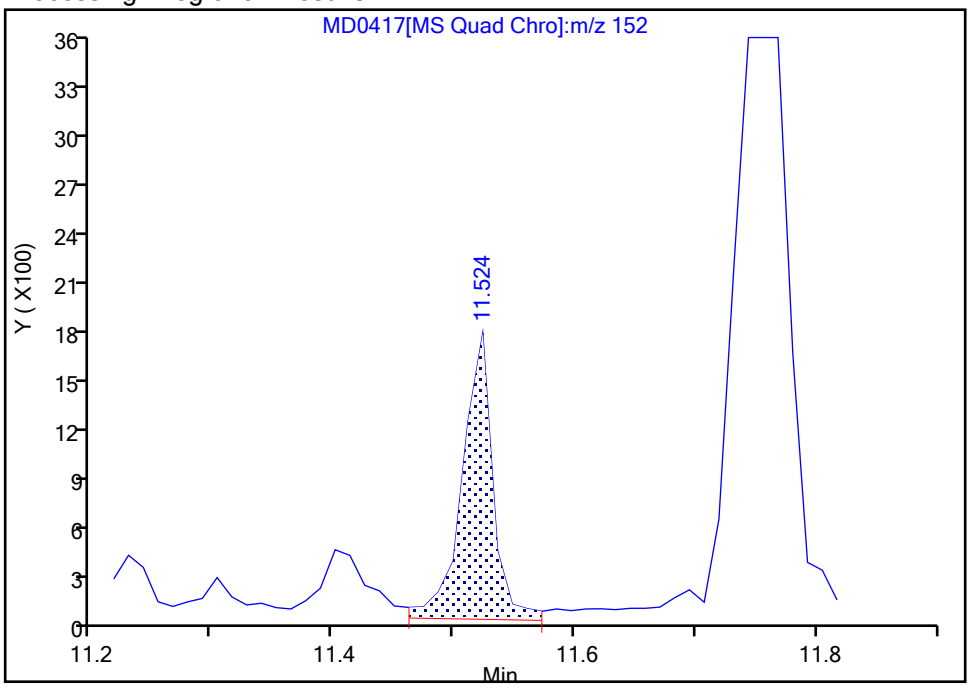
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D				
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6		
Client ID:	MW-14S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

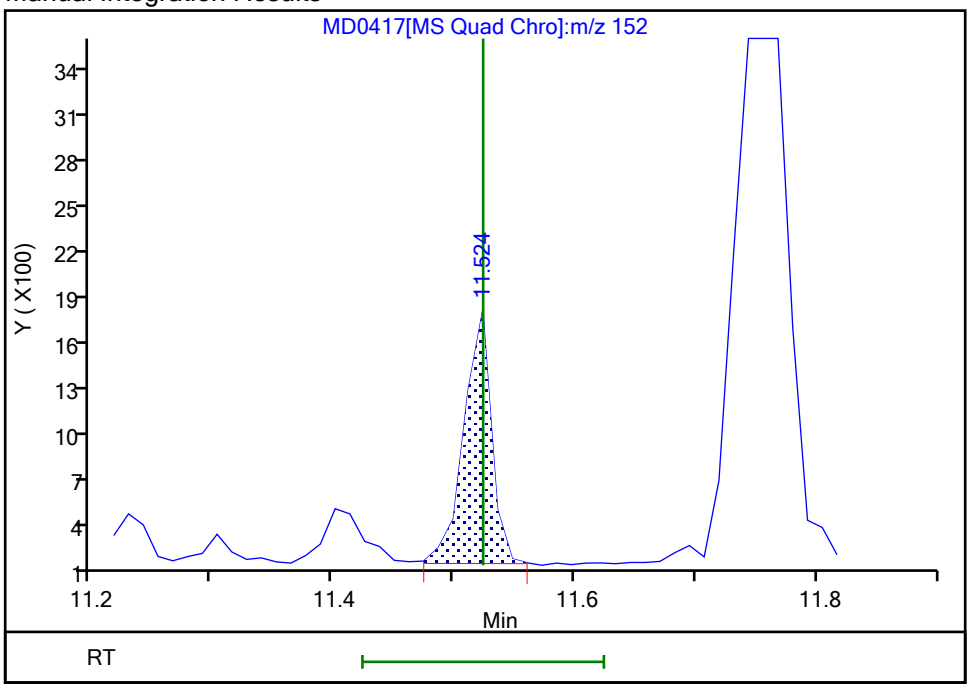
Processing Integration Results

RT: 11.52
Area: 2999
Amount: 0.006404
Amount Units: ug/ml



Manual Integration Results

RT: 11.52
Area: 2608
Amount: 0.005569
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:58:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

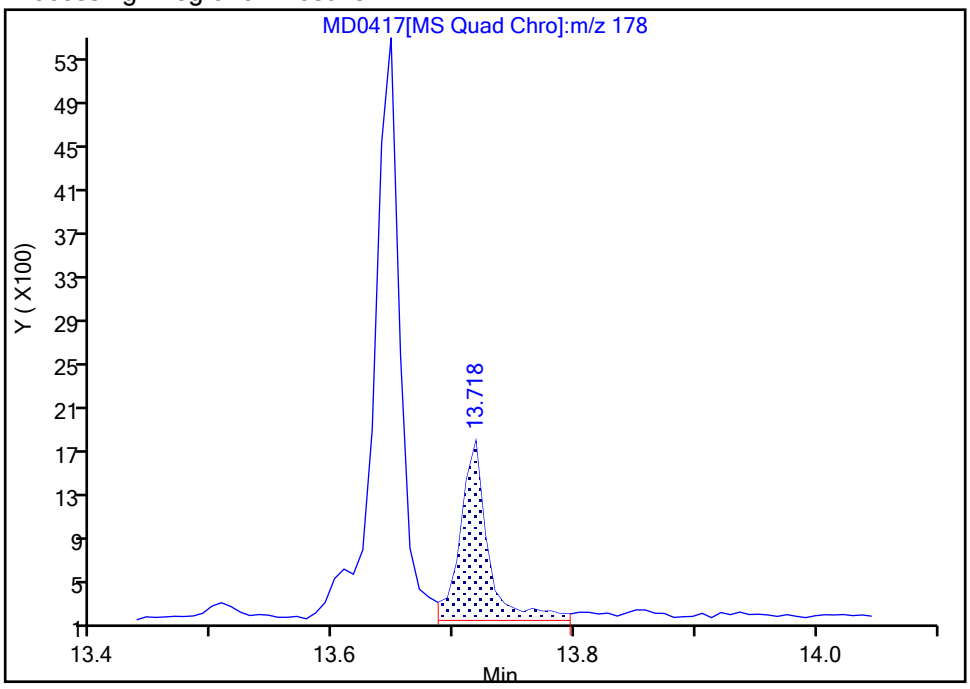
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D				
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6		
Client ID:	MW-14S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

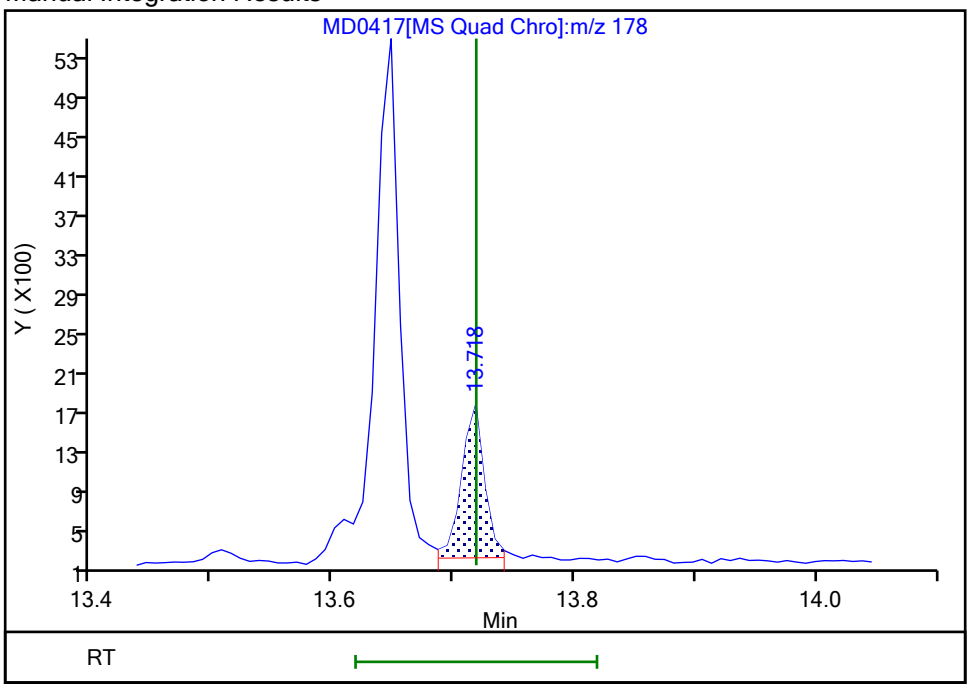
Processing Integration Results

RT: 13.72
Area: 2554
Amount: 0.005167
Amount Units: ug/ml



Manual Integration Results

RT: 13.72
Area: 2003
Amount: 0.004052
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:58:47

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

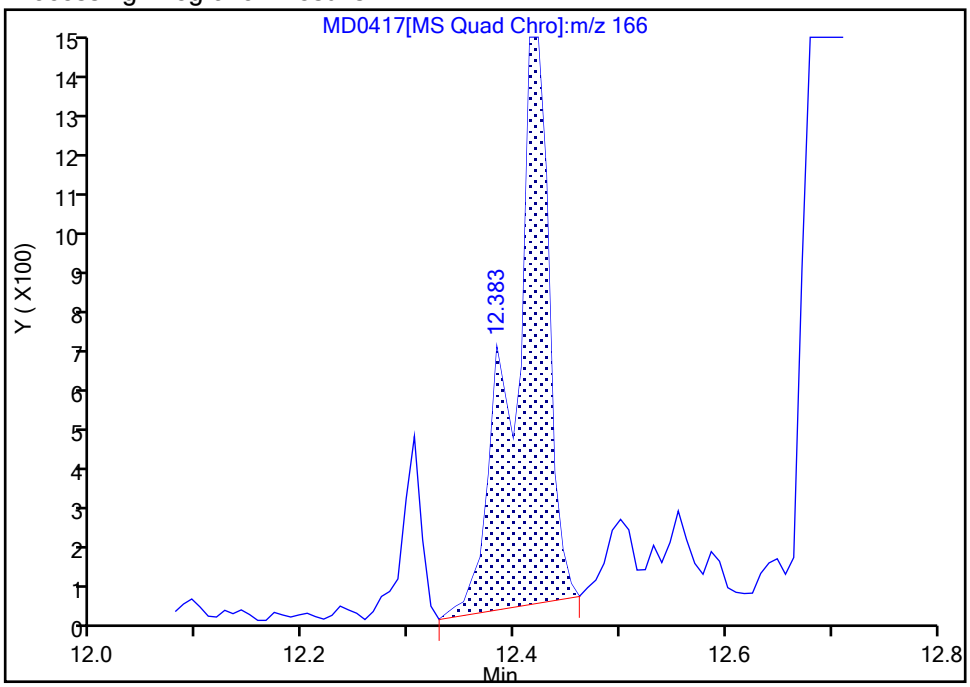
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D				
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6		
Client ID:	MW-14S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

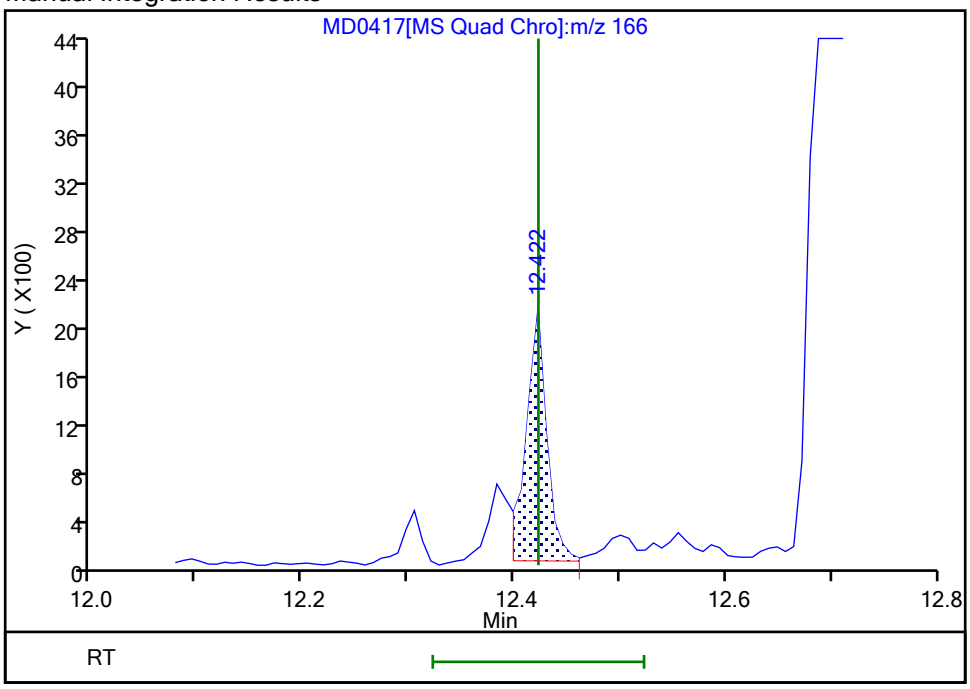
Processing Integration Results

RT: 12.38
Area: 3554
Amount: 0.009990
Amount Units: ug/ml



Manual Integration Results

RT: 12.42
Area: 2678
Amount: 0.007527
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:58:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

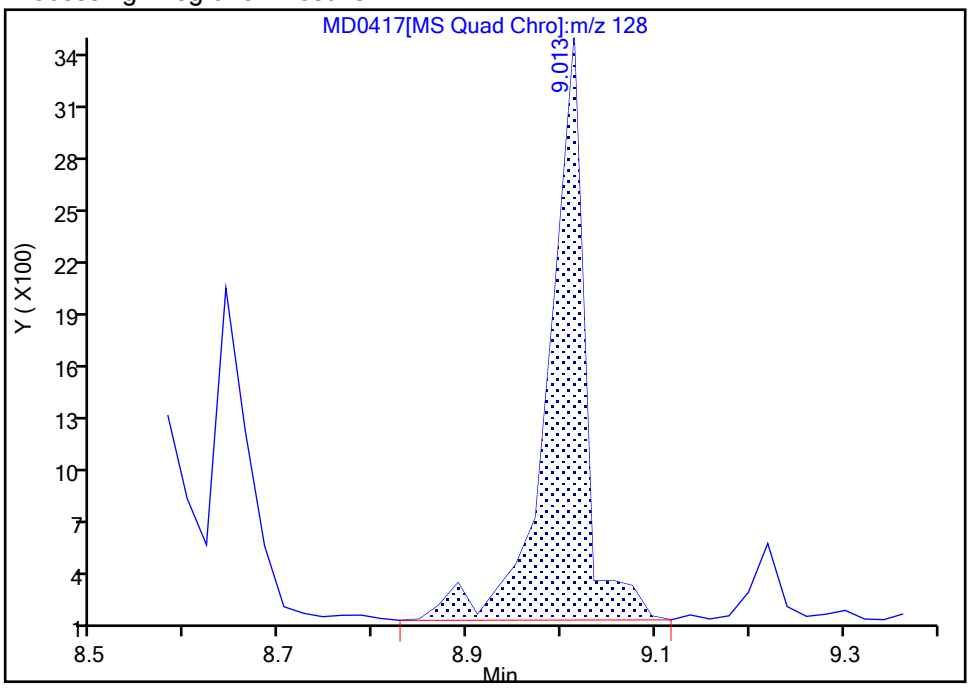
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D				
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6		
Client ID:	MW-14S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

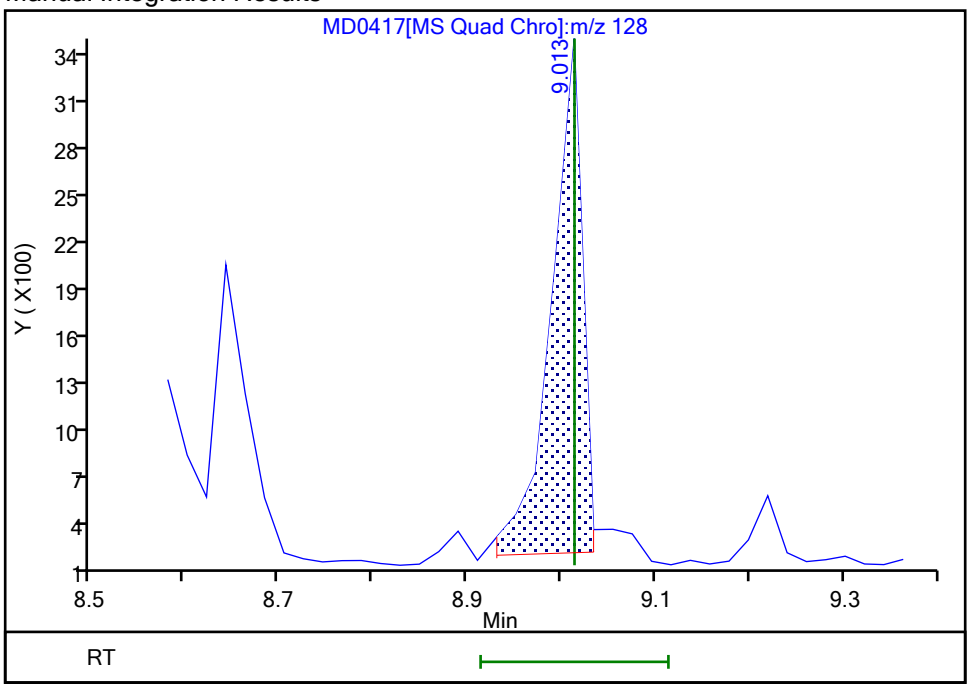
Processing Integration Results

RT: 9.01
Area: 9005
Amount: 0.020022
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 7352
Amount: 0.016347
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:58:21

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

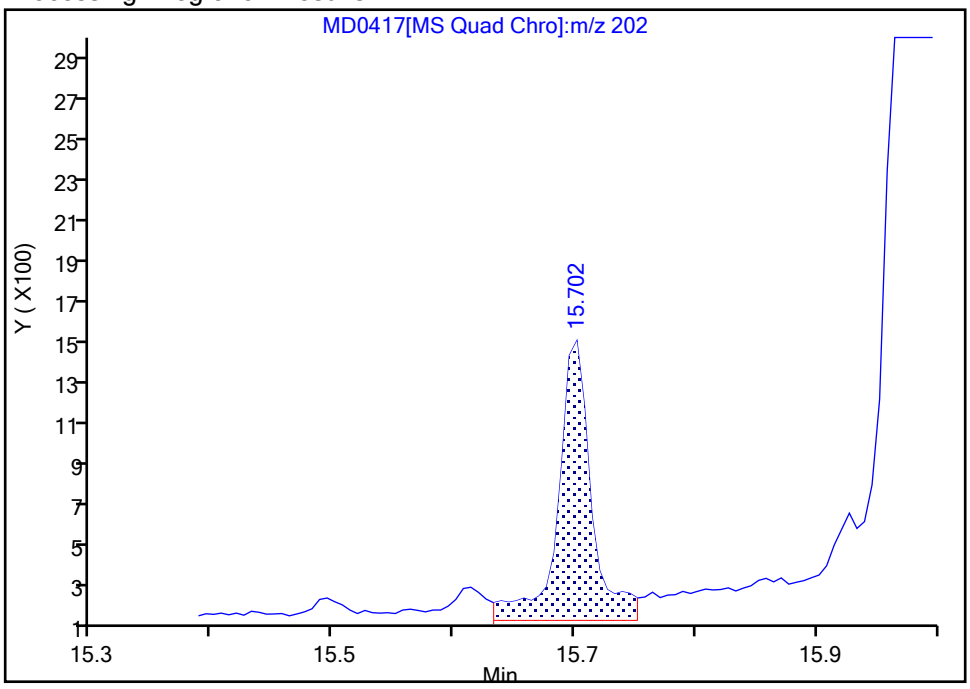
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0417.D		
Injection Date:	08-Apr-2021 04:40:46	Instrument ID:	HP21585
Lims ID:	410-34553-D-6-A	Lab Sample ID:	410-34553-6
Client ID:	MW-14S-20210331		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	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

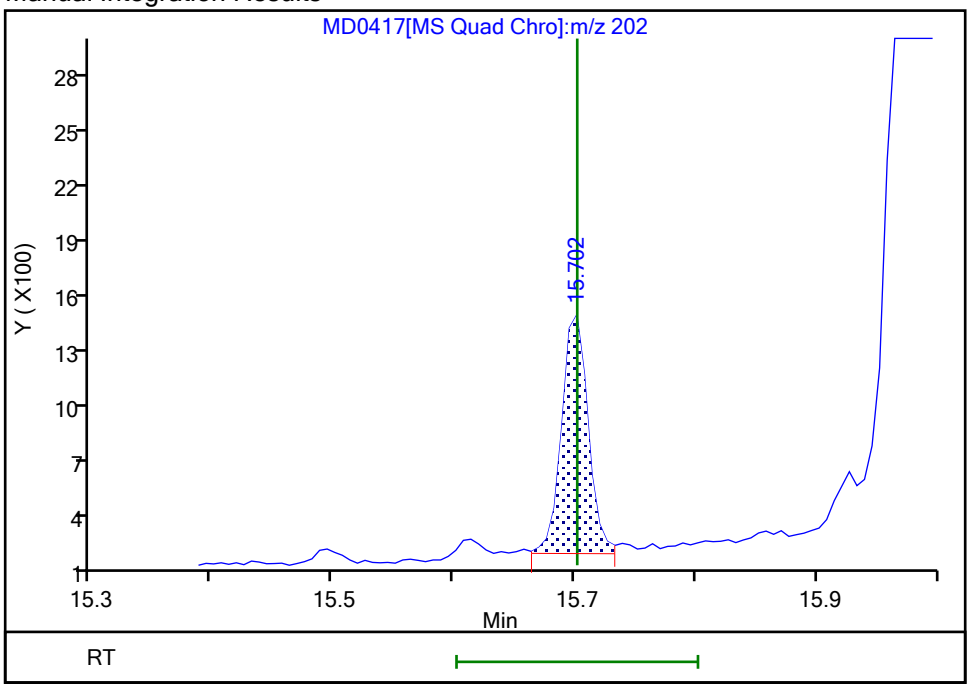
Processing Integration Results

RT: 15.70
Area: 2589
Amount: 0.003506
Amount Units: ug/ml



Manual Integration Results

RT: 15.70
Area: 1919
Amount: 0.002599
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:58:56

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-14D-20210331 Lab Sample ID: 410-34553-7

Matrix: Groundwater Lab File ID: MD0418.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 17:43

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 05:11

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.: 111994 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)	47		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		49-115
93951-69-0	Fluoranthene-d10 (Surr)	91		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0418.D				
Lims ID:	410-34553-D-7-A				
Client ID:	MW-14D-20210331				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 05:11:11	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-7-A				
Misc. Info.:	410-0026113-019				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 06:17:36	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1632				
First Level Reviewer: gamblerj		Date:	08-Apr-2021 05:59:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.077	7.076	0.001	90	30365	0.2500	
* 5 Naphthalene-d8	136	8.973	8.973	0.000	94	116580	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	100	42066	0.1693	
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	98	64607	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	98	124304	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	98	108430	0.2263	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	131772	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	64829	0.1172	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	158853	0.2500	

QC Flag Legend

Processing Flags

Reagents:

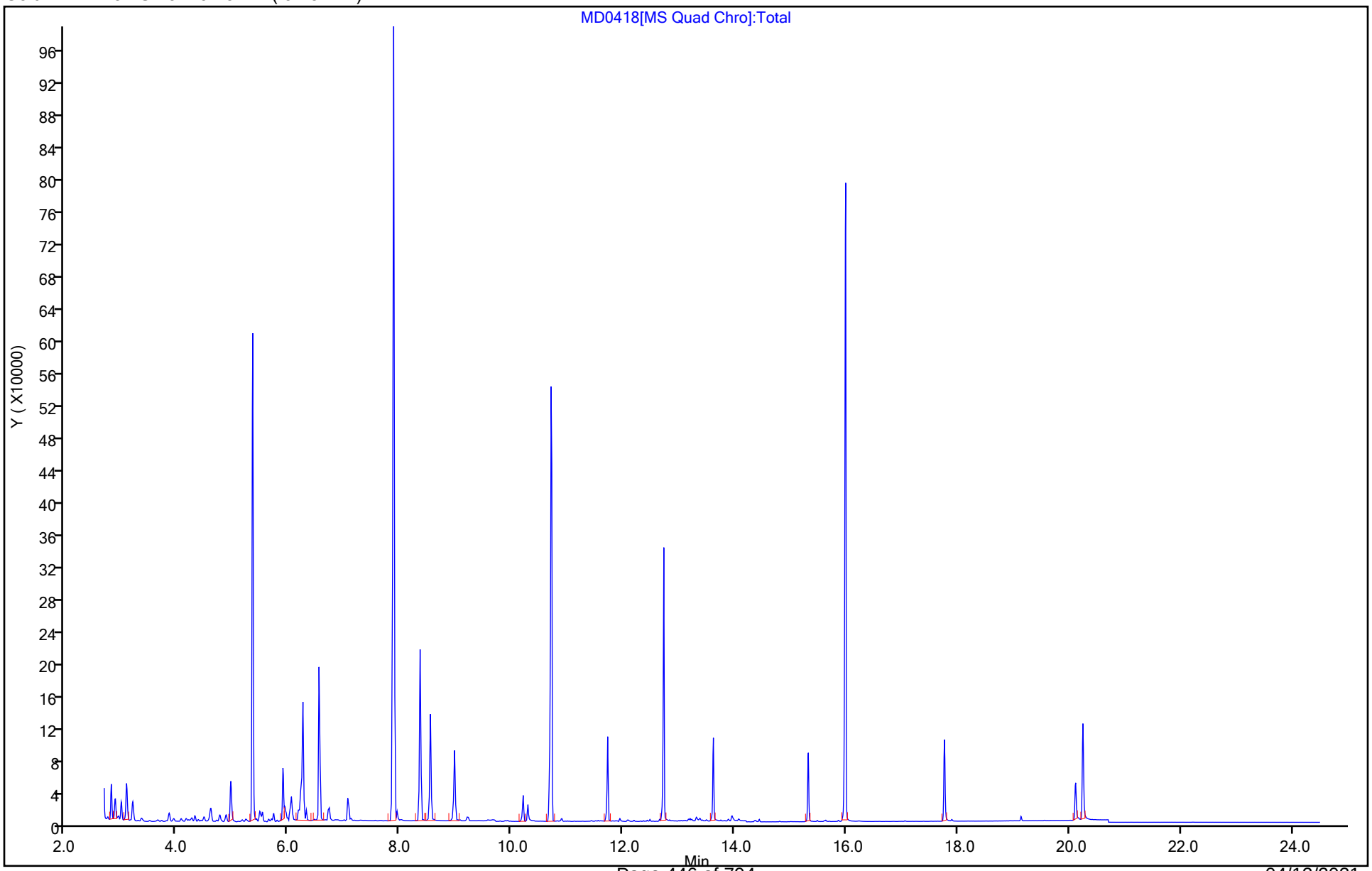
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 06:18:09 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0418.D				
Injection Date:	08-Apr-2021 05:11:11	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-7-A	Lab Sample ID:	410-34553-7	Worklist Smp#:	19
Client ID:	MW-14D-20210331				
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)



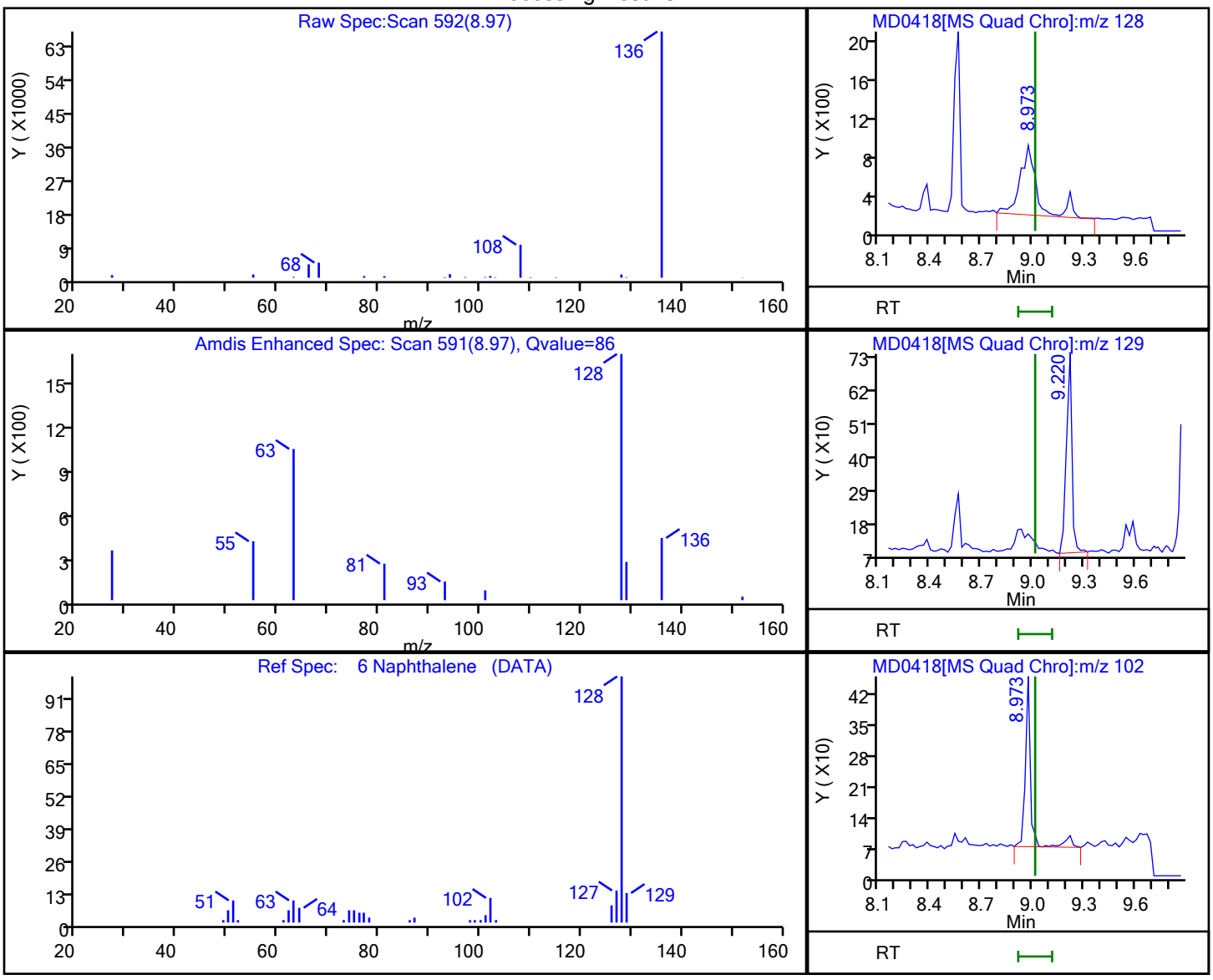
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0418.D				
Injection Date:	08-Apr-2021 05:11:11	Instrument ID:	HP21585		
Lims ID:	410-34553-D-7-A	Lab Sample ID:	410-34553-7		
Client ID:	MW-14D-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	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
8.97	128.00	4901	0.010495
9.22	129.00	1505	
8.97	102.00	859	

Reviewer: gamblerj, 08-Apr-2021 05:59:44

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-8S-20210401 Lab Sample ID: 410-34553-8

Matrix: Groundwater Lab File ID: MD0419.D

Analysis Method: 8270D SIM Date Collected: 04/01/2021 11:20

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 05:41

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.: 111994 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.11		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)	71		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		49-115
93951-69-0	Fluoranthene-d10 (Surr)	81		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0419.D				
Lims ID:	410-34553-D-8-A				
Client ID:	MW-8S-20210401				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 05:41:40	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-8-A				
Misc. Info.:	410-0026113-020				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 06:17:36	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1632				
First Level Reviewer: gamblerj		Date:	08-Apr-2021 06:17:36		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	90	28795	0.2500	
* 5 Naphthalene-d8	136	8.973	8.973	0.000	92	109353	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	100	39587	0.1699	
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	97	60822	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	91	7912	0.0278	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	95	114893	0.2500	
22 Anthracene	178	13.718	13.718	0.000	98	385	0.000824	7M
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	99	89353	0.2018	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	117906	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	94029	0.1781	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	151652	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

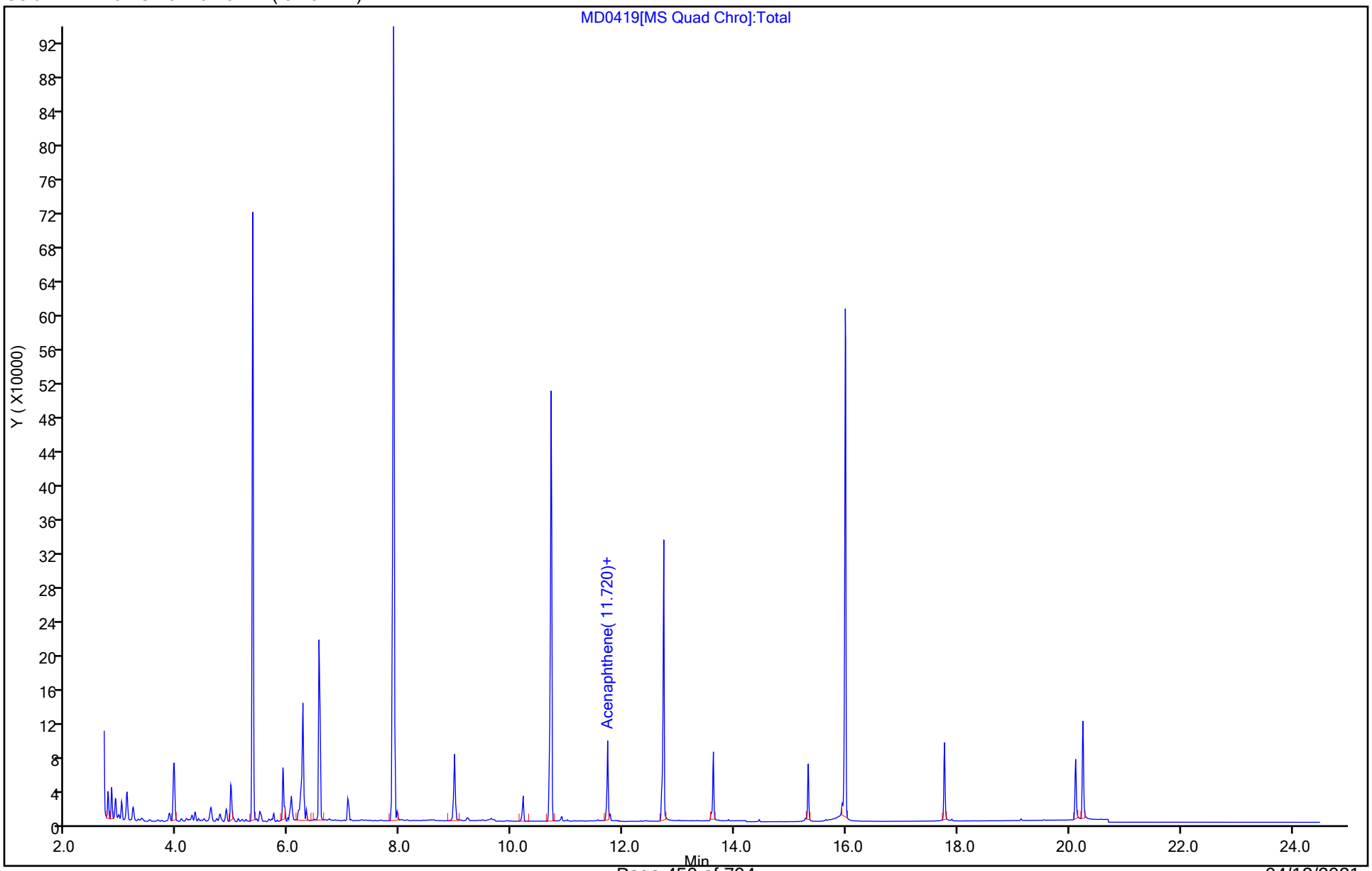
Report Date: 08-Apr-2021 06:18:10 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0419.D

Injection Date:	08-Apr-2021 05:41:40	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-8-A	Lab Sample ID:	410-34553-8	Worklist Smp#:	20
Client ID:	MW-8S-20210401				
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)



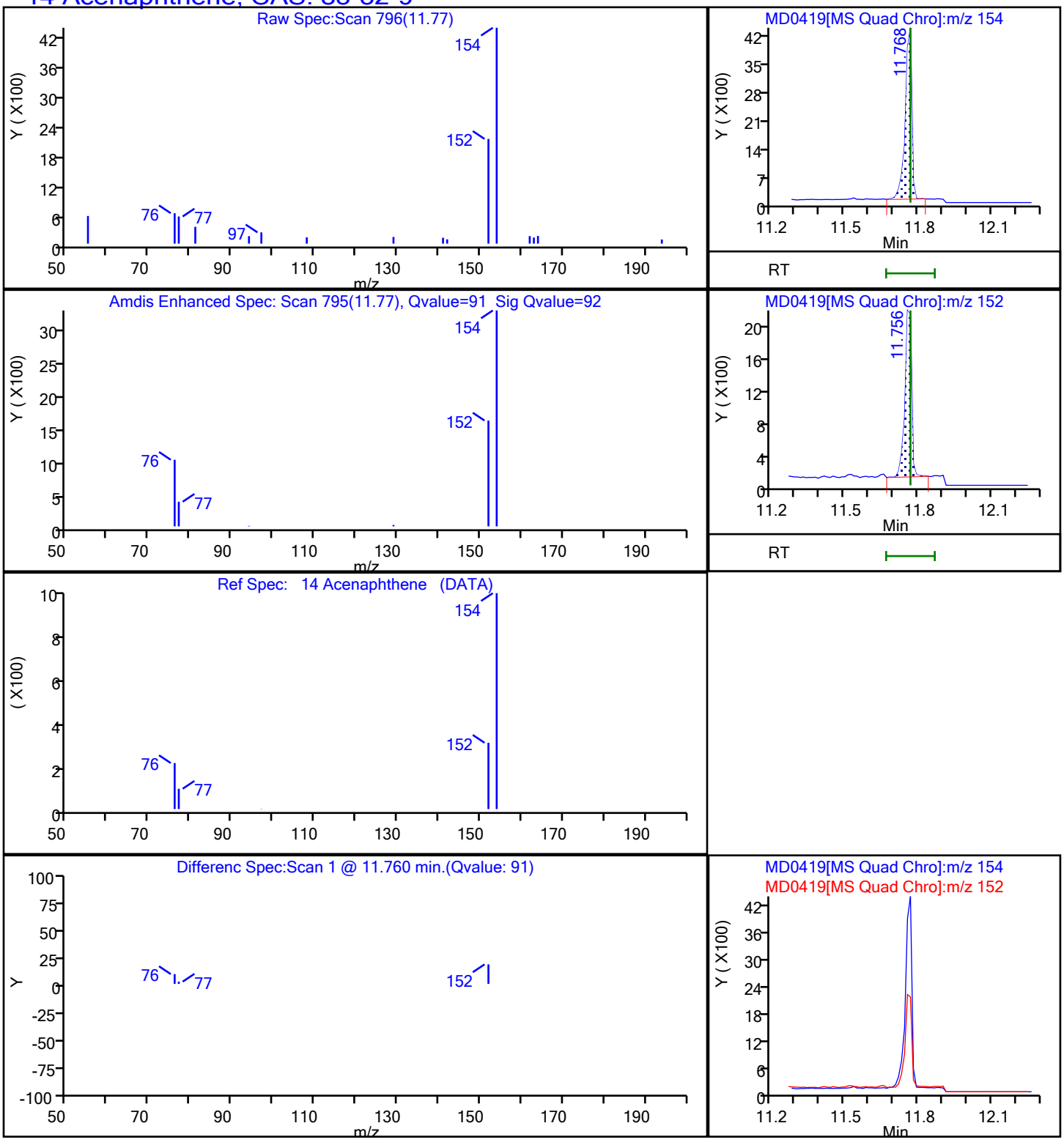
Report Date: 08-Apr-2021 06:18:10 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0419.D

Injection Date:	08-Apr-2021 05:41:40	Instrument ID:	HP21585		
Lims ID:	410-34553-D-8-A	Lab Sample ID:	410-34553-8		
Client ID:	MW-8S-20210401				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

14 Acenaphthene, CAS: 83-32-9



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

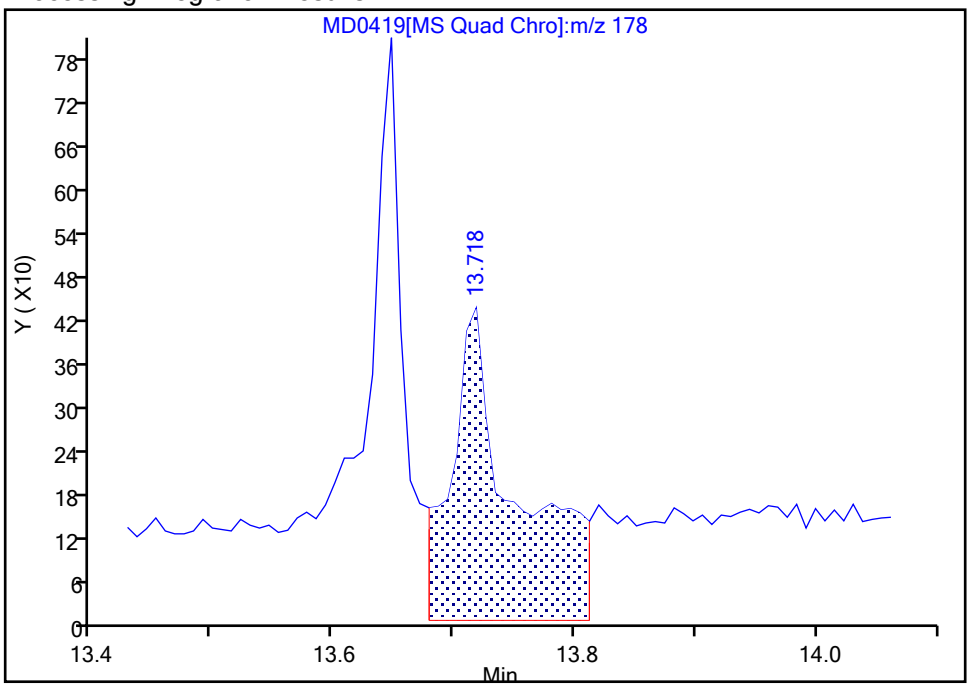
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0419.D				
Injection Date:	08-Apr-2021 05:41:40	Instrument ID:	HP21585		
Lims ID:	410-34553-D-8-A	Lab Sample ID:	410-34553-8		
Client ID:	MW-8S-20210401				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

22 Anthracene, CAS: 120-12-7

Signal: 1

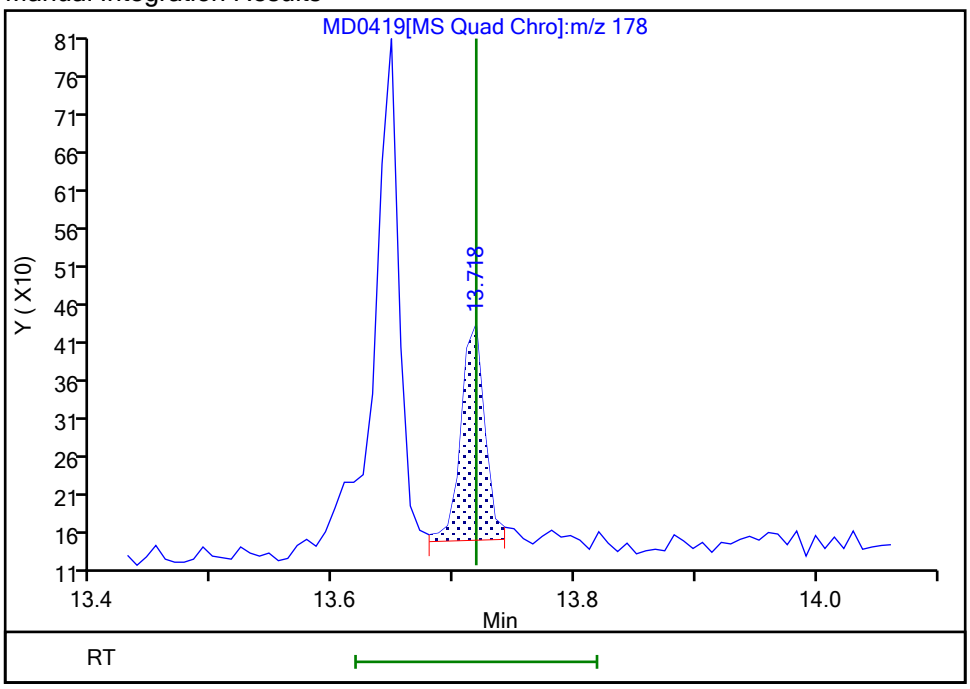
Processing Integration Results

RT: 13.72
Area: 1590
Amount: 0.003404
Amount Units: ug/ml



Manual Integration Results

RT: 13.72
Area: 385
Amount: 0.000824
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 06:17:29
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.: 410-34553-1

SDG No.:

Client Sample ID: MW-8D-20210401 Lab Sample ID: 410-34553-9

Matrix: Groundwater Lab File ID: MD0458.D

Analysis Method: 8270D SIM Date Collected: 04/01/2021 11:59

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 10:54

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.: 112126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	ND		0.050	0.010
208-96-8	Acenaphthylene	ND		0.050	0.010
120-12-7	Anthracene	ND		0.050	0.010
56-55-3	Benzo[a]anthracene	ND		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	ND		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	ND		0.050	0.010
218-01-9	Chrysene	ND		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	ND		0.050	0.010
86-73-7	Fluorene	ND		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	0.043	J	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)	54		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	53		49-115
93951-69-0	Fluoranthene-d10 (Surr)	66		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0458.D
Lims ID: 410-34553-D-9-A
Client ID: MW-8D-20210401
Sample Type: Client
Inject. Date: 08-Apr-2021 10:54:30 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-9-A
Misc. Info.: 410-0026143-009
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 10:11:50 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	91	29544	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	91	111147	0.2500	
6 Naphthalene	128	9.013	9.013	-0.001	93	4777	0.0107	M
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	100	31111	0.1314	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	98	62878	0.2500	
* 20 Phenanthrene-d10	188	13.616	13.617	0.000	95	118888	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	98	75779	0.1654	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	120830	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	0.000	99	74198	0.1357	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	157010	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

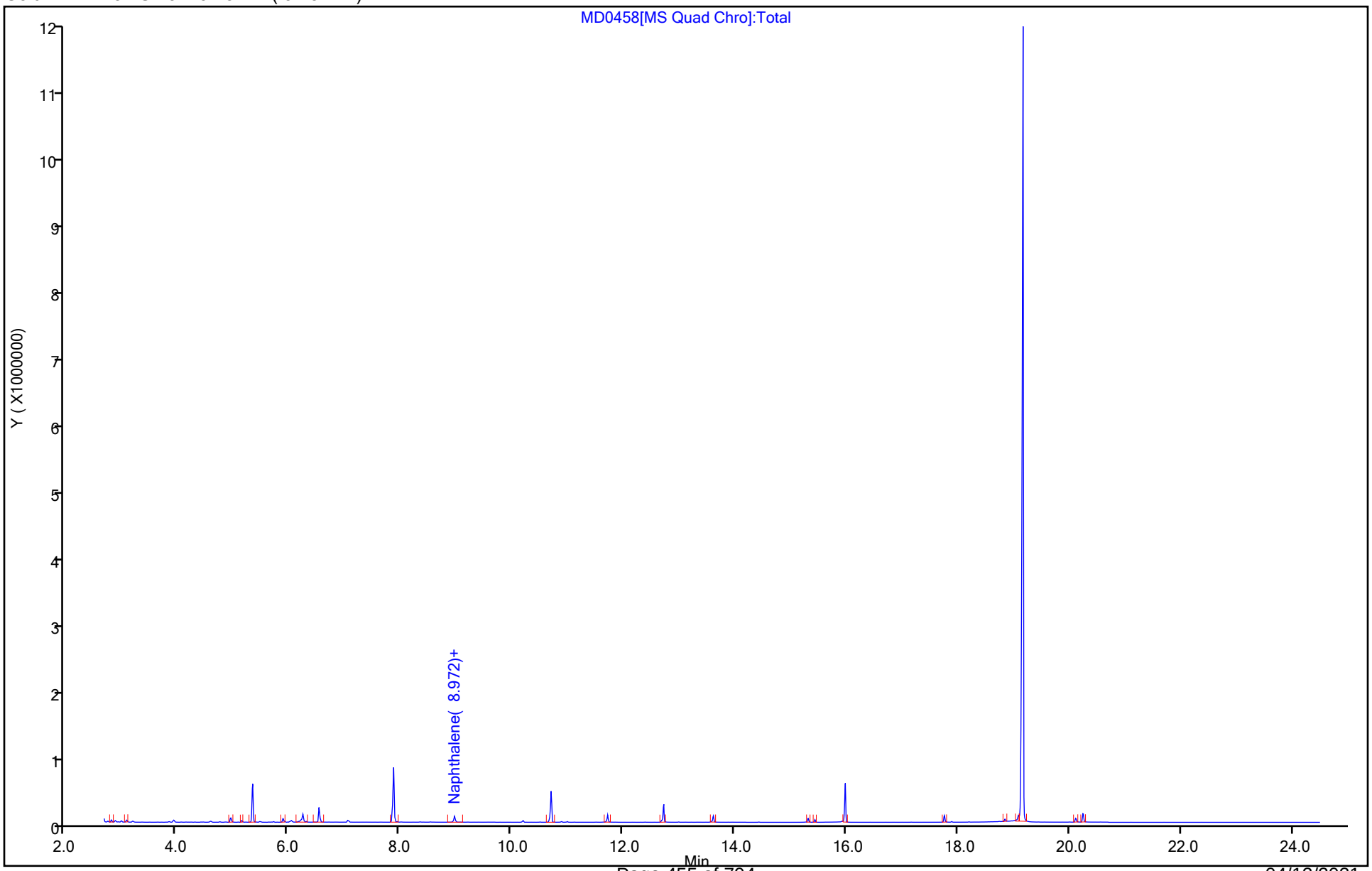
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Apr-2021 10:11:50 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0458.D				
Injection Date:	08-Apr-2021 10:54:30	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-9-A	Lab Sample ID:	410-34553-9	Worklist Smp#:	9
Client ID:	MW-8D-20210401				
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)



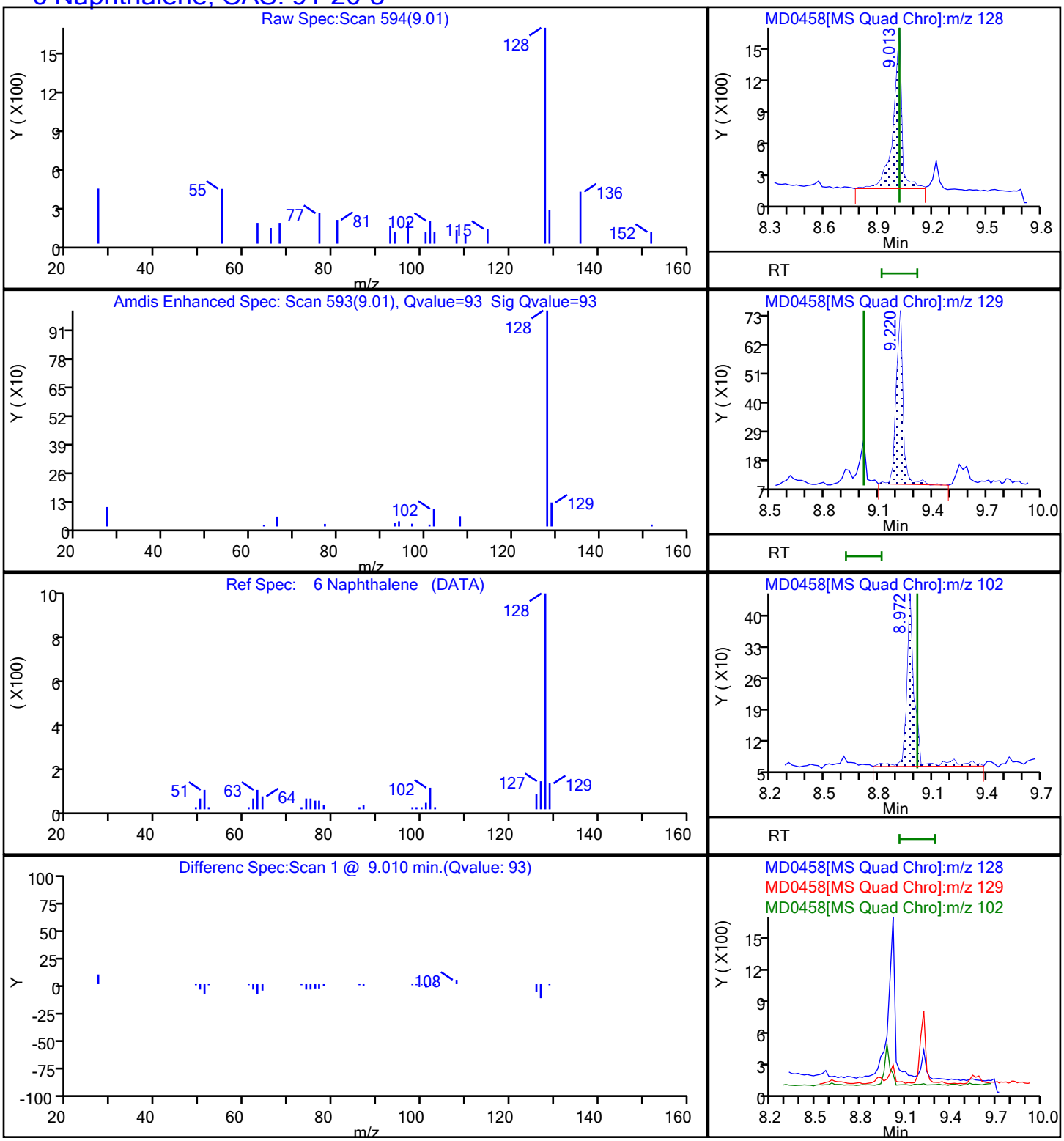
Report Date: 09-Apr-2021 10:11:50 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0458.D

Injection Date:	08-Apr-2021 10:54:30	Instrument ID:	HP21585
Lims ID:	410-34553-D-9-A	Lab Sample ID:	410-34553-9
Client ID:	MW-8D-20210401		
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

6 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

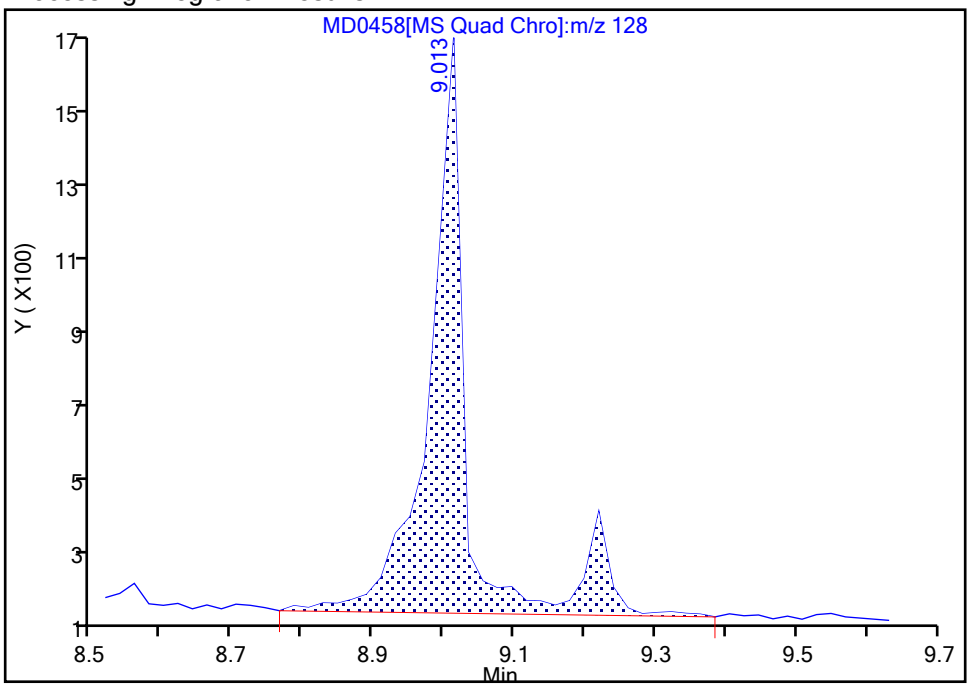
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0458.D				
Injection Date:	08-Apr-2021 10:54:30	Instrument ID:	HP21585		
Lims ID:	410-34553-D-9-A	Lab Sample ID:	410-34553-9		
Client ID:	MW-8D-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	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		

6 Naphthalene, CAS: 91-20-3

Signal: 1

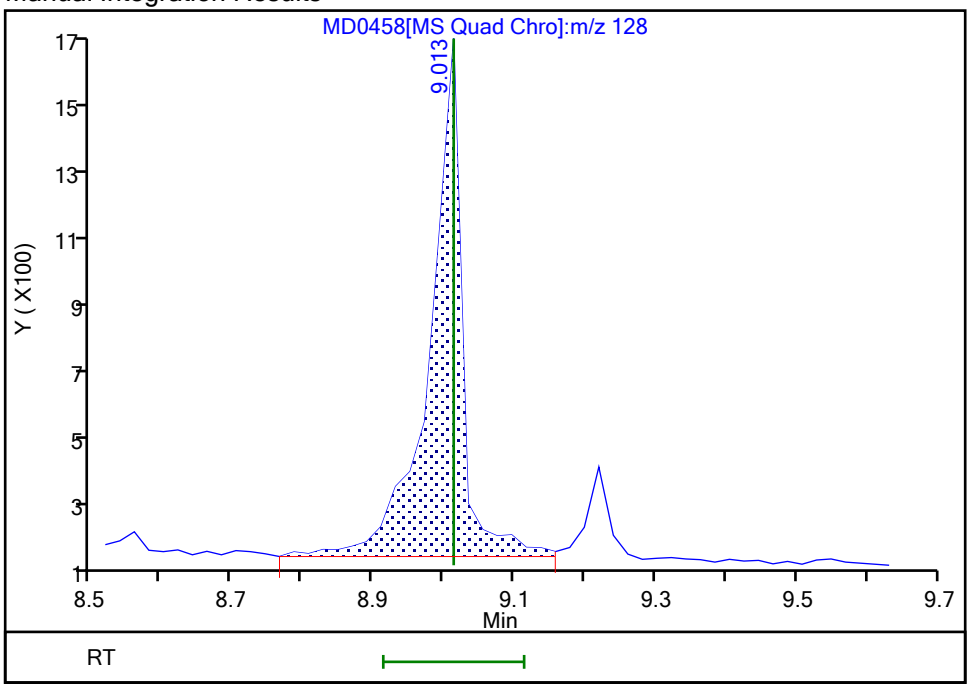
Processing Integration Results

RT: 9.01
Area: 5571
Amount: 0.012513
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 4777
Amount: 0.010729
Amount Units: ug/ml



Reviewer: bauera, 09-Apr-2021 10:11:36

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-12S-20210401 Lab Sample ID: 410-34553-10

Matrix: Groundwater Lab File ID: MD0459.D

Analysis Method: 8270D SIM Date Collected: 04/01/2021 13:31

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 11:55

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.: 112126 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	0.012	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	54		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	70		49-115
93951-69-0	Fluoranthene-d10 (Surr)	92		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0459.D				
Lims ID:	410-34553-D-10-A				
Client ID:	MW-12S-20210401				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 11:55:20	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-10-A				
Misc. Info.:	410-0026143-010				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 19:22:22	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1638				
First Level Reviewer: transuea		Date:	08-Apr-2021 17:42:22		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	90	28464	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	91	109946	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	100	41245	0.1760	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	97	60432	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	95	117567	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	100	104642	0.2309	
26 Pyrene	202	15.702	15.702	0.000	98	2030	0.002892	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	122261	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.109	20.117	-0.007	99	69827	0.1344	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	149259	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

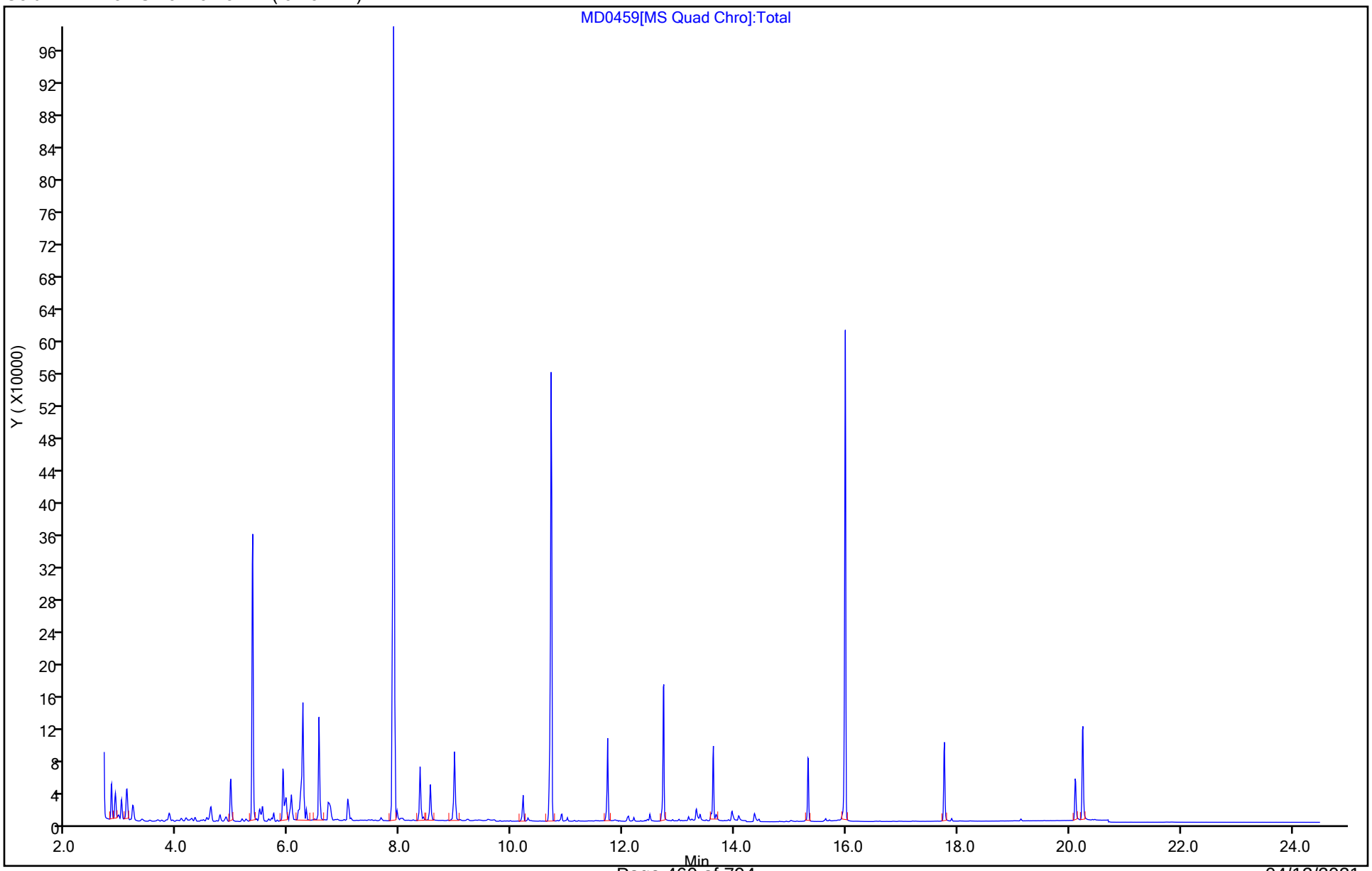
Report Date: 08-Apr-2021 19:23:27 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0459.D

Injection Date:	08-Apr-2021 11:55:20	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-10-A	Lab Sample ID:	410-34553-10	Worklist Smp#:	10
Client ID:	MW-12S-20210401				
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)



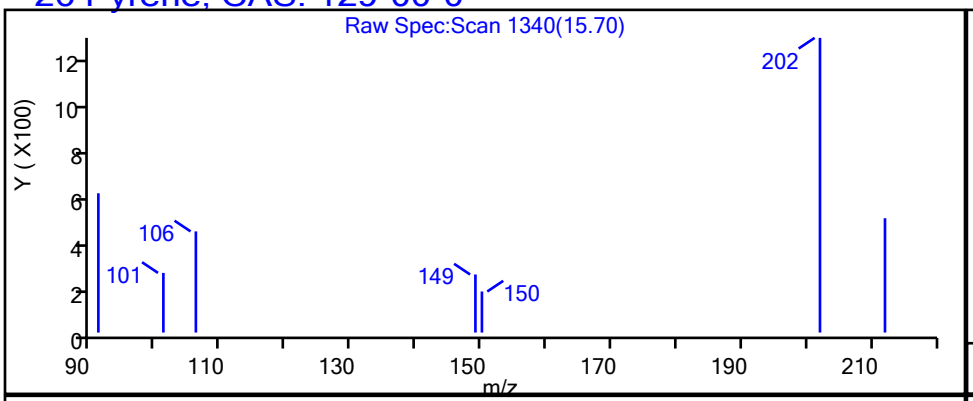
Report Date: 08-Apr-2021 19:23:27 Chrom Revision: 2.3 19-Mar-2021 08:24:58

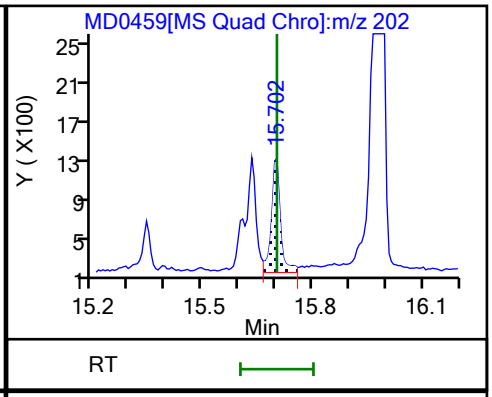
Eurofins Lancaster Laboratories Env, LLC

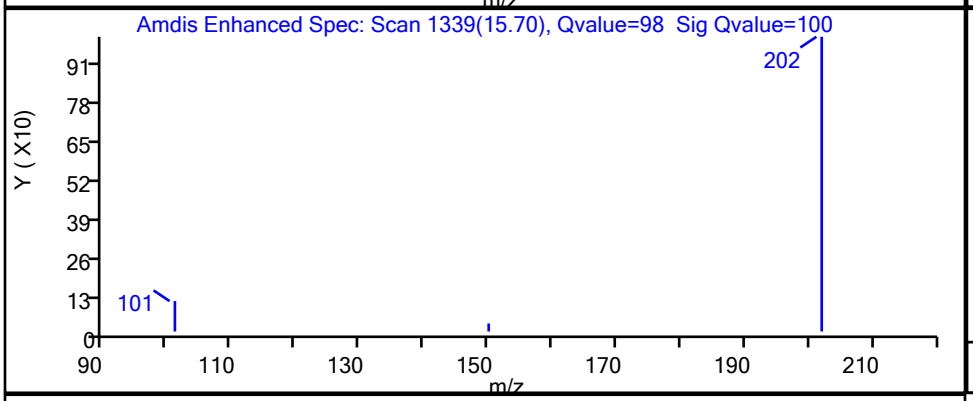
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0459.D

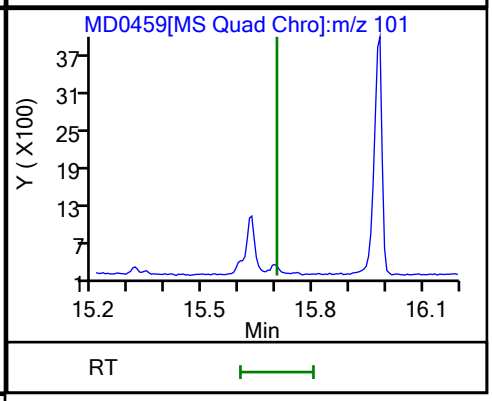
Injection Date:	08-Apr-2021 11:55:20	Instrument ID:	HP21585
Lims ID:	410-34553-D-10-A	Lab Sample ID:	410-34553-10
Client ID:	MW-12S-20210401		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

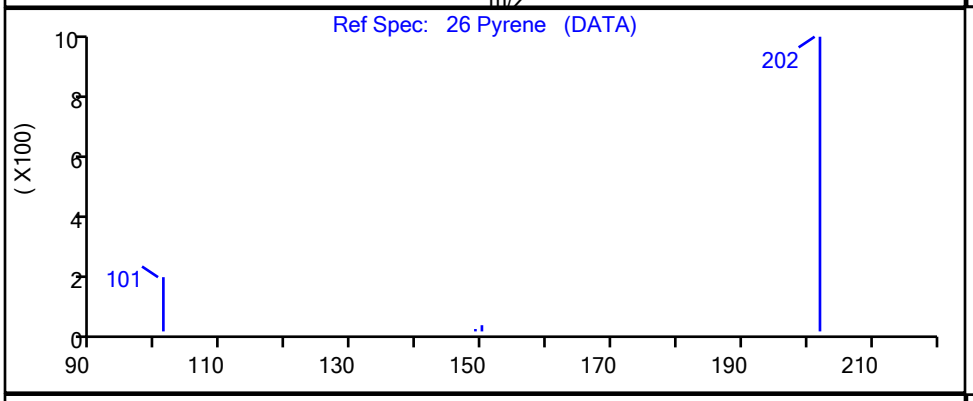
26 Pyrene, CAS: 129-00-0

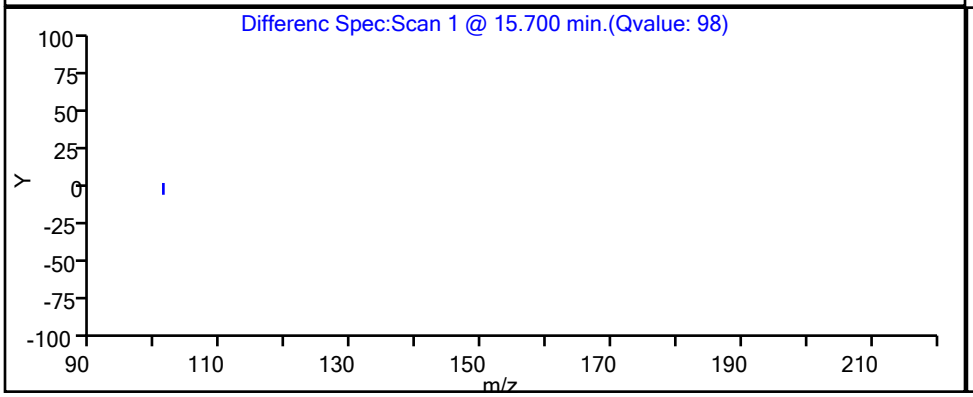


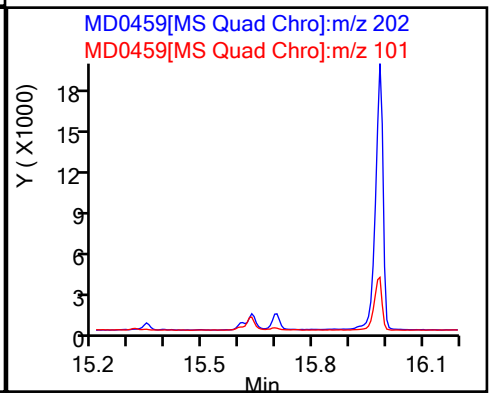












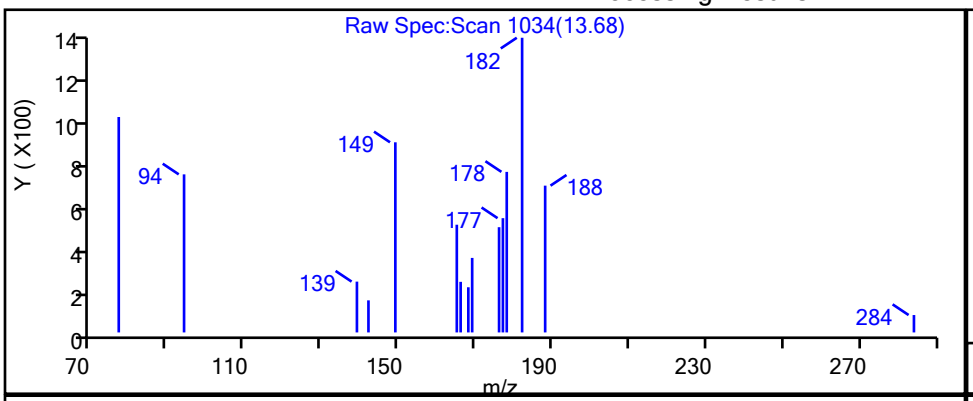
User Disabled Compound Report

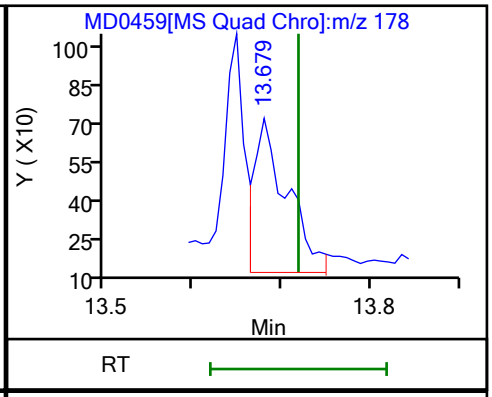
Eurofins Lancaster Laboratories Env, LLC

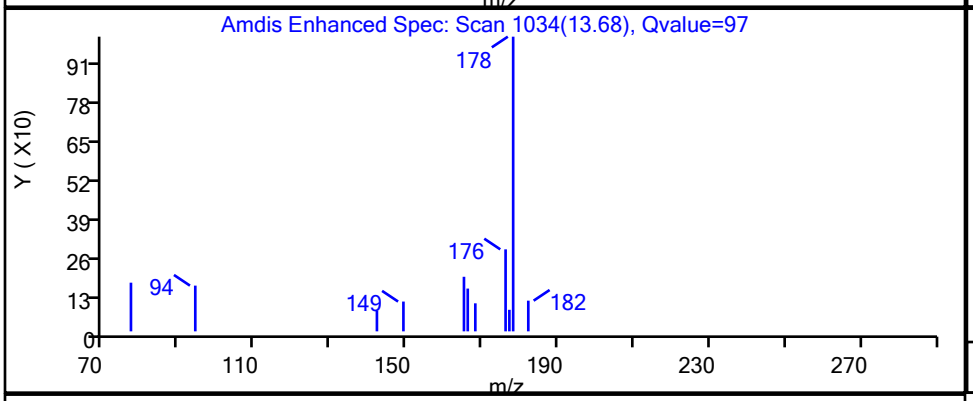
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0459.D				
Injection Date:	08-Apr-2021 11:55:20	Instrument ID:	HP21585		
Lims ID:	410-34553-D-10-A	Lab Sample ID:	410-34553-10		
Client ID:	MW-12S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

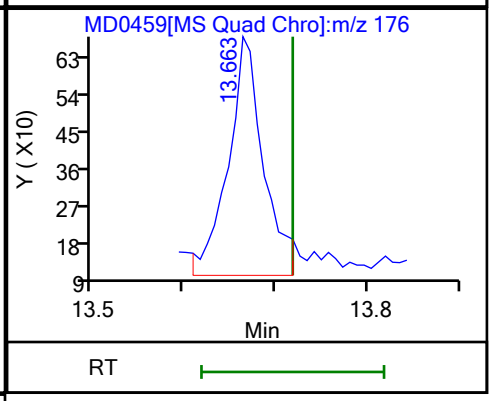
22 Anthracene, CAS: 120-12-7

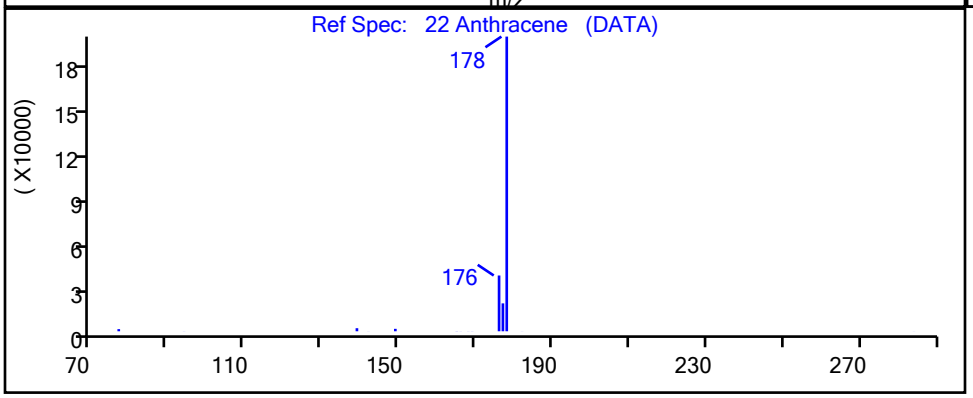
Processing Results











RT	Mass	Response	Amount
13.68	178.00	1518	0.003176
13.66	176.00	1541	

Reviewer: transuea, 08-Apr-2021 17:42:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

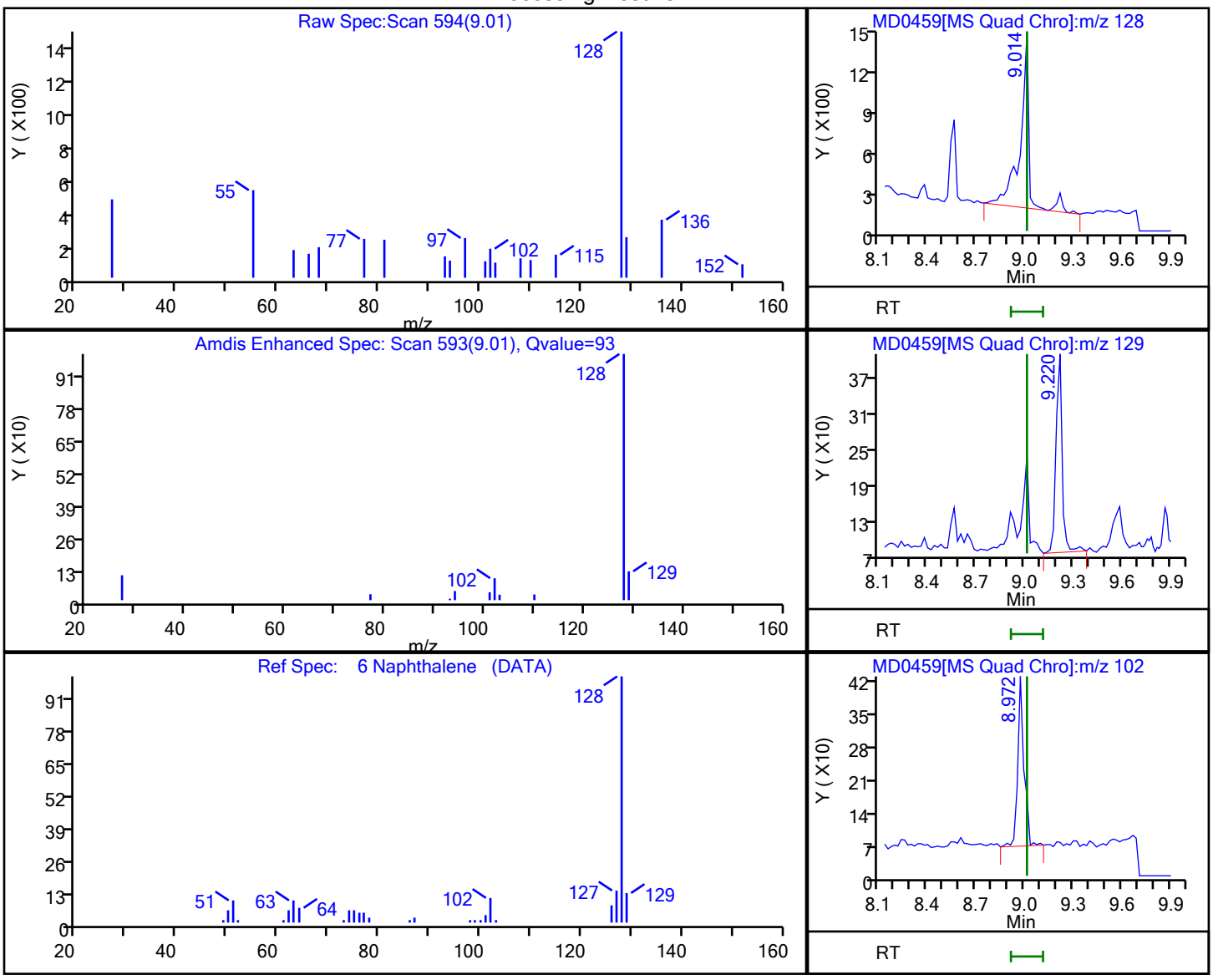
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0459.D				
Injection Date:	08-Apr-2021 11:55:20	Instrument ID:	HP21585		
Lims ID:	410-34553-D-10-A	Lab Sample ID:	410-34553-10		
Client ID:	MW-12S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	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
9.01	128.00	4970	0.011285
9.22	129.00	873	
8.97	102.00	990	

Reviewer: transuea, 08-Apr-2021 17:41:54

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-12D-20210401 Lab Sample ID: 410-34553-11

Matrix: Groundwater Lab File ID: MD0460.D

Analysis Method: 8270D SIM Date Collected: 04/01/2021 14:09

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 13:26

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.: 112126 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)	46		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	63		49-115
93951-69-0	Fluoranthene-d10 (Surr)	93		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0460.D				
Lims ID:	410-34553-D-11-A				
Client ID:	MW-12D-20210401				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 13:26:46	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-11-A				
Misc. Info.:	410-0026143-011				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 19:22:22	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1638				
First Level Reviewer: transuea		Date:	08-Apr-2021 17:42:46		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	95	27117	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	91	102791	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	100	34539	0.1577	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	98	55716	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	98	108175	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.313	15.320	-0.006	100	97068	0.2328	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	118657	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	0.000	99	56704	0.1147	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	141946	0.2500	

QC Flag Legend

Processing Flags

Reagents:

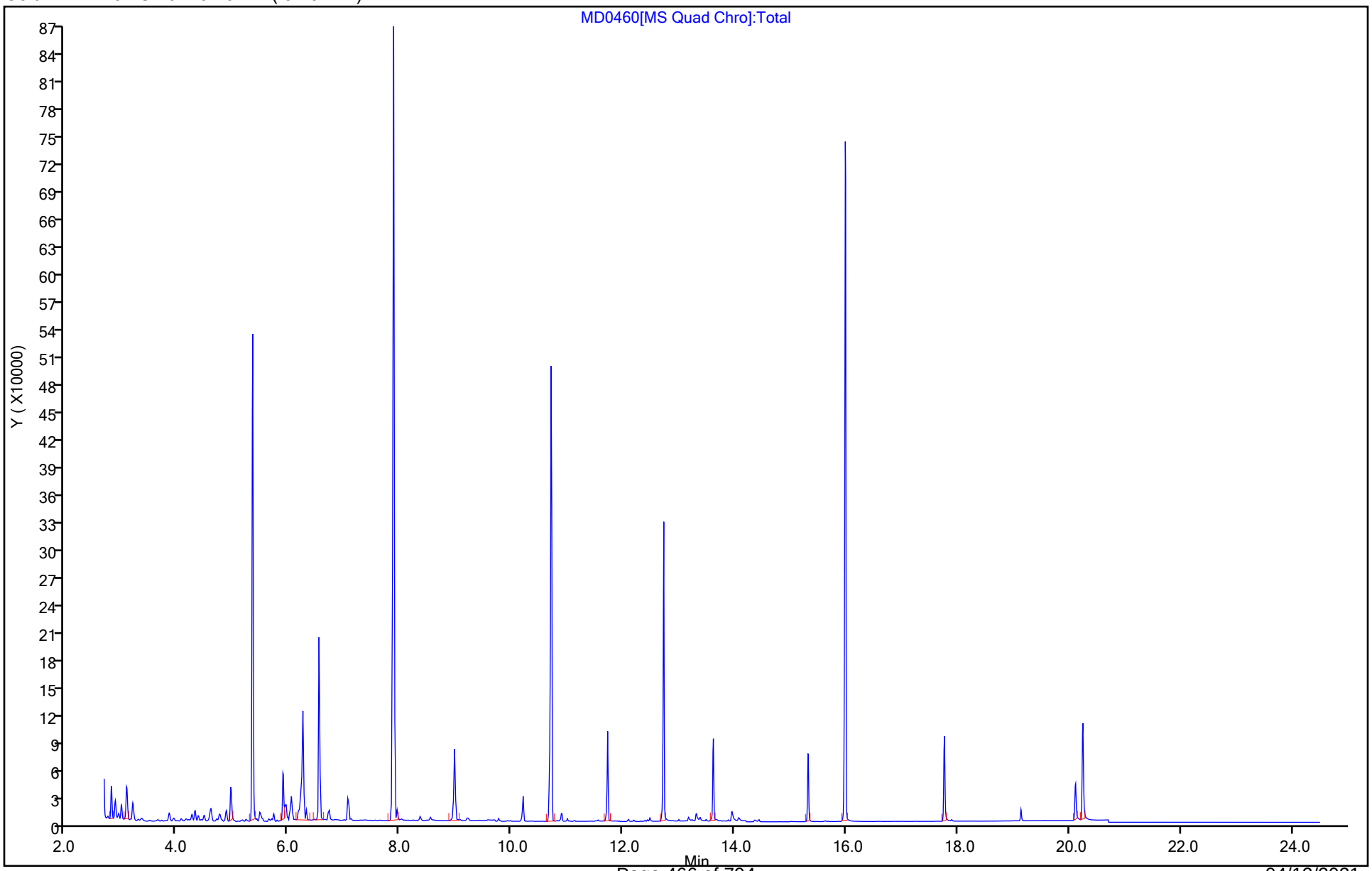
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 19:23:28 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0460.D				
Injection Date:	08-Apr-2021 13:26:46	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-11-A	Lab Sample ID:	410-34553-11	Worklist Smp#:	11
Client ID:	MW-12D-20210401				
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)



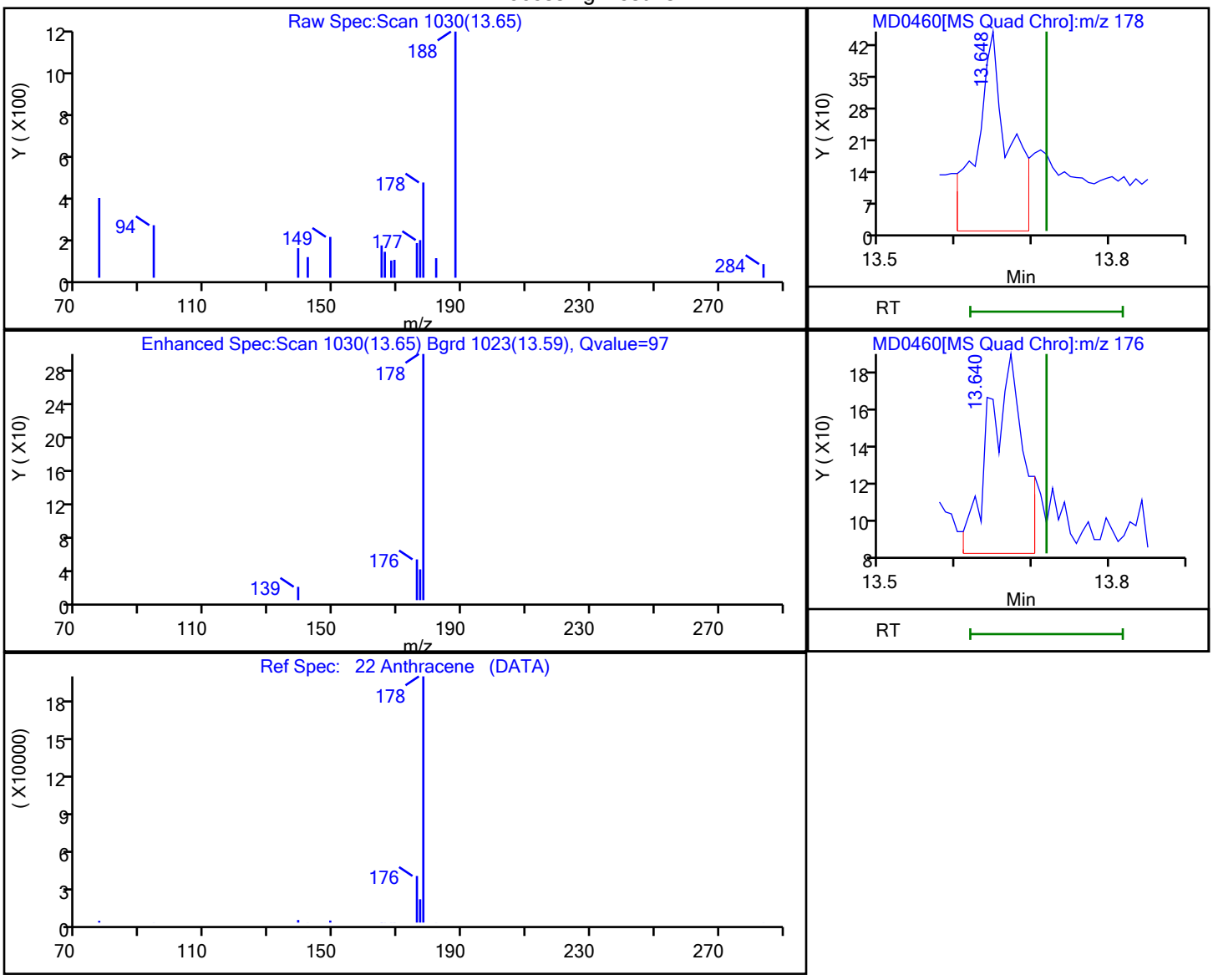
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0460.D				
Injection Date:	08-Apr-2021 13:26:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-11-A	Lab Sample ID:	410-34553-11		
Client ID:	MW-12D-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	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
13.65	178.00	1256	0.002856
13.64	176.00	303	

Reviewer: transuea, 08-Apr-2021 17:42:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

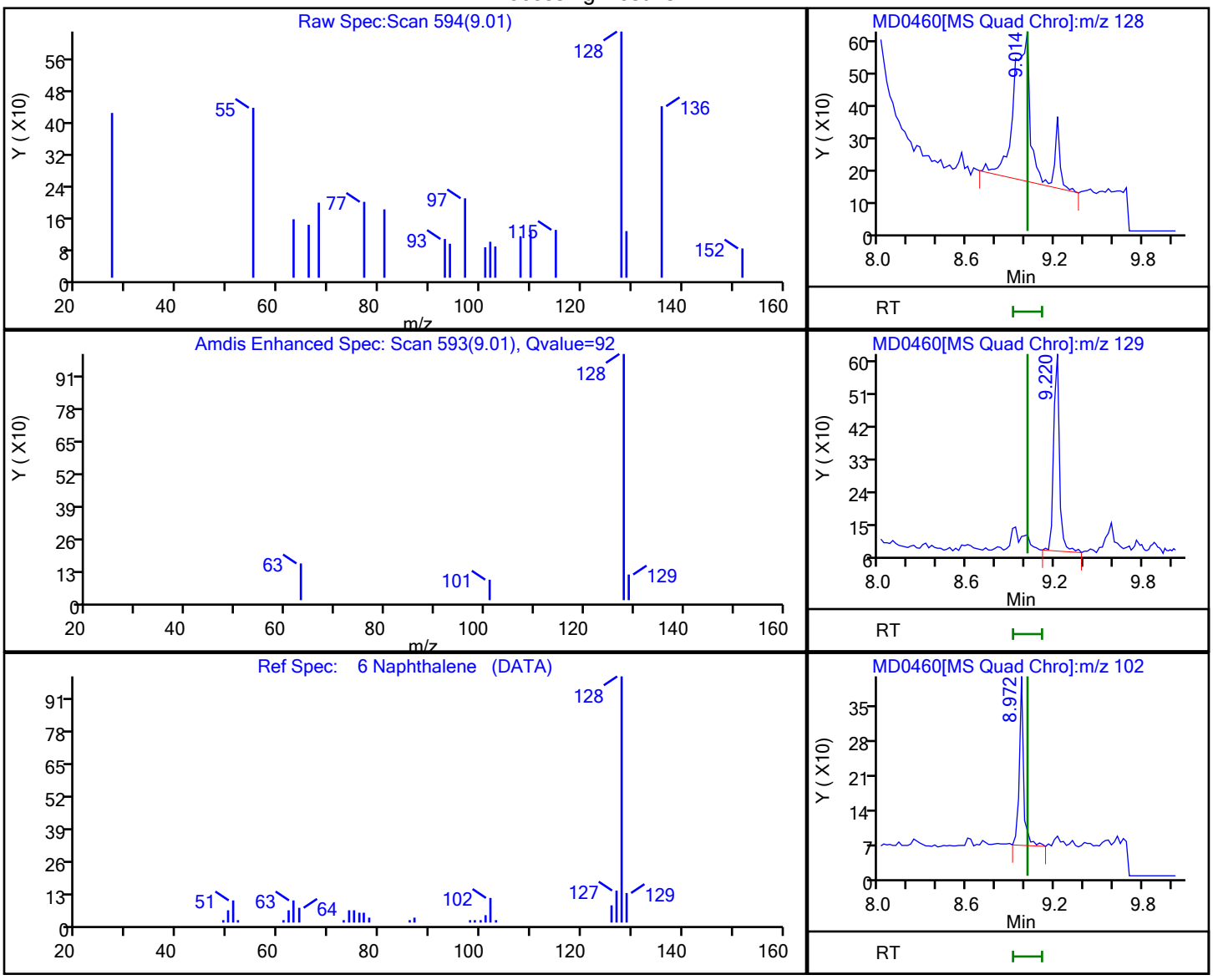
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0460.D				
Injection Date:	08-Apr-2021 13:26:46	Instrument ID:	HP21585		
Lims ID:	410-34553-D-11-A	Lab Sample ID:	410-34553-11		
Client ID:	MW-12D-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	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
9.01	128.00	4069	0.009882
9.22	129.00	1496	
8.97	102.00	702	

Reviewer: transuea, 08-Apr-2021 17:42:28

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-11S-20210401 Lab Sample ID: 410-34553-12

Matrix: Groundwater Lab File ID: MD0461.D

Analysis Method: 8270D SIM Date Collected: 04/01/2021 14:58

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 13:57

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.: 112126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	0.61		0.050	0.010
120-12-7	Anthracene	3.0		0.050	0.010
56-55-3	Benzo[a]anthracene	0.16		0.050	0.010
50-32-8	Benzo[a]pyrene	0.033	J	0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.031	J	0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.015	J	0.050	0.010
218-01-9	Chrysene	0.12		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	2.9		0.050	0.010
86-73-7	Fluorene	7.3		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
91-20-3	Naphthalene	4.4		0.070	0.030
129-00-0	Pyrene	2.3		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	86		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		49-115
93951-69-0	Fluoranthene-d10 (Surr)	106		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D				
Lims ID:	410-34553-D-12-A				
Client ID:	MW-11S-20210401				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 13:57:18	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-12-A				
Misc. Info.:	410-0026143-012				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 19:22:22	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1638				
First Level Reviewer: transuea		Date:	08-Apr-2021 17:43:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.056	7.076	-0.020	98	28182	0.2500	
* 5 Naphthalene-d8	136	8.973	8.972	0.001	91	108564	0.2500	
6 Naphthalene	128	9.014	9.013	0.000	93	481185	1.11	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.001	99	42340	0.1830	
12 Acenaphthylene	152	11.524	11.524	0.000	96	70122	0.1513	
* 13 Acenaphthene-d10	164	11.720	11.719	0.001	89	63881	0.2500	M
14 Acenaphthene	154	11.768	11.769	0.000	93	3037871	10.2	E
17 Fluorene	166	12.422	12.423	0.000	95	645368	1.83	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	98	92878	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	1562435	4.03	E
22 Anthracene	178	13.710	13.718	-0.008	100	284844	0.7544	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	99	94626	0.2643	
25 Fluoranthene	202	15.345	15.351	-0.006	100	316905	0.7338	
26 Pyrene	202	15.702	15.702	0.000	99	409298	0.5835	
28 Benzo[a]anthracene	228	17.739	17.747	-0.007	100	24259	0.0398	
* 29 Chrysene-d12	240	17.762	17.762	0.000	56	122162	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	19450	0.0311	
33 Benzo[b]fluoranthene	252	19.626	19.618	0.008	100	5479	0.007732	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	2740	0.003661	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.001	99	115096	0.2161	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	5562	0.008213	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	152927	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.979	21.978	-0.006	100	1432	0.002216	7M

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

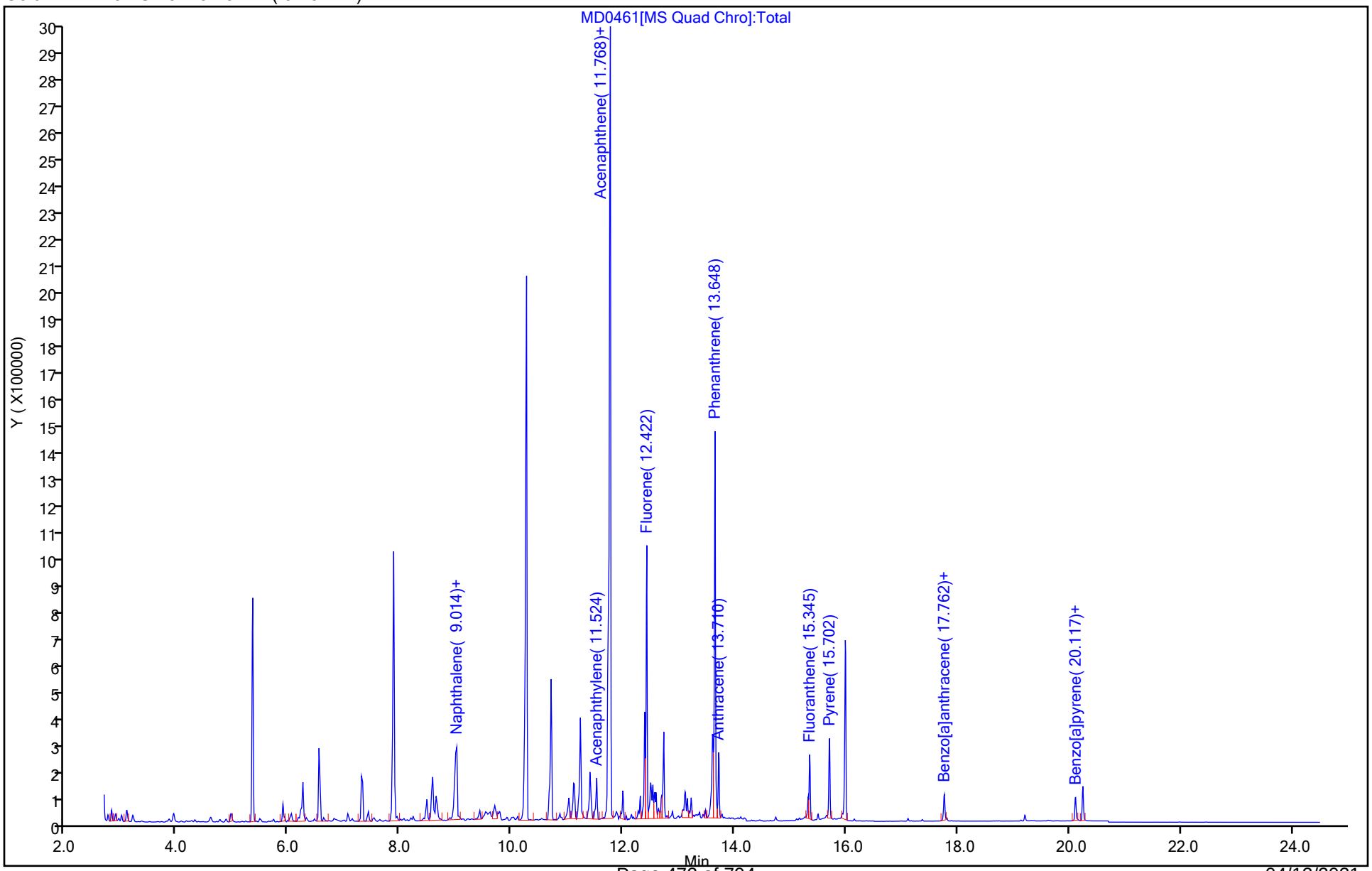
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12	Worklist Smp#:	12
Client ID:	MW-11S-20210401				
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: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

Injection Date: 08-Apr-2021 13:57:18 Instrument ID: HP21585

Lims ID: 410-34553-D-12-A Lab Sample ID: 410-34553-12

Client ID: MW-11S-20210401

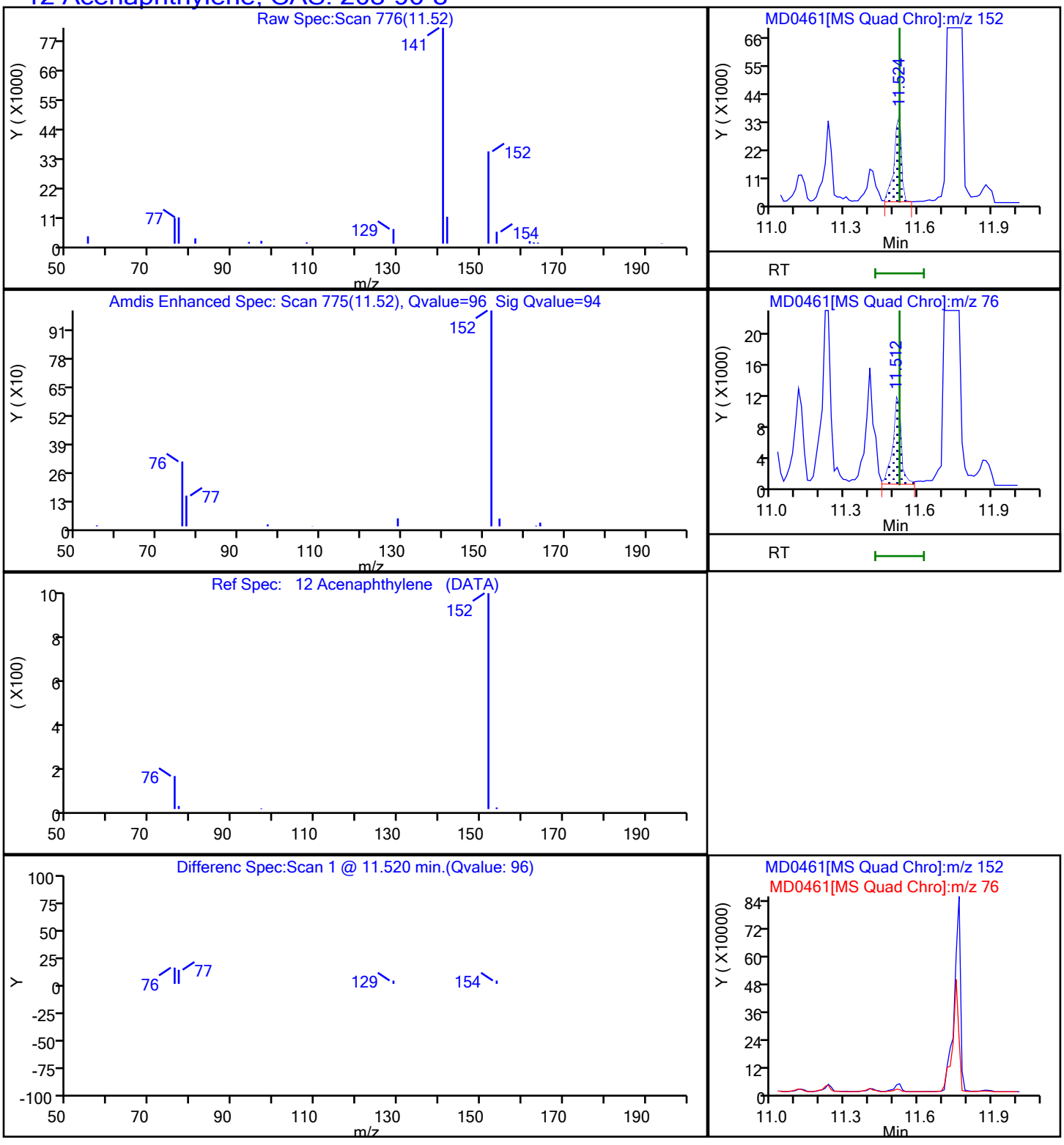
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

12 Acenaphthylene, CAS: 208-96-8



Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

Injection Date: 08-Apr-2021 13:57:18 Instrument ID: HP21585

Lims ID: 410-34553-D-12-A Lab Sample ID: 410-34553-12

Client ID: MW-11S-20210401

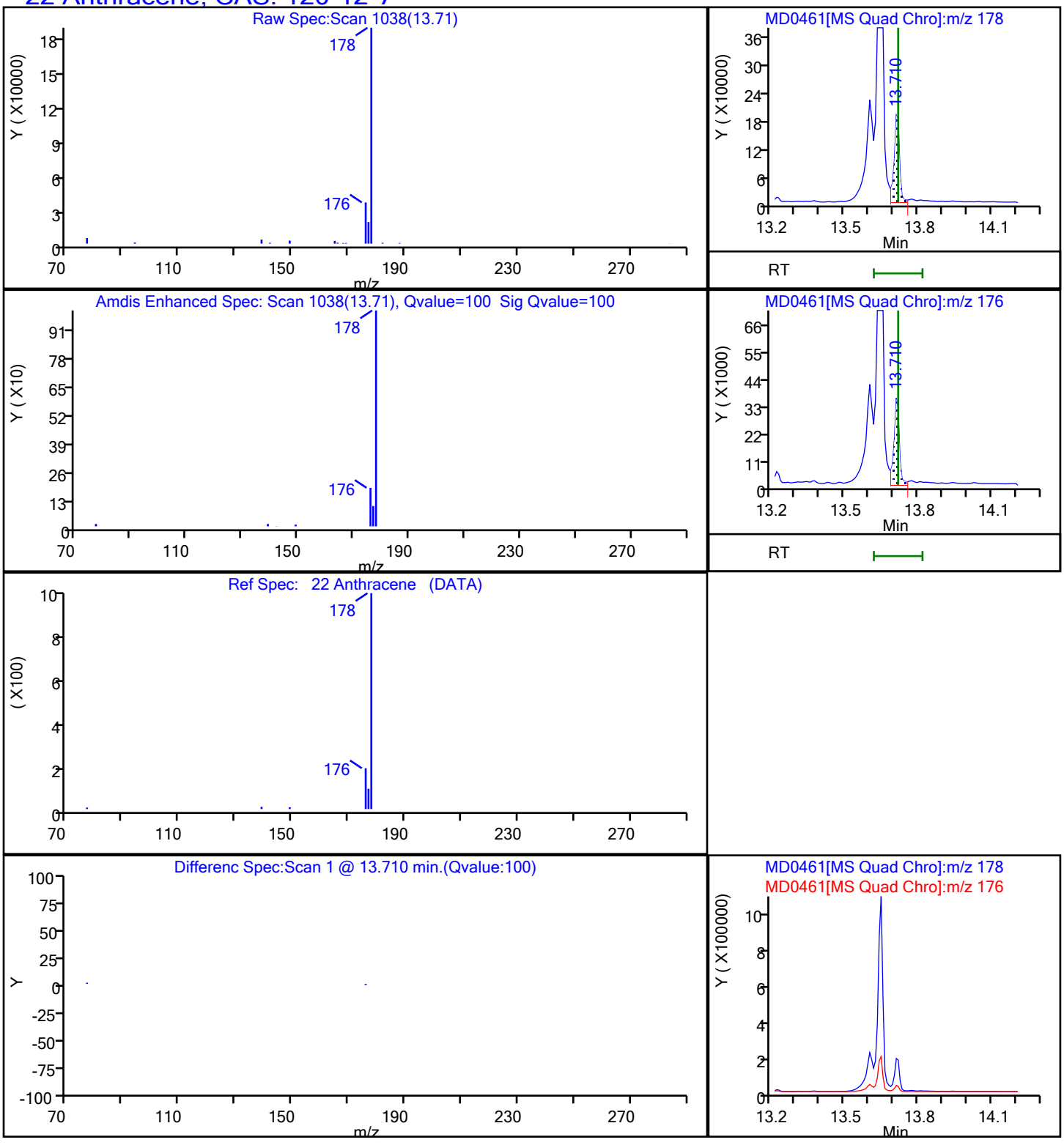
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 12

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

22 Anthracene, CAS: 120-12-7



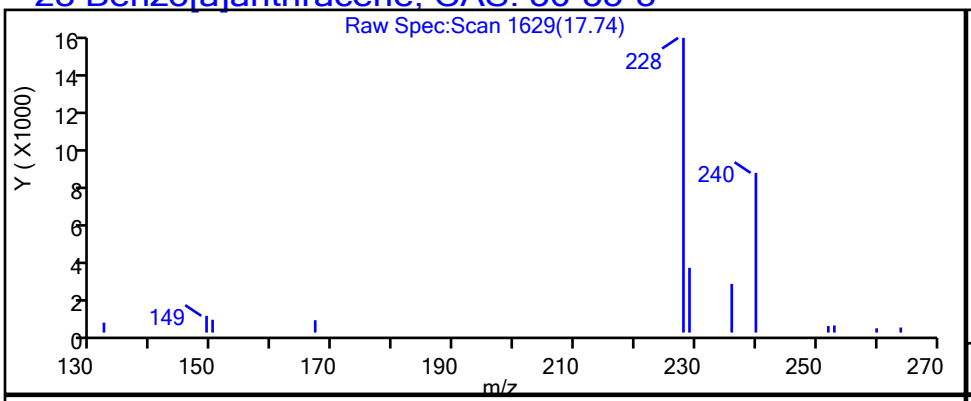
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

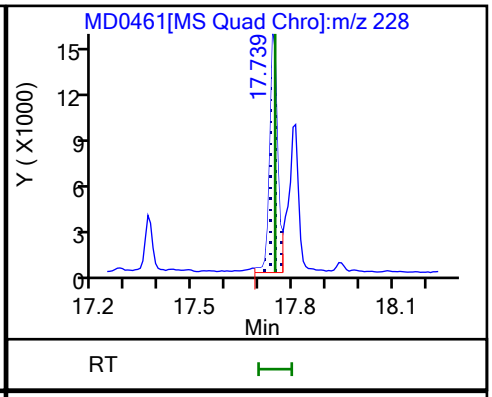
Eurofins Lancaster Laboratories Env, LLC

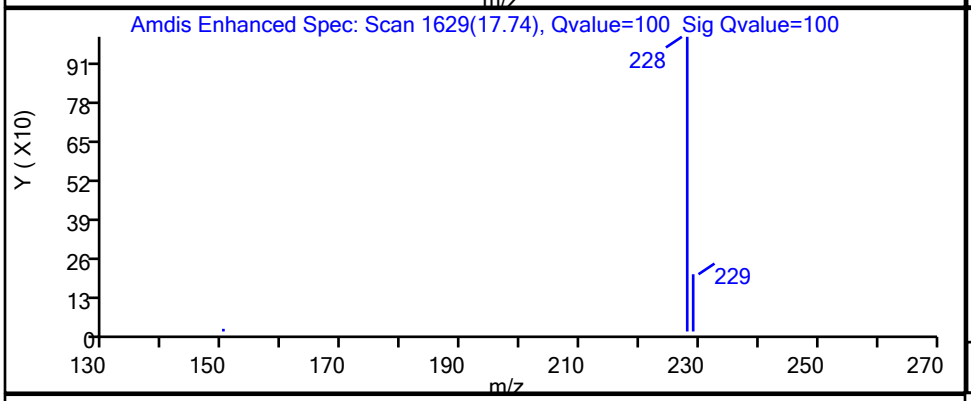
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

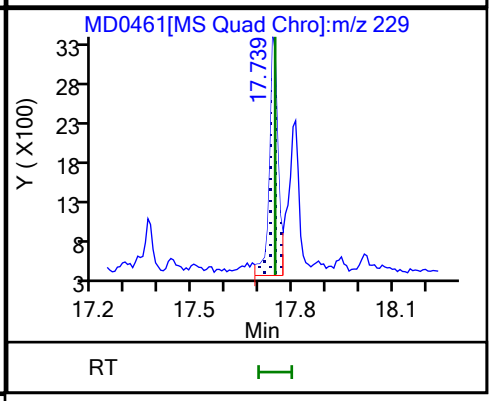
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

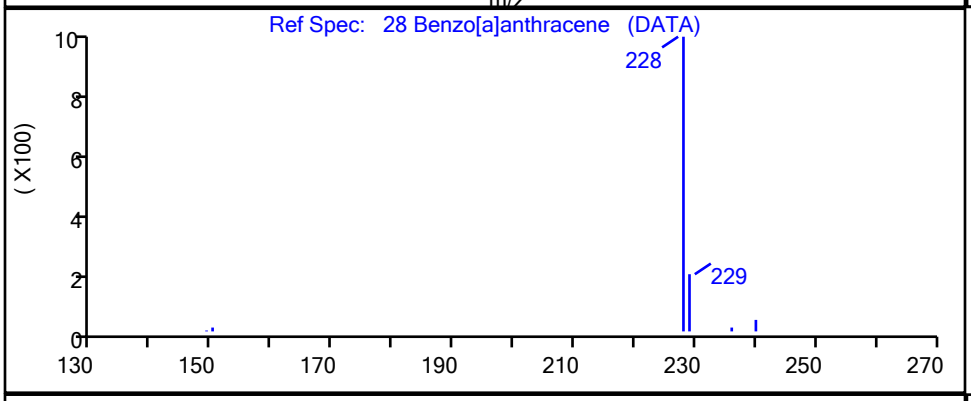
28 Benzo[a]anthracene, CAS: 56-55-3

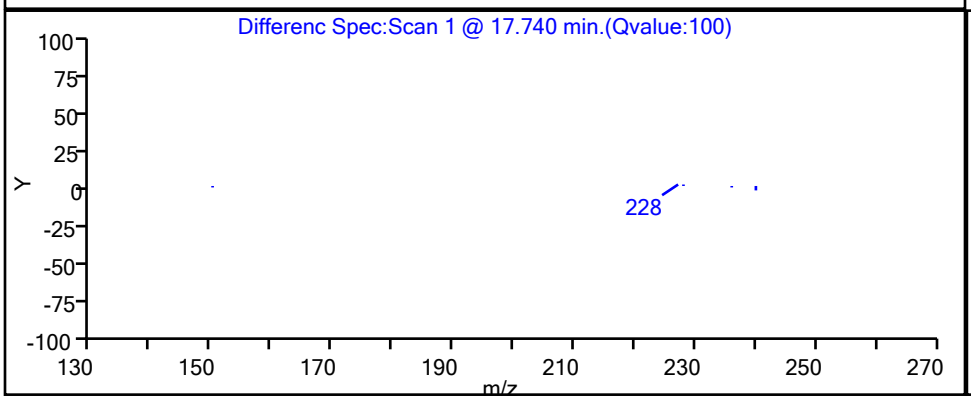


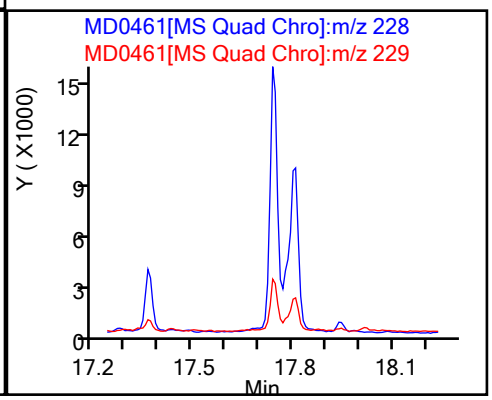










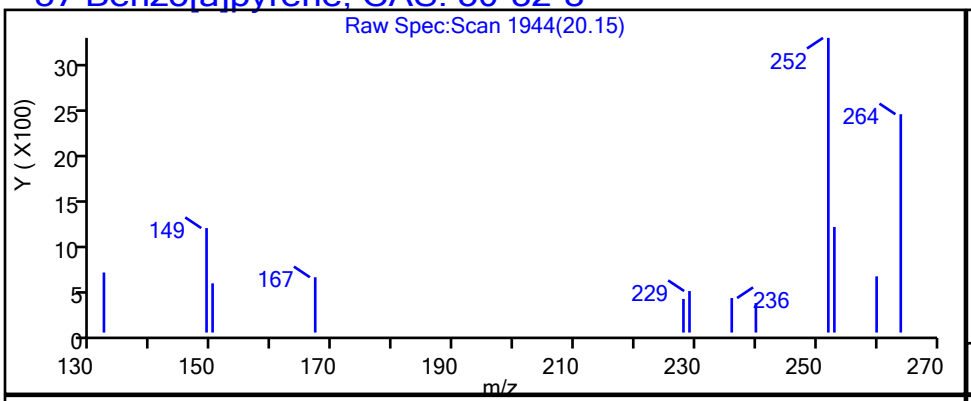


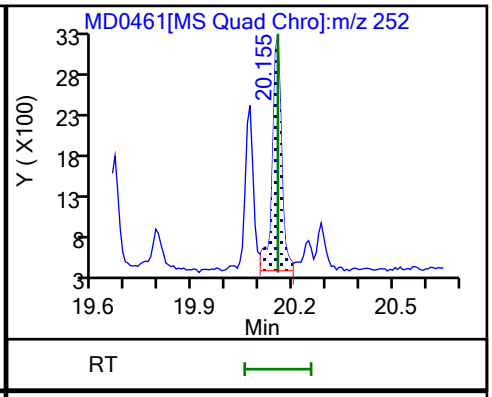
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

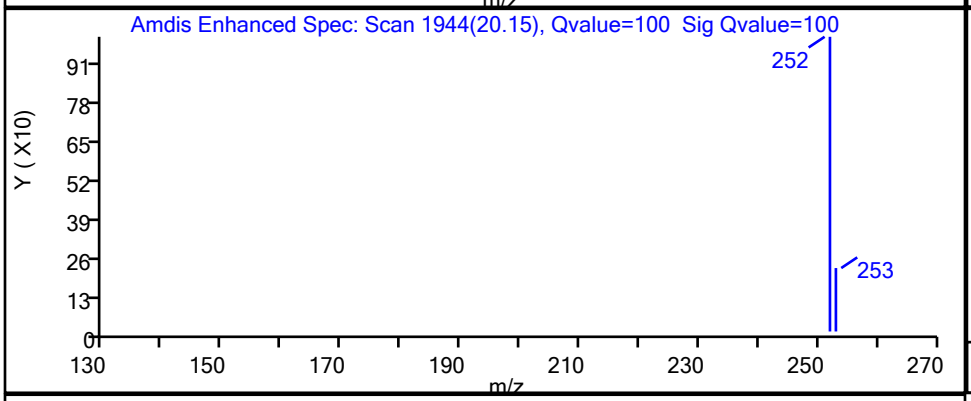
Eurofins Lancaster Laboratories Env, LLC

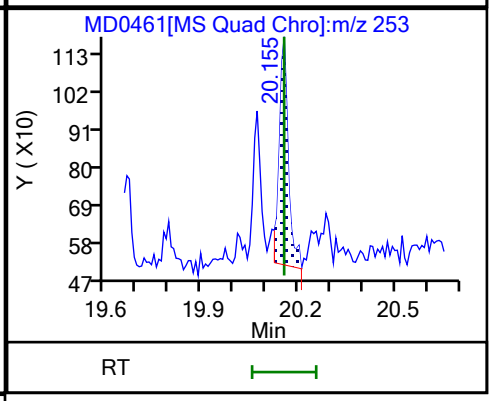
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D				
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

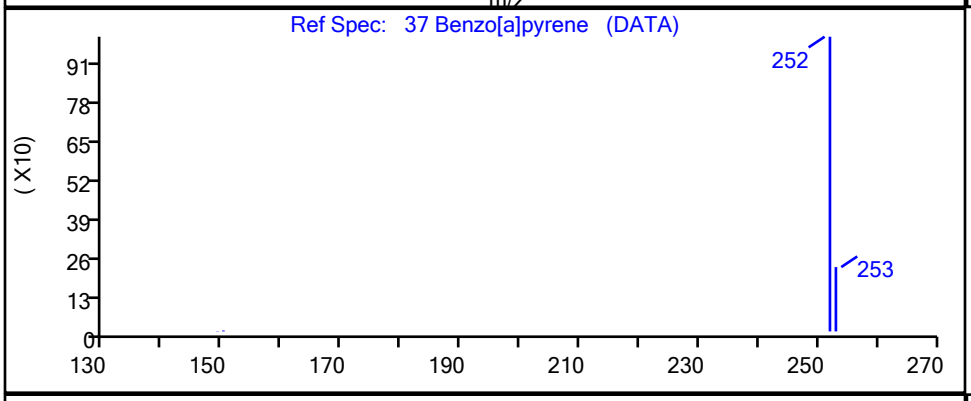
37 Benzo[a]pyrene, CAS: 50-32-8

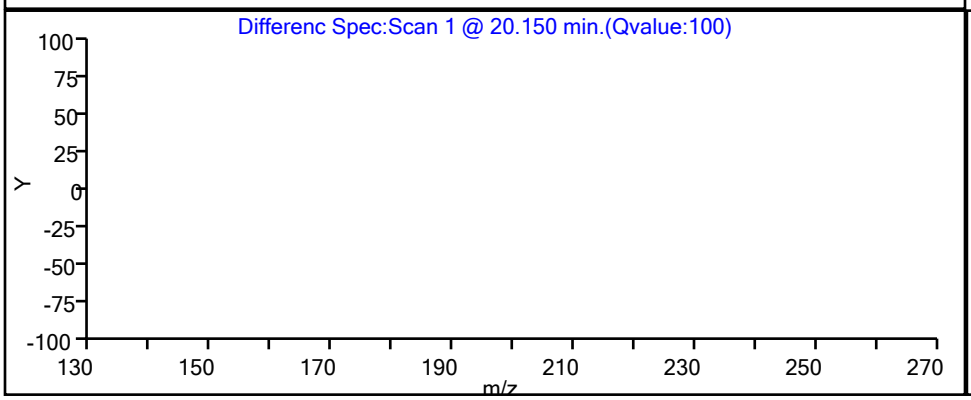


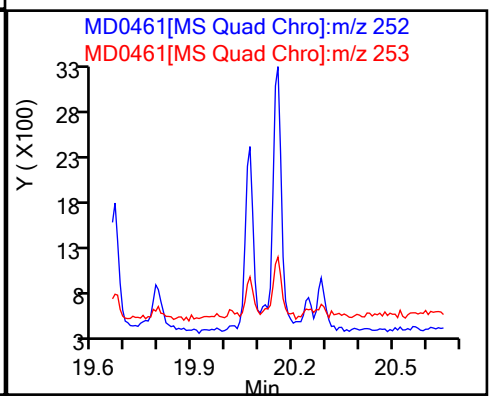












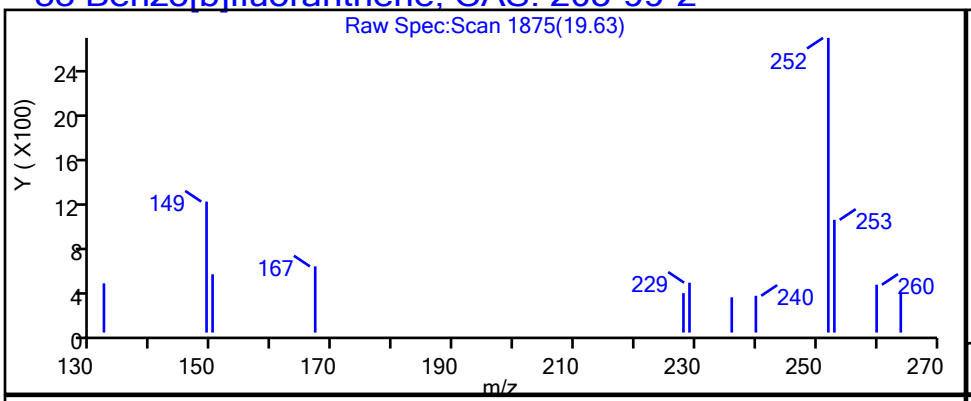
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

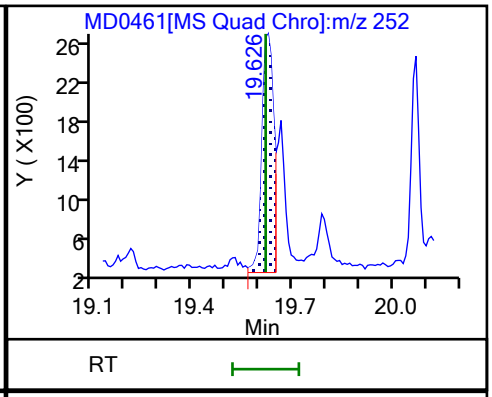
Eurofins Lancaster Laboratories Env, LLC

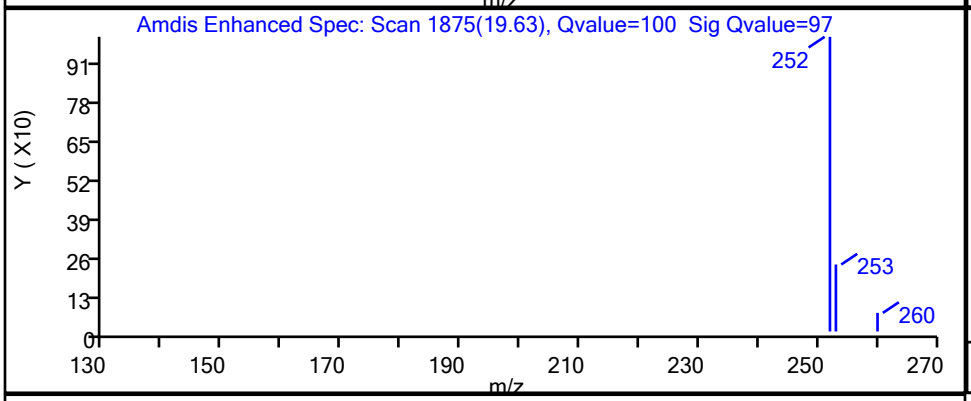
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

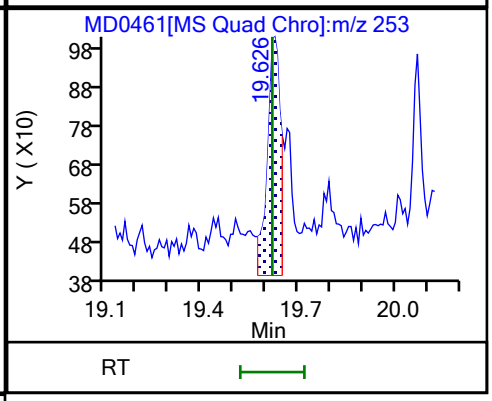
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

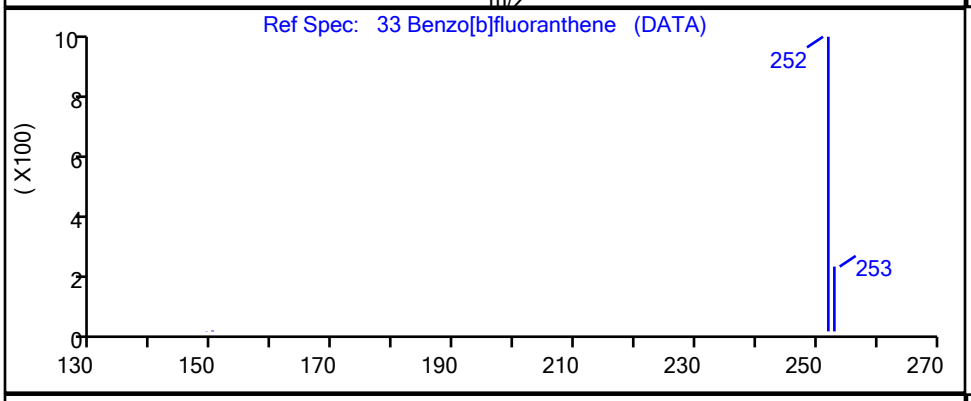
33 Benzo[b]fluoranthene, CAS: 205-99-2

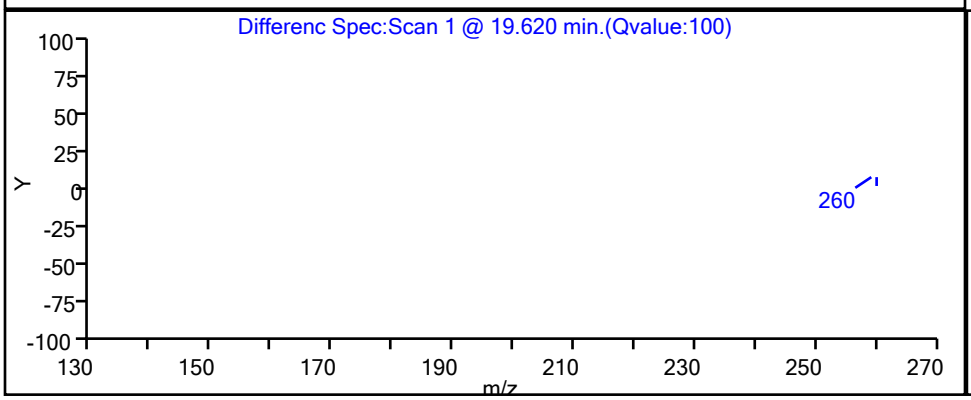


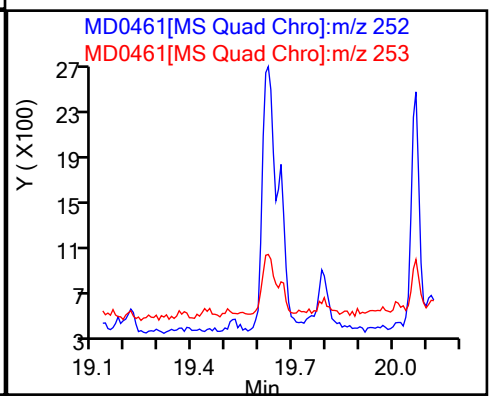










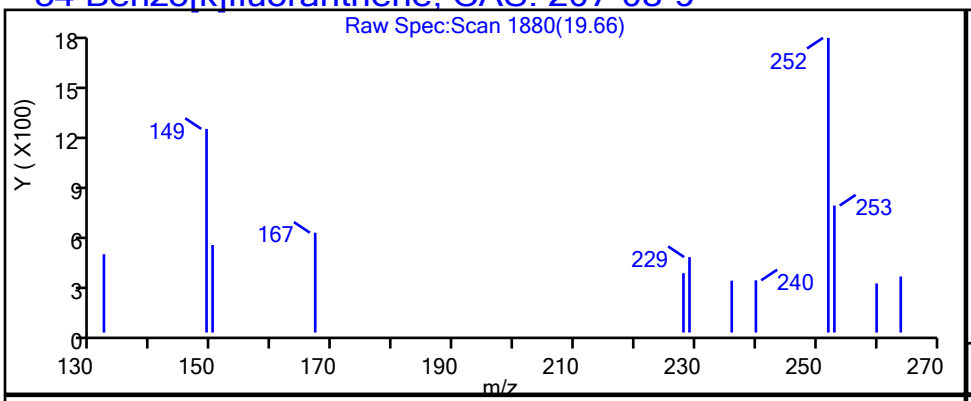


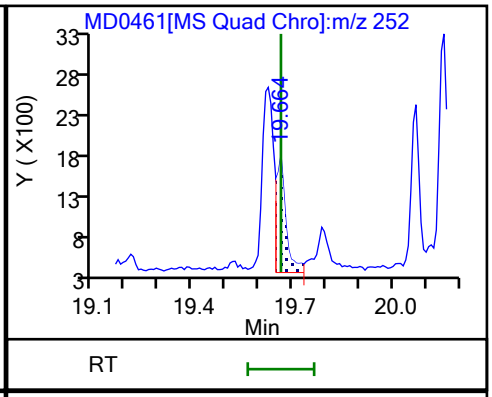
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

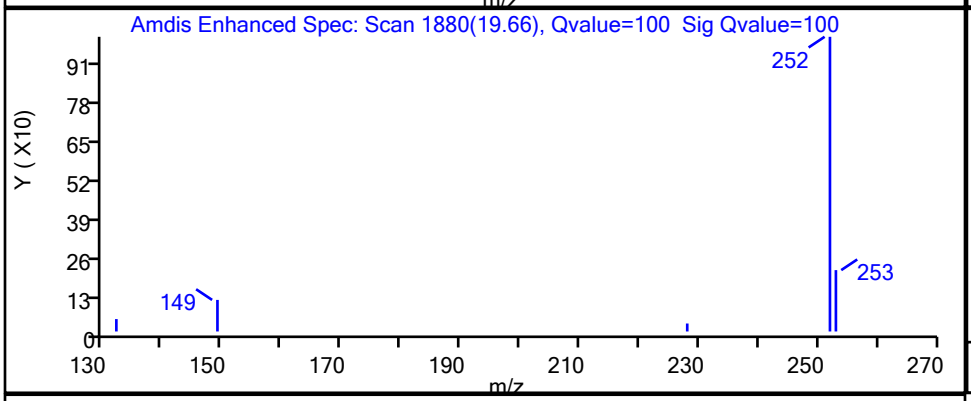
Eurofins Lancaster Laboratories Env, LLC

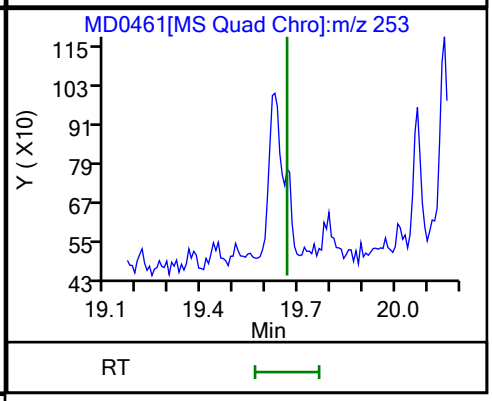
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D				
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

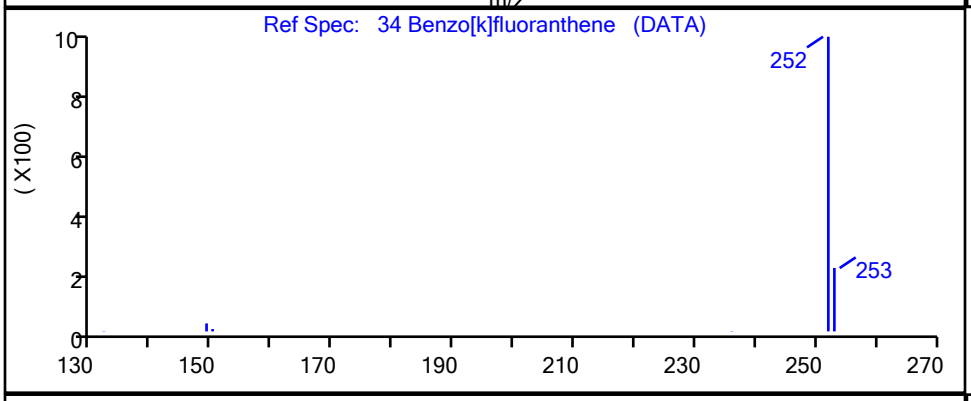
34 Benzo[k]fluoranthene, CAS: 207-08-9

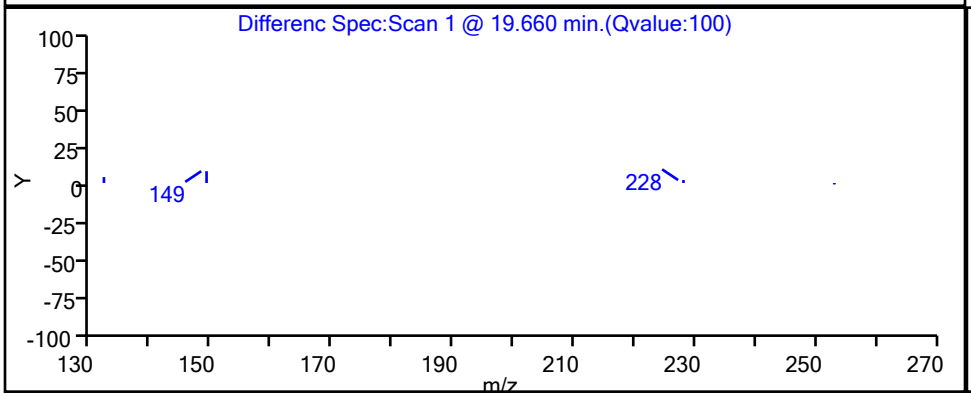


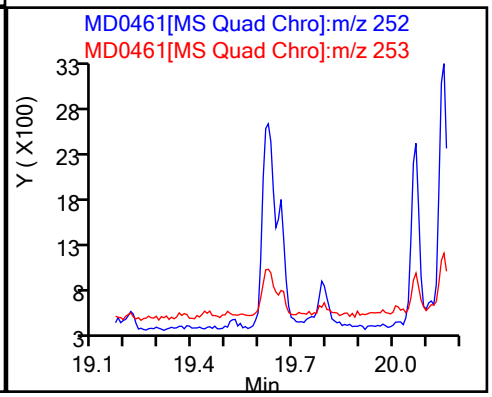












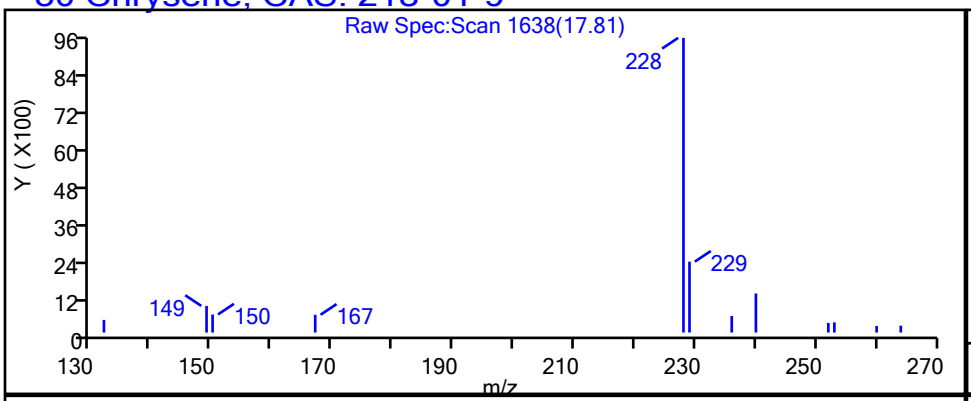
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

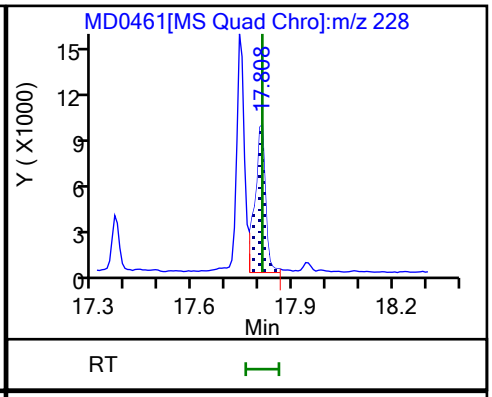
Eurofins Lancaster Laboratories Env, LLC

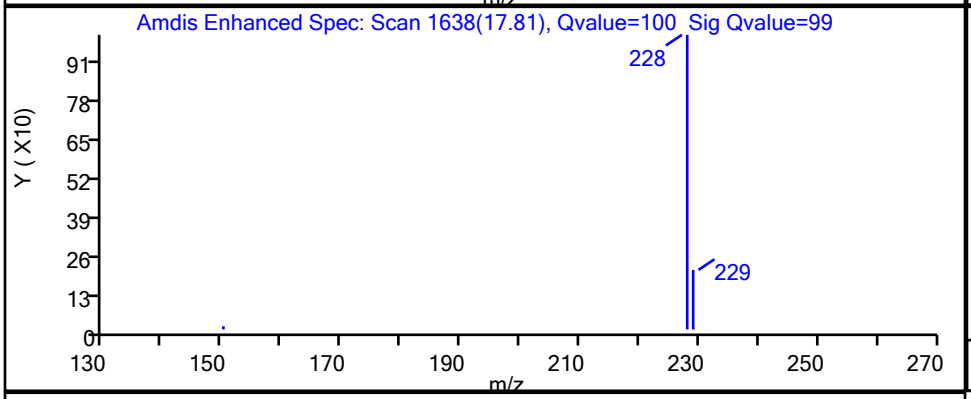
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

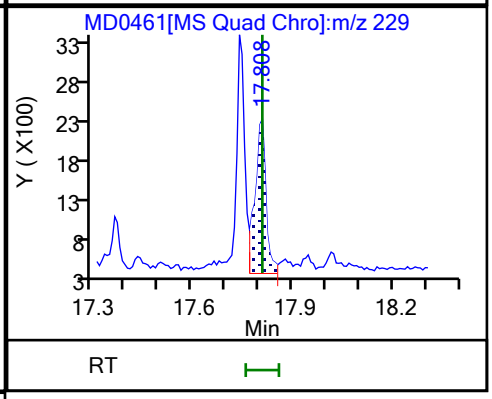
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

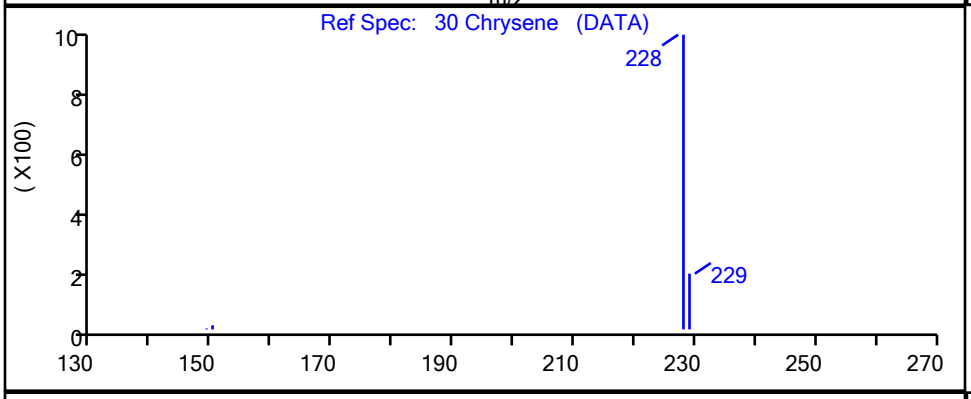
30 Chrysene, CAS: 218-01-9

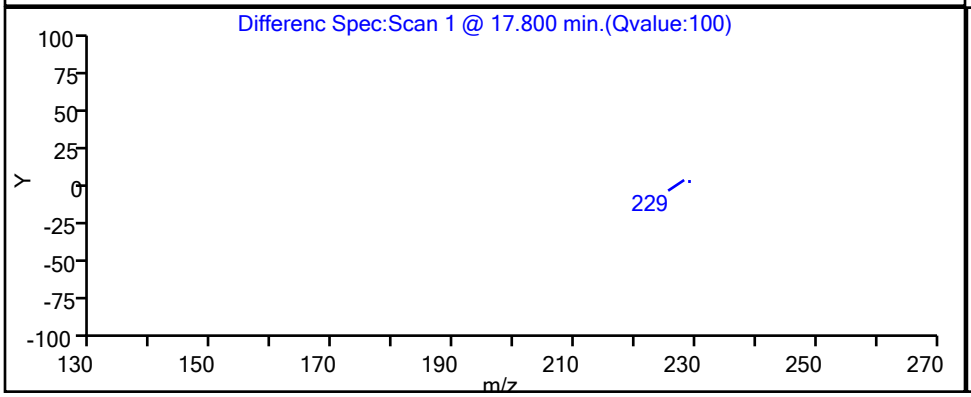


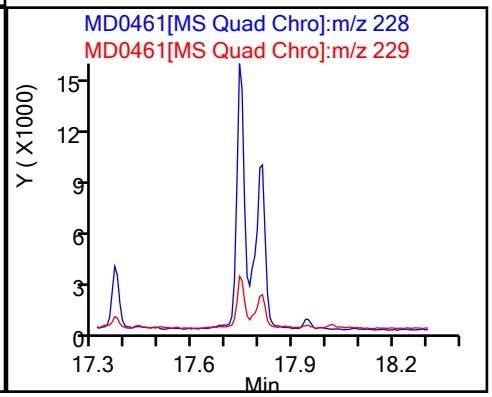












Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

Injection Date: 08-Apr-2021 13:57:18 Instrument ID: HP21585

Lims ID: 410-34553-D-12-A Lab Sample ID: 410-34553-12

Client ID: MW-11S-20210401

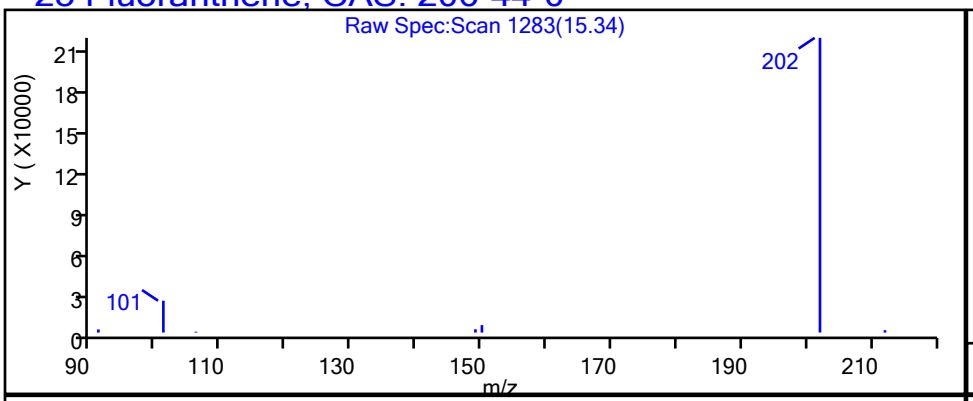
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 12

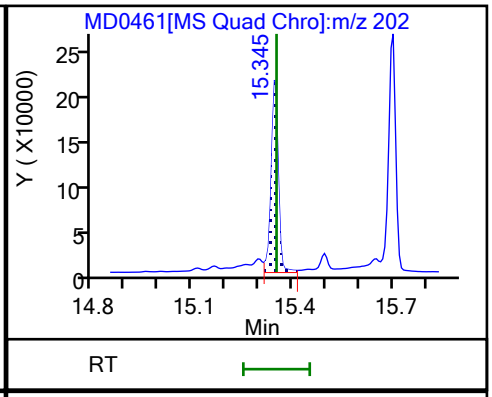
Injection Vol: 1.0 ul Dil. Factor: 1.0000

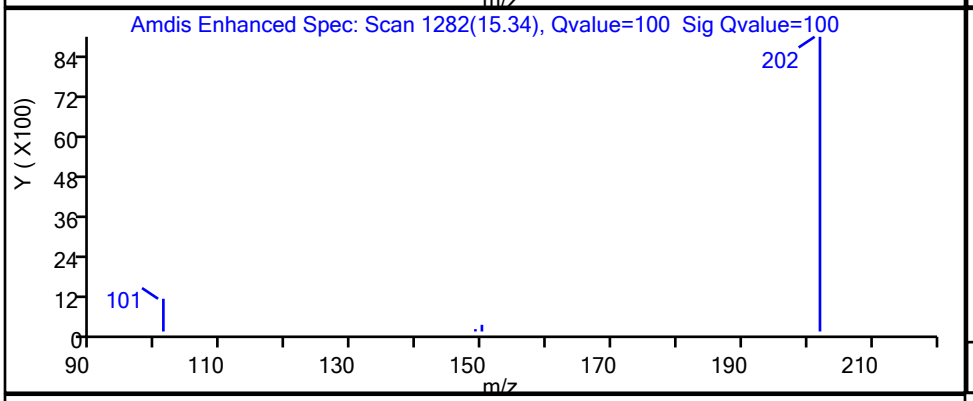
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

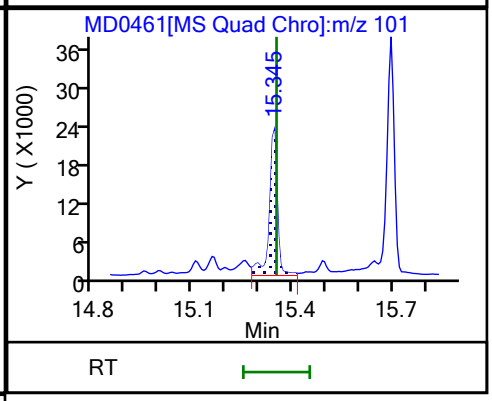
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

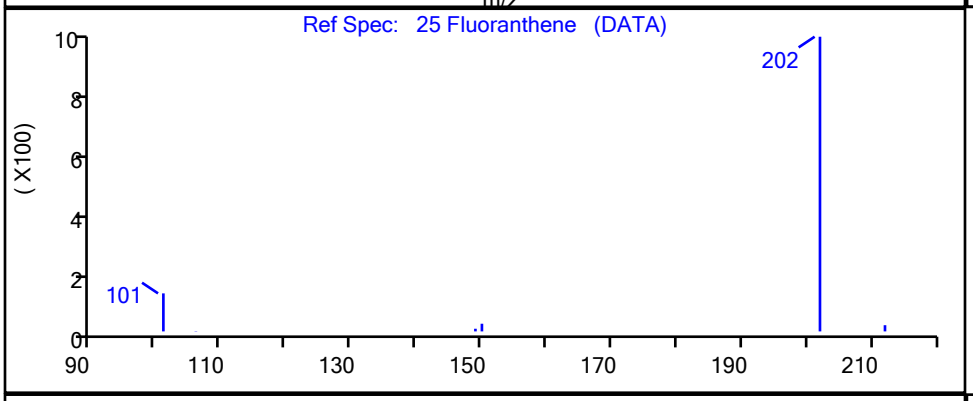
25 Fluoranthene, CAS: 206-44-0

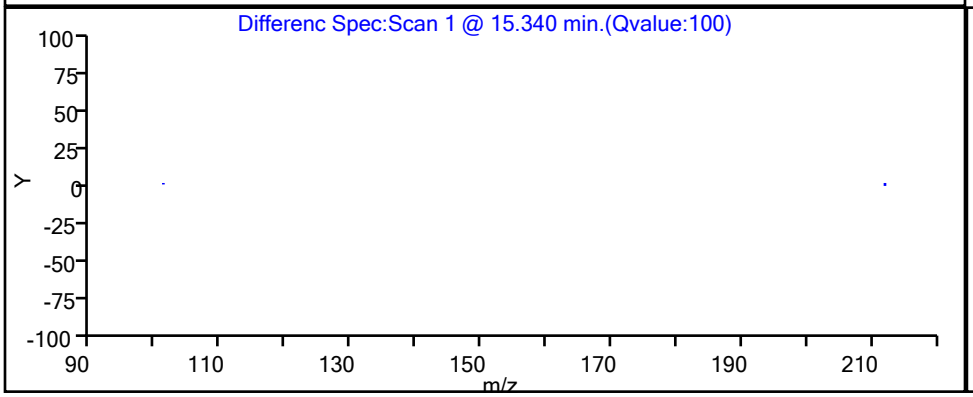


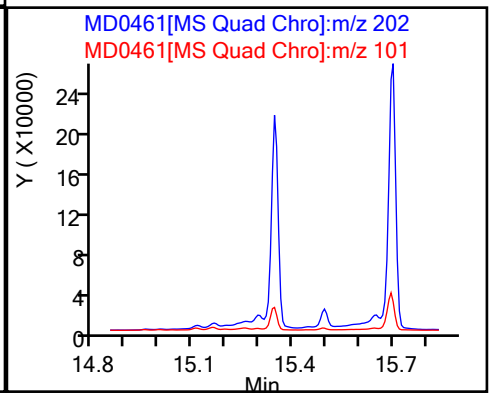








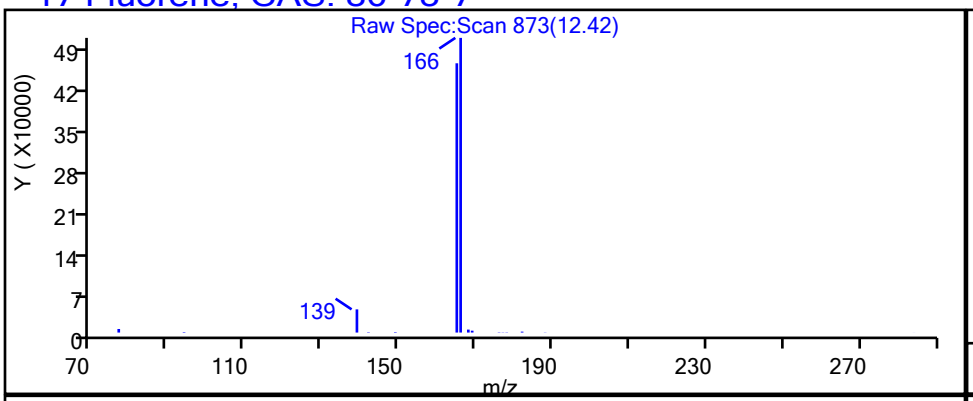


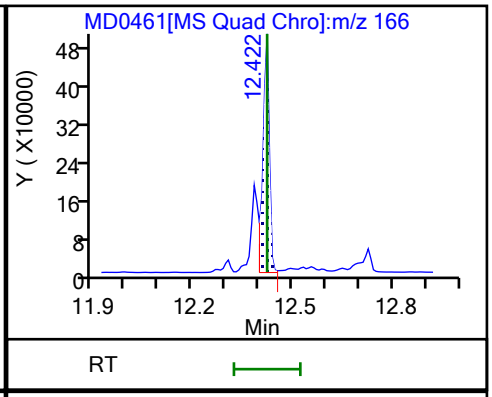


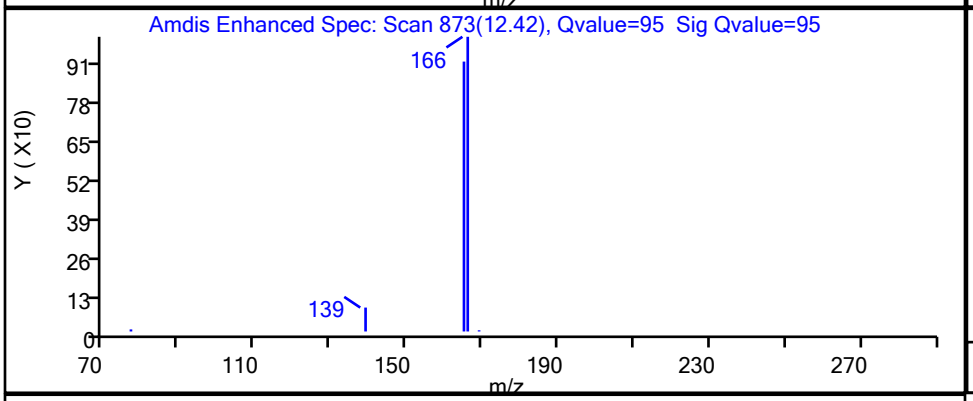
Eurofins Lancaster Laboratories Env, LLC

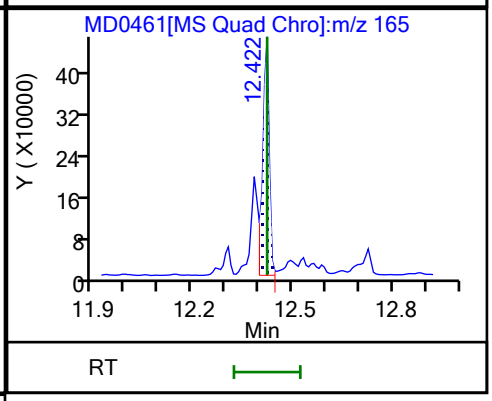
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D		
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12
Client ID:	MW-11S-20210401		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

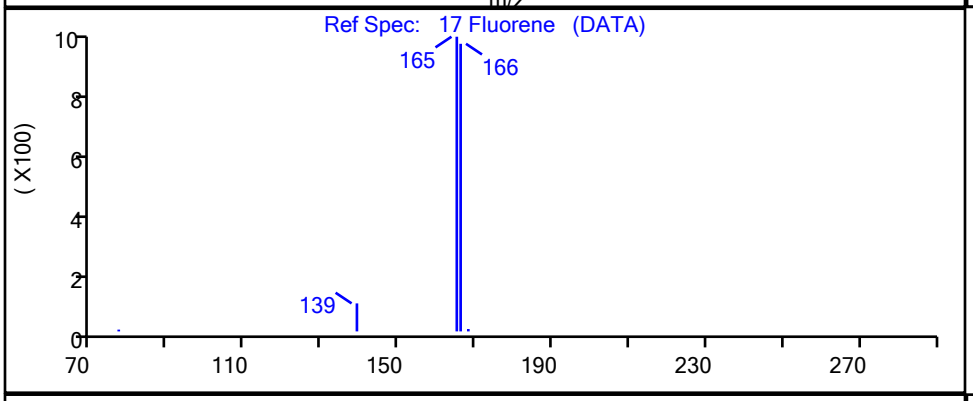
17 Fluorene, CAS: 86-73-7

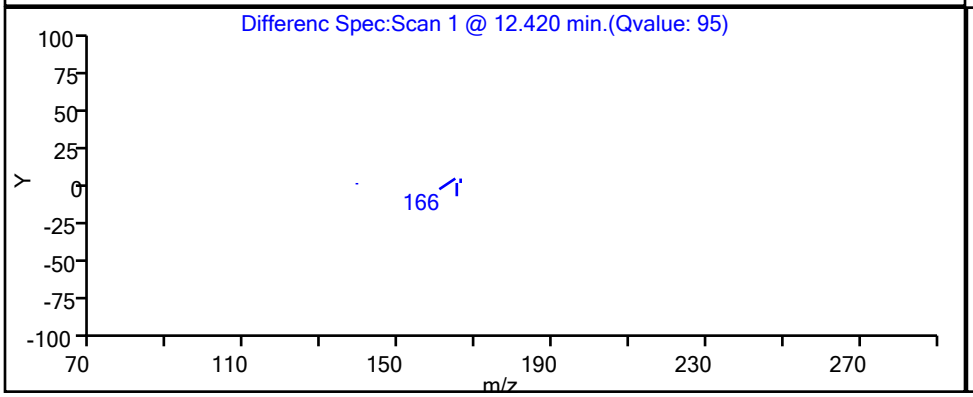


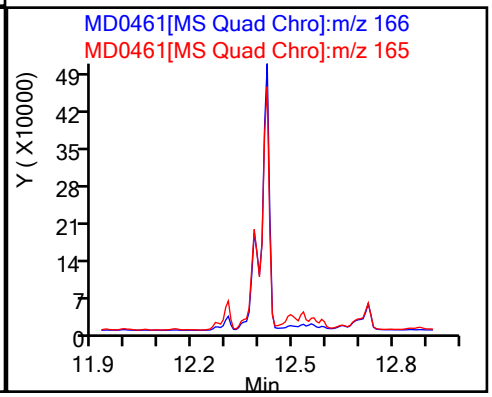












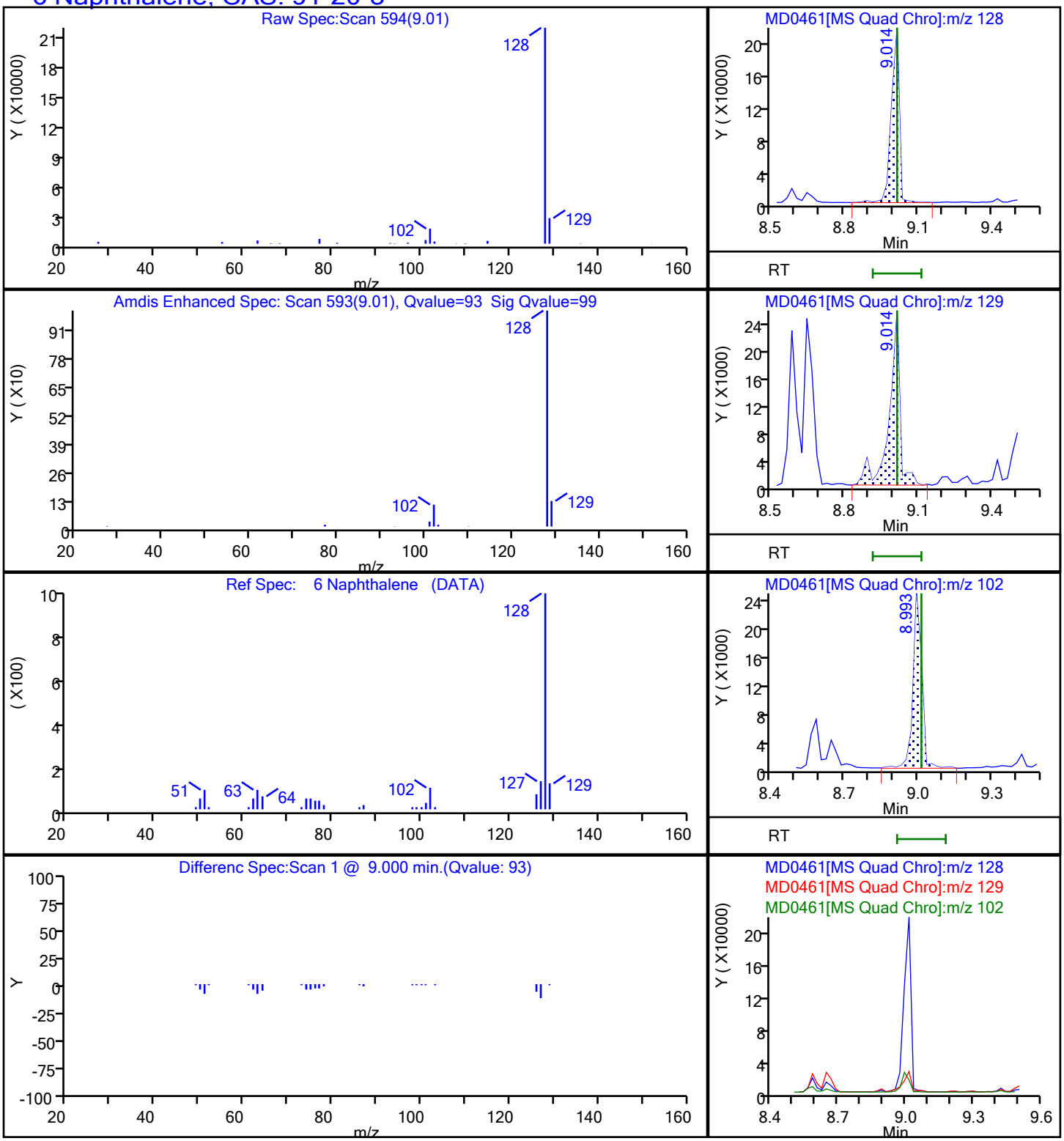
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12
Client ID:	MW-11S-20210401		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

6 Naphthalene, CAS: 91-20-3



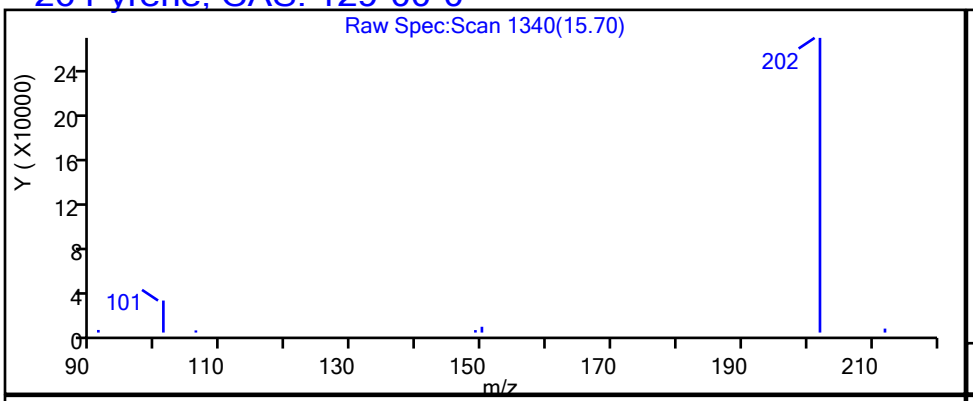
Report Date: 08-Apr-2021 19:23:29 Chrom Revision: 2.3 19-Mar-2021 08:24:58

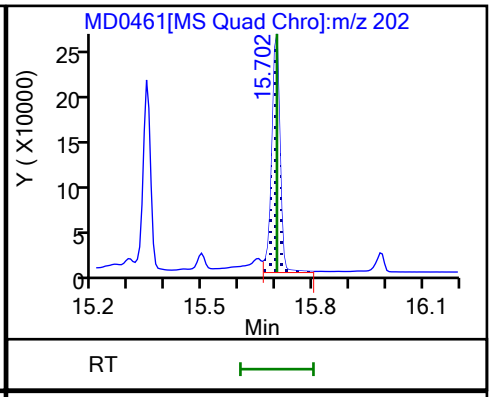
Eurofins Lancaster Laboratories Env, LLC

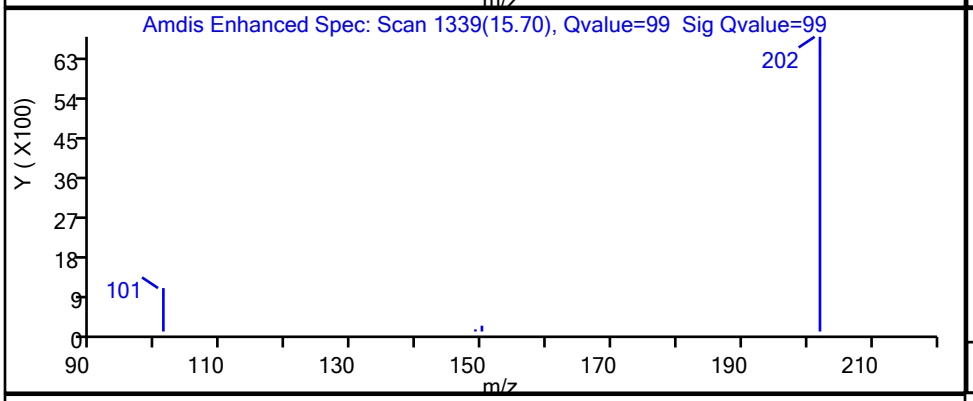
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D

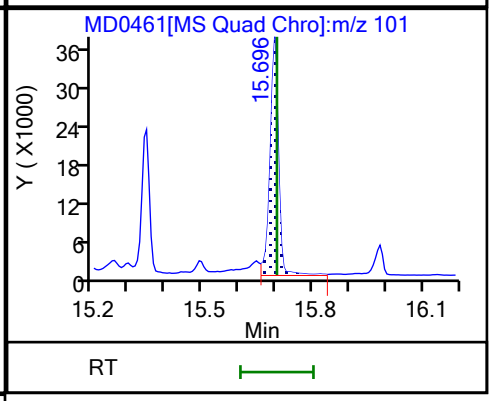
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

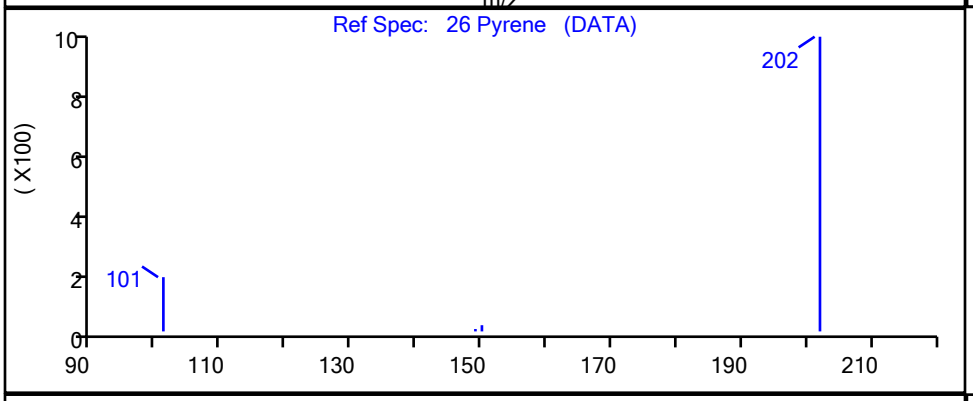
26 Pyrene, CAS: 129-00-0

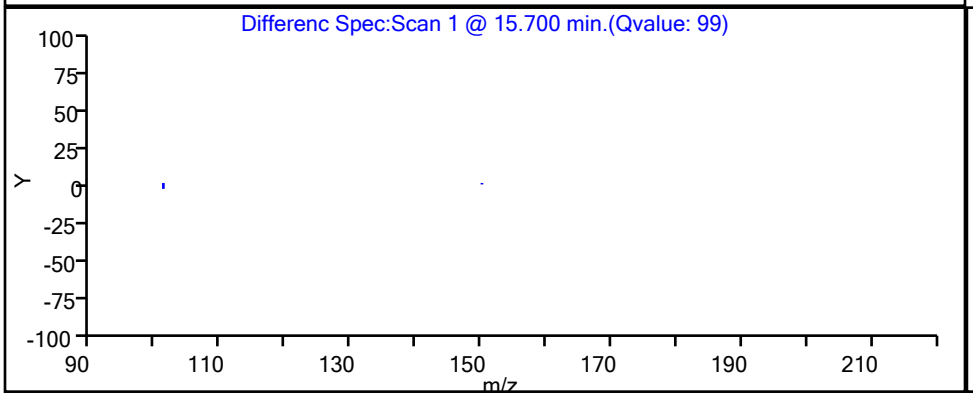


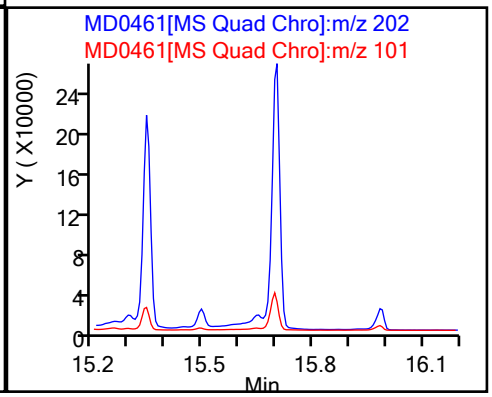












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

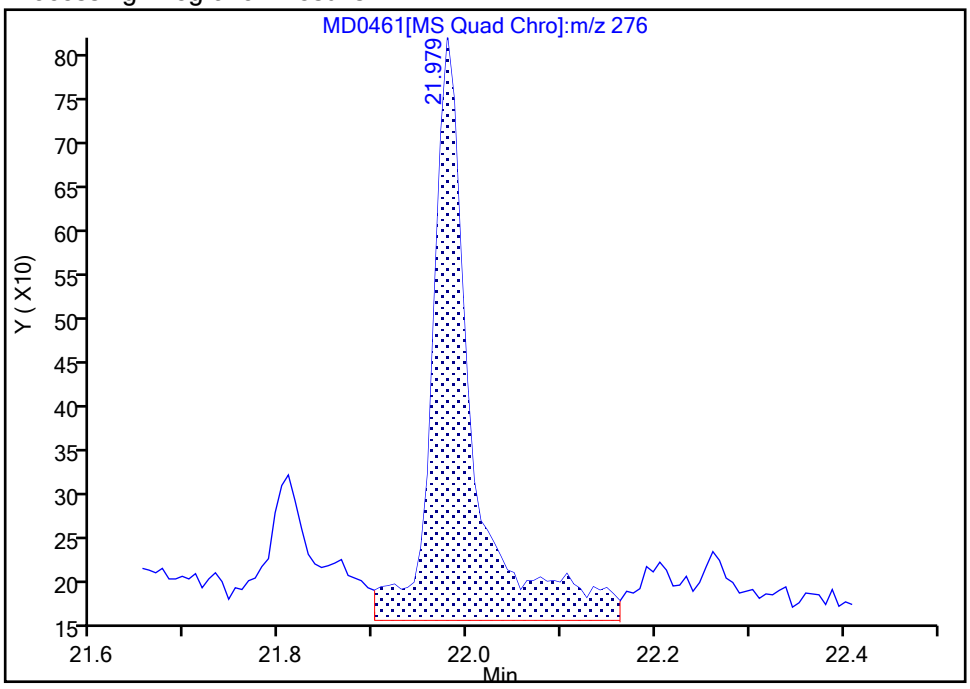
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D				
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	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

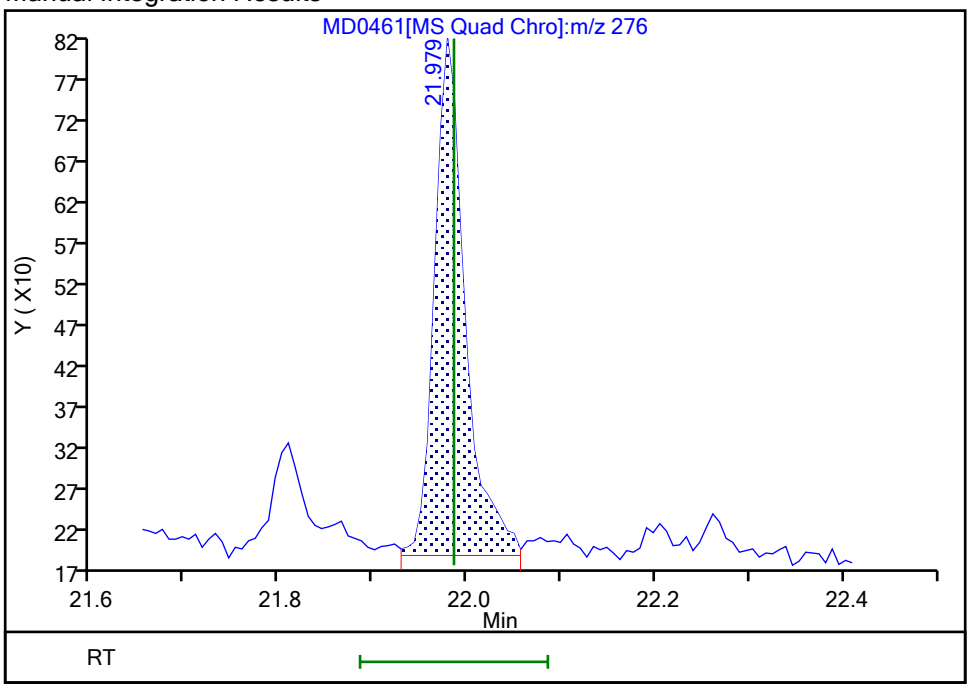
Processing Integration Results

RT: 21.98
Area: 1954
Amount: 0.003023
Amount Units: ug/ml



Manual Integration Results

RT: 21.98
Area: 1432
Amount: 0.002216
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 17:43:53

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

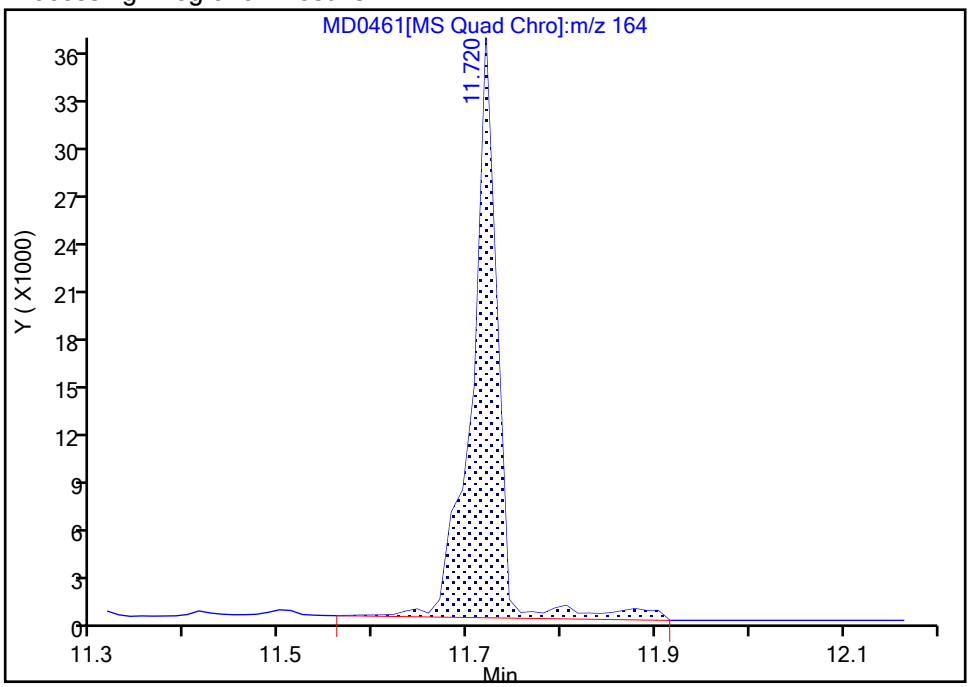
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0461.D				
Injection Date:	08-Apr-2021 13:57:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-12-A	Lab Sample ID:	410-34553-12		
Client ID:	MW-11S-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	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

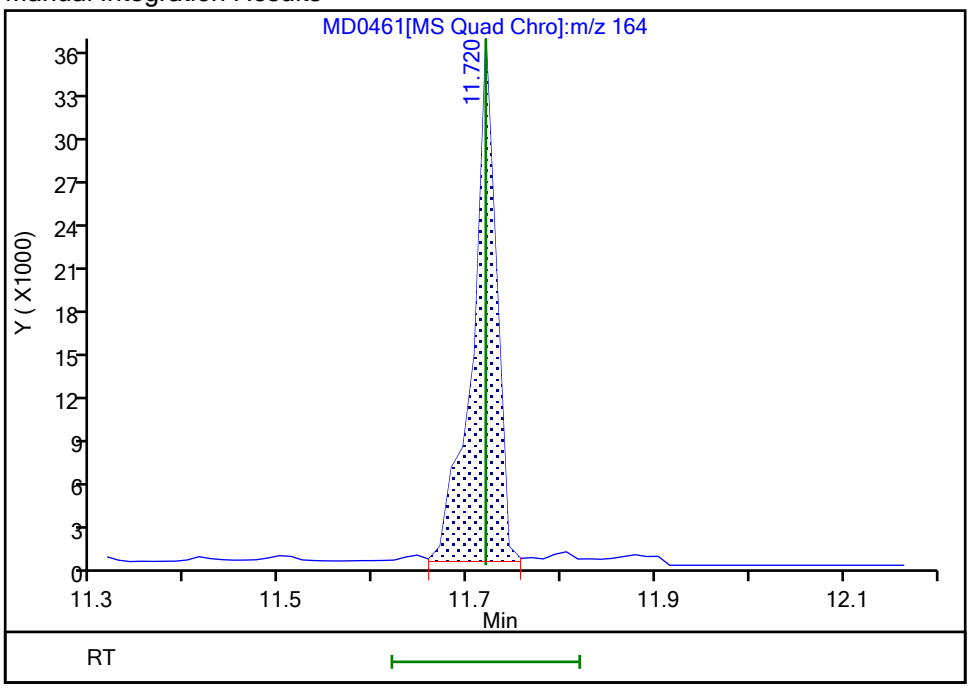
Processing Integration Results

RT: 11.72
Area: 70019
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 11.72
Area: 63881
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 17:43:09

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-11S-20210401 DL Lab Sample ID: 410-34553-12 DL

Matrix: Groundwater Lab File ID: MD0502.D

Analysis Method: 8270D SIM Date Collected: 04/01/2021 14:58

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 22:50

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.: 112543 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	41		0.50	0.10
85-01-8	Phenanthrene	16		0.70	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	81		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		49-115
93951-69-0	Fluoranthene-d10 (Surr)	92		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0502.D
Lims ID: 410-34553-D-12-A DL
Client ID: MW-11S-20210401
Sample Type: Client
Inject. Date: 08-Apr-2021 22:50:16 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-34553-D-12-A
Misc. Info.: 410-0026241-003
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 06:05:13 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 09-Apr-2021 03:20:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	99	27903	0.2500	
* 5 Naphthalene-d8	136	8.952	8.952	0.000	92	106366	0.2500	
6 Naphthalene	128	8.973	8.993	-0.020	93	46004	0.1080	
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	97	4148	0.0183	
12 Acenaphthylene	152	11.499	11.500	0.000	95	6646	0.0145	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	96	63006	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	302332	1.03	
17 Fluorene	166	12.407	12.407	0.000	97	90455	0.2605	
* 20 Phenanthrene-d10	188	13.593	13.593	0.000	96	119140	0.2500	
21 Phenanthrene	178	13.625	13.625	0.001	100	195387	0.3933	
22 Anthracene	178	13.695	13.695	0.000	100	33940	0.0701	
$ 24 Fluoranthene-d10 (Surr)	212	15.294	15.294	0.000	98	10554	0.0230	
25 Fluoranthene	202	15.326	15.326	0.000	100	36032	0.0650	
26 Pyrene	202	15.677	15.677	0.000	100	47449	0.0735	
28 Benzo[a]anthracene	228	17.724	17.724	0.000	100	2386	0.004252	
* 29 Chrysene-d12	240	17.739	17.739	0.000	58	112481	0.2500	
30 Chrysene	228	17.785	17.785	0.000	100	1921	0.003333	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.094	20.094	0.001	99	9058	0.0203	
* 38 Perylene-d12	264	20.224	20.224	0.000	99	128060	0.2500	

QC Flag Legend
Processing Flags

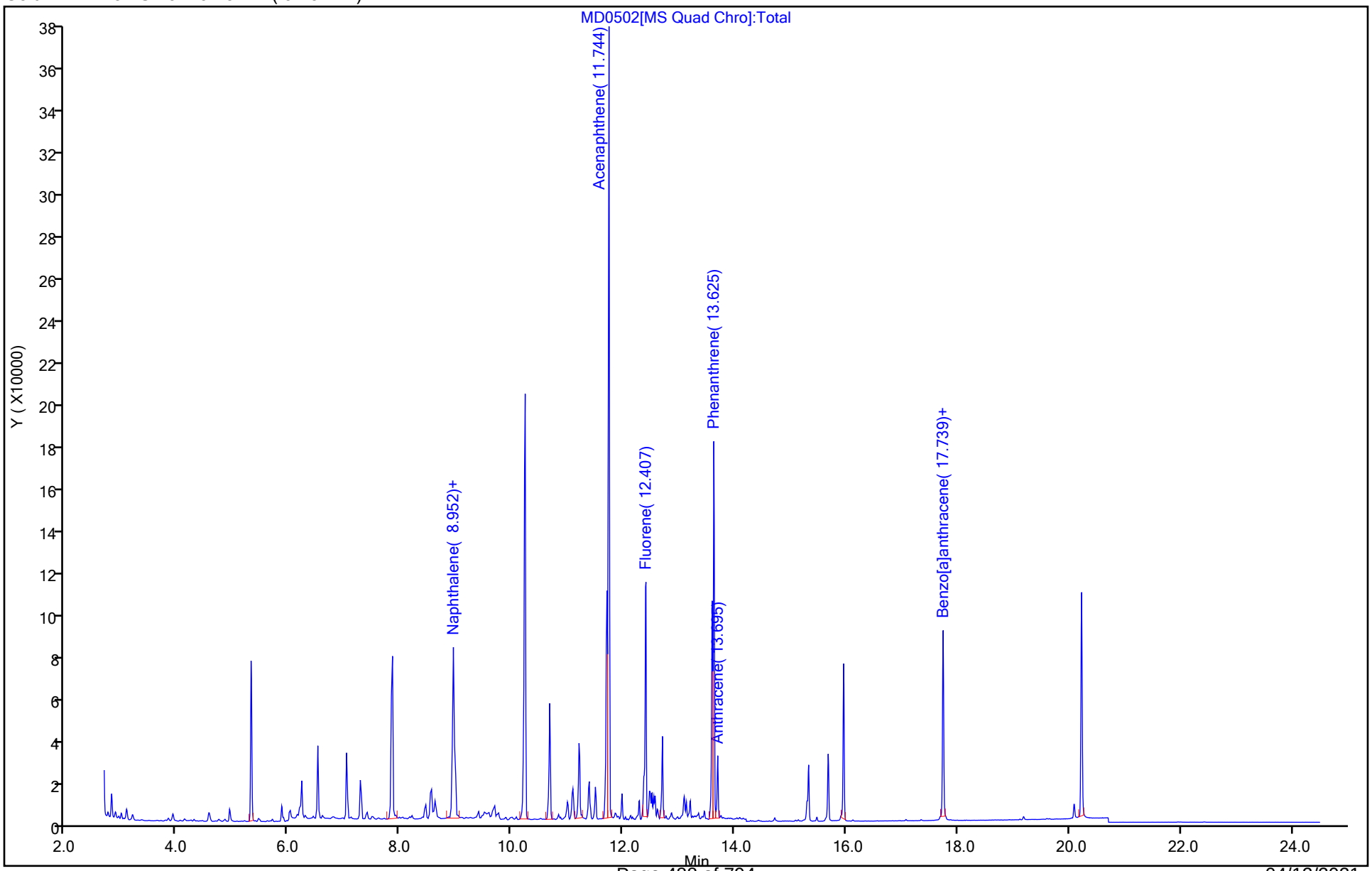
Reagents:
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Apr-2021 06:05:35 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0502.D				
Injection Date:	08-Apr-2021 22:50:16	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-12-A DL	Lab Sample ID:	410-34553-12	Worklist Smp#:	3
Client ID:	MW-11S-20210401				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Report Date: 09-Apr-2021 06:05:35 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0502.D

Injection Date: 08-Apr-2021 22:50:16 Instrument ID: HP21585

Lims ID: 410-34553-D-12-A DL Lab Sample ID: 410-34553-12

Client ID: MW-11S-20210401

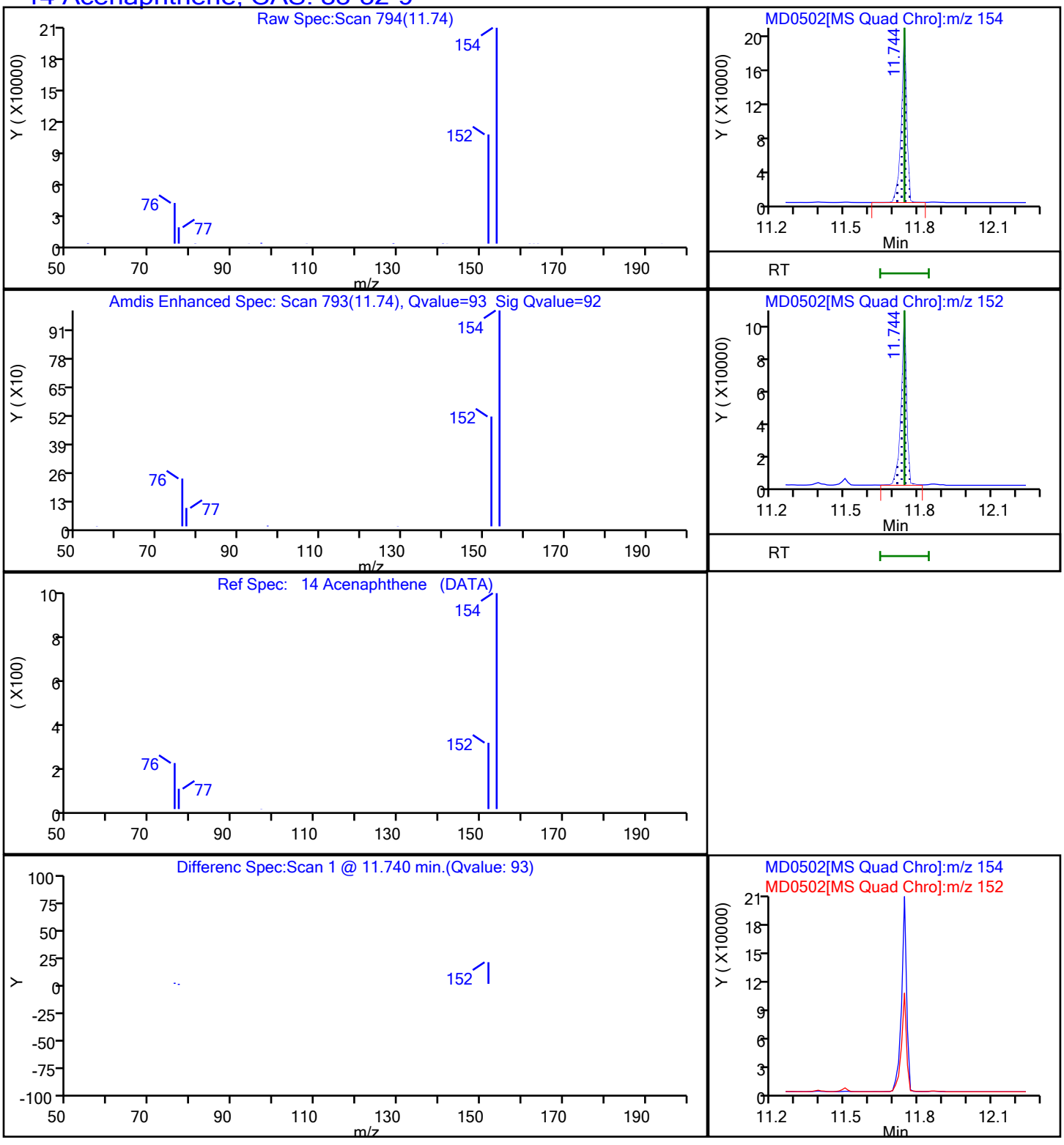
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 3

Injection Vol: 1.0 ul Dil. Factor: 10.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

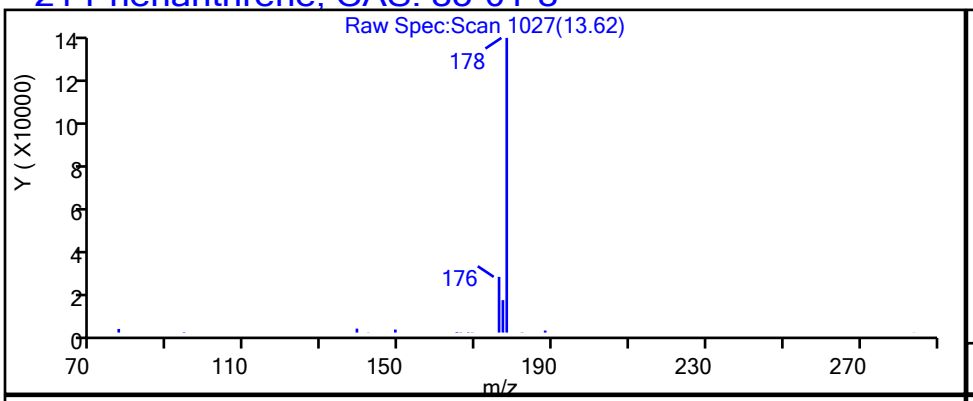
14 Acenaphthene, CAS: 83-32-9

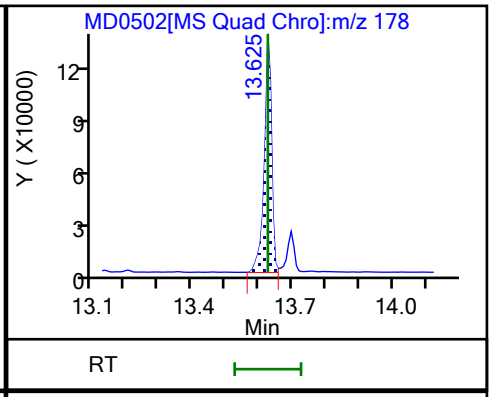


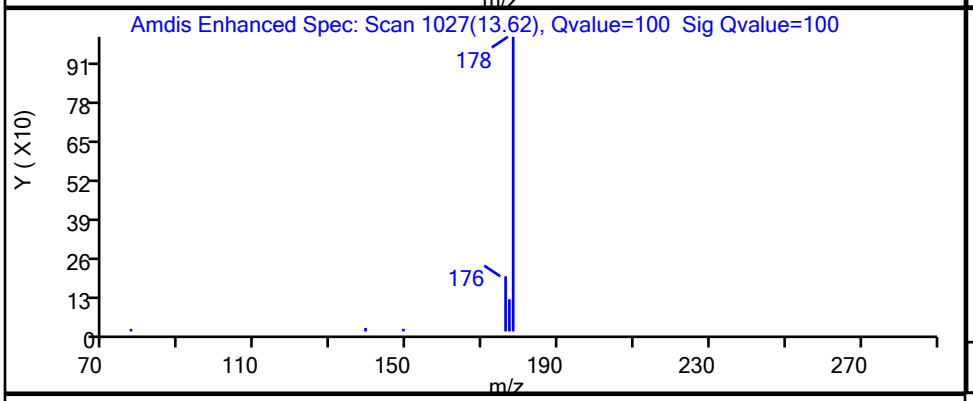
Eurofins Lancaster Laboratories Env, LLC

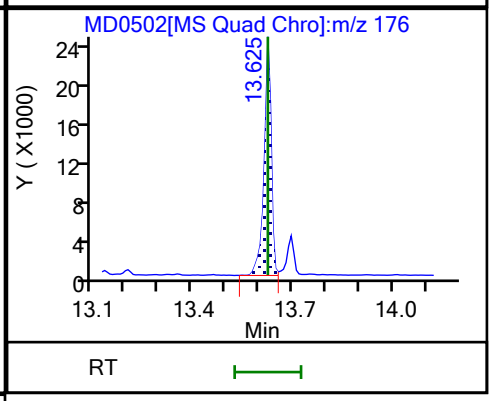
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0502.D		
Injection Date:	08-Apr-2021 22:50:16	Instrument ID:	HP21585
Lims ID:	410-34553-D-12-A DL	Lab Sample ID:	410-34553-12
Client ID:	MW-11S-20210401		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 3
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

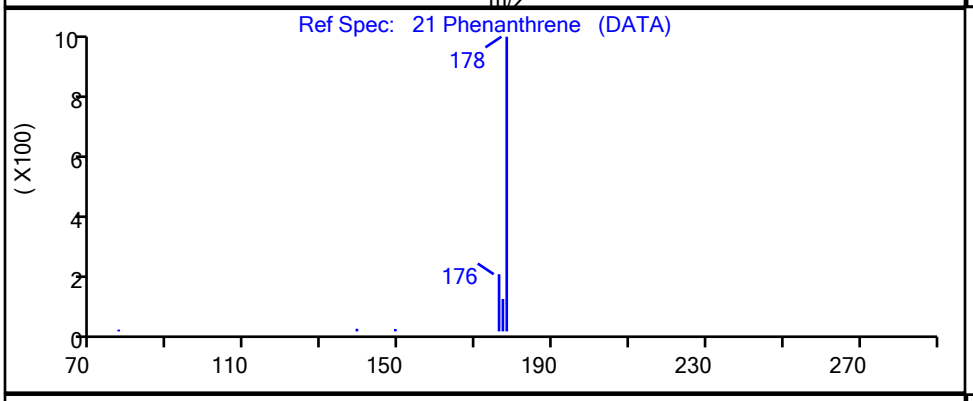
21 Phenanthrene, CAS: 85-01-8

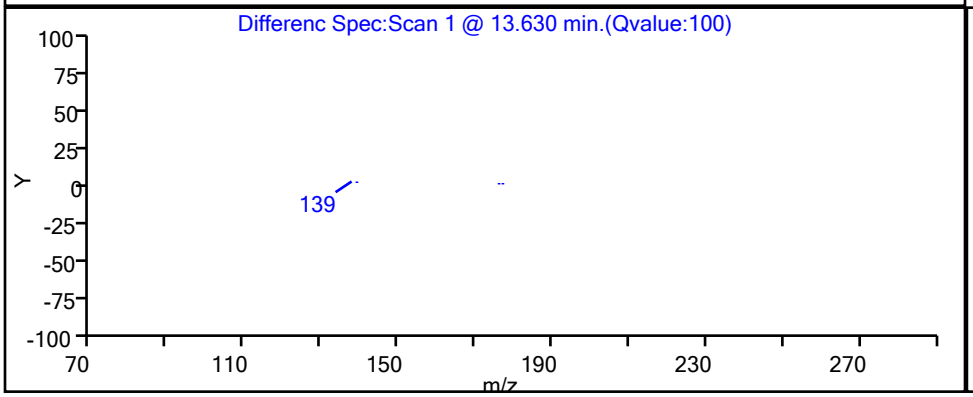


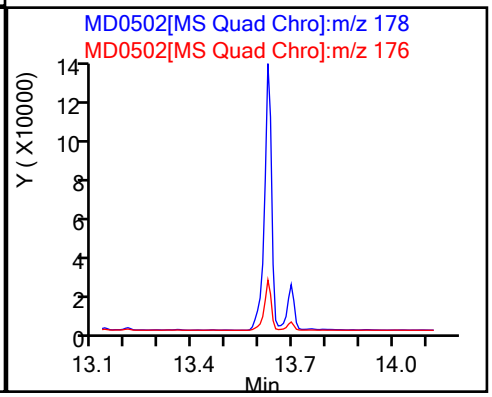












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-11D-20210401 Lab Sample ID: 410-34553-13

Matrix: Groundwater Lab File ID: MD0462.D

Analysis Method: 8270D SIM Date Collected: 04/01/2021 15:38

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 14:27

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.: 112126 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)	28		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	52		49-115
93951-69-0	Fluoranthene-d10 (Surr)	74		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0462.D				
Lims ID:	410-34553-D-13-A				
Client ID:	MW-11D-20210401				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 14:27:41	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-13-A				
Misc. Info.:	410-0026143-013				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 19:22:22	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1638				
First Level Reviewer: transuea		Date:	08-Apr-2021 17:44:48		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	93	27431	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	93	104878	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	100	28950	0.1295	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	97	57967	0.2500	
* 20 Phenanthrene-d10	188	13.616	13.617	0.000	95	108617	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.313	15.320	-0.006	99	77237	0.1845	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	119075	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	0.000	99	34711	0.0692	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	144074	0.2500	

QC Flag Legend

Processing Flags

Reagents:

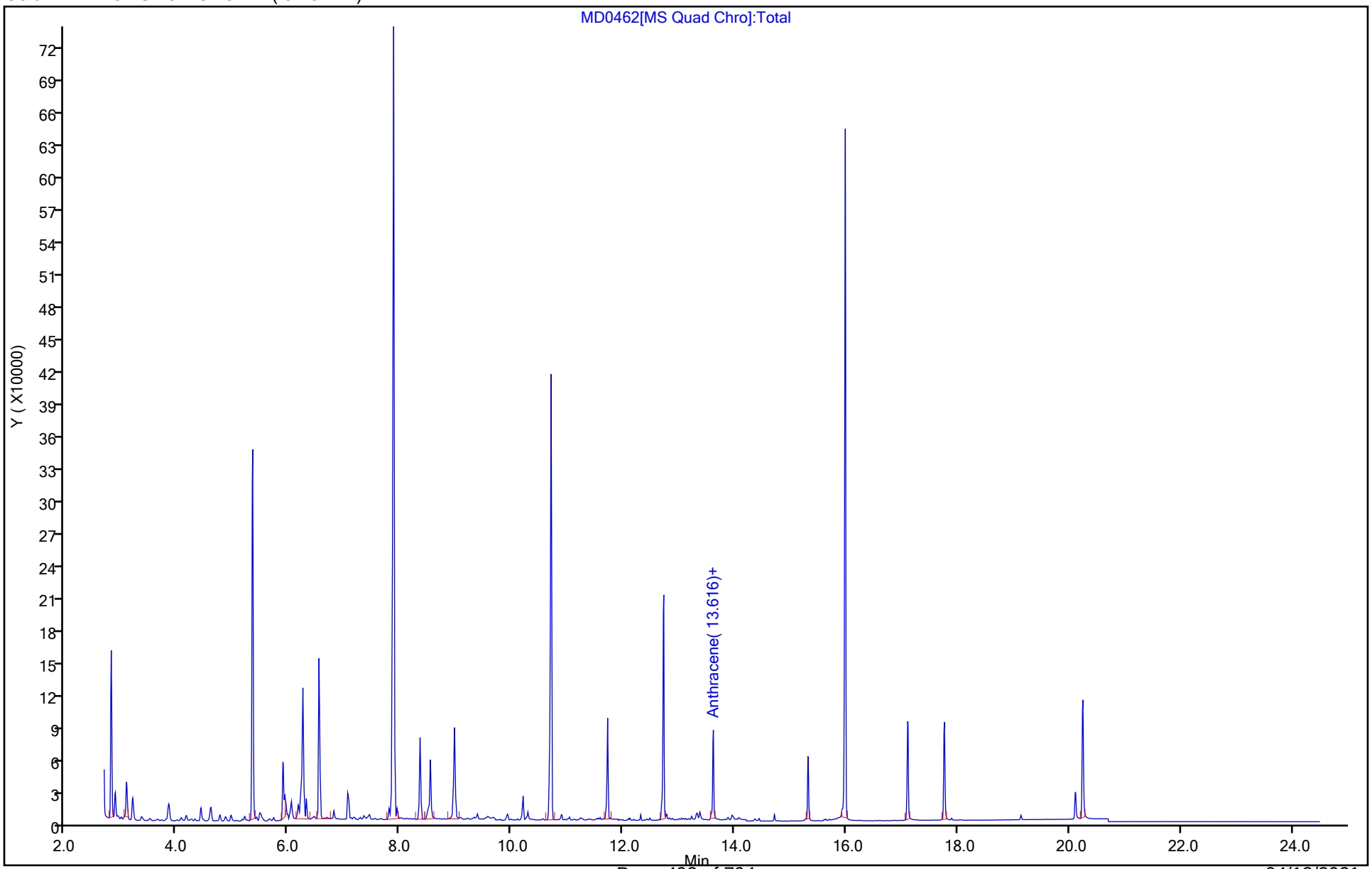
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 19:23:31 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0462.D				
Injection Date:	08-Apr-2021 14:27:41	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-13-A	Lab Sample ID:	410-34553-13	Worklist Smp#:	13
Client ID:	MW-11D-20210401				
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)



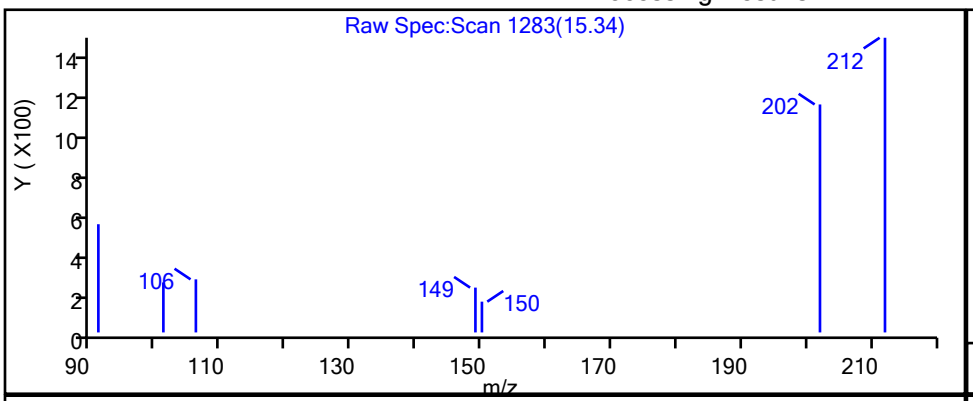
User Disabled Compound Report

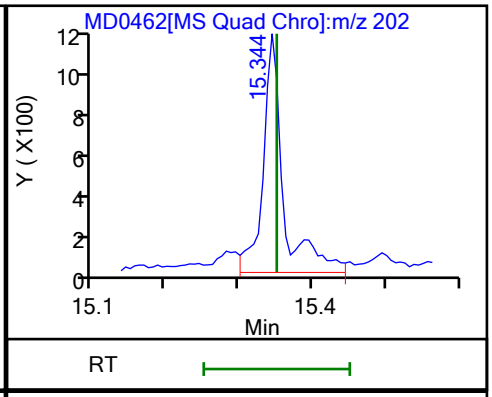
Eurofins Lancaster Laboratories Env, LLC

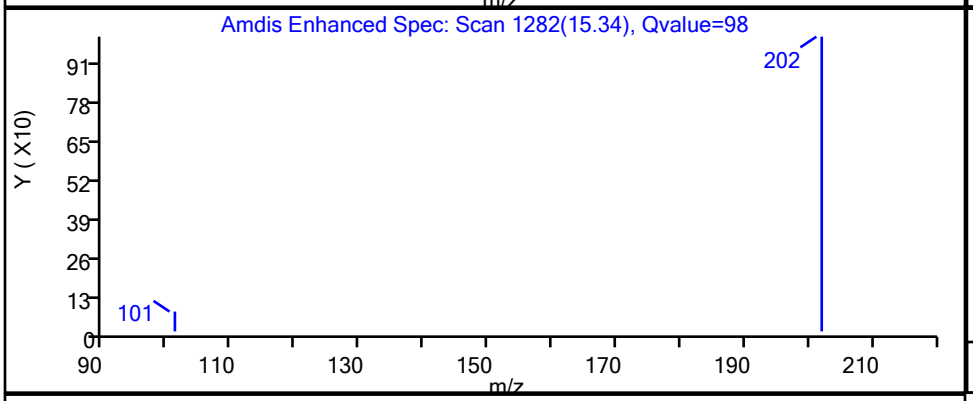
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0462.D				
Injection Date:	08-Apr-2021 14:27:41	Instrument ID:	HP21585		
Lims ID:	410-34553-D-13-A	Lab Sample ID:	410-34553-13		
Client ID:	MW-11D-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

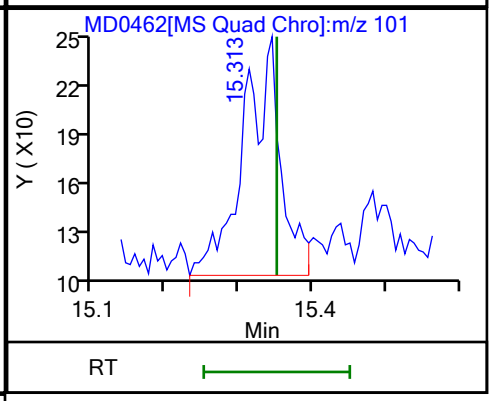
25 Fluoranthene, CAS: 206-44-0

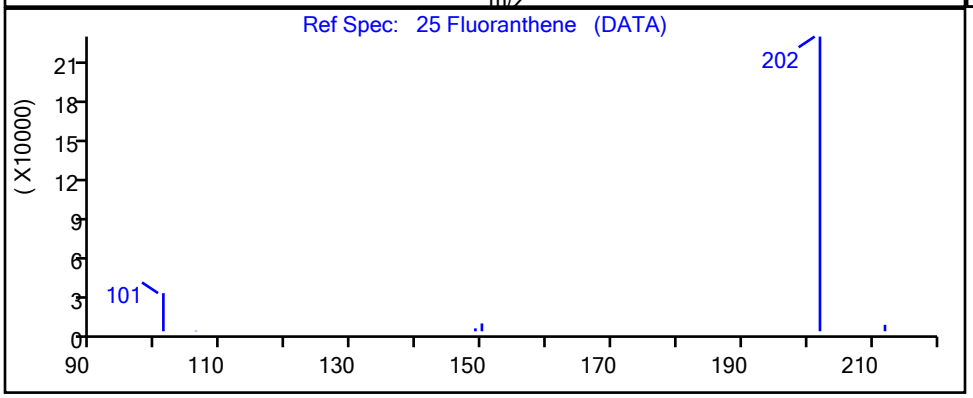
Processing Results











RT	Mass	Response	Amount
15.34	202.00	1919	0.003800
15.31	101.00	468	

Reviewer: transuea, 08-Apr-2021 17:44:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

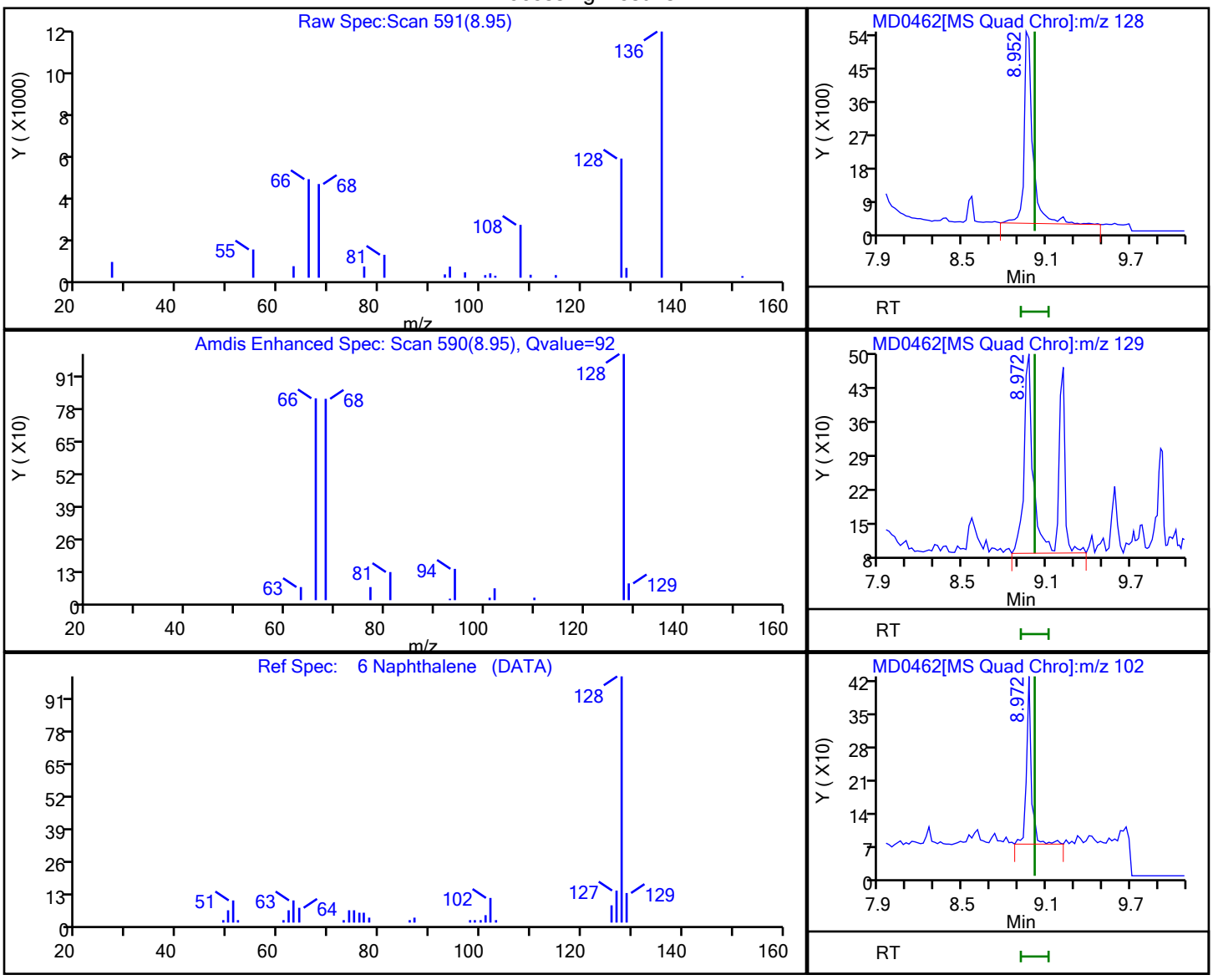
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0462.D				
Injection Date:	08-Apr-2021 14:27:41	Instrument ID:	HP21585		
Lims ID:	410-34553-D-13-A	Lab Sample ID:	410-34553-13		
Client ID:	MW-11D-20210401				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	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	22703	0.054039
8.97	129.00	2894	
8.97	102.00	871	

Reviewer: transuea, 08-Apr-2021 17:44:06

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-4S-20210402 Lab Sample ID: 410-34553-14

Matrix: Groundwater Lab File ID: MD0463.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 09:44

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 14:58

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.: 112126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	0.61		0.050	0.010
120-12-7	Anthracene	0.21		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	2.0		0.050	0.010
86-73-7	Fluorene	4.3		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	0.073		0.070	0.030
129-00-0	Pyrene	2.0		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	45		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	41	S1-	49-115
93951-69-0	Fluoranthene-d10 (Surr)	56	S1-	65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D
Lims ID: 410-34553-D-14-A
Client ID: MW-4S-20210402
Sample Type: Client
Inject. Date: 08-Apr-2021 14:58:15 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-14-A
Misc. Info.: 410-0026143-014
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 10:12:04 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	86	27198	0.2500	
* 5 Naphthalene-d8	136	8.973	8.972	0.001	92	104821	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.001	100	23155	0.1037	
12 Acenaphthylene	152	11.524	11.524	0.000	99	67547	0.1533	
* 13 Acenaphthene-d10	164	11.720	11.719	0.001	99	60739	0.2500	
14 Acenaphthene	154	11.768	11.769	0.000	89	1058408	3.72	E
17 Fluorene	166	12.423	12.423	0.000	96	361621	1.08	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	95	108933	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	99	8320	0.0183	
22 Anthracene	178	13.710	13.718	-0.008	100	23094	0.0522	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	98	58455	0.1392	
25 Fluoranthene	202	15.345	15.351	-0.006	100	253473	0.5004	
26 Pyrene	202	15.696	15.702	-0.006	100	330313	0.4887	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	117711	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.001	99	57809	0.1132	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	146637	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

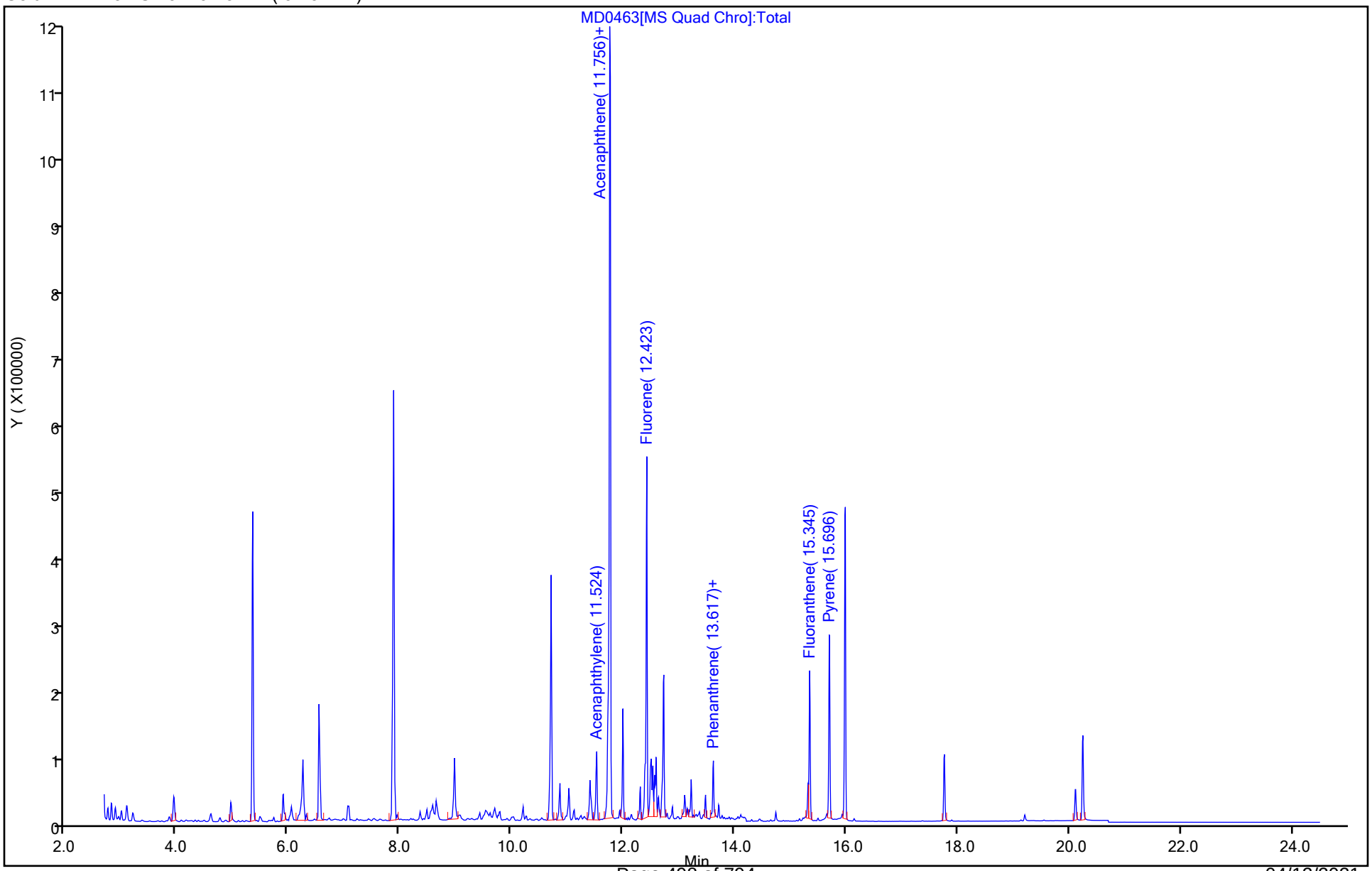
Report Date: 09-Apr-2021 10:12:04 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D

Injection Date:	08-Apr-2021 14:58:15	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-14-A	Lab Sample ID:	410-34553-14	Worklist Smp#:	14
Client ID:	MW-4S-20210402				
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)

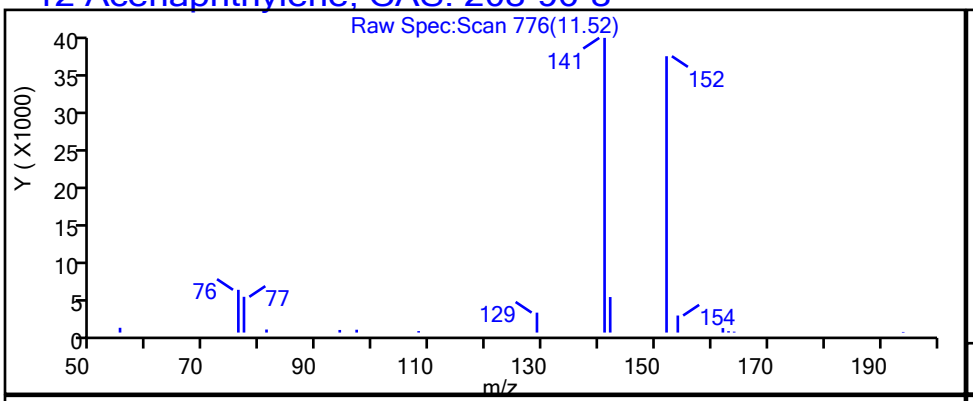


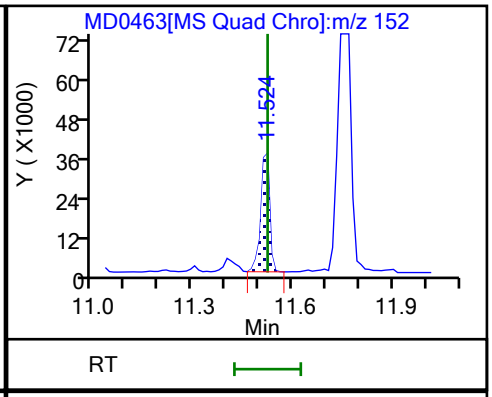
Report Date: 09-Apr-2021 10:12:04 Chrom Revision: 2.3 08-Apr-2021 17:17:48

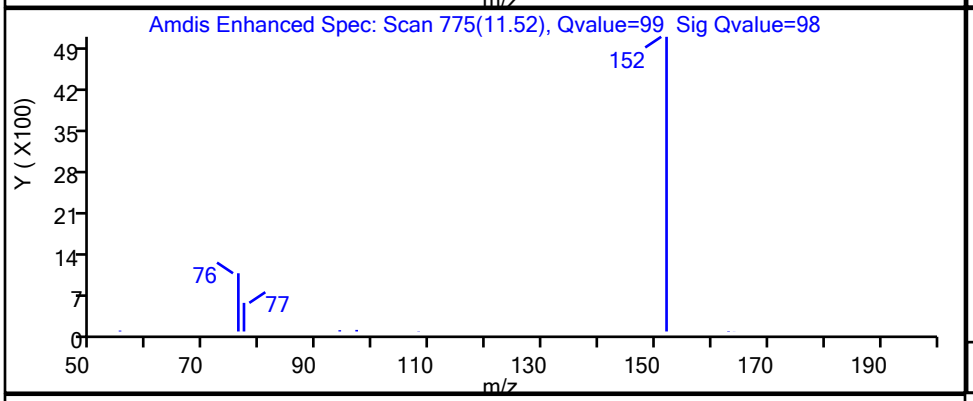
Eurofins Lancaster Laboratories Env, LLC

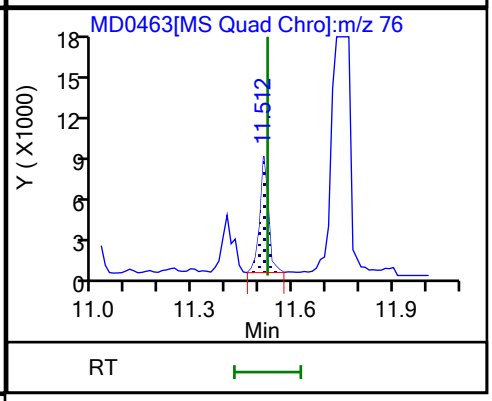
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D				
Injection Date:	08-Apr-2021 14:58:15	Instrument ID:	HP21585		
Lims ID:	410-34553-D-14-A	Lab Sample ID:	410-34553-14		
Client ID:	MW-4S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

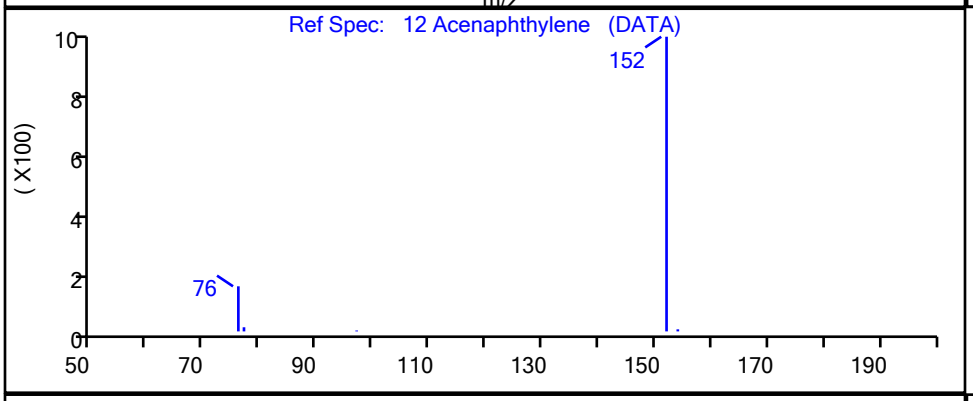
12 Acenaphthylene, CAS: 208-96-8

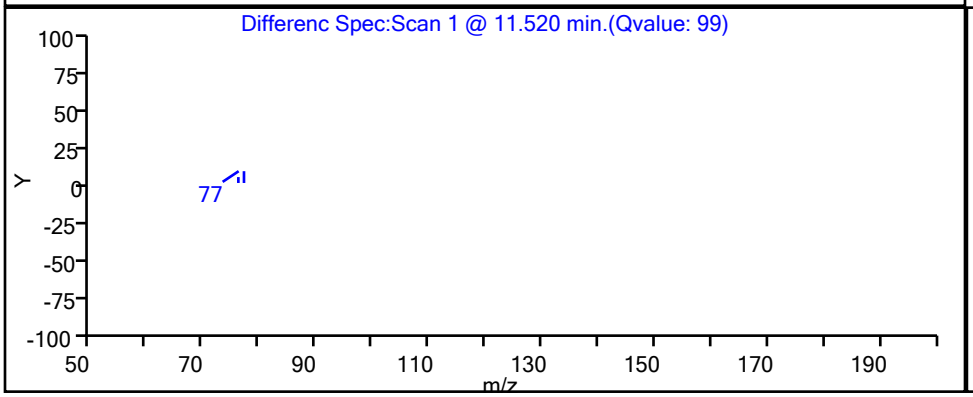


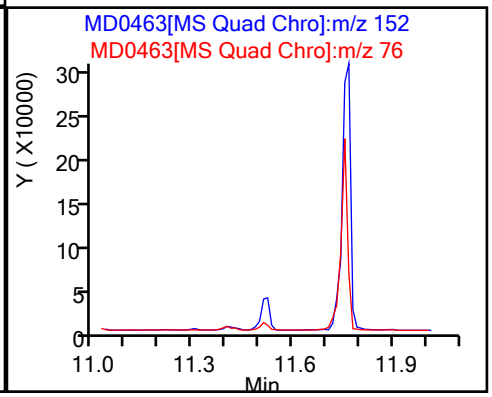








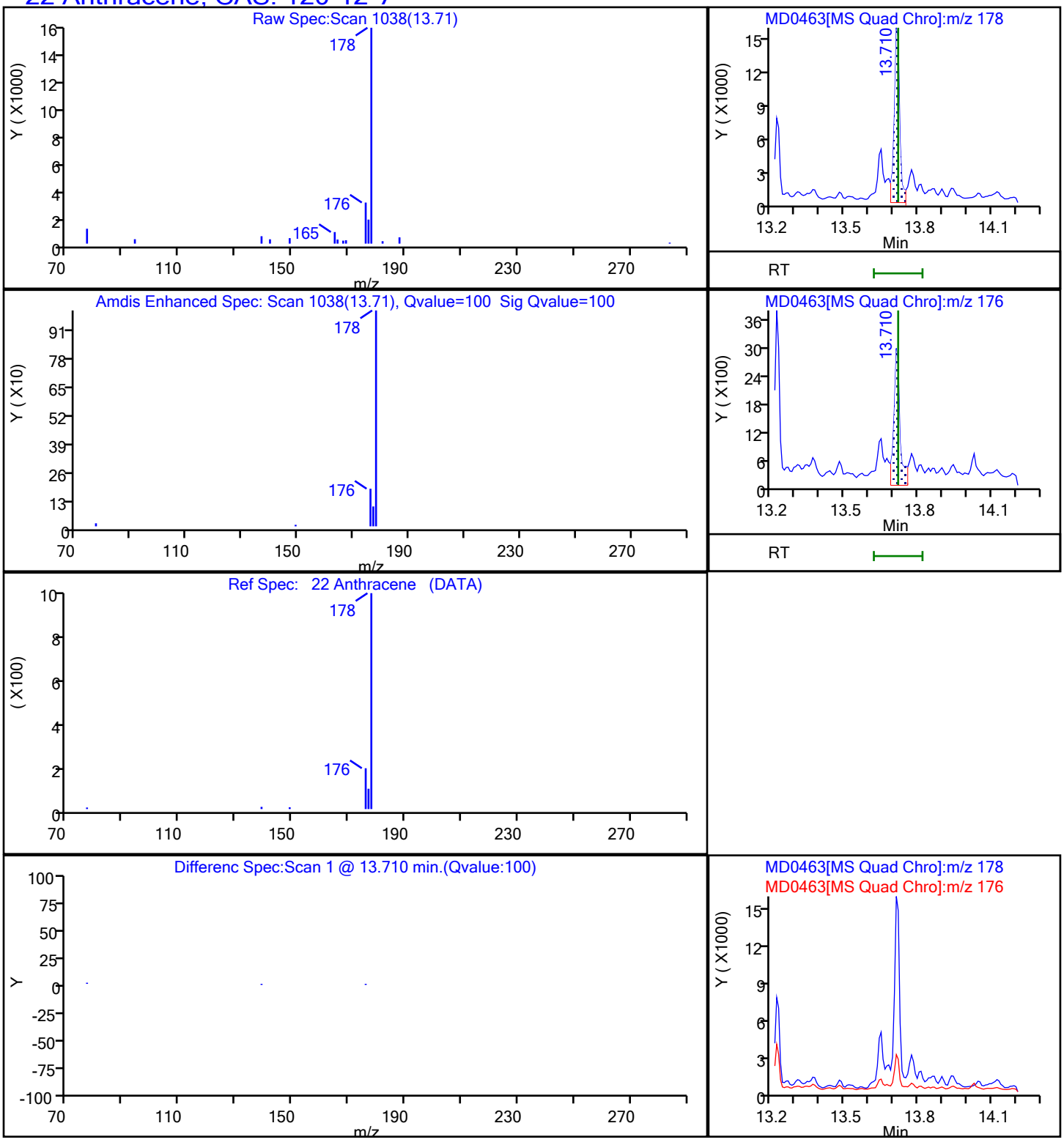




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D		
Injection Date:	08-Apr-2021 14:58:15	Instrument ID:	HP21585
Lims ID:	410-34553-D-14-A	Lab Sample ID:	410-34553-14
Client ID:	MW-4S-20210402		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

22 Anthracene, CAS: 120-12-7

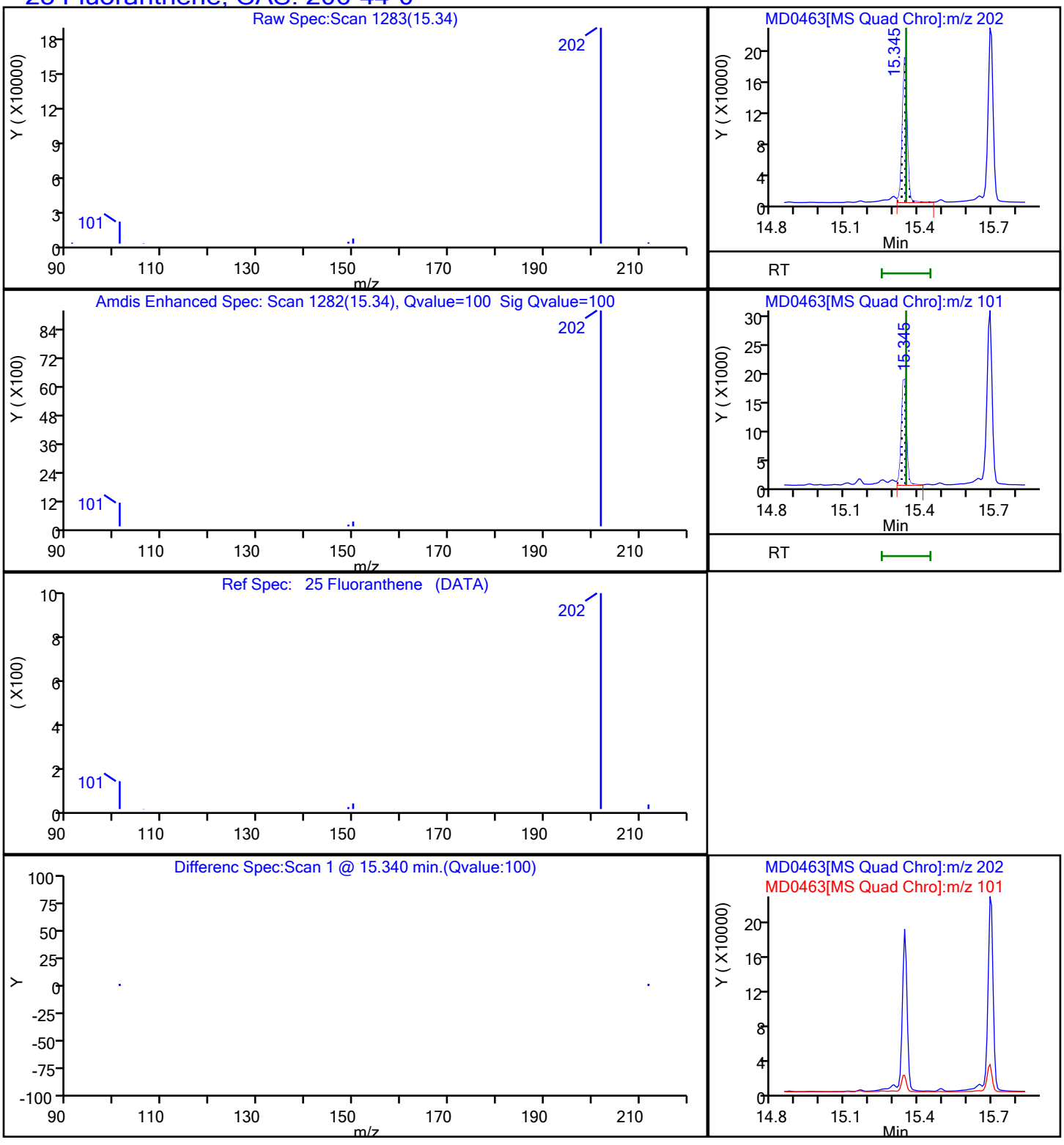


Report Date: 09-Apr-2021 10:12:05 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D				
Injection Date:	08-Apr-2021 14:58:15	Instrument ID:	HP21585		
Lims ID:	410-34553-D-14-A	Lab Sample ID:	410-34553-14		
Client ID:	MW-4S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

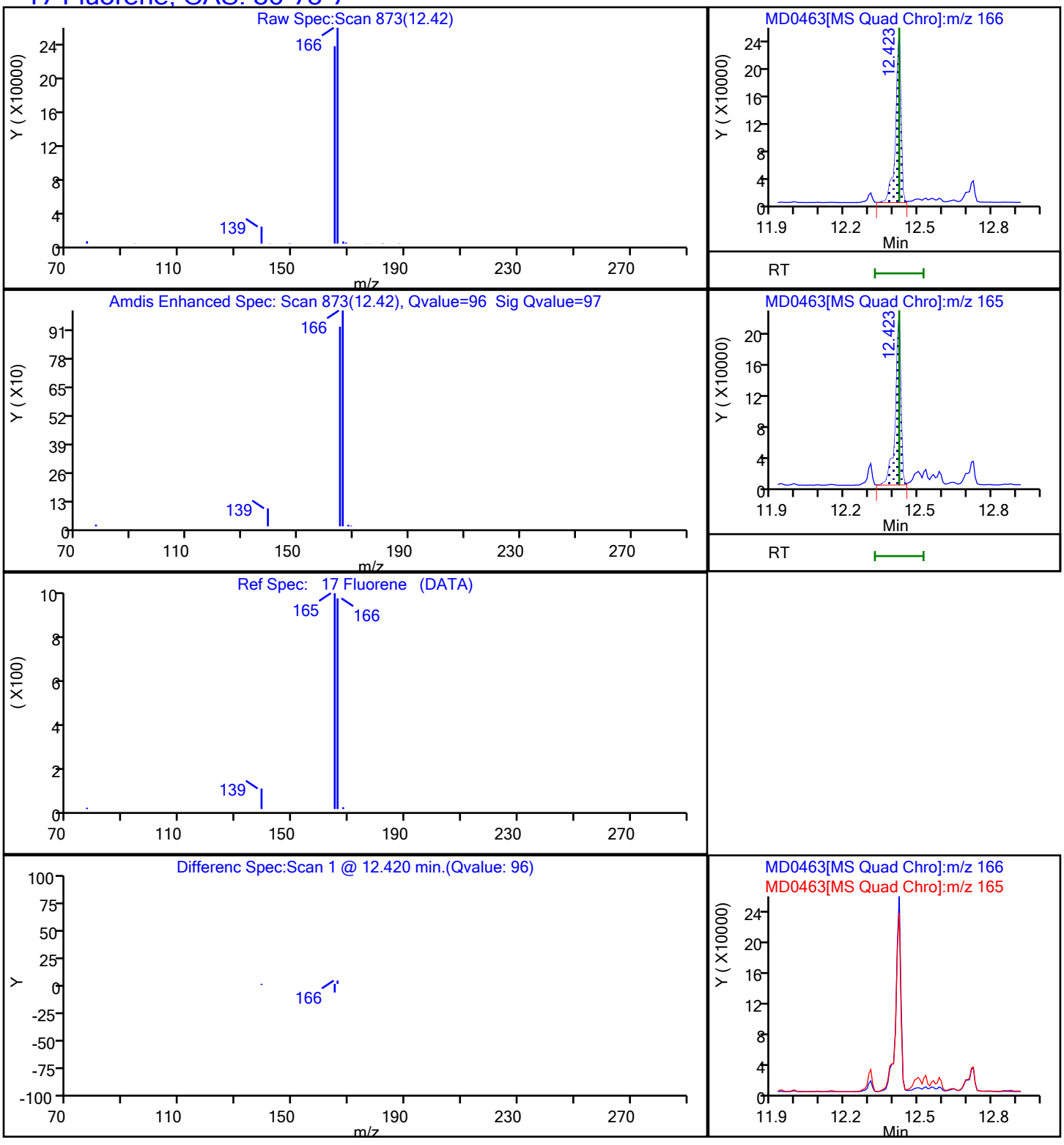
25 Fluoranthene, CAS: 206-44-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D				
Injection Date:	08-Apr-2021 14:58:15	Instrument ID:	HP21585		
Lims ID:	410-34553-D-14-A	Lab Sample ID:	410-34553-14		
Client ID:	MW-4S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

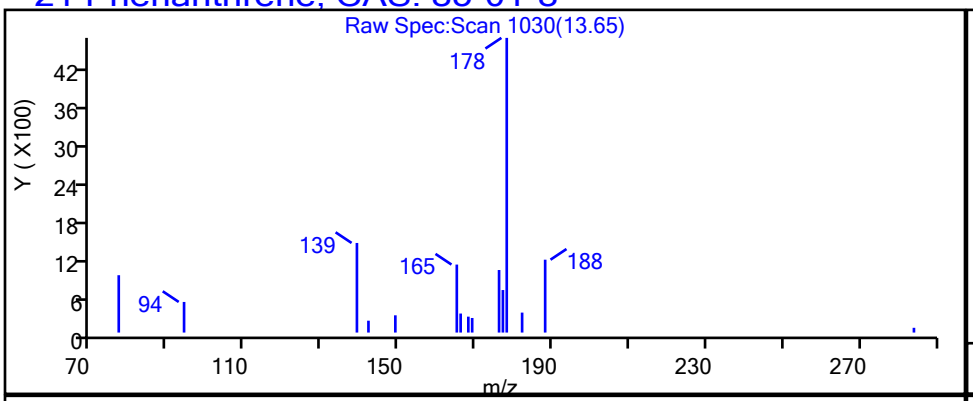
17 Fluorene, CAS: 86-73-7

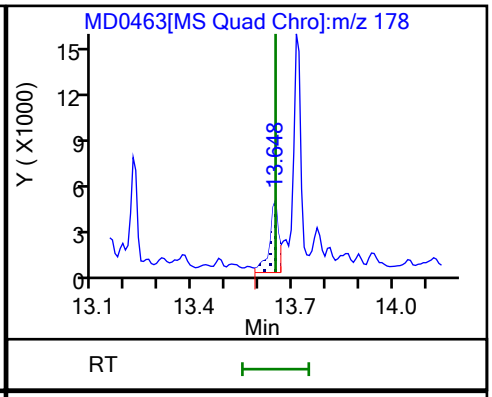


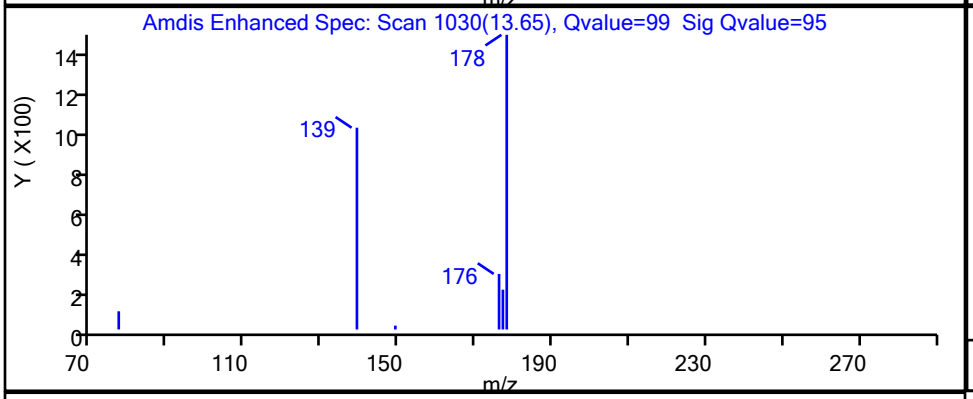
Eurofins Lancaster Laboratories Env, LLC

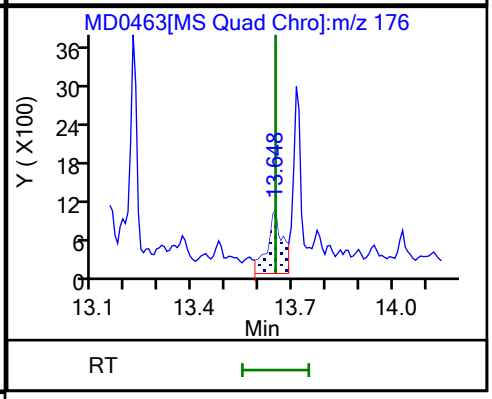
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D		
Injection Date:	08-Apr-2021 14:58:15	Instrument ID:	HP21585
Lims ID:	410-34553-D-14-A	Lab Sample ID:	410-34553-14
Client ID:	MW-4S-20210402		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

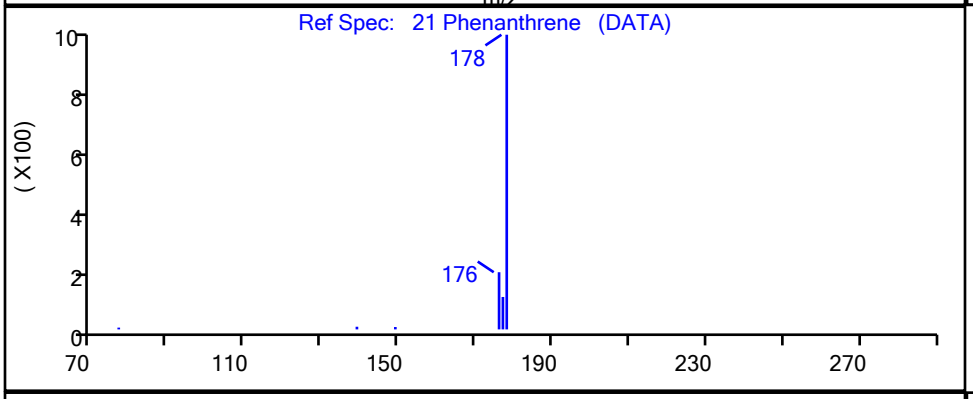
21 Phenanthrene, CAS: 85-01-8

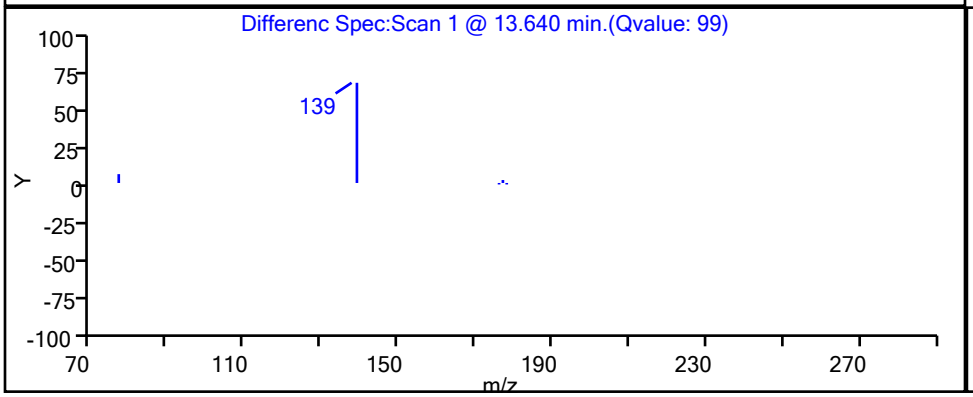


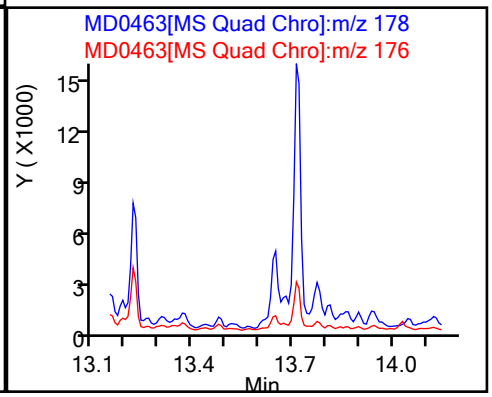










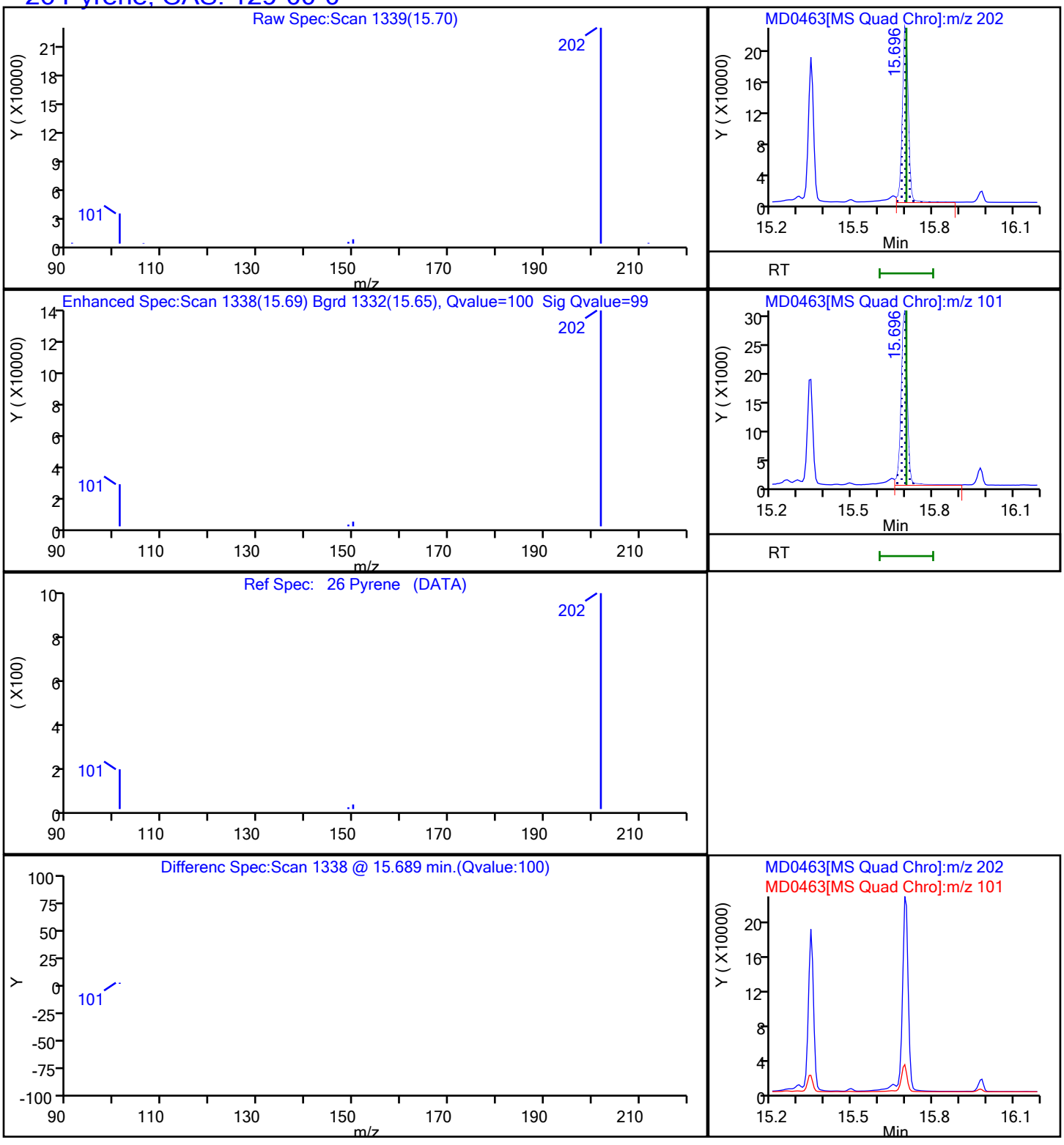


Report Date: 09-Apr-2021 10:12:05 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0463.D				
Injection Date:	08-Apr-2021 14:58:15	Instrument ID:	HP21585		
Lims ID:	410-34553-D-14-A	Lab Sample ID:	410-34553-14		
Client ID:	MW-4S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	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



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-4S-20210402 DL Lab Sample ID: 410-34553-14 DL

Matrix: Groundwater Lab File ID: MD0503.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 09:44

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 23:20

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.: 112543 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	15		0.25	0.050

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	40		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	39	S1-	49-115
93951-69-0	Fluoranthene-d10 (Surr)	54	S1-	65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0503.D				
Lims ID:	410-34553-D-14-A DL				
Client ID:	MW-4S-20210402				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 23:20:38	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Sample Info:	410-34553-D-14-A				
Misc. Info.:	410-0026241-004				
Operator ID:	art12405	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	09-Apr-2021 06:05:13	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1660				
First Level Reviewer: gamblerj		Date:	09-Apr-2021 03:21:23		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	99	29835	0.2500	
* 5 Naphthalene-d8	136	8.952	8.952	0.000	92	113468	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	100	4674	0.0193	
12 Acenaphthylene	152	11.499	11.500	0.000	99	13650	0.0290	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	96	64846	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	225251	0.7421	
17 Fluorene	166	12.399	12.407	-0.008	97	76704	0.2146	
* 20 Phenanthrene-d10	188	13.593	13.593	0.000	95	123910	0.2500	
22 Anthracene	178	13.695	13.695	0.000	100	4761	0.009452	
$ 24 Fluoranthene-d10 (Surr)	212	15.294	15.294	0.000	98	12845	0.0269	
25 Fluoranthene	202	15.326	15.326	0.000	100	55492	0.0963	
26 Pyrene	202	15.677	15.677	0.000	99	70113	0.1021	
* 29 Chrysene-d12	240	17.739	17.739	0.000	55	119565	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.093	20.094	0.000	99	9278	0.0200	
* 38 Perylene-d12	264	20.224	20.224	0.000	99	133244	0.2500	

QC Flag Legend

Processing Flags

Reagents:

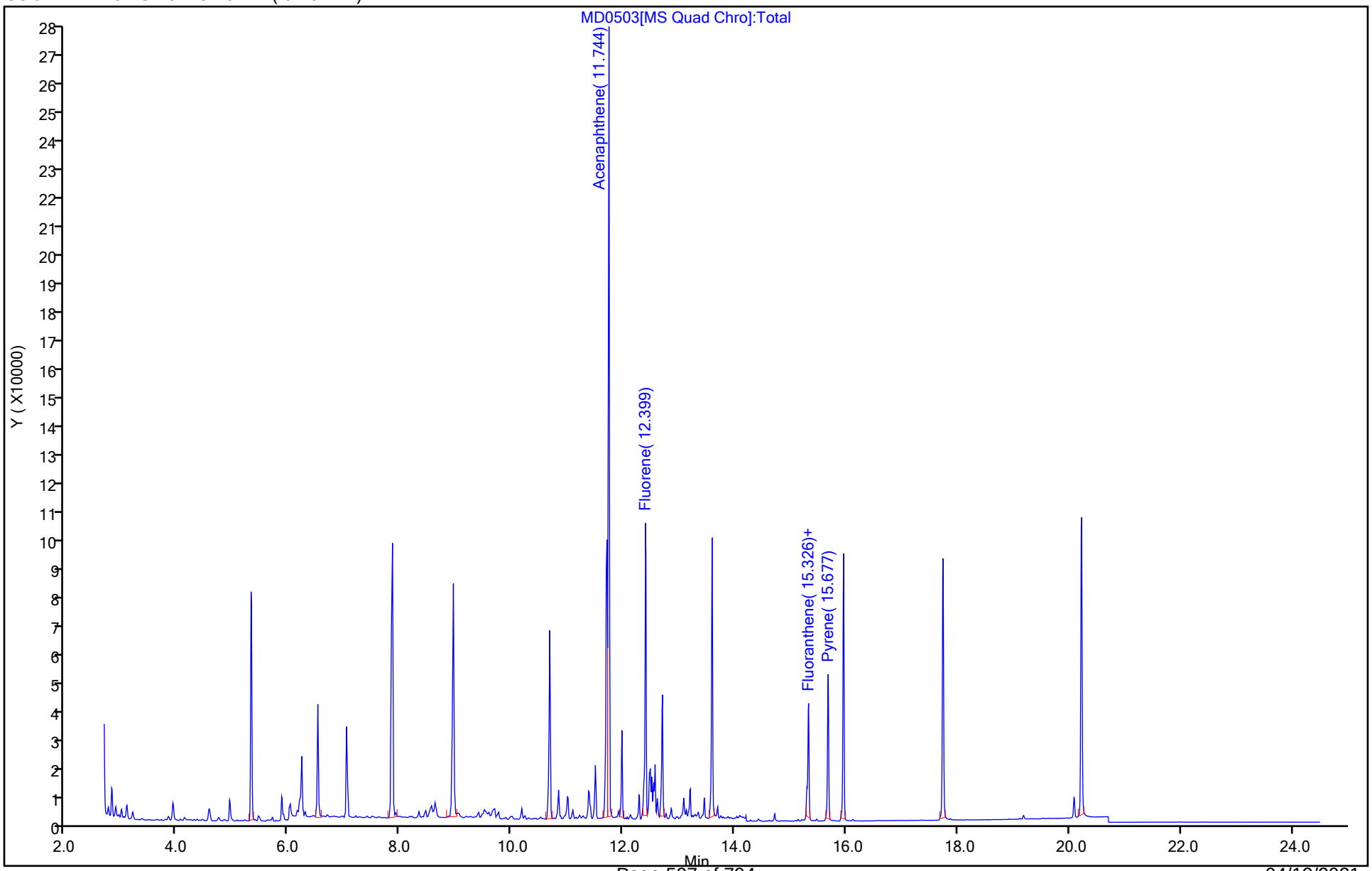
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Apr-2021 06:05:36 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0503.D				
Injection Date:	08-Apr-2021 23:20:38	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-14-A DL	Lab Sample ID:	410-34553-14	Worklist Smp#:	4
Client ID:	MW-4S-20210402				
Injection Vol:	1.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



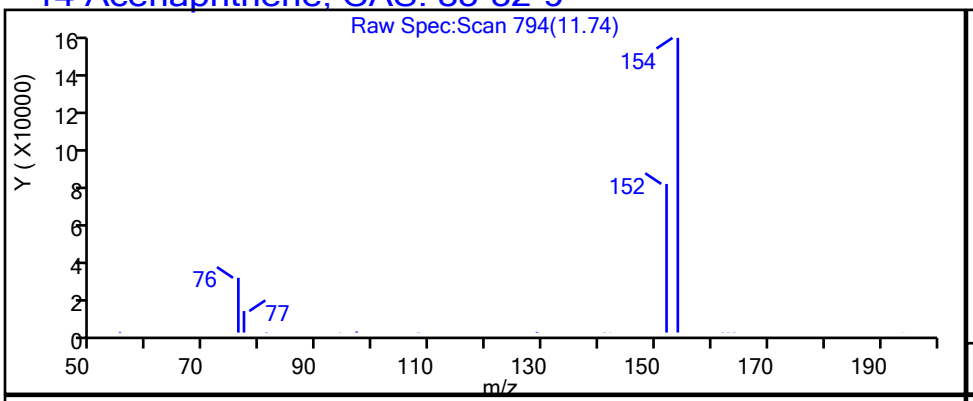
Report Date: 09-Apr-2021 06:05:36 Chrom Revision: 2.3 08-Apr-2021 17:17:48

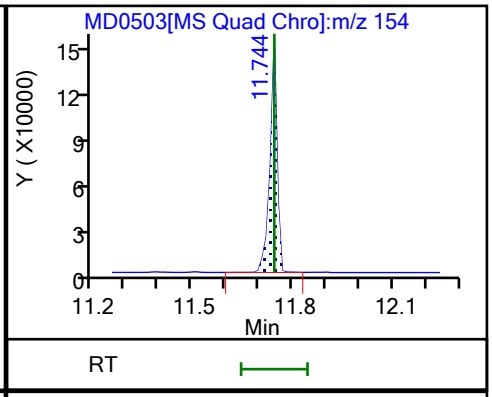
Eurofins Lancaster Laboratories Env, LLC

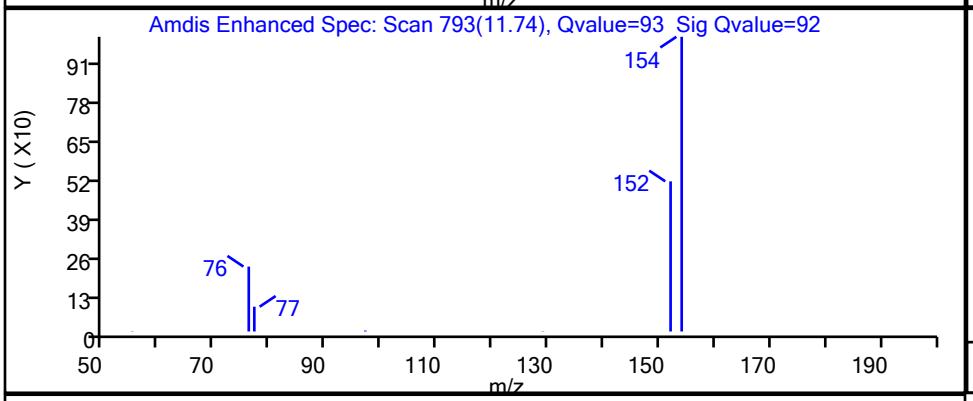
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0503.D

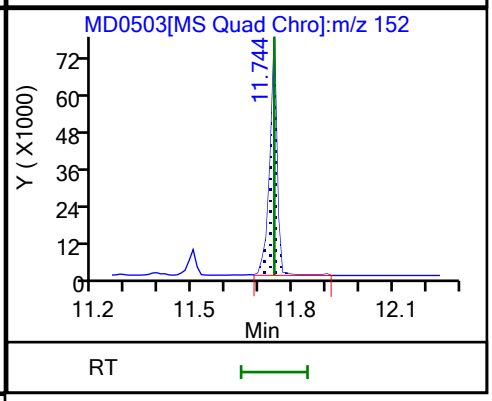
Injection Date:	08-Apr-2021 23:20:38	Instrument ID:	HP21585		
Lims ID:	410-34553-D-14-A DL	Lab Sample ID:	410-34553-14		
Client ID:	MW-4S-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

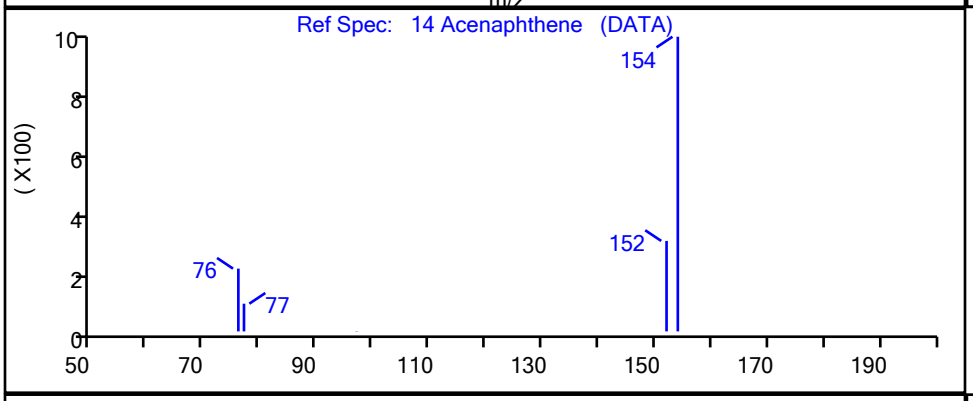
14 Acenaphthene, CAS: 83-32-9

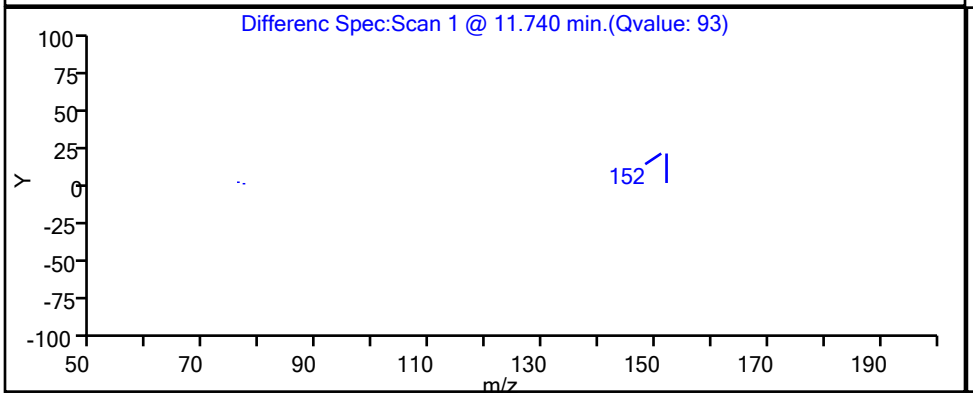


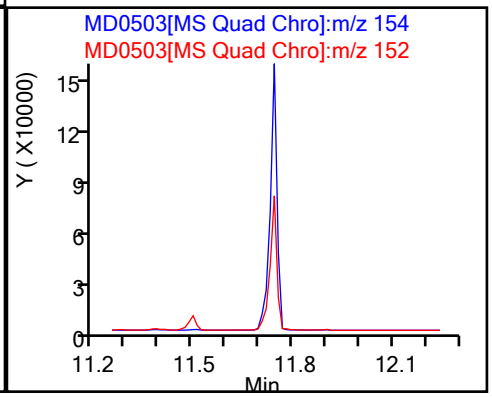












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-4D-20210402 Lab Sample ID: 410-34553-15

Matrix: Groundwater Lab File ID: MD0464.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 10:26

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 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.: 112126 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)	51		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	65		49-115
93951-69-0	Fluoranthene-d10 (Surr)	85		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0464.D				
Lims ID:	410-34553-D-15-A				
Client ID:	MW-4D-20210402				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 15:28:45	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-15-A				
Misc. Info.:	410-0026143-015				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 19:22:22	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1638				
First Level Reviewer: transuea		Date:	08-Apr-2021 17:45:56		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	99	28105	0.2500	
* 5 Naphthalene-d8	136	8.973	8.972	0.001	91	106758	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.001	99	36980	0.1626	
* 13 Acenaphthene-d10	164	11.720	11.719	0.001	97	60565	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	95	114449	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.001	98	93965	0.2130	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	118698	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.001	99	63378	0.1265	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	143898	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

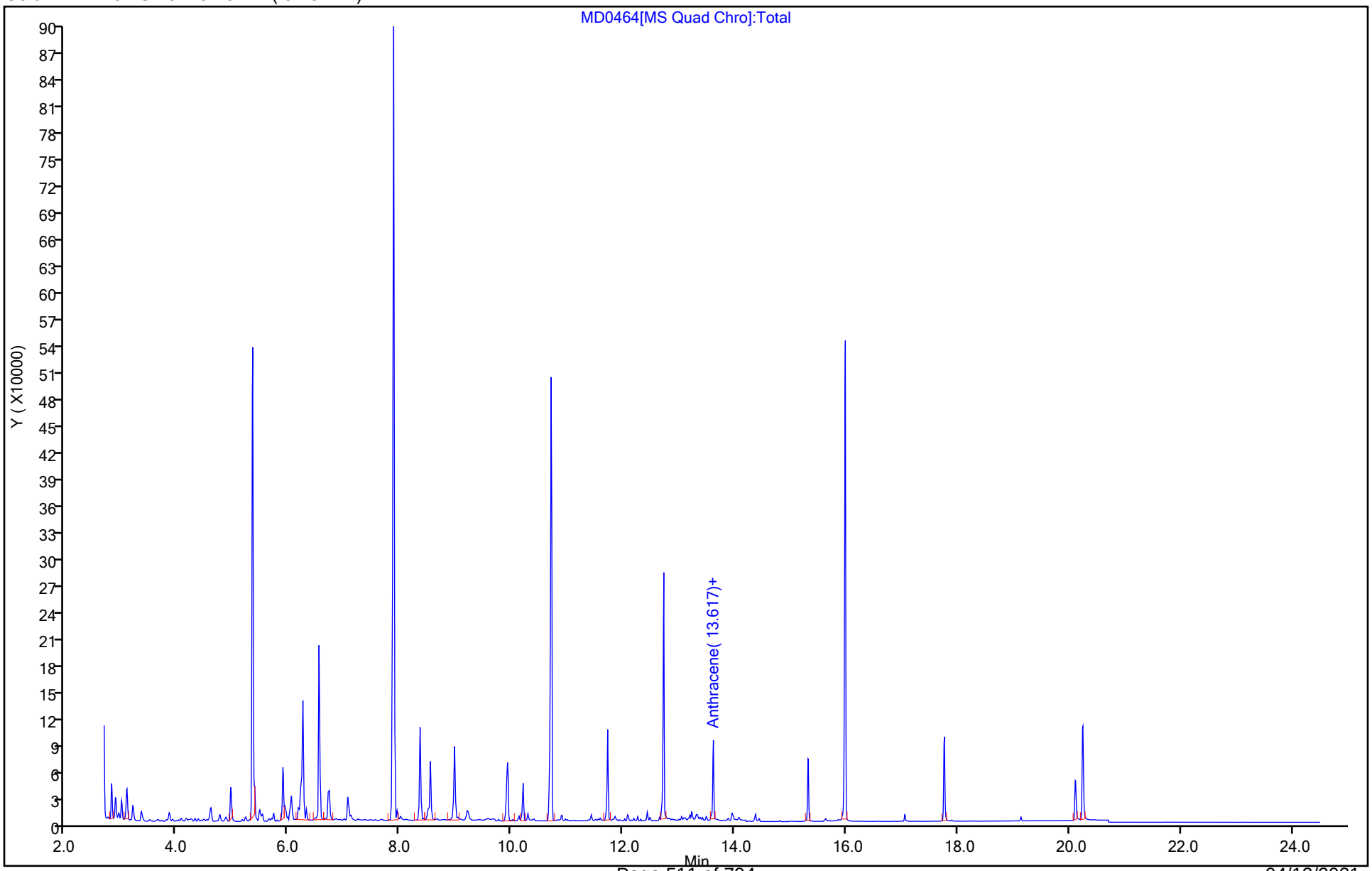
Report Date: 08-Apr-2021 19:23:33 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0464.D

Injection Date:	08-Apr-2021 15:28:45	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-15-A	Lab Sample ID:	410-34553-15	Worklist Smp#:	15
Client ID:	MW-4D-20210402				
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)



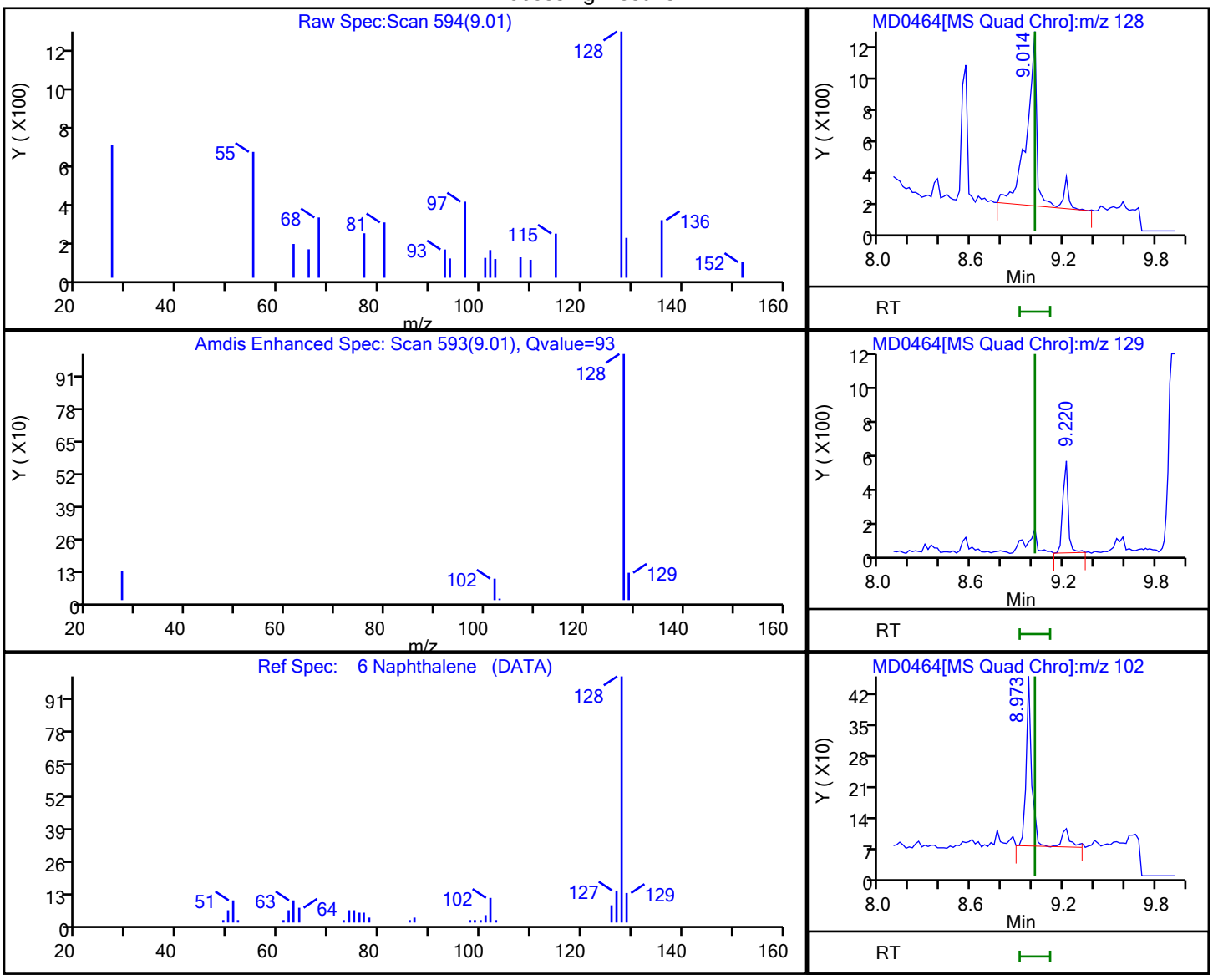
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0464.D				
Injection Date:	08-Apr-2021 15:28:45	Instrument ID:	HP21585		
Lims ID:	410-34553-D-15-A	Lab Sample ID:	410-34553-15		
Client ID:	MW-4D-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	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
9.01	128.00	5617	0.013135
9.22	129.00	1197	
8.97	102.00	1108	

Reviewer: transuea, 08-Apr-2021 17:45:43

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-3-20210402 Lab Sample ID: 410-34553-16

Matrix: Groundwater Lab File ID: MD0465.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 11:07

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 15:59

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.: 112126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	4.1		0.050	0.010
120-12-7	Anthracene	0.80		0.050	0.010
56-55-3	Benzo[a]anthracene	0.81		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.014	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	0.48		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
86-73-7	Fluorene	5.0		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
85-01-8	Phenanthrene	4.7		0.070	0.030
129-00-0	Pyrene	9.1		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	68		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	51		49-115
93951-69-0	Fluoranthene-d10 (Surr)	95		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D
Lims ID: 410-34553-D-16-A
Client ID: MW-3-20210402
Sample Type: Client
Inject. Date: 08-Apr-2021 15:59:10 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-16-A
Misc. Info.: 410-0026143-016
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 19:22:22 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: transuea Date: 08-Apr-2021 17:47:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	95	28890	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	91	123064	0.2500	
6 Naphthalene	128	9.013	9.013	-0.001	93	9691748	19.7	E
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	99	33386	0.1273	
12 Acenaphthylene	152	11.524	11.524	0.000	100	492629	1.03	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	88	66016	0.2500	M
14 Acenaphthene	154	11.768	11.769	0.000	93	2015743	6.52	E
17 Fluorene	166	12.422	12.423	0.000	95	453177	1.25	M
* 20 Phenanthrene-d10	188	13.616	13.617	0.000	95	98904	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	486857	1.18	
22 Anthracene	178	13.710	13.718	-0.008	100	80409	0.2000	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	98	90337	0.2370	
25 Fluoranthene	202	15.344	15.351	-0.007	100	1216454	2.65	E
26 Pyrene	202	15.702	15.702	0.000	100	1652188	2.27	
28 Benzo[a]anthracene	228	17.746	17.747	0.000	100	128538	0.2032	
* 29 Chrysene-d12	240	17.762	17.762	0.000	64	126784	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	77758	0.1197	
33 Benzo[b]fluoranthene	252	19.625	19.618	0.007	99	2168	0.003571	a
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	93	754	0.001176	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	0.000	99	76998	0.1688	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	131006	0.2500	

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_00013 Amount Added: 10.00 Units: uL Run Reagent

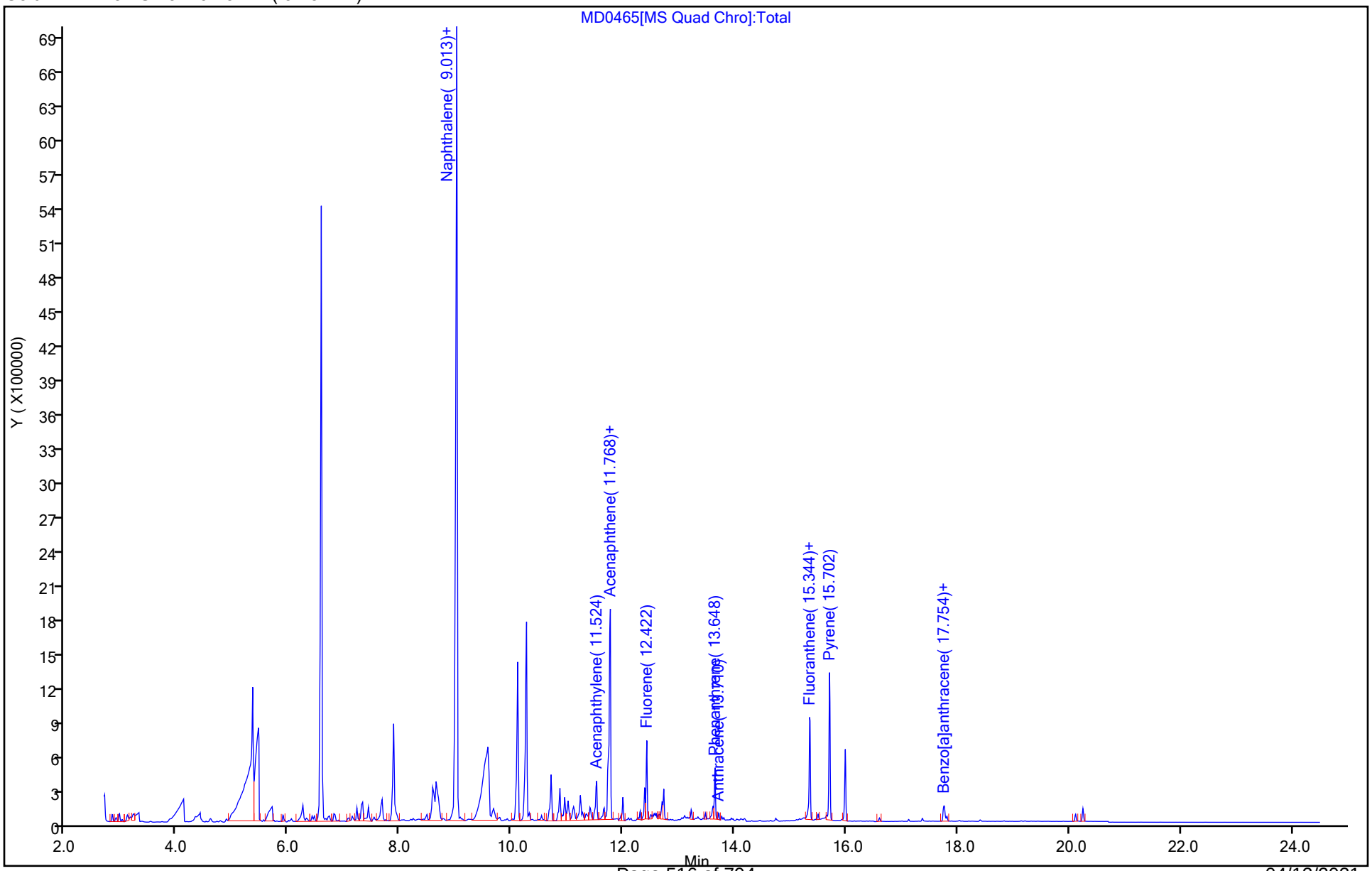
Report Date: 08-Apr-2021 19:23:34 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D

Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16	Worklist Smp#:	16
Client ID:	MW-3-20210402				
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: 08-Apr-2021 19:23:34 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D

Injection Date: 08-Apr-2021 15:59:10 Instrument ID: HP21585

Lims ID: 410-34553-D-16-A Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

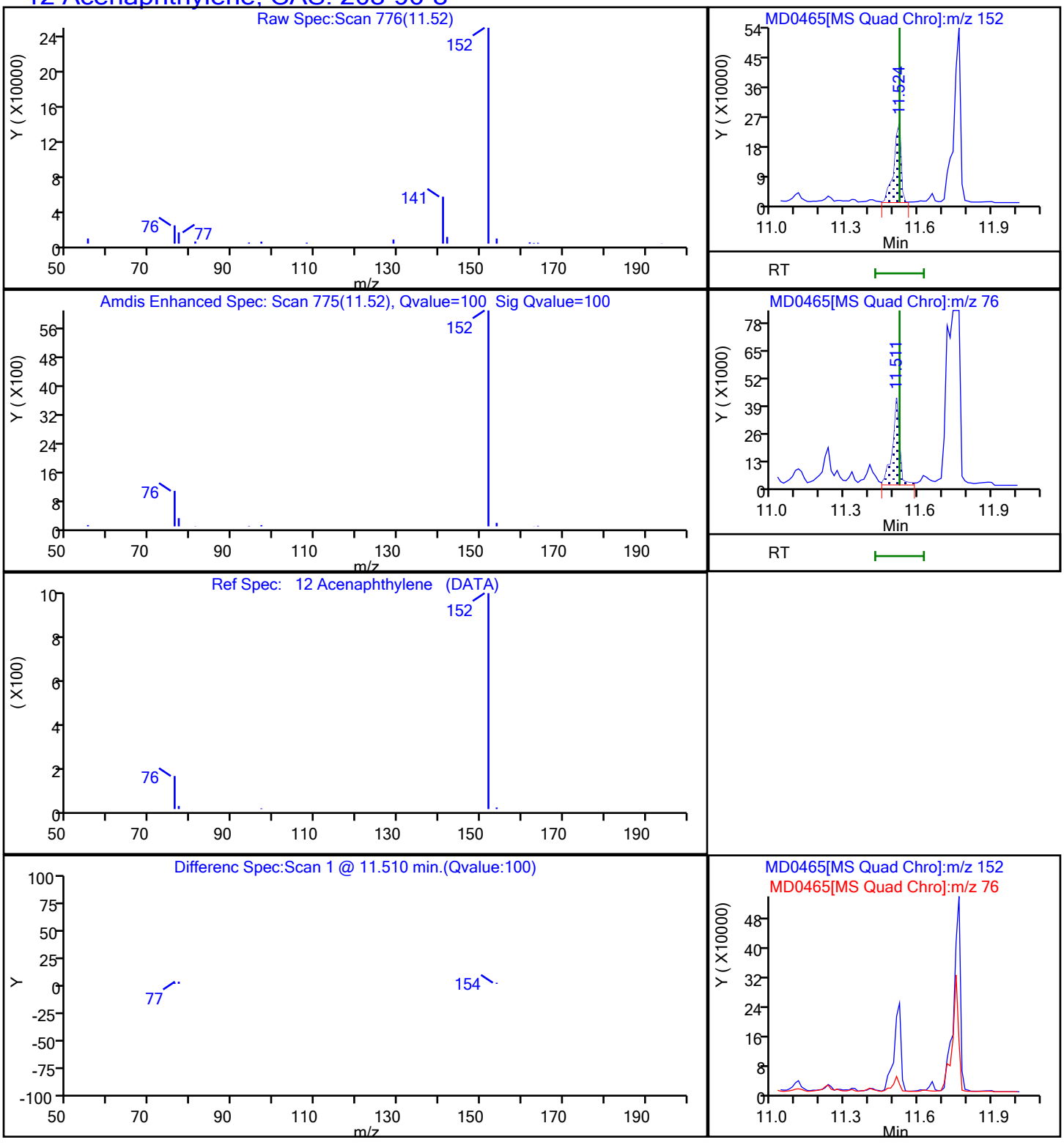
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

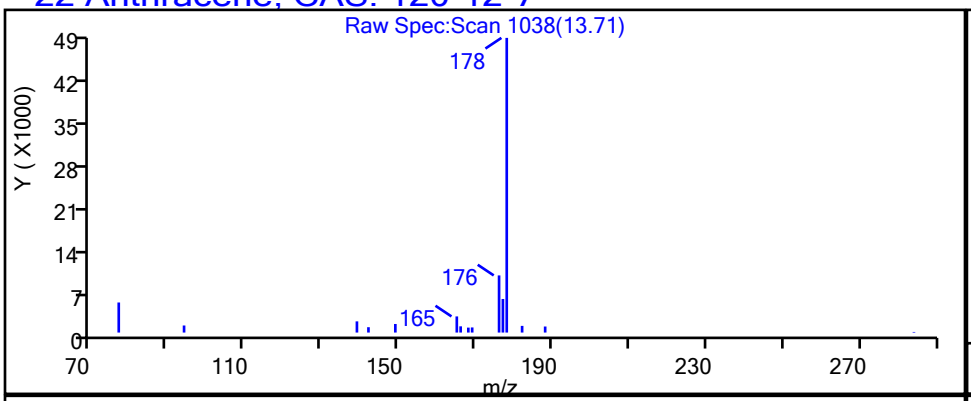
12 Acenaphthylene, CAS: 208-96-8

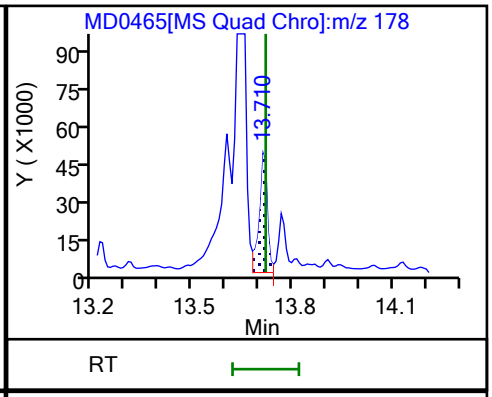


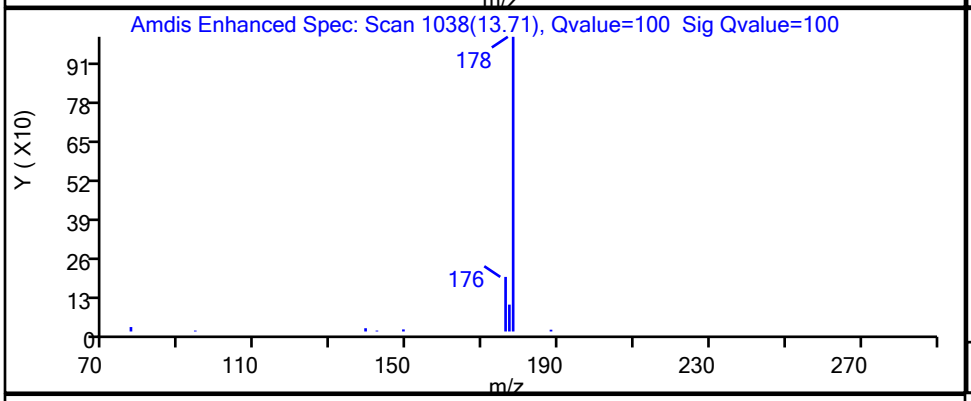
Eurofins Lancaster Laboratories Env, LLC

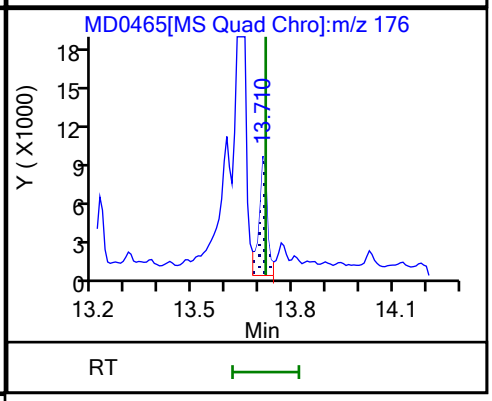
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D		
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16
Client ID:	MW-3-20210402		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

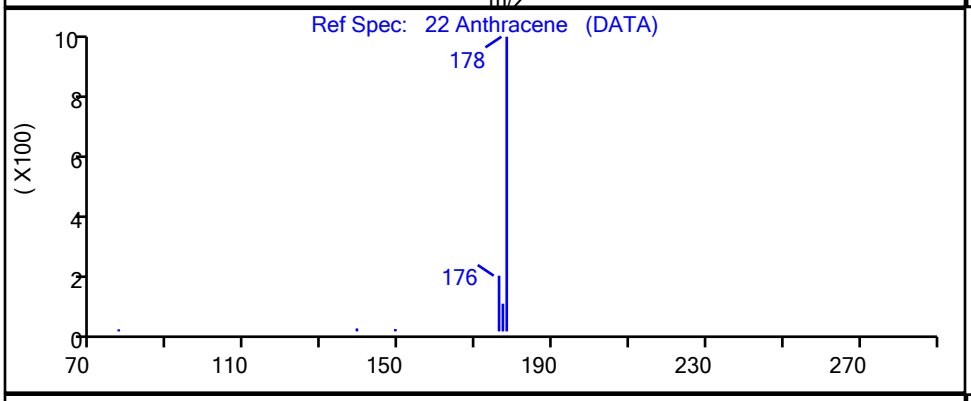
22 Anthracene, CAS: 120-12-7

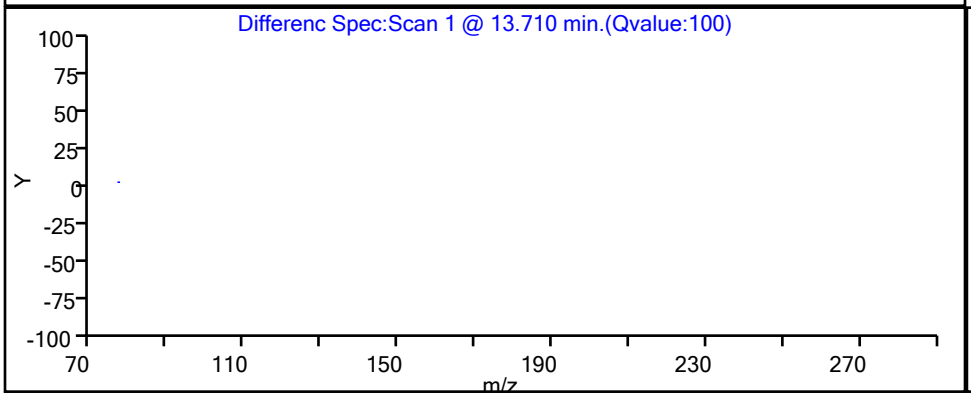


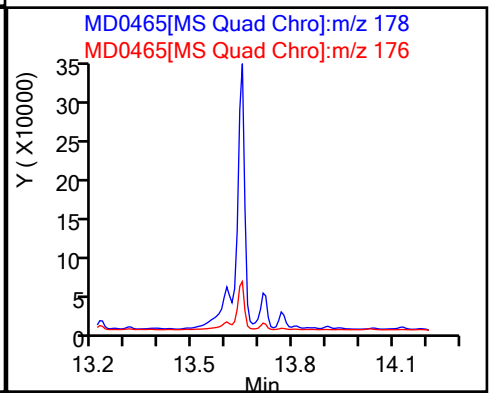












Report Date: 08-Apr-2021 19:23:34 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D

Injection Date: 08-Apr-2021 15:59:10 Instrument ID: HP21585

Lims ID: 410-34553-D-16-A Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

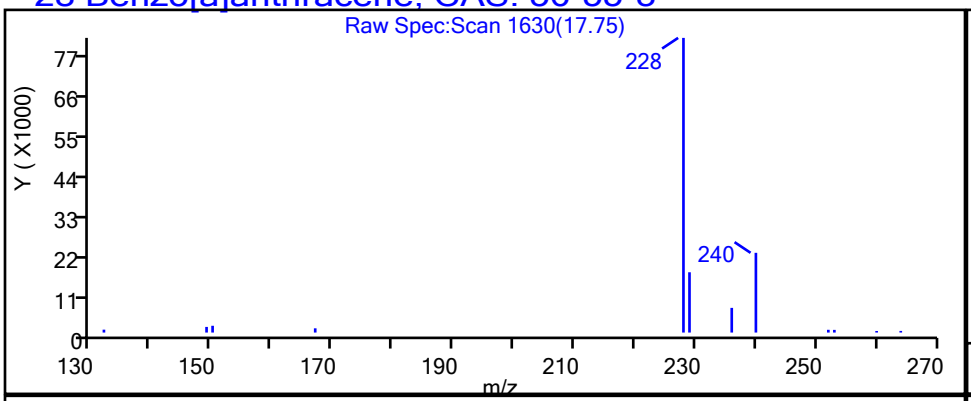
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 16

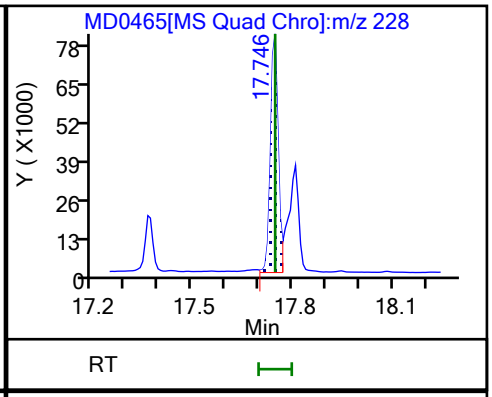
Injection Vol: 1.0 ul Dil. Factor: 1.0000

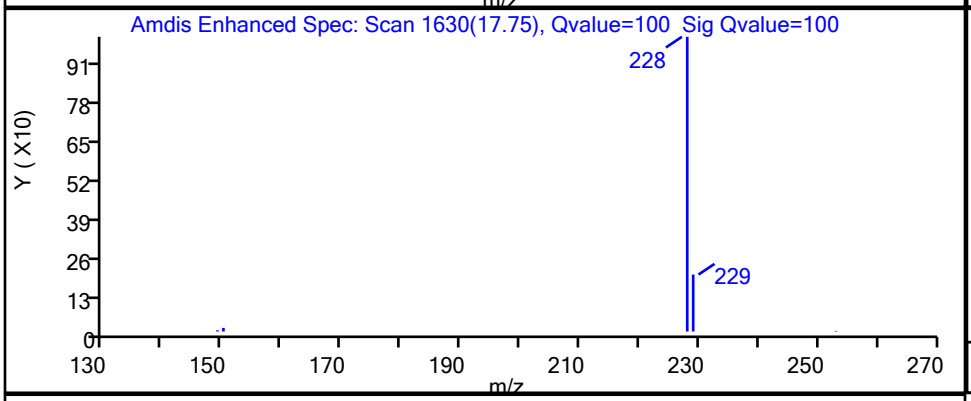
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

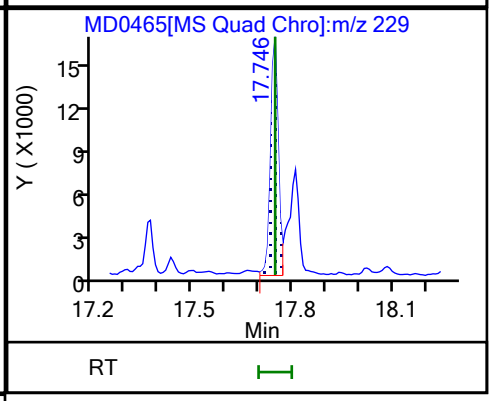
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

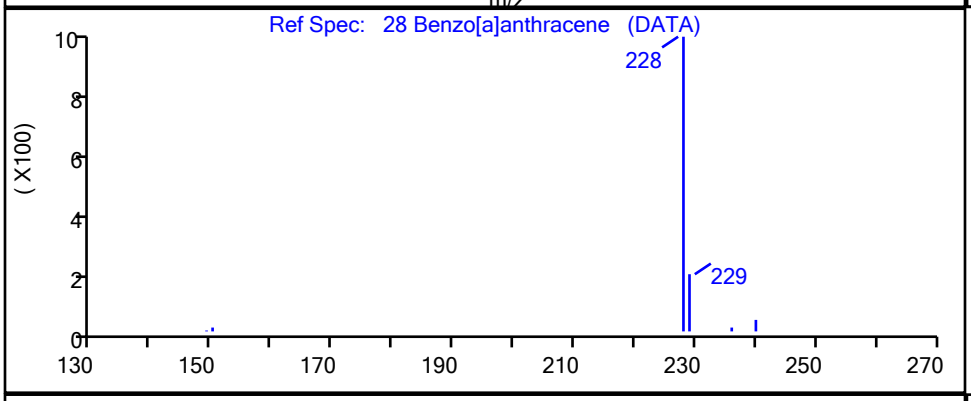
28 Benzo[a]anthracene, CAS: 56-55-3

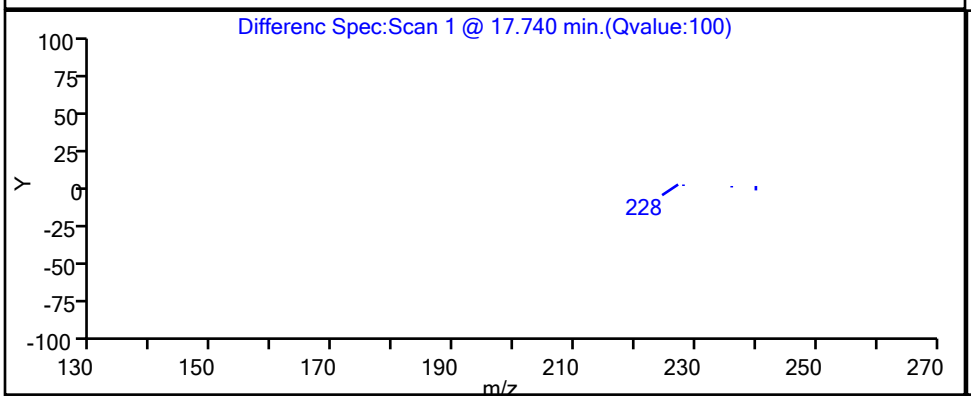


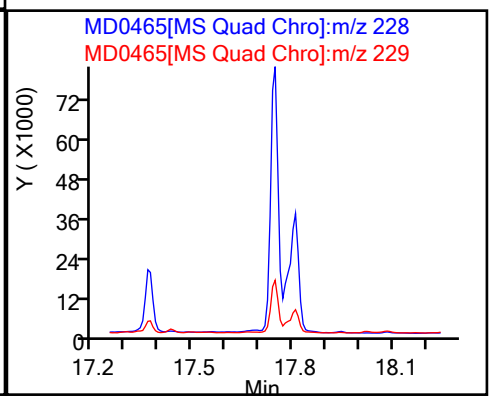










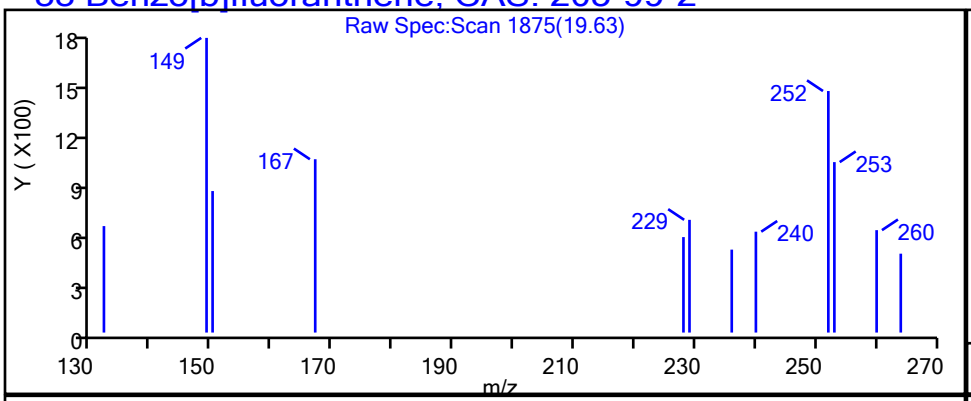


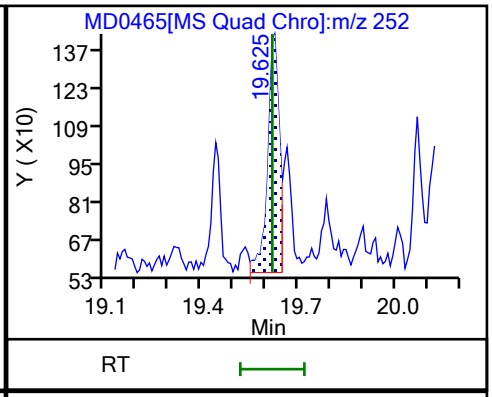
Report Date: 08-Apr-2021 19:23:34 Chrom Revision: 2.3 19-Mar-2021 08:24:58

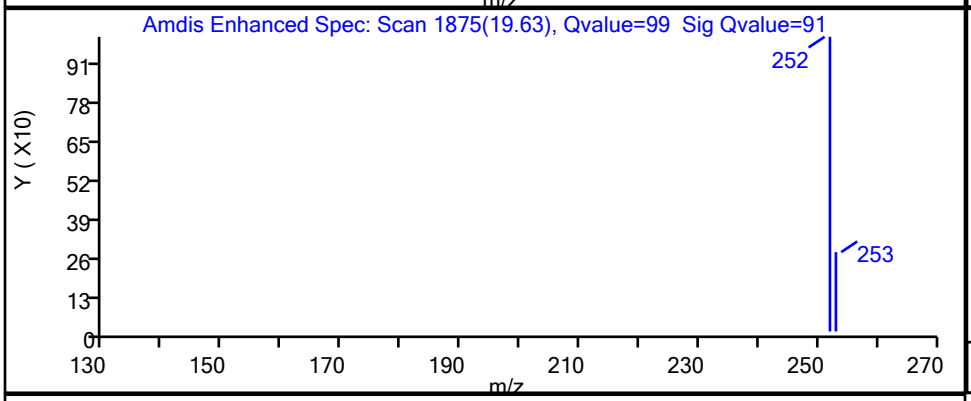
Eurofins Lancaster Laboratories Env, LLC

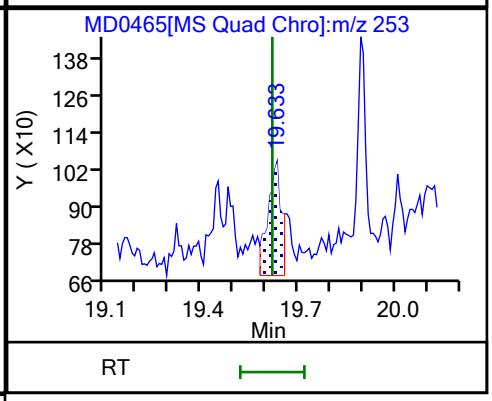
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

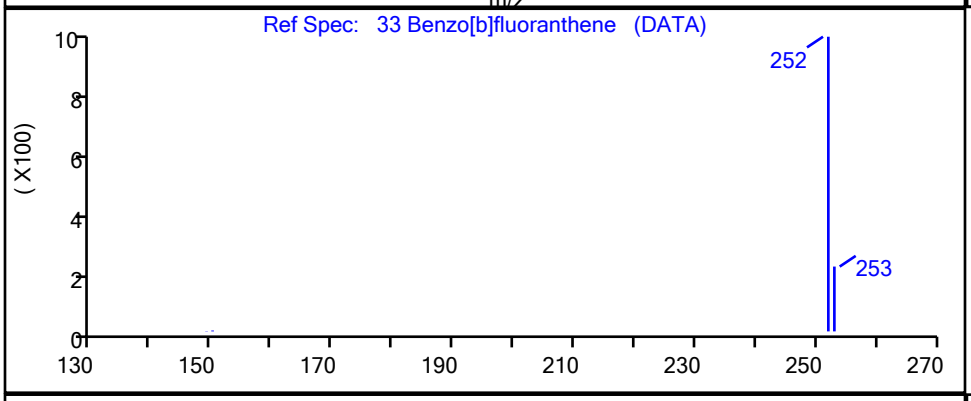
33 Benzo[b]fluoranthene, CAS: 205-99-2

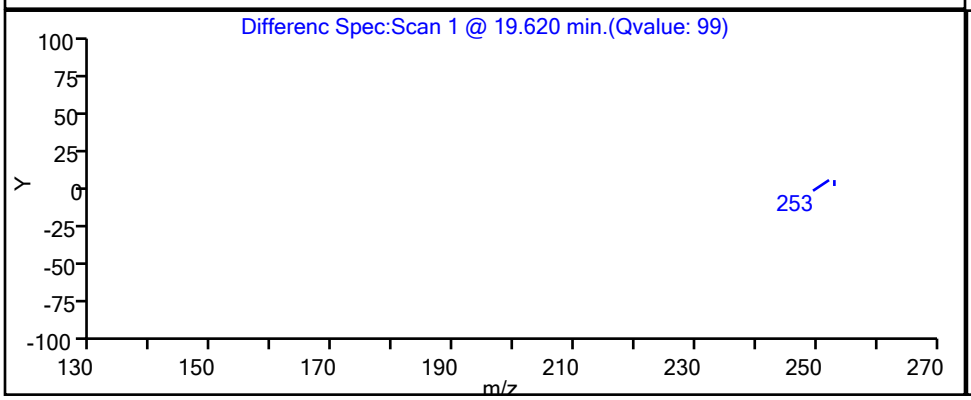


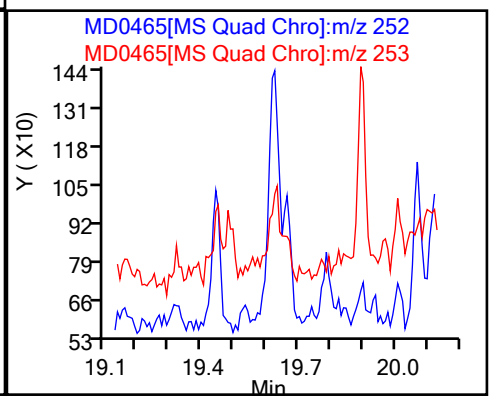












Report Date: 08-Apr-2021 19:23:34 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D

Injection Date: 08-Apr-2021 15:59:10 Instrument ID: HP21585

Lims ID: 410-34553-D-16-A Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

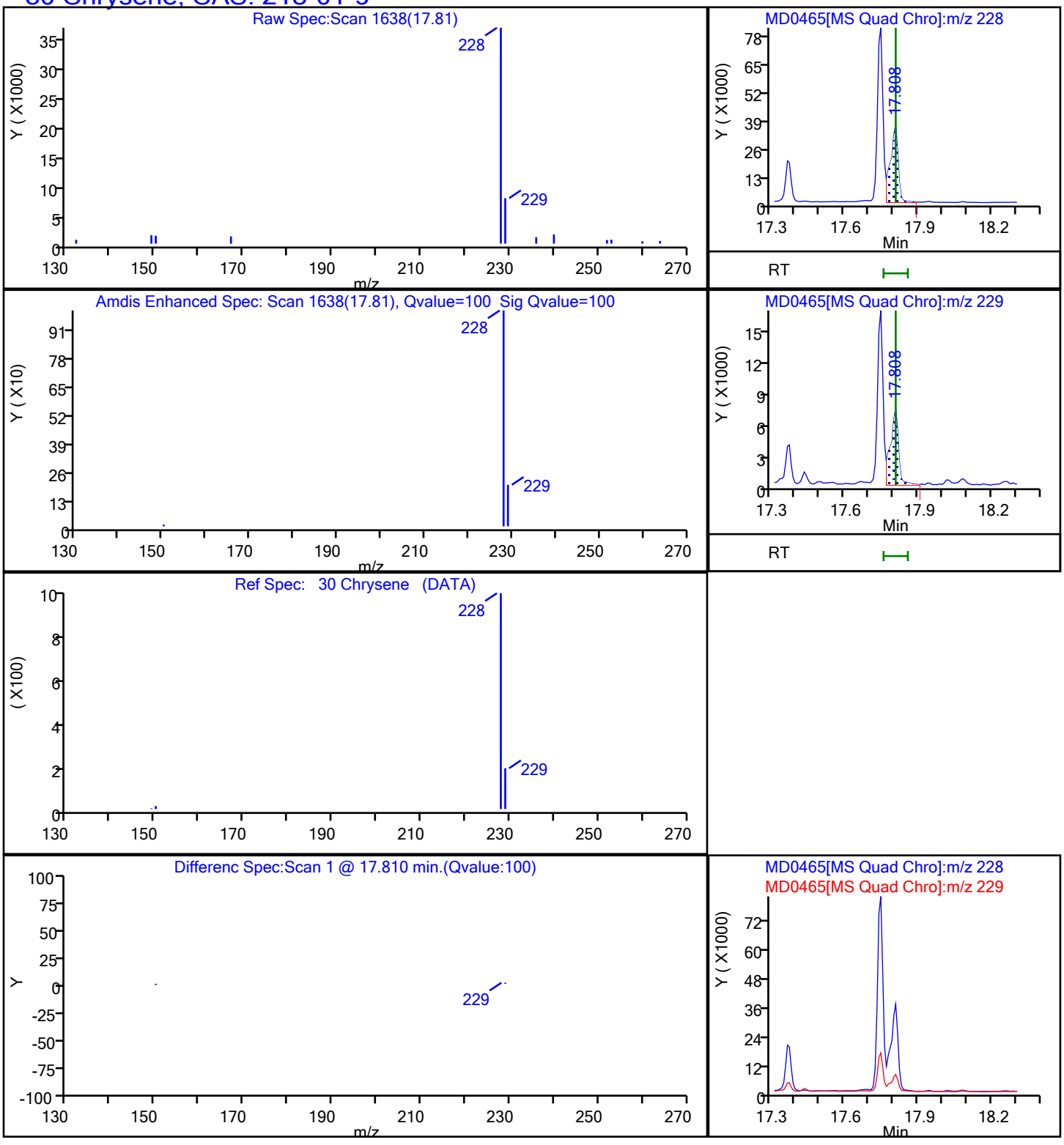
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

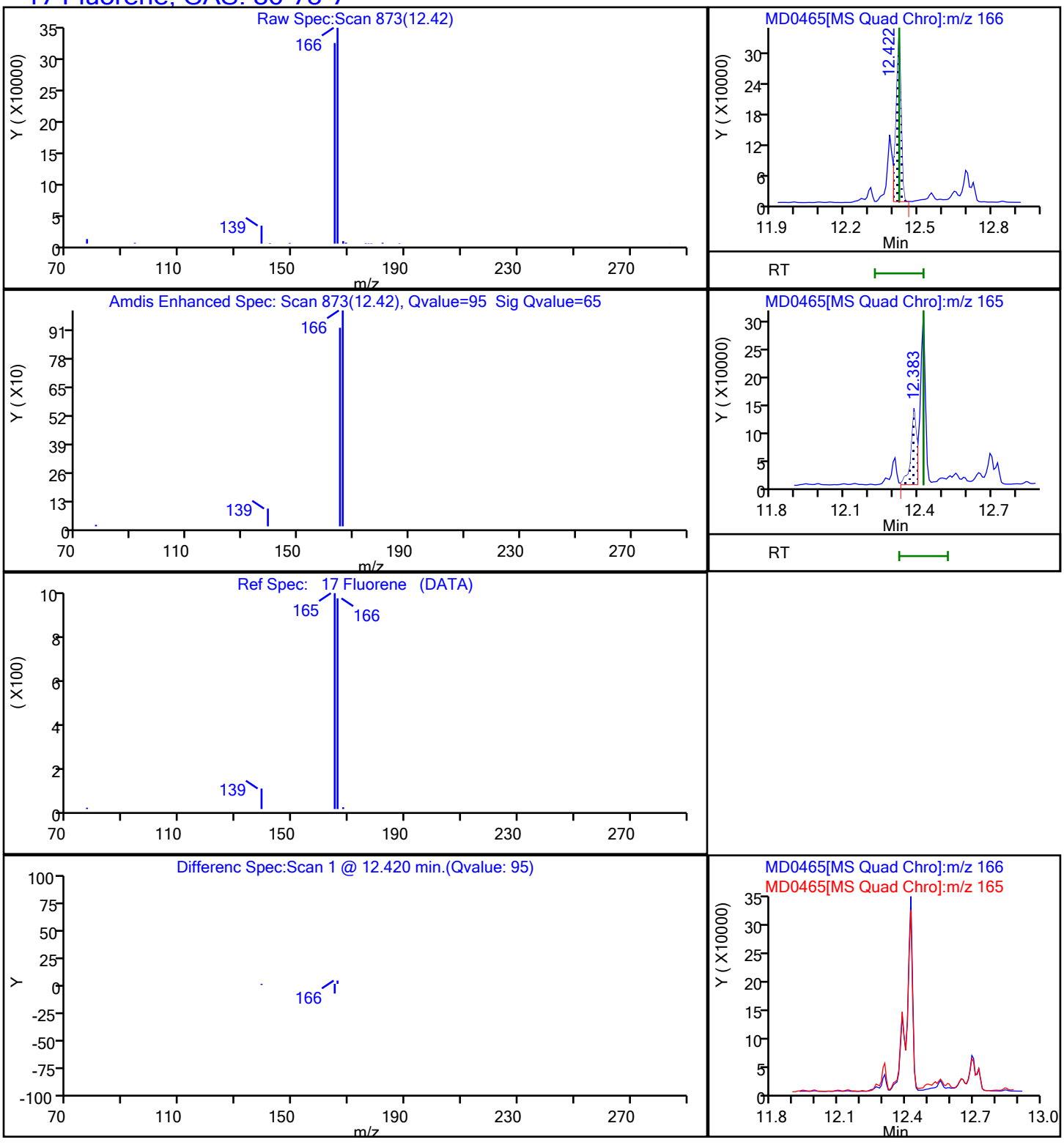
30 Chrysene, CAS: 218-01-9



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	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: 08-Apr-2021 19:23:34 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D

Injection Date: 08-Apr-2021 15:59:10 Instrument ID: HP21585

Lims ID: 410-34553-D-16-A Lab Sample ID: 410-34553-16

Client ID: MW-3-20210402

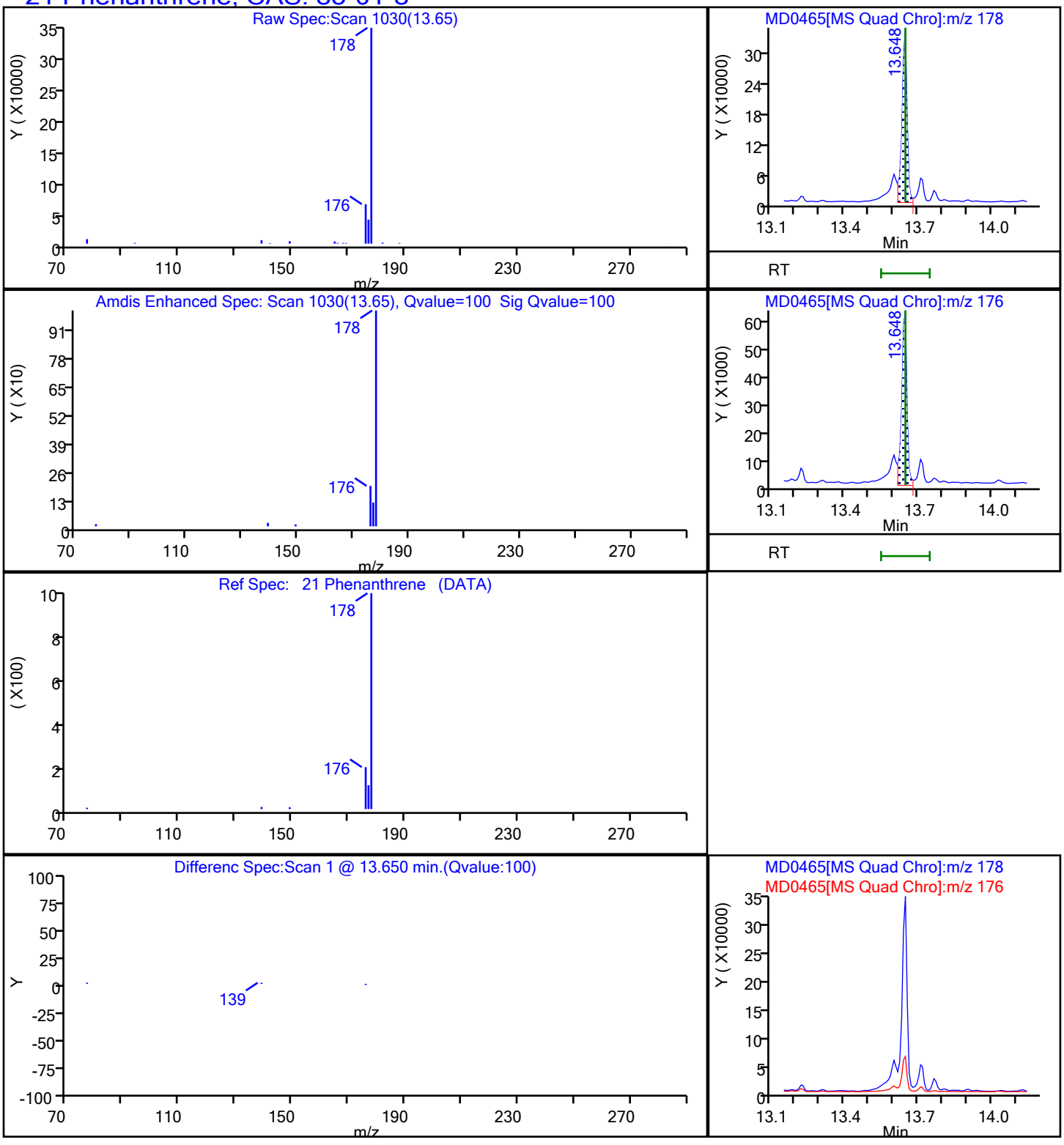
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

21 Phenanthrene, CAS: 85-01-8



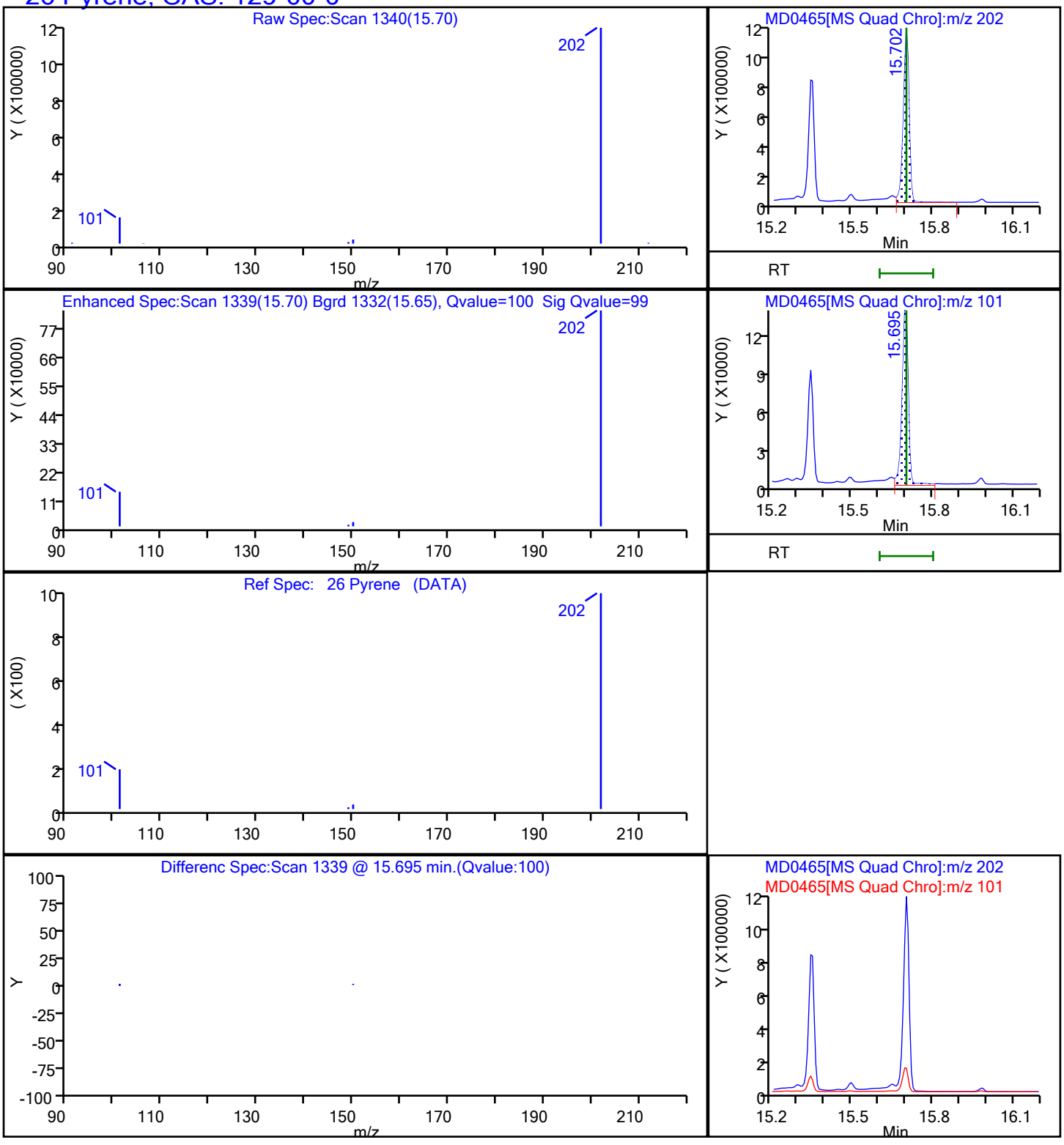
Report Date: 08-Apr-2021 19:23:34 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D

Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Pyrene, CAS: 129-00-0



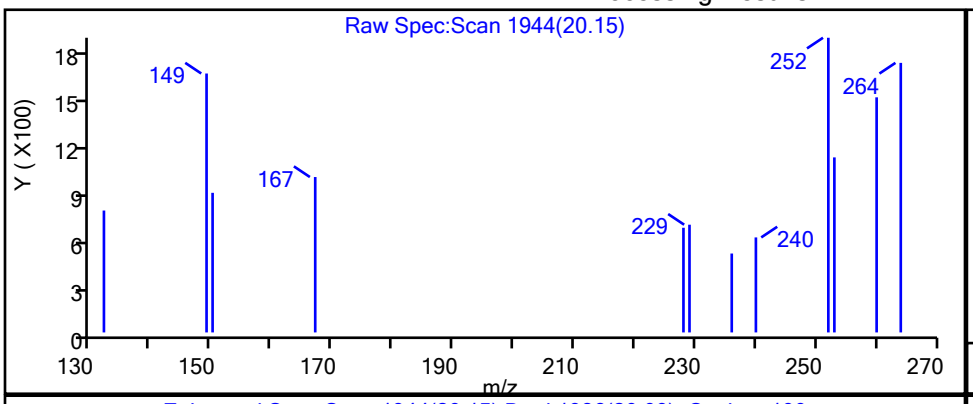
User Disabled Compound Report

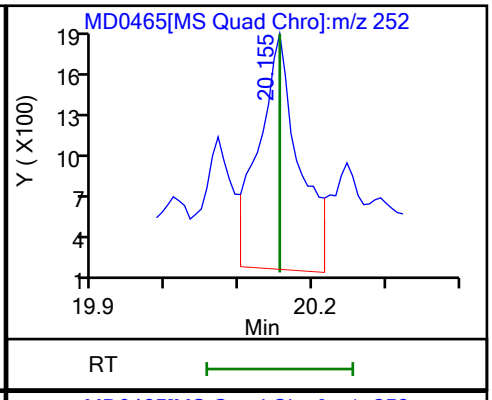
Eurofins Lancaster Laboratories Env, LLC

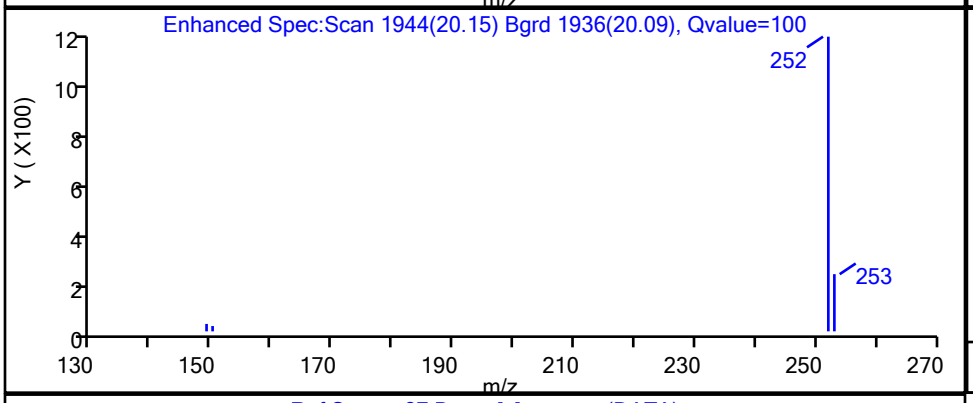
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

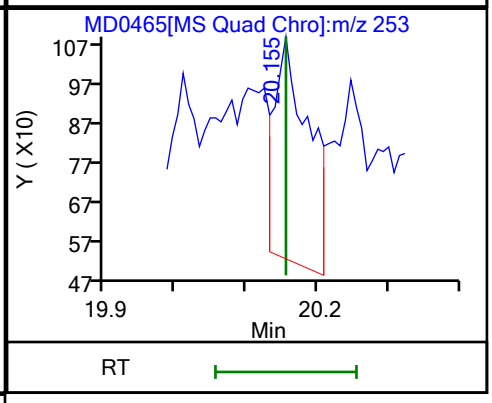
37 Benzo[a]pyrene, CAS: 50-32-8

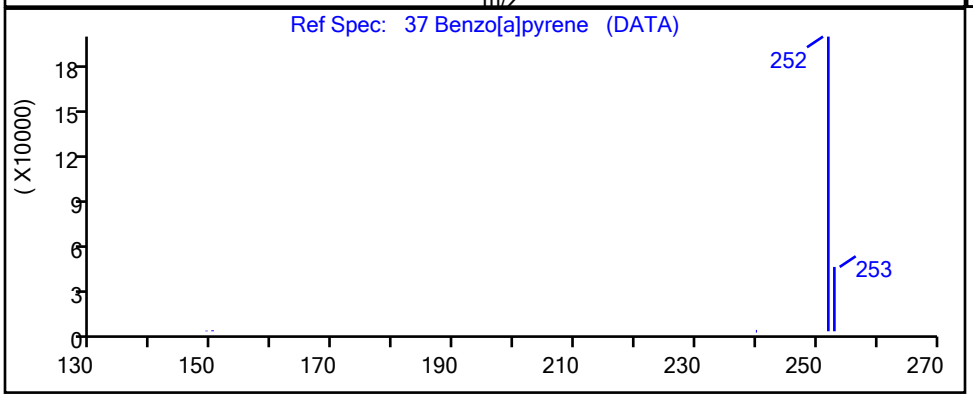
Processing Results











RT	Mass	Response	Amount
20.15	252.00	6084	0.010487
20.15	253.00	1887	

Reviewer: transuea, 08-Apr-2021 17:47:31

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

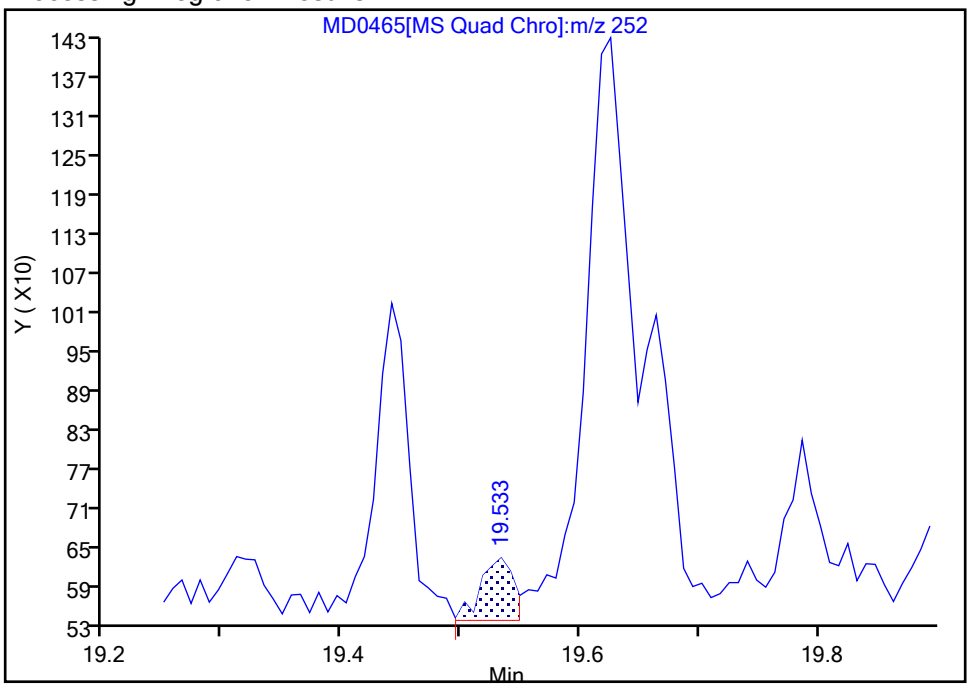
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	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

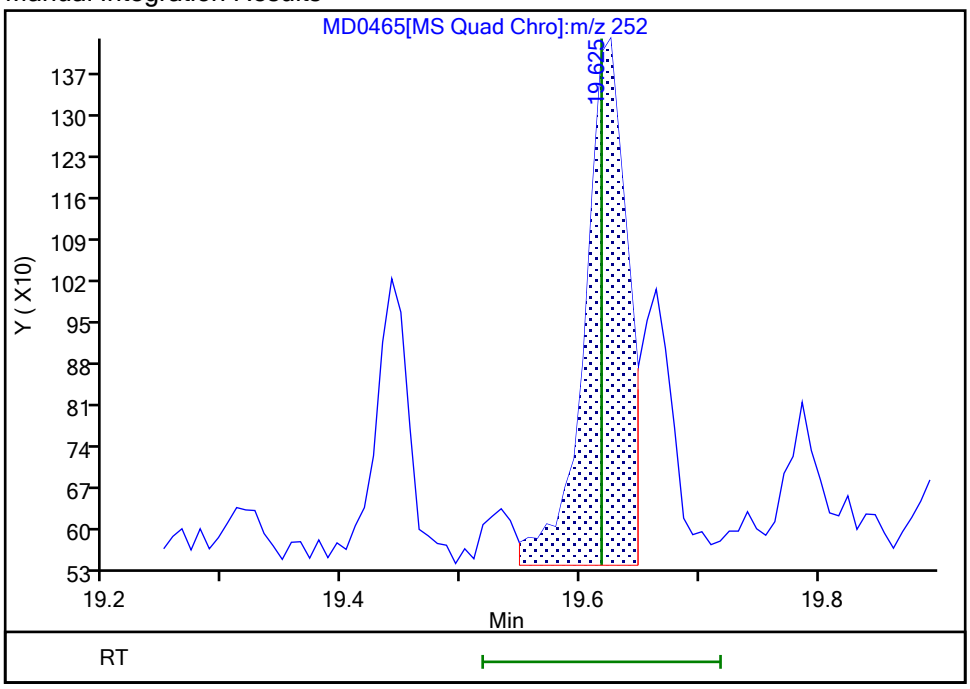
Processing Integration Results

RT: 19.53
Area: 176
Amount: 0.000290
Amount Units: ug/ml



Manual Integration Results

RT: 19.63
Area: 2168
Amount: 0.003571
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 17:47:16

Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

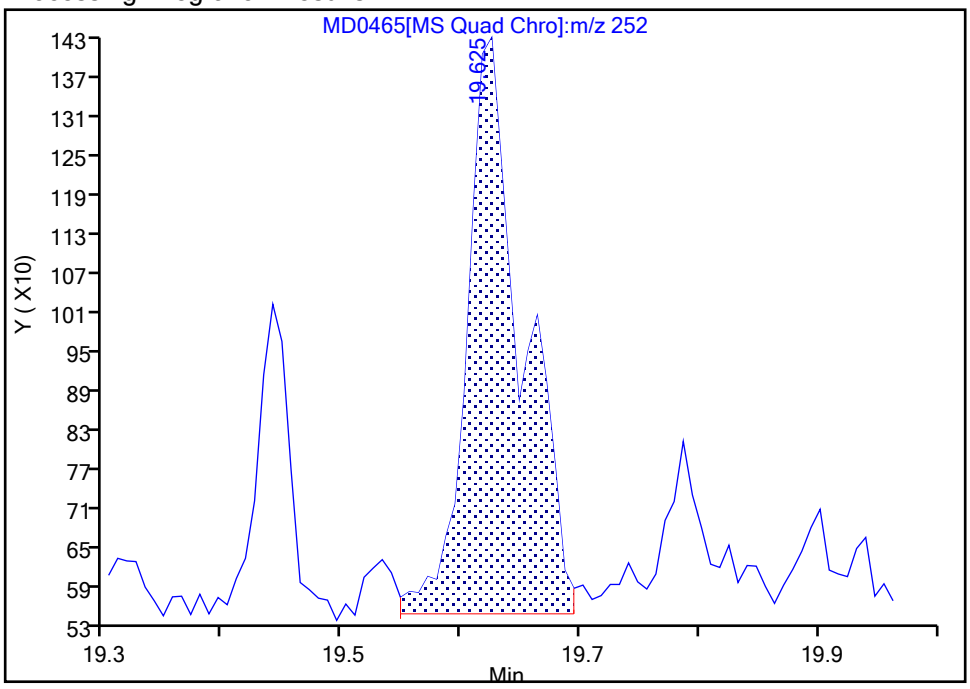
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	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

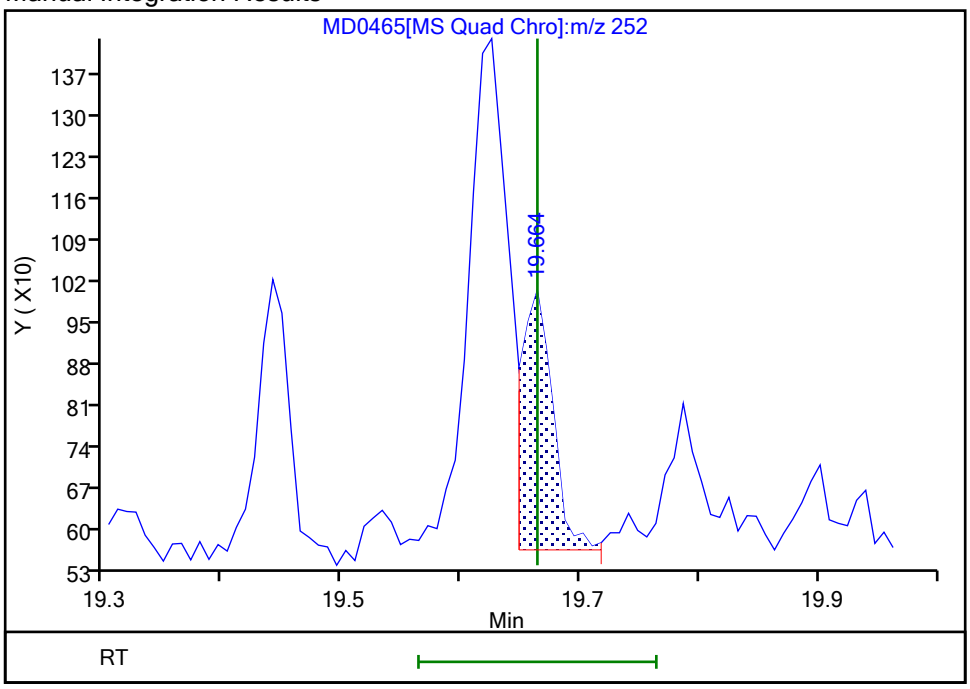
Processing Integration Results

RT: 19.63
Area: 2865
Amount: 0.004468
Amount Units: ug/ml



Manual Integration Results

RT: 19.66
Area: 754
Amount: 0.001176
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 17:47:25

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

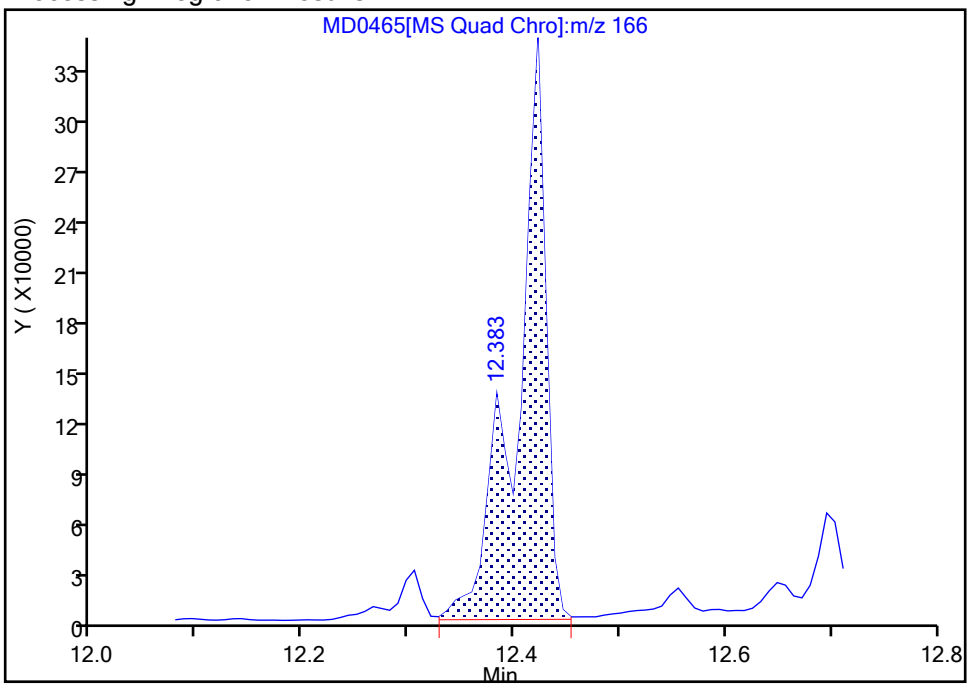
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	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

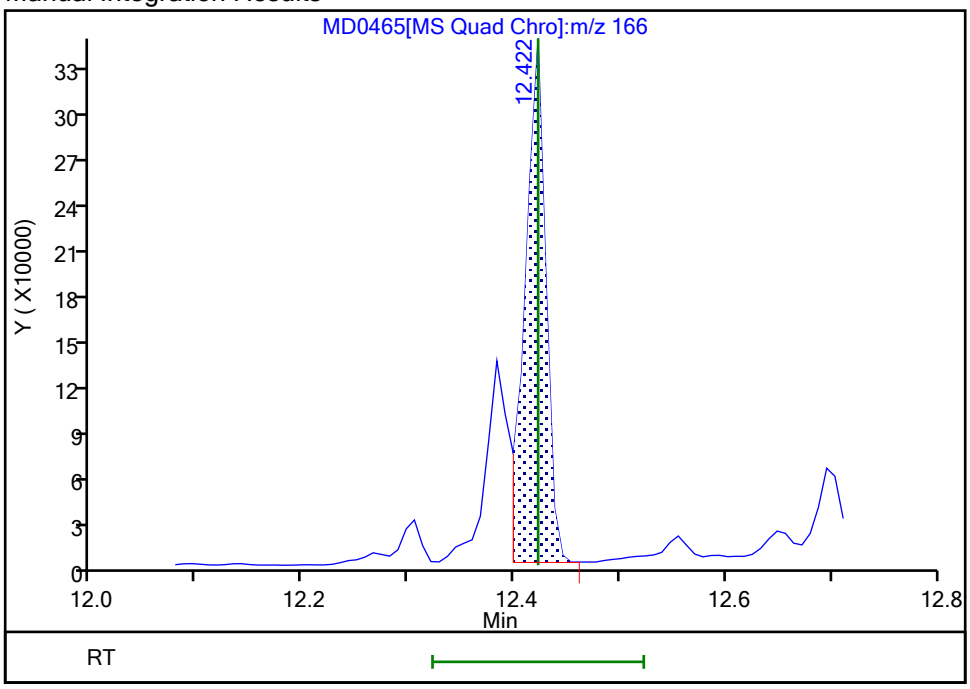
Processing Integration Results

RT: 12.38
Area: 656455
Amount: 1.804443
Amount Units: ug/ml



Manual Integration Results

RT: 12.42
Area: 453177
Amount: 1.245679
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 17:46:59

Audit Action: Manually Integrated Audit Reason: Baseline

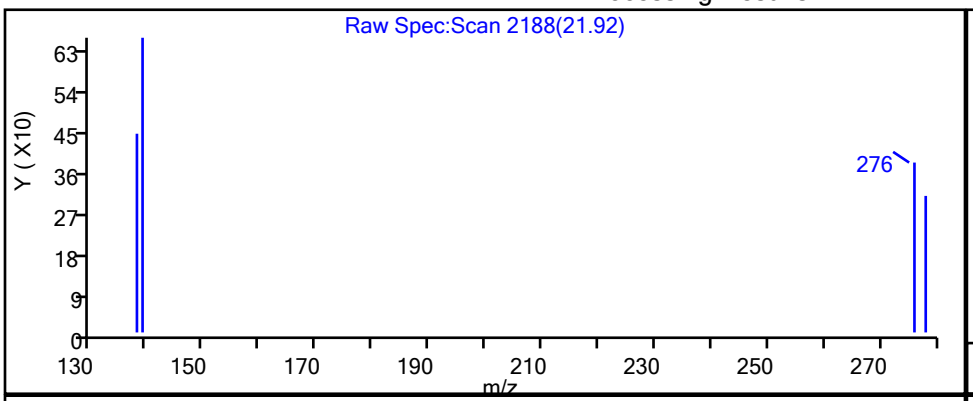
User Disabled Compound Report

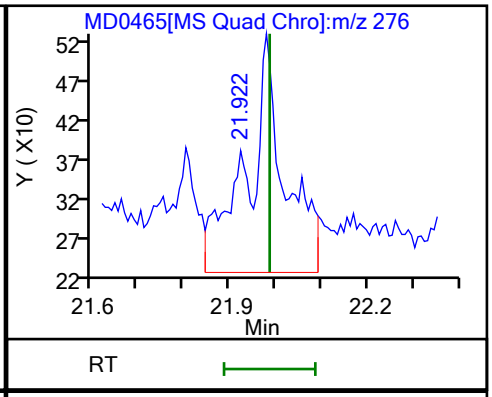
Eurofins Lancaster Laboratories Env, LLC

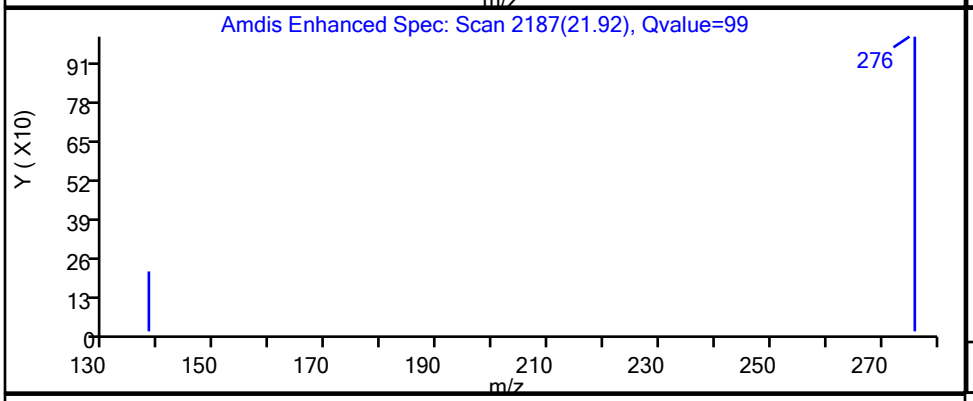
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

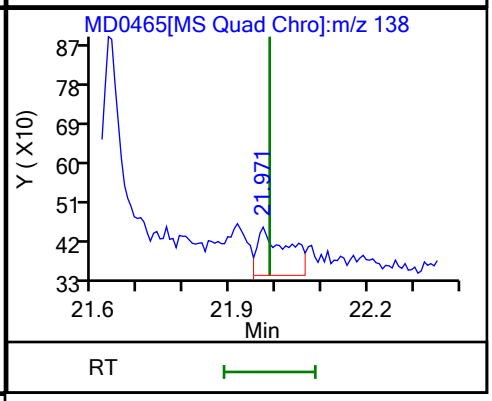
40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

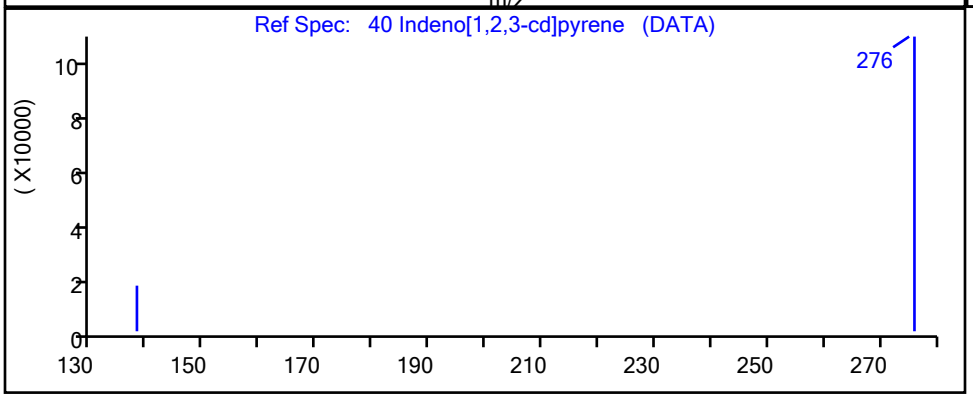
Processing Results











RT	Mass	Response	Amount
21.92	276.00	1758	0.003175
21.97	138.00	490	

Reviewer: transuea, 08-Apr-2021 17:47:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

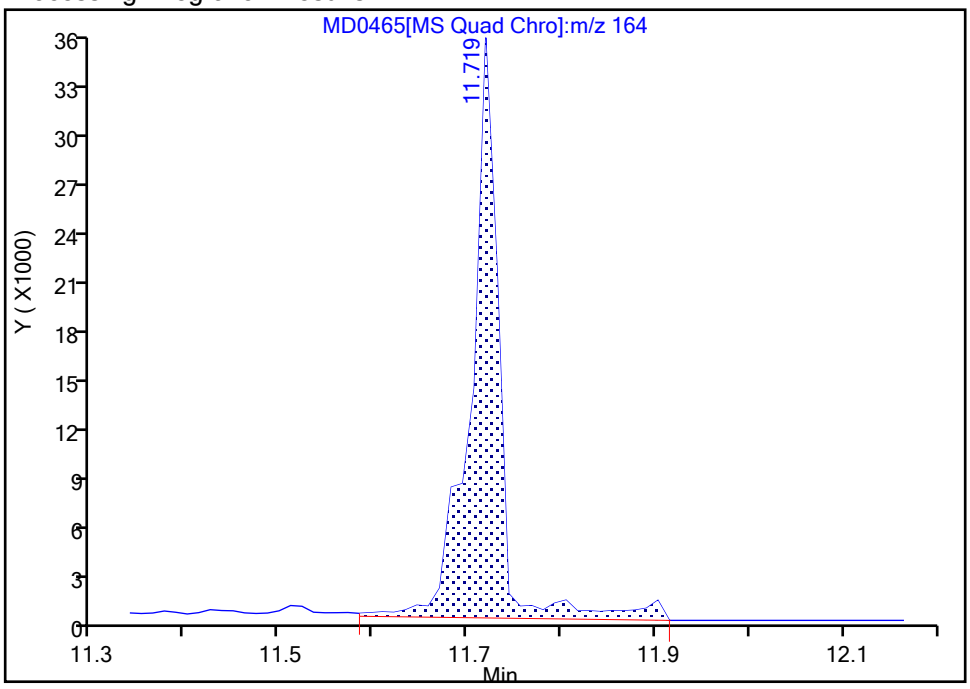
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0465.D				
Injection Date:	08-Apr-2021 15:59:10	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	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

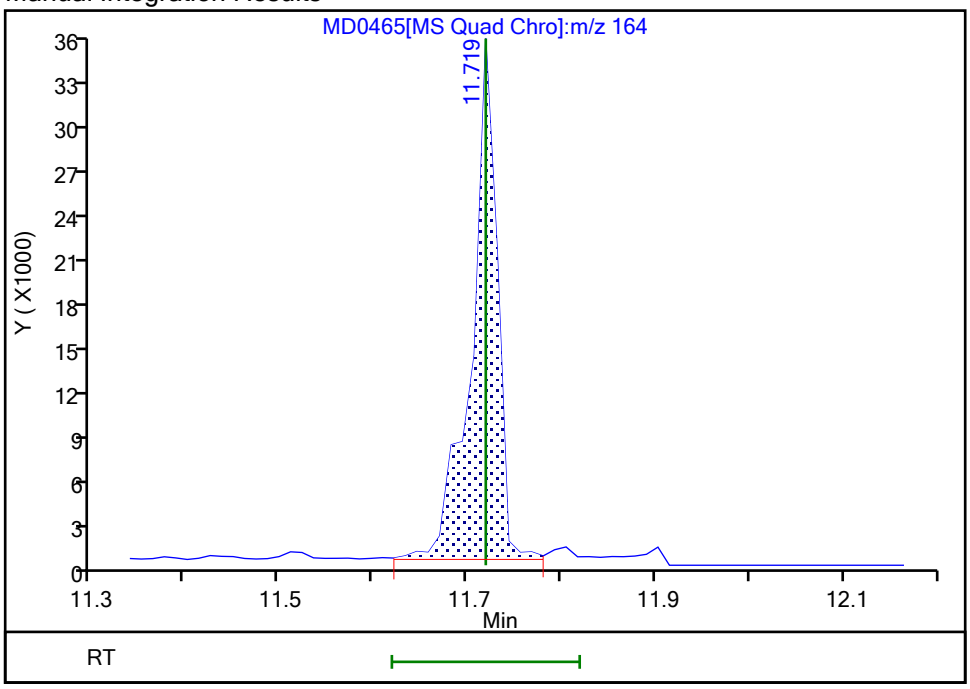
Processing Integration Results

RT: 11.72
Area: 74159
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 11.72
Area: 66016
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 17:46:47

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-3-20210402 DL Lab Sample ID: 410-34553-16 DL

Matrix: Groundwater Lab File ID: MD0504.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 11:07

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 23:51

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.: 112543 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	27		0.50	0.10
206-44-0	Fluoranthene	9.2		0.50	0.10
91-20-3	Naphthalene	80		0.70	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	73		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	58		49-115
93951-69-0	Fluoranthene-d10 (Surr)	85		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0504.D
Lims ID: 410-34553-D-16-A DL
Client ID: MW-3-20210402
Sample Type: Client
Inject. Date: 08-Apr-2021 23:51:00 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-34553-D-16-A
Misc. Info.: 410-0026241-005
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 06:05:13 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 09-Apr-2021 03:22:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	97	30678	0.2500	
* 5 Naphthalene-d8	136	8.952	8.952	0.000	92	115671	0.2500	
6 Naphthalene	128	8.993	8.993	0.000	93	930938	2.01	
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	97	3567	0.0145	
12 Acenaphthylene	152	11.499	11.500	0.000	100	49319	0.1017	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	99	66866	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	209452	0.6692	
17 Fluorene	166	12.399	12.407	-0.008	97	67942	0.1844	
* 20 Phenanthrene-d10	188	13.593	13.593	0.000	96	126156	0.2500	
21 Phenanthrene	178	13.624	13.625	0.000	100	62585	0.1190	
22 Anthracene	178	13.694	13.695	-0.001	100	8042	0.0157	
$ 24 Fluoranthene-d10 (Surr)	212	15.294	15.294	0.000	98	10388	0.0214	
25 Fluoranthene	202	15.325	15.326	-0.001	100	135140	0.2304	
26 Pyrene	202	15.676	15.677	-0.001	99	204356	0.2953	
28 Benzo[a]anthracene	228	17.716	17.724	-0.008	100	12521	0.0208	
* 29 Chrysene-d12	240	17.739	17.739	0.000	57	120523	0.2500	
30 Chrysene	228	17.777	17.785	-0.008	100	7118	0.0115	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.086	20.094	-0.007	99	8670	0.0182	
* 38 Perylene-d12	264	20.216	20.224	-0.008	99	136660	0.2500	

QC Flag Legend
Processing Flags

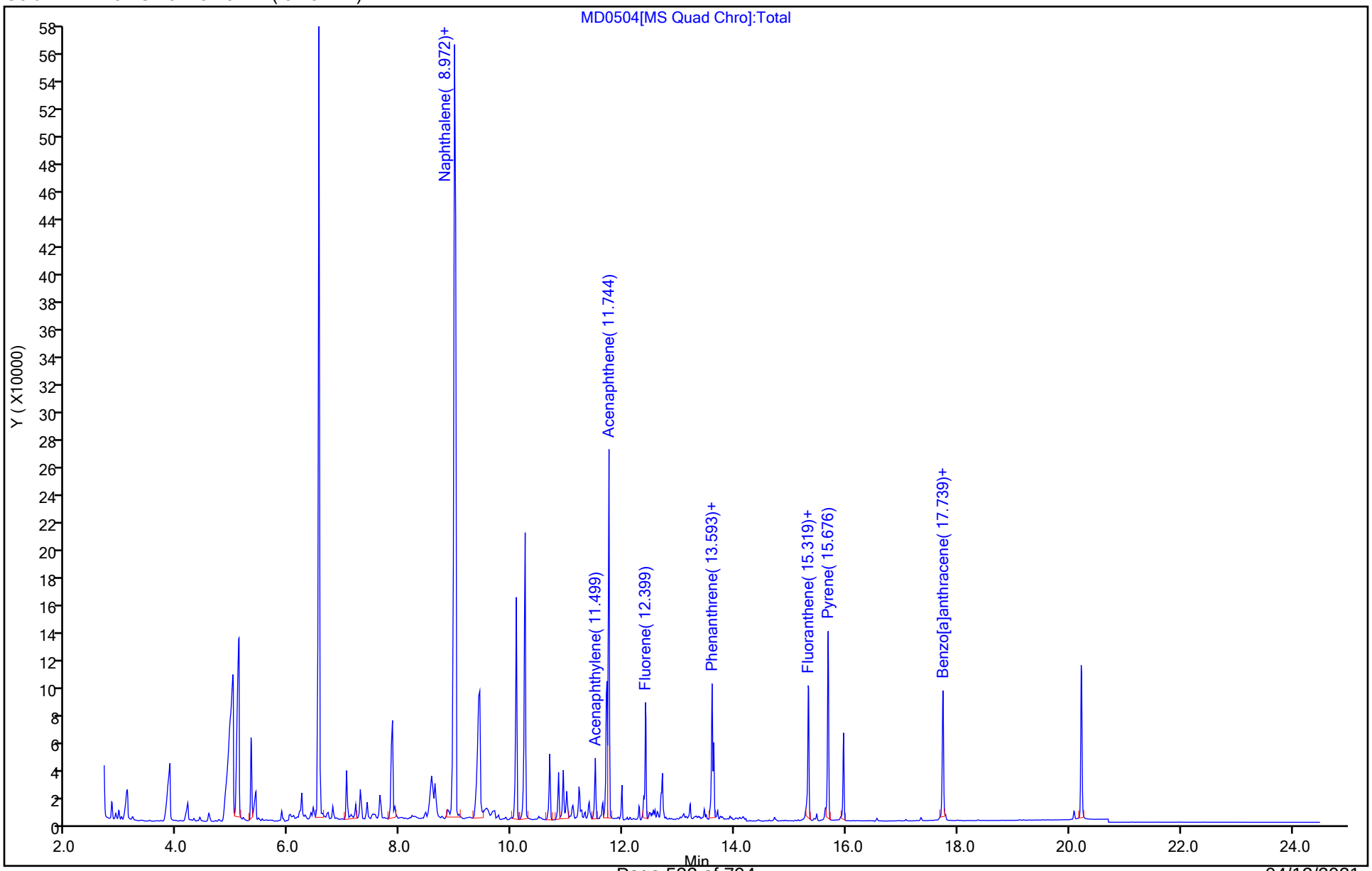
Reagents:
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Apr-2021 06:05:37 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0504.D				
Injection Date:	08-Apr-2021 23:51:00	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-16-A DL	Lab Sample ID:	410-34553-16	Worklist Smp#:	5
Client ID:	MW-3-20210402				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



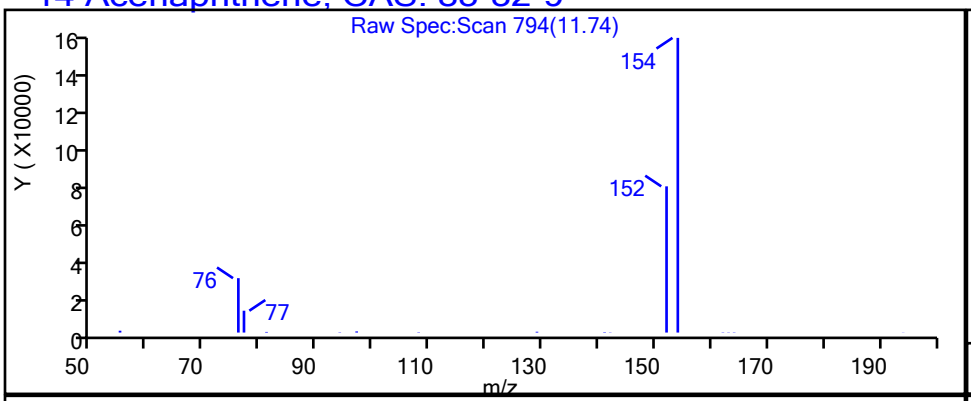
Report Date: 09-Apr-2021 06:05:37 Chrom Revision: 2.3 08-Apr-2021 17:17:48

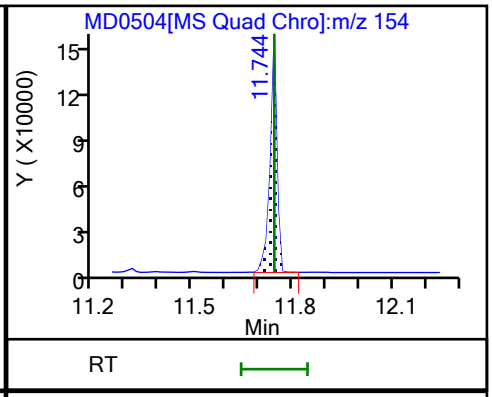
Eurofins Lancaster Laboratories Env, LLC

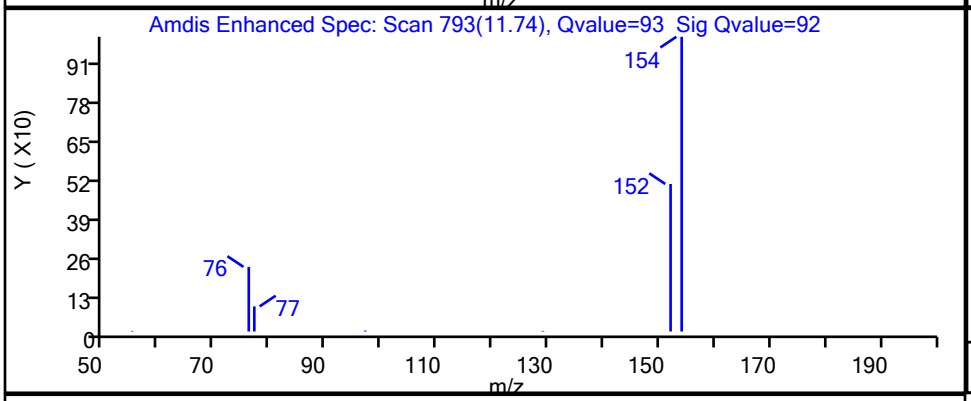
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0504.D

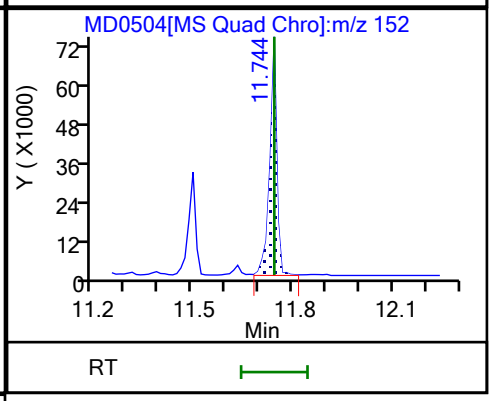
Injection Date:	08-Apr-2021 23:51:00	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A DL	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

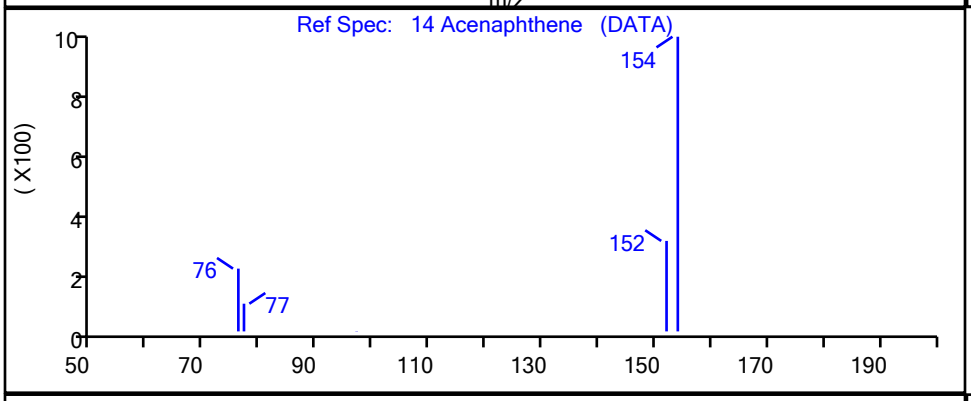
14 Acenaphthene, CAS: 83-32-9

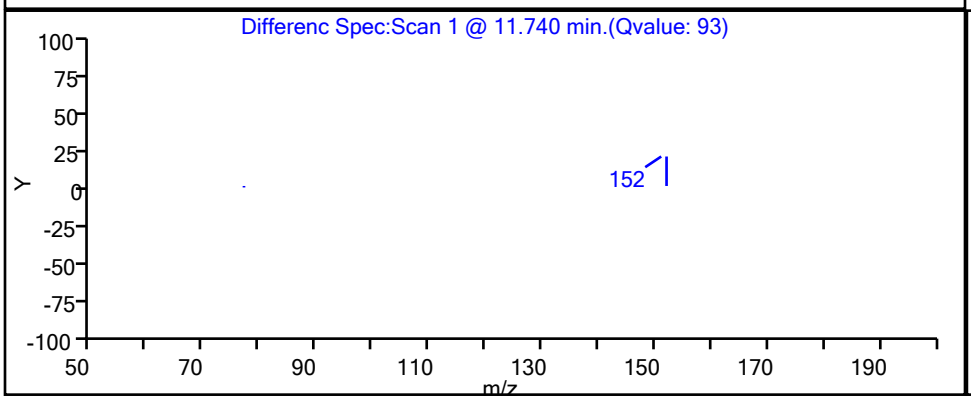


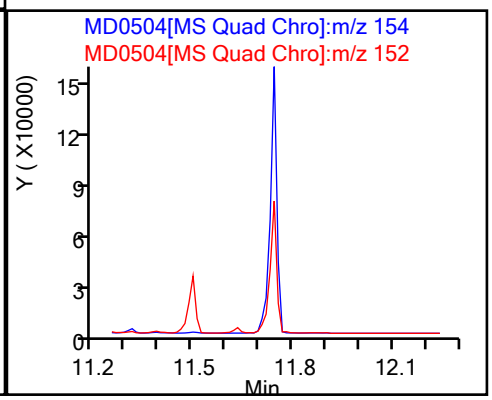












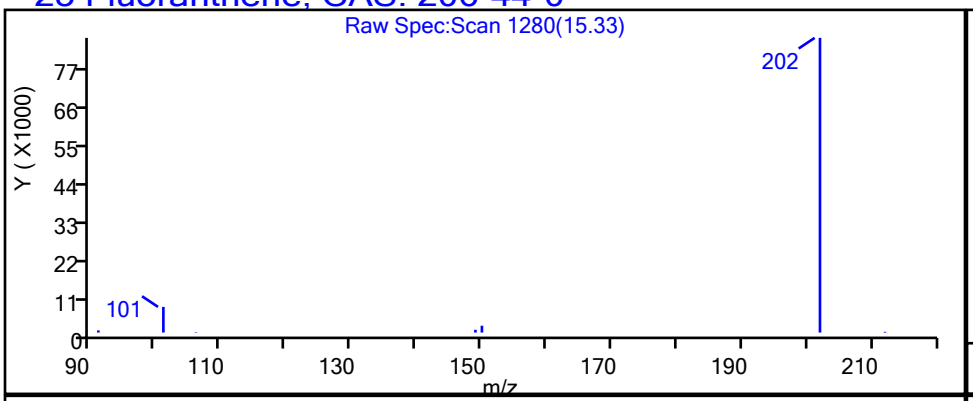
Report Date: 09-Apr-2021 06:05:37 Chrom Revision: 2.3 08-Apr-2021 17:17:48

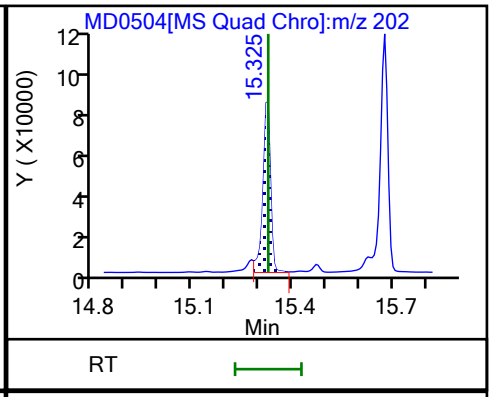
Eurofins Lancaster Laboratories Env, LLC

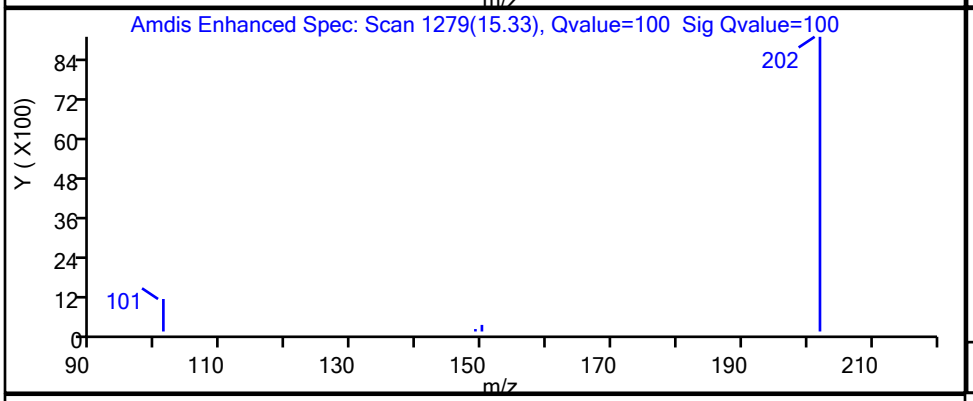
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0504.D

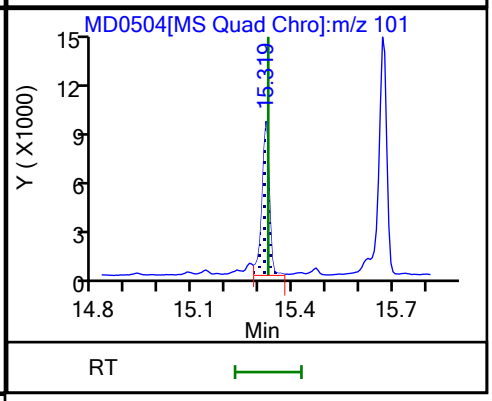
Injection Date:	08-Apr-2021 23:51:00	Instrument ID:	HP21585		
Lims ID:	410-34553-D-16-A DL	Lab Sample ID:	410-34553-16		
Client ID:	MW-3-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

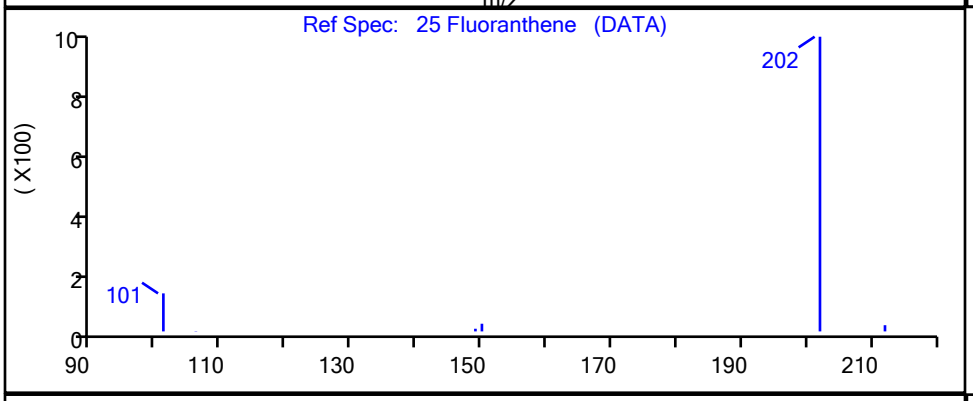
25 Fluoranthene, CAS: 206-44-0

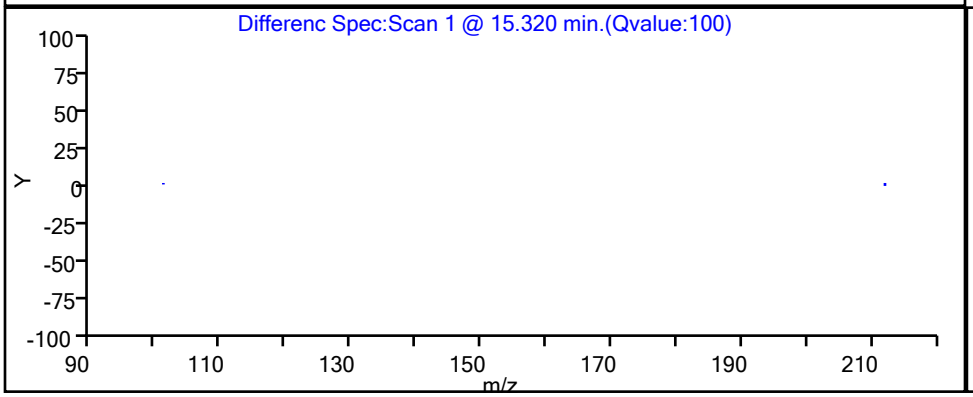


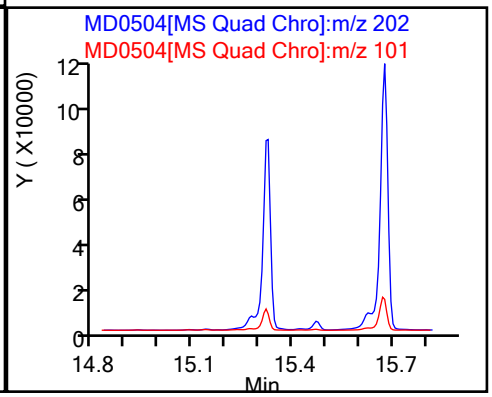












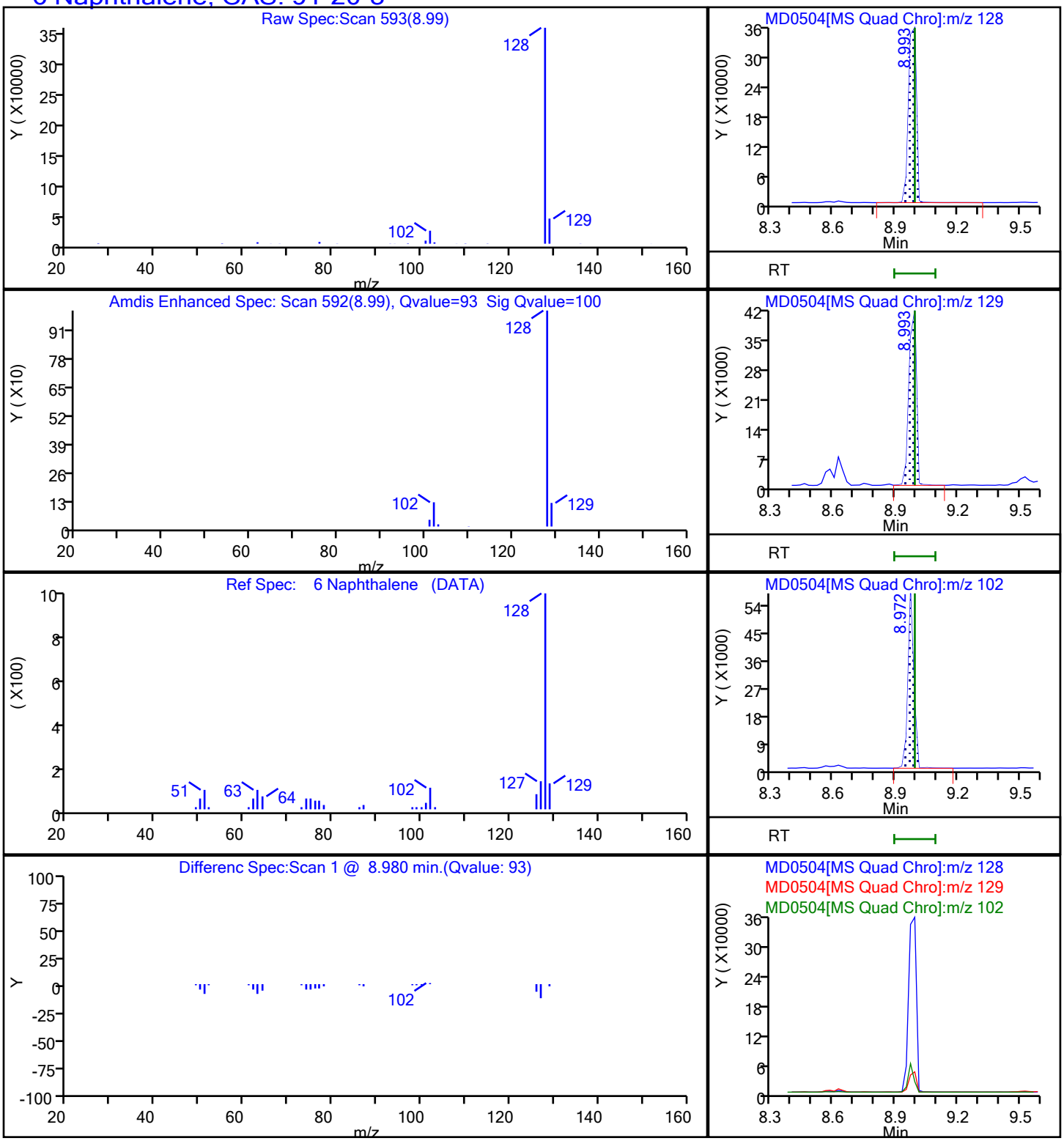
Report Date: 09-Apr-2021 06:05:37 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0504.D

Injection Date:	08-Apr-2021 23:51:00	Instrument ID:	HP21585
Lims ID:	410-34553-D-16-A DL	Lab Sample ID:	410-34553-16
Client ID:	MW-3-20210402		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 5
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
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



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: FB-20210402 Lab Sample ID: 410-34553-17

Matrix: Water Lab File ID: MD0466.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 11:40

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 16:29

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.: 112126 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)	70		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	69		49-115
93951-69-0	Fluoranthene-d10 (Surr)	91		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0466.D				
Lims ID:	410-34553-D-17-A				
Client ID:	FB-20210402				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 16:29:35	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-17-A				
Misc. Info.:	410-0026143-017				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 19:22:22	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1638				
First Level Reviewer: transuea		Date:	08-Apr-2021 17:57:11		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	91	29743	0.2500	
* 5 Naphthalene-d8	136	8.973	8.972	0.001	91	113189	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.001	100	41393	0.1716	
* 13 Acenaphthene-d10	164	11.720	11.719	0.001	98	63582	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	95	120537	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.001	98	105399	0.2269	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	135032	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.001	99	99044	0.1745	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	162980	0.2500	

QC Flag Legend

Processing Flags

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

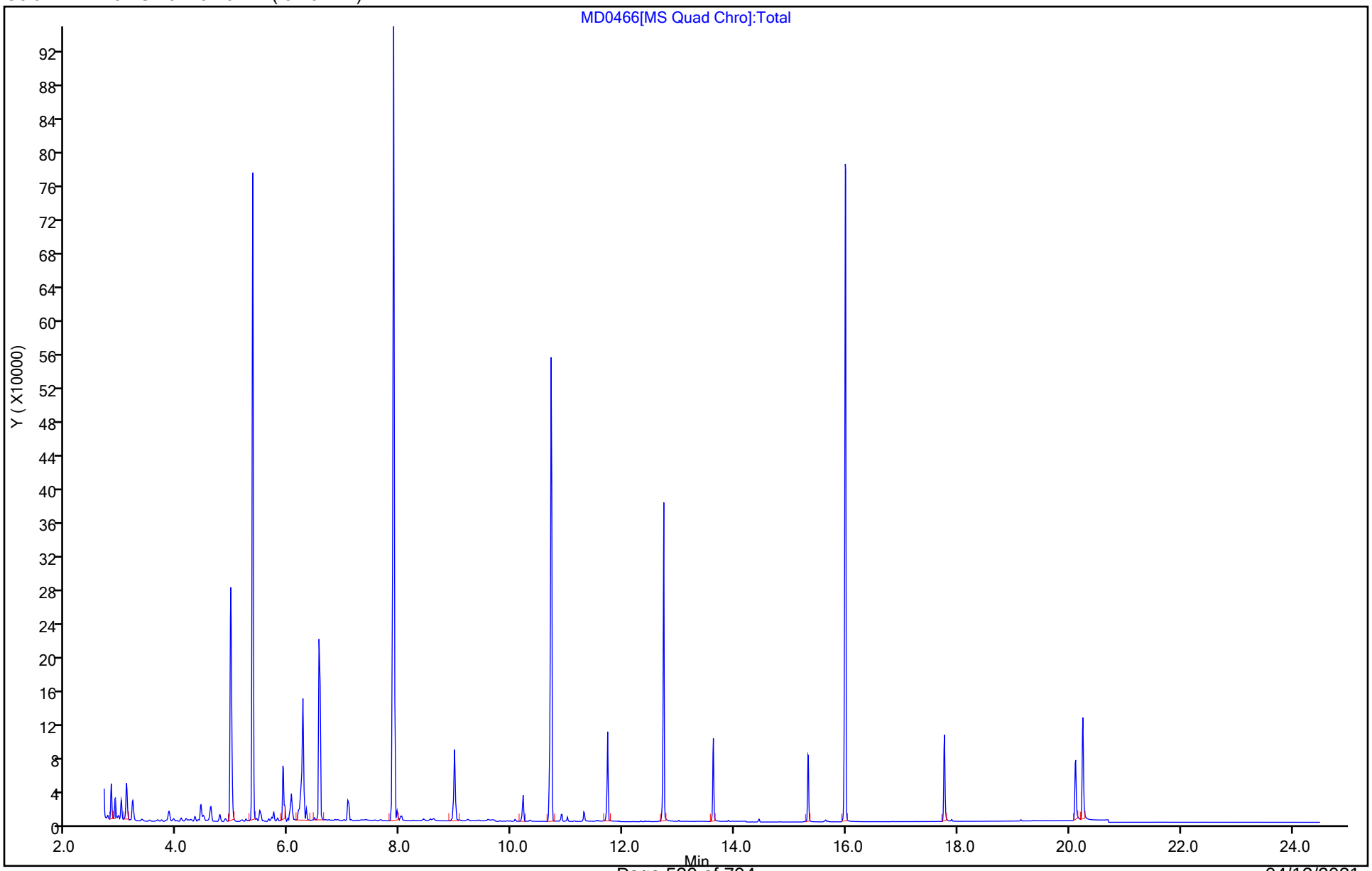
Report Date: 08-Apr-2021 19:23:36 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0466.D

Injection Date:	08-Apr-2021 16:29:35	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-17-A	Lab Sample ID:	410-34553-17	Worklist Smp#:	17
Client ID:	FB-20210402				
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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-13S-20210402 Lab Sample ID: 410-34553-18

Matrix: Groundwater Lab File ID: MD0467.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 11:56

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 17:00

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.: 112126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	1.3		0.050	0.010
120-12-7	Anthracene	6.8		0.050	0.010
56-55-3	Benzo[a]anthracene	1.3		0.050	0.010
50-32-8	Benzo[a]pyrene	0.087		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.084		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	ND		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.034	J	0.050	0.010
218-01-9	Chrysene	0.91		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
206-44-0	Fluoranthene	7.8		0.050	0.010
86-73-7	Fluorene	8.4		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
129-00-0	Pyrene	6.2		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	66		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	58		49-115
93951-69-0	Fluoranthene-d10 (Surr)	98		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D
Lims ID: 410-34553-D-18-A
Client ID: MW-13S-20210402
Sample Type: Client
Inject. Date: 08-Apr-2021 17:00:09 ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-18-A
Misc. Info.: 410-0026143-018
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 10:13:47 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1639

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.077	7.076	0.001	96	28455	0.2500	
* 5 Naphthalene-d8	136	8.973	8.972	0.001	91	118508	0.2500	M
6 Naphthalene	128	9.014	9.014	0.000	93	9495835	20.0	E
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.001	97	36487	0.1445	
12 Acenaphthylene	152	11.524	11.524	0.000	99	154570	0.3203	
* 13 Acenaphthene-d10	164	11.720	11.719	0.001	88	66530	0.2500	M
14 Acenaphthene	154	11.769	11.769	0.001	88	1986065	6.38	E
17 Fluorene	166	12.426	12.426	0.004	95	768965	2.10	M
* 20 Phenanthrene-d10	188	13.620	13.617	0.004	99	89656	0.2500	M
21 Phenanthrene	178	13.652	13.648	0.004	100	3724681	9.96	E
22 Anthracene	178	13.714	13.718	-0.004	100	619537	1.70	
$ 24 Fluoranthene-d10 (Surr)	212	15.317	15.320	-0.002	98	84244	0.2438	
25 Fluoranthene	202	15.348	15.351	-0.003	100	814857	1.95	
26 Pyrene	202	15.705	15.702	0.003	99	1104628	1.56	
28 Benzo[a]anthracene	228	17.743	17.747	-0.003	100	198743	0.3231	
* 29 Chrysene-d12	240	17.766	17.762	0.004	83	123277	0.2500	
30 Chrysene	228	17.804	17.808	-0.004	99	143572	0.2273	
33 Benzo[b]fluoranthene	252	19.629	19.629	0.011	100	15263	0.0209	Ma
34 Benzo[k]fluoranthene	252	19.668	19.668	0.004	99	6494	0.008426	M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.113	20.117	-0.004	99	89966	0.1641	
37 Benzo[a]pyrene	252	20.151	20.158	-0.004	100	15201	0.0218	
* 38 Perylene-d12	264	20.251	20.247	0.004	99	157484	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

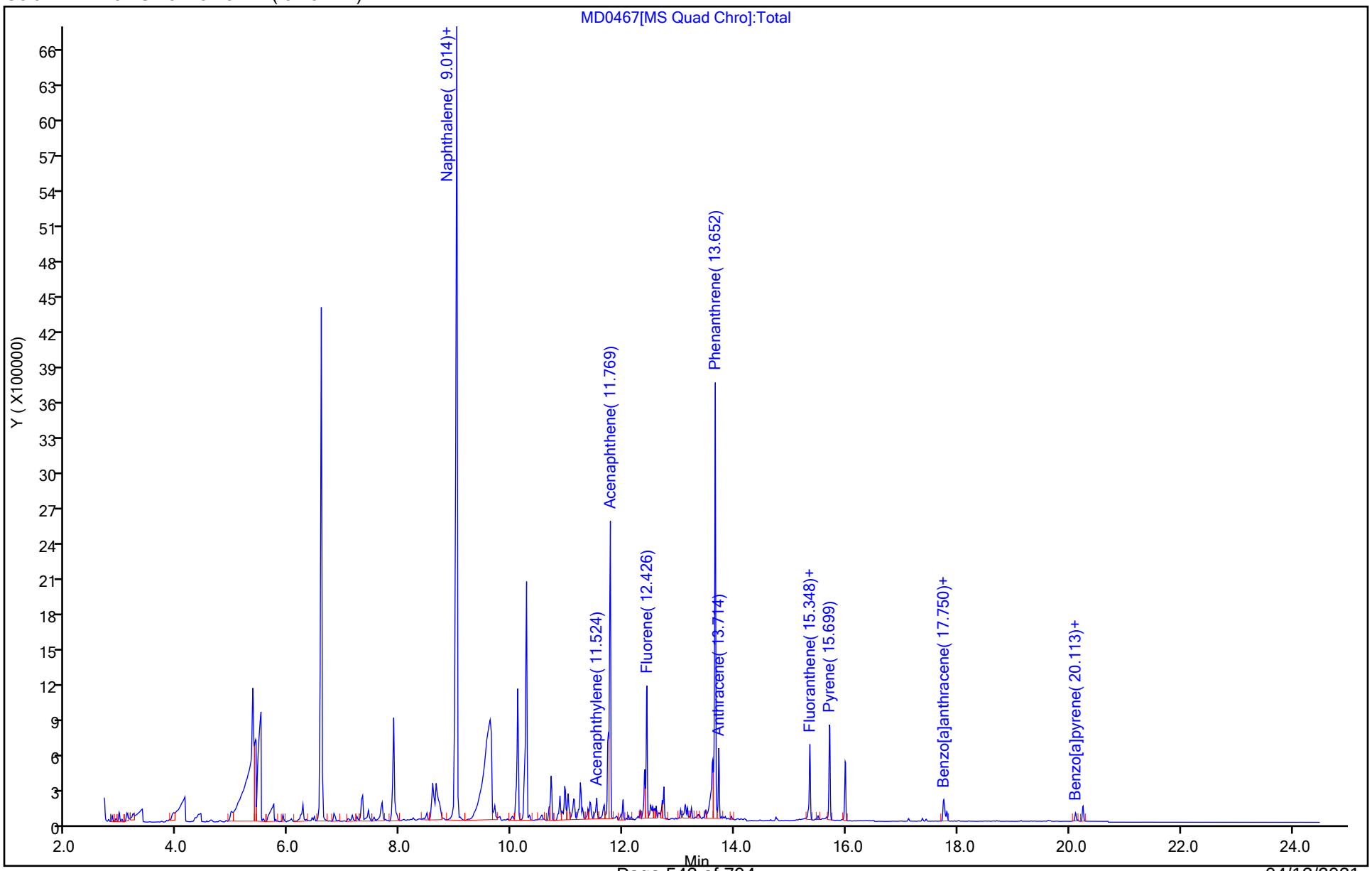
Report Date: 09-Apr-2021 10:13:47 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D

Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18	Worklist Smp#:	18
Client ID:	MW-13S-20210402				
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)



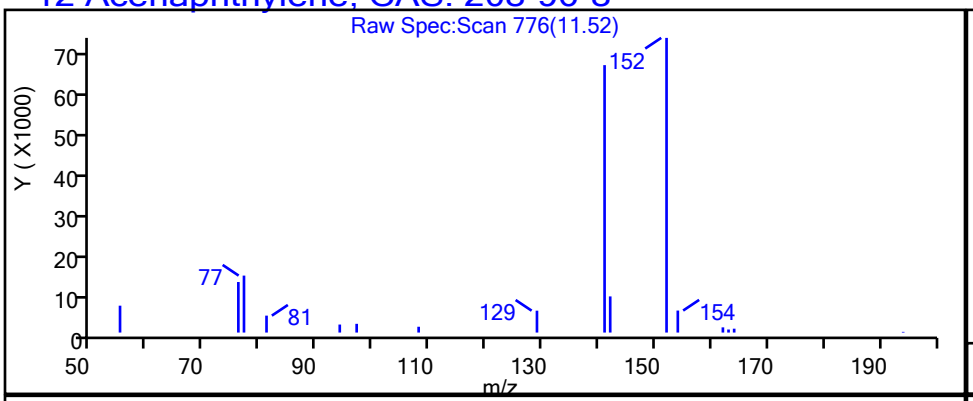
Report Date: 09-Apr-2021 10:13:47 Chrom Revision: 2.3 08-Apr-2021 17:17:48

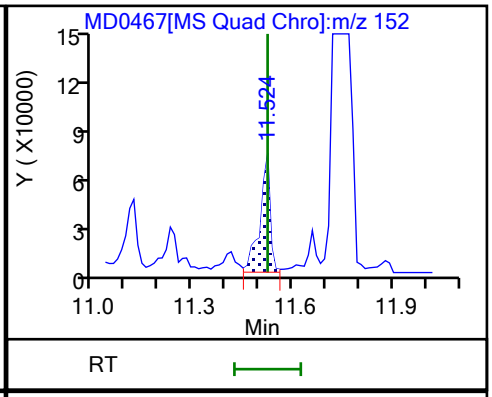
Eurofins Lancaster Laboratories Env, LLC

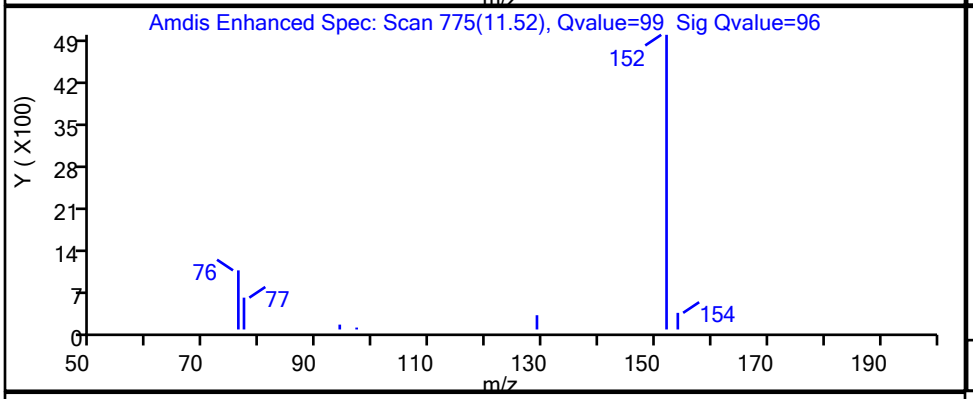
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D

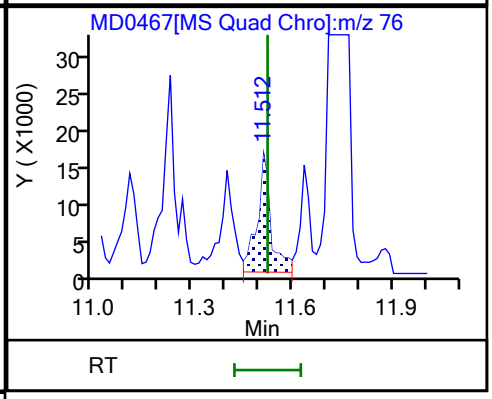
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

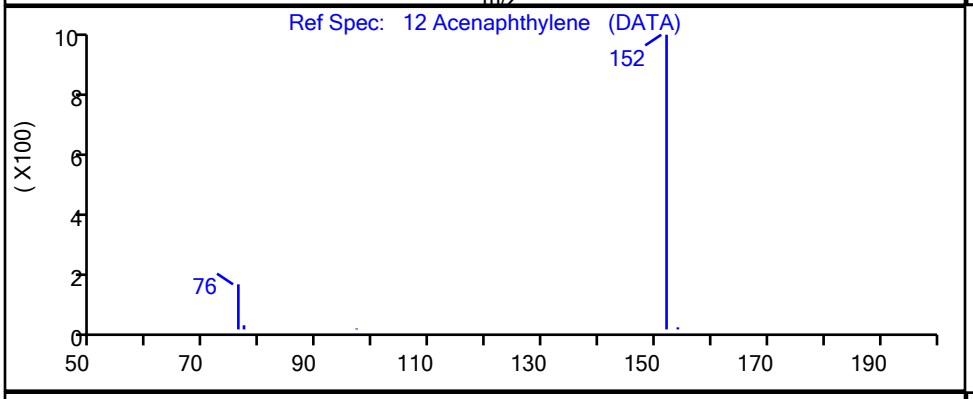
12 Acenaphthylene, CAS: 208-96-8

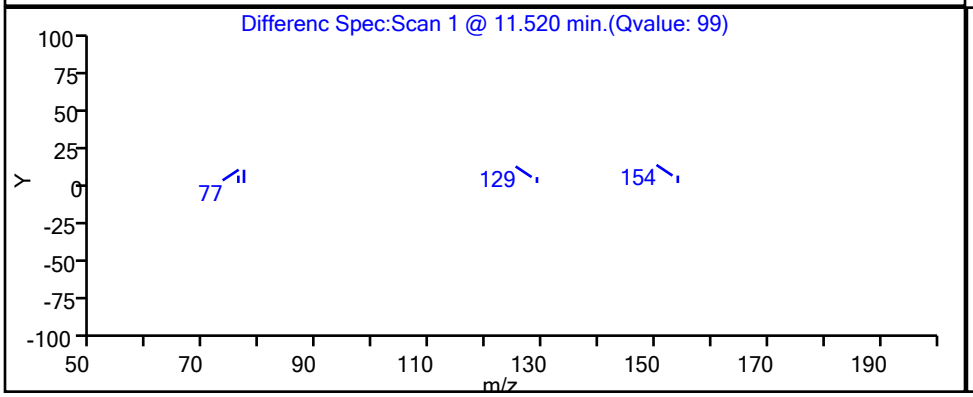


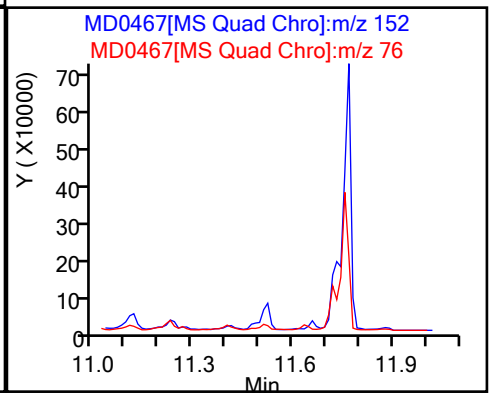








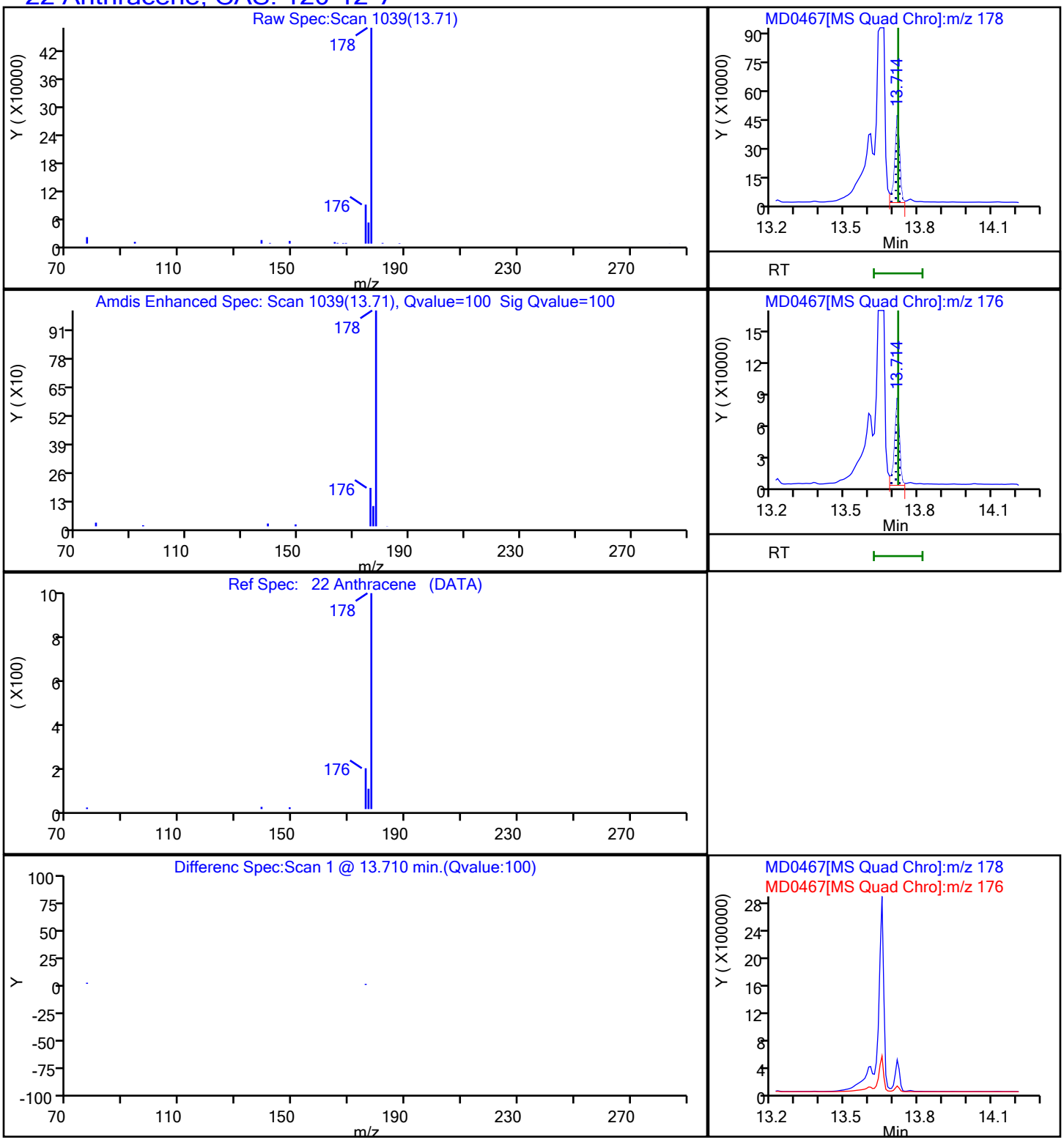




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D		
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18
Client ID:	MW-13S-20210402		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

22 Anthracene, CAS: 120-12-7

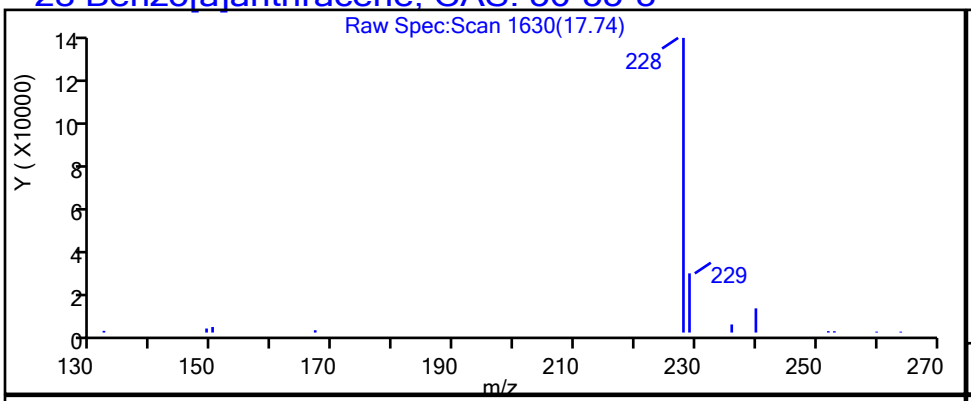


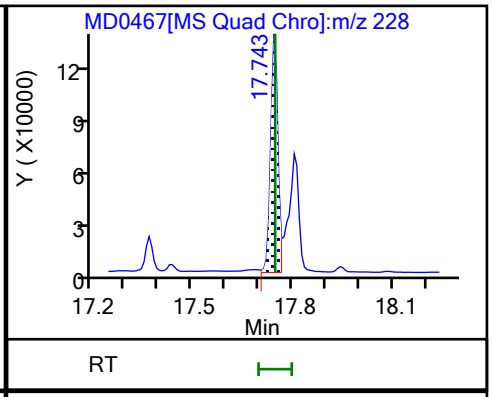
Report Date: 09-Apr-2021 10:13:47 Chrom Revision: 2.3 08-Apr-2021 17:17:48

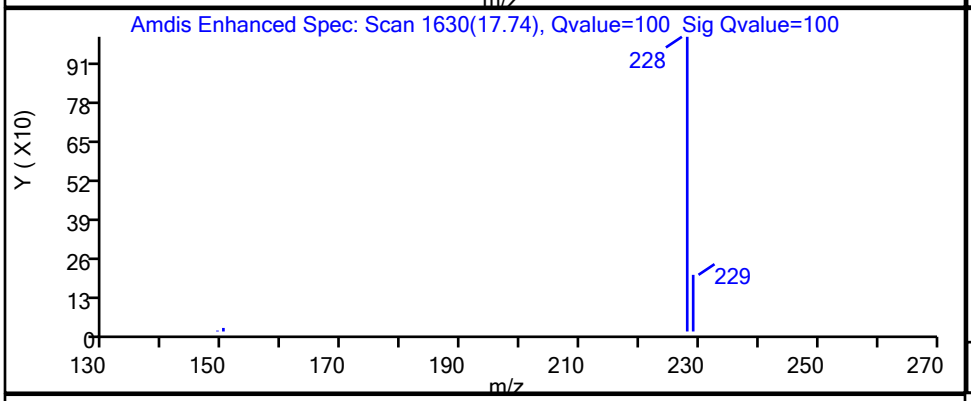
Eurofins Lancaster Laboratories Env, LLC

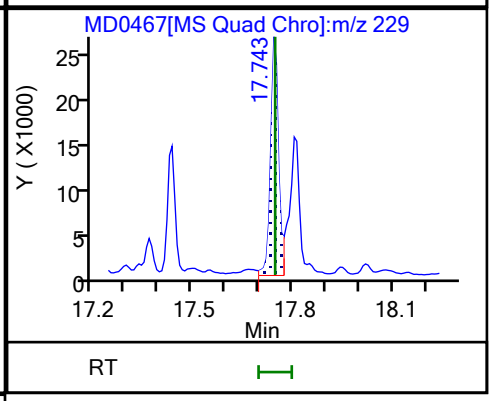
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

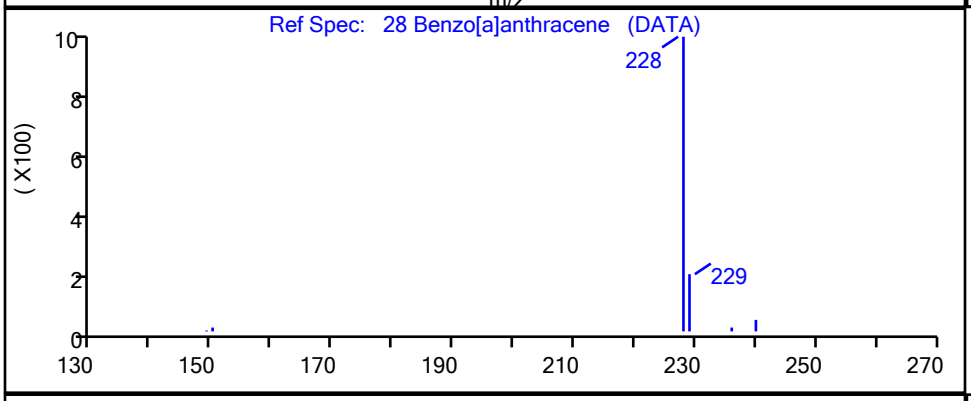
28 Benzo[a]anthracene, CAS: 56-55-3

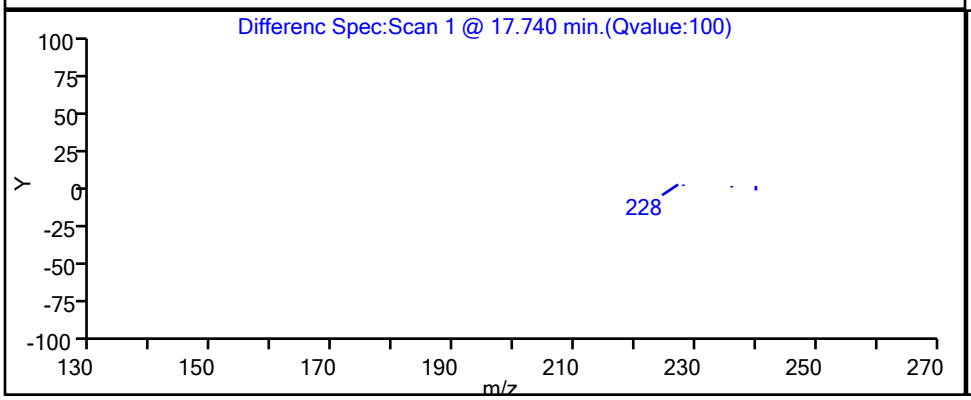


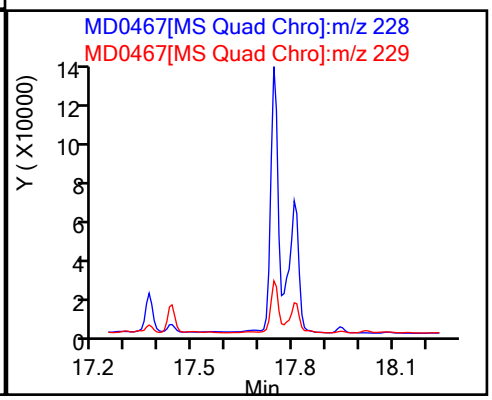










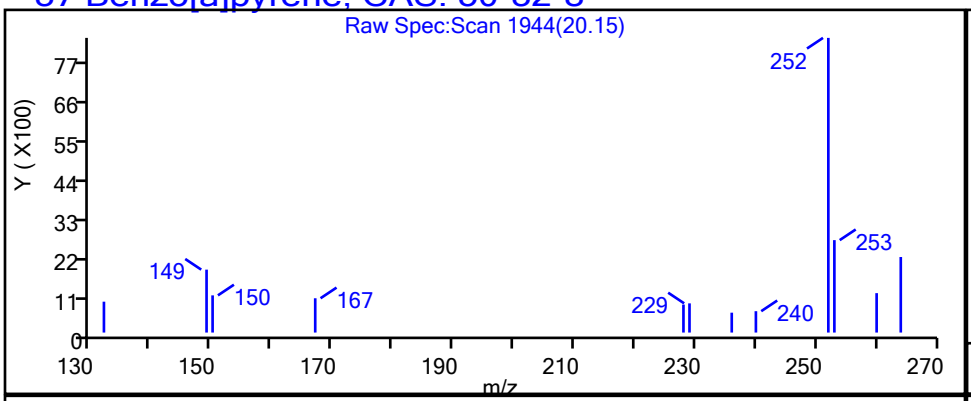


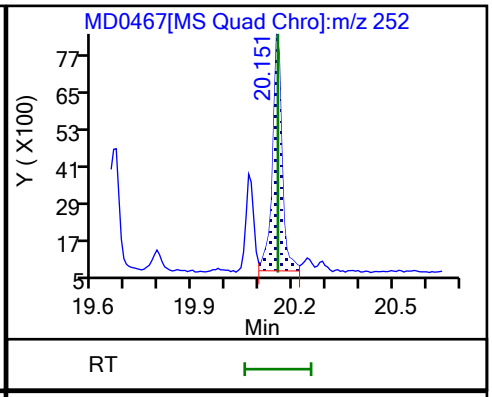
Report Date: 09-Apr-2021 10:13:48 Chrom Revision: 2.3 08-Apr-2021 17:17:48

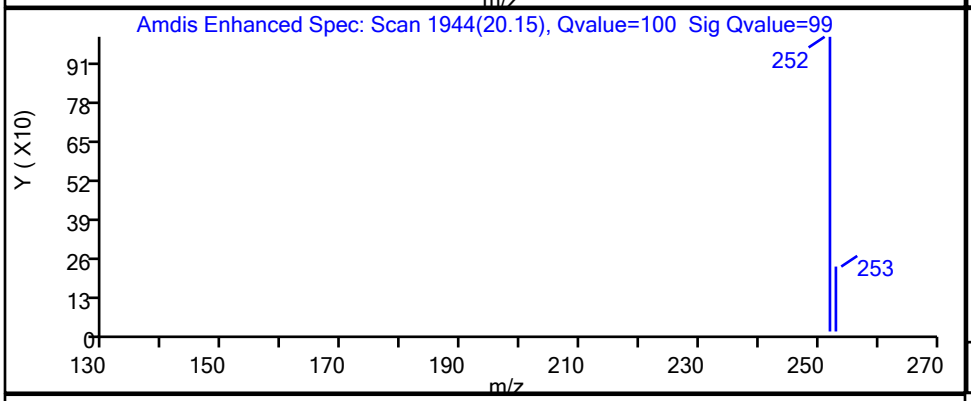
Eurofins Lancaster Laboratories Env, LLC

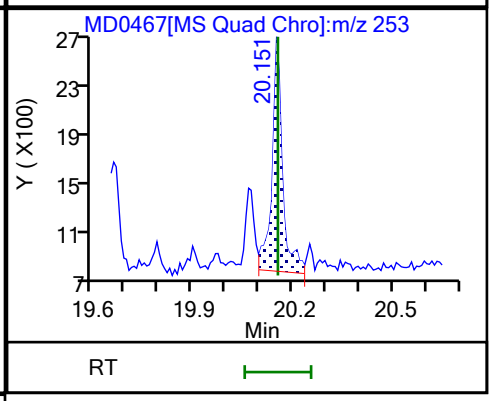
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

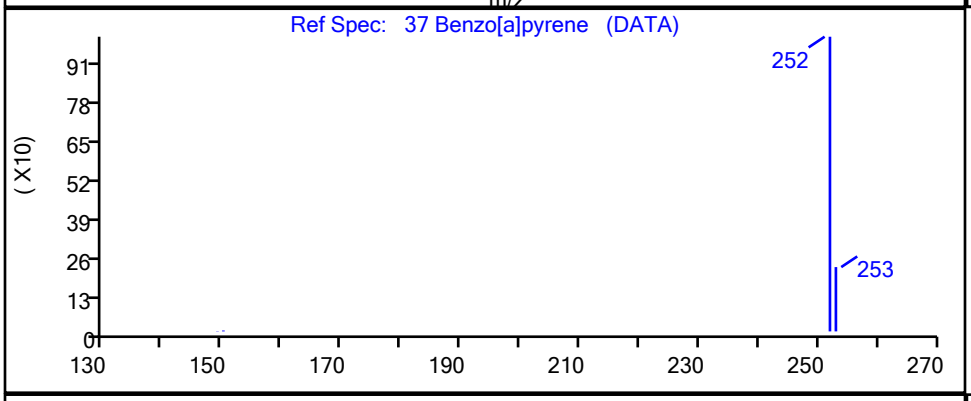
37 Benzo[a]pyrene, CAS: 50-32-8

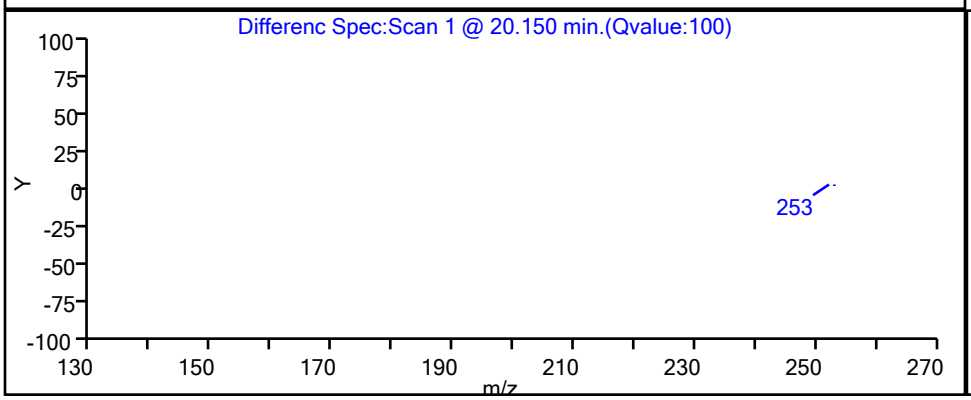


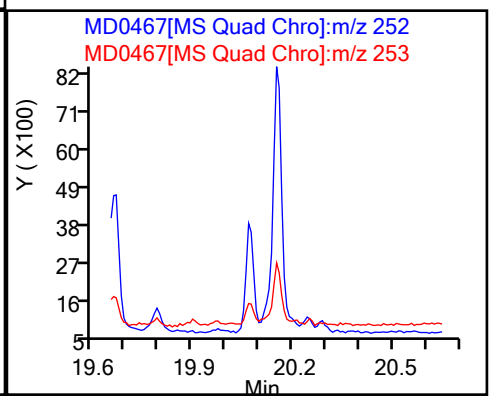










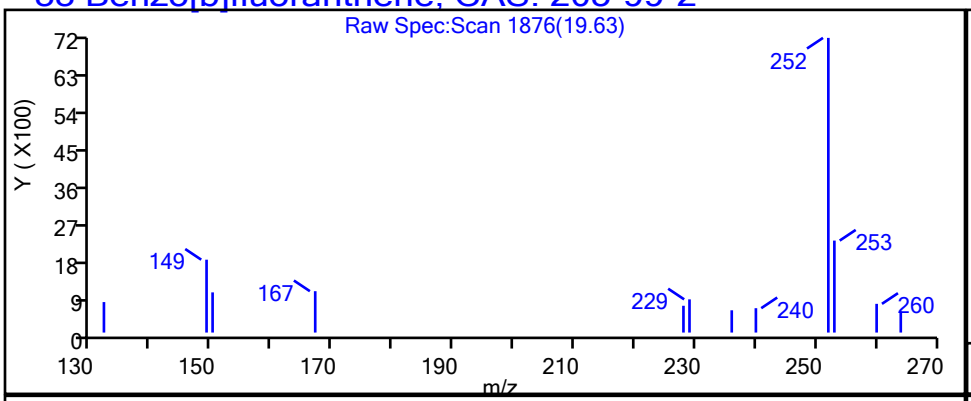


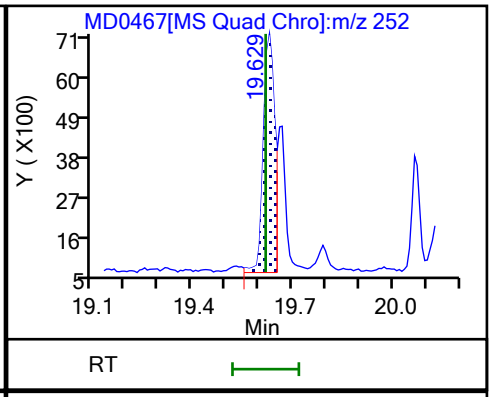
Report Date: 09-Apr-2021 10:13:48 Chrom Revision: 2.3 08-Apr-2021 17:17:48

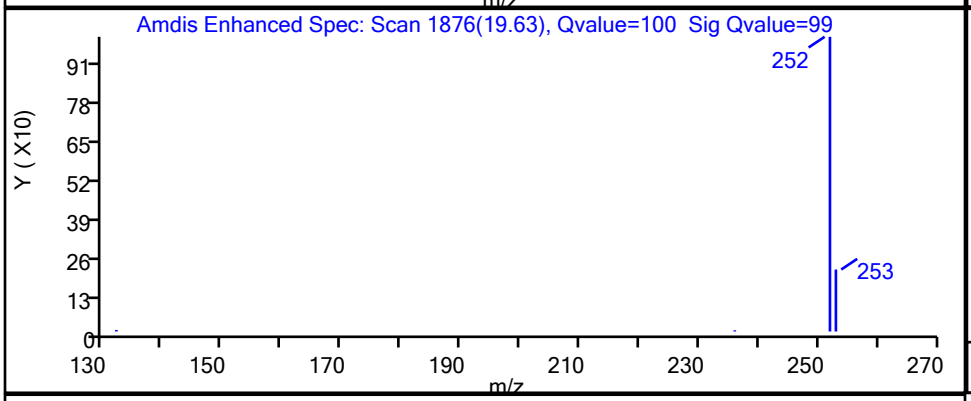
Eurofins Lancaster Laboratories Env, LLC

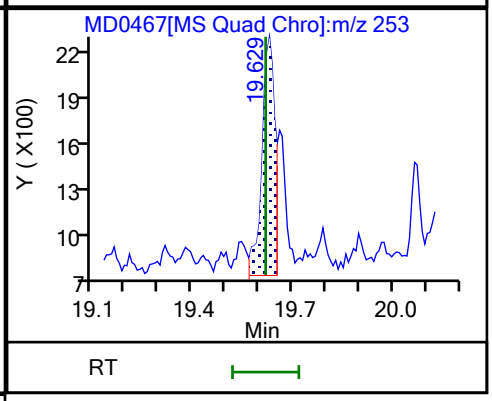
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

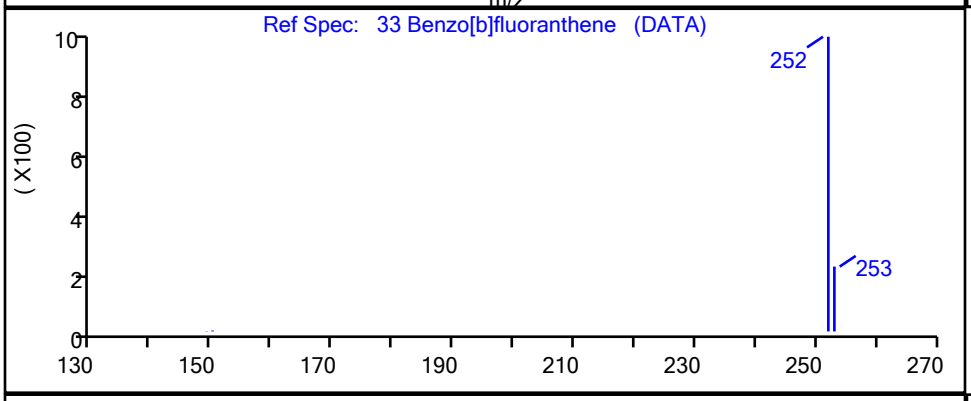
33 Benzo[b]fluoranthene, CAS: 205-99-2

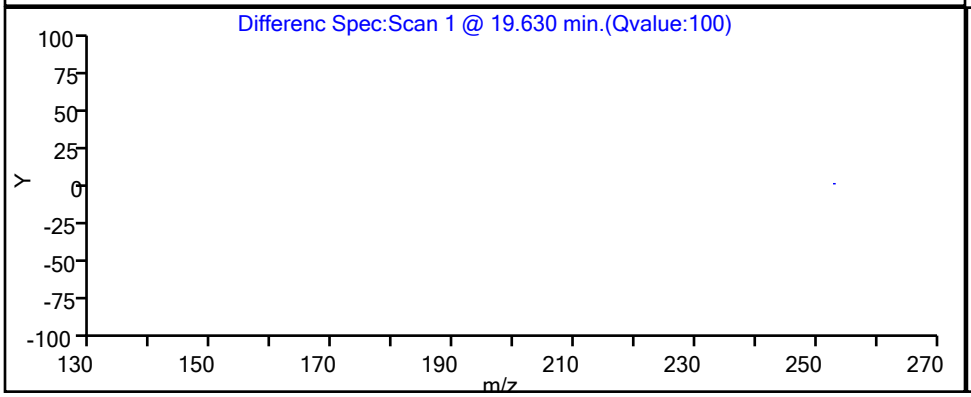


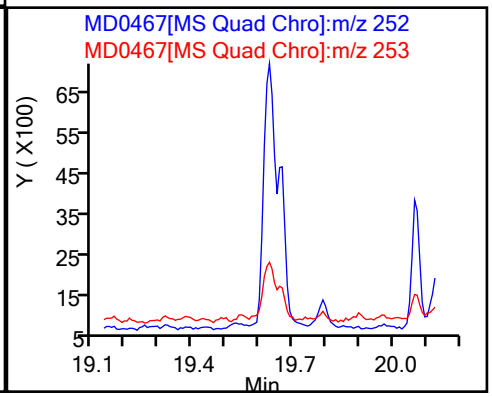








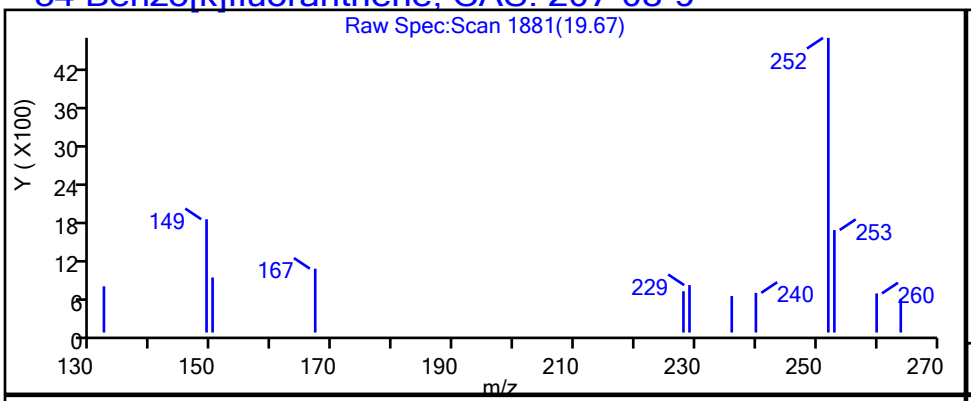


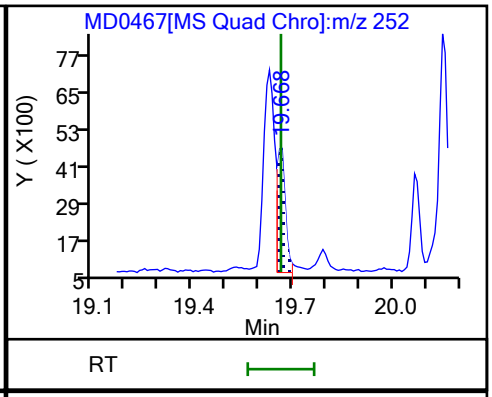


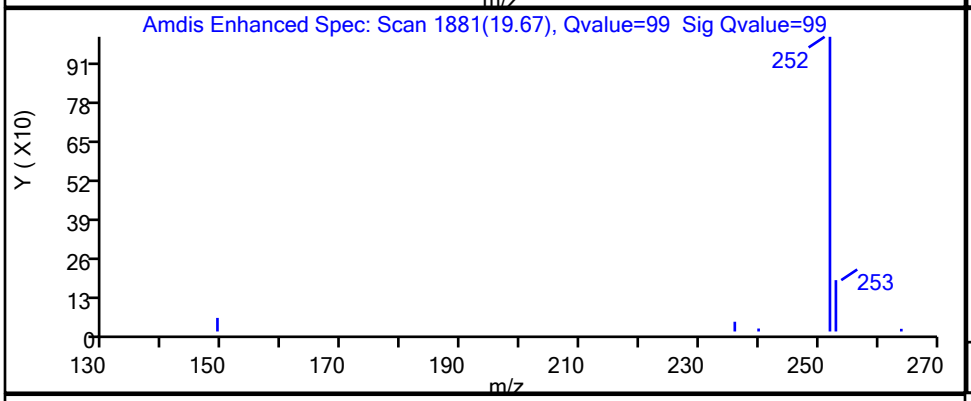
Eurofins Lancaster Laboratories Env, LLC

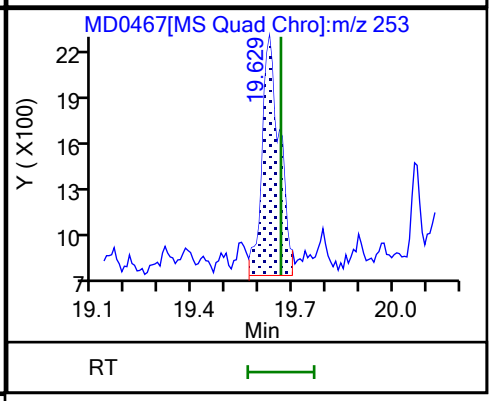
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

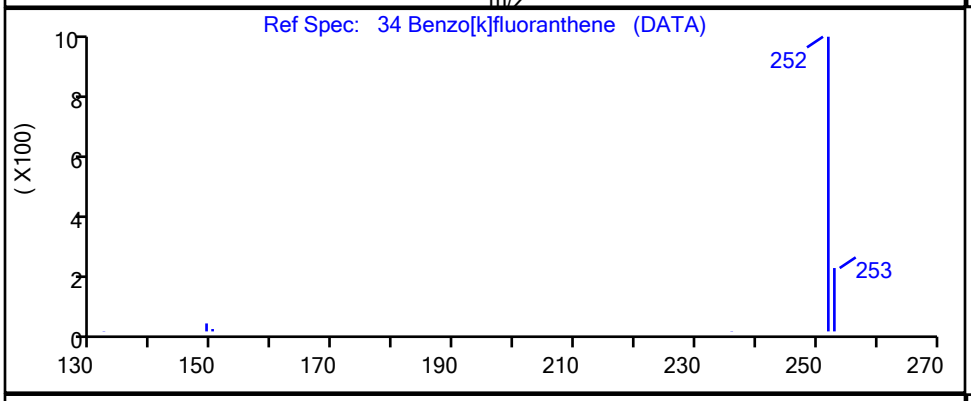
34 Benzo[k]fluoranthene, CAS: 207-08-9

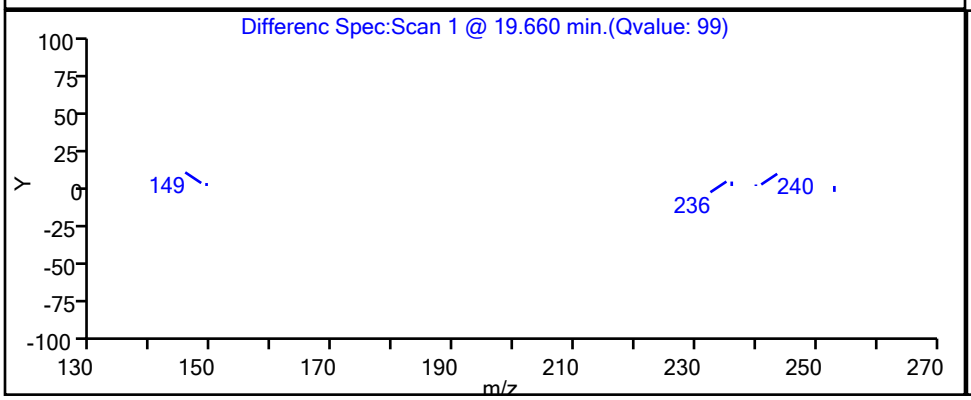


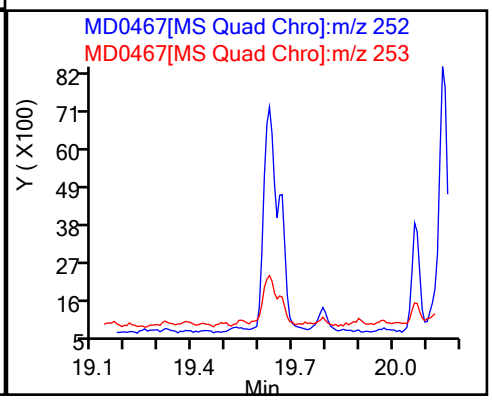










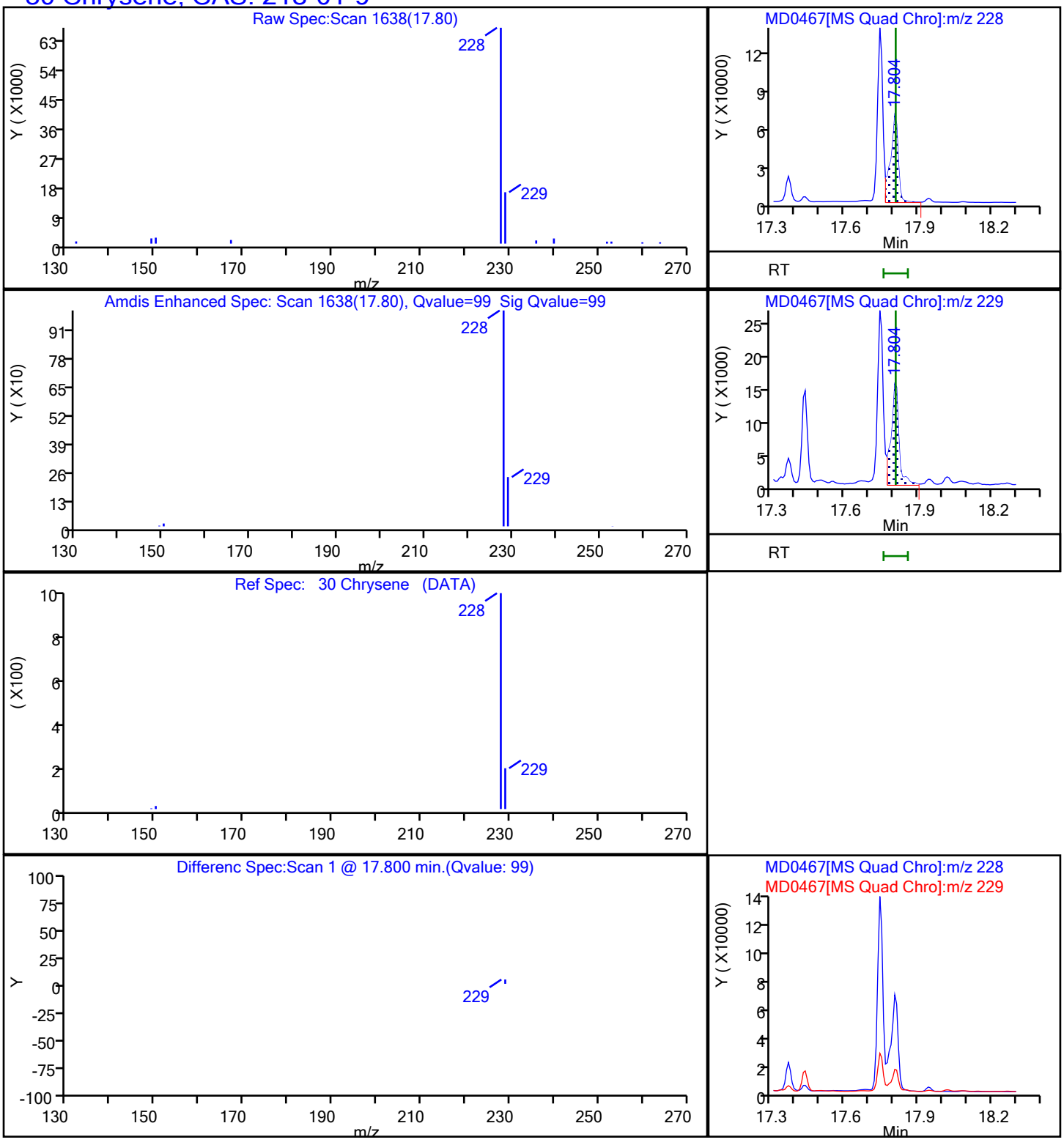


Report Date: 09-Apr-2021 10:13:47 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 Chrysene, CAS: 218-01-9

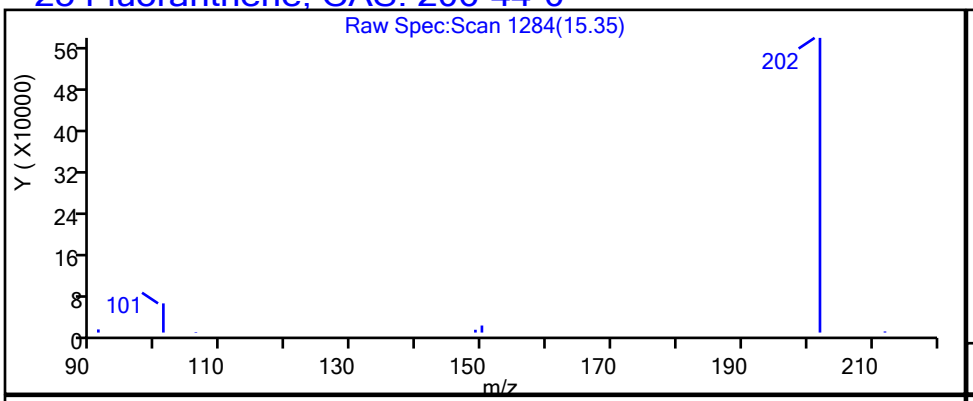


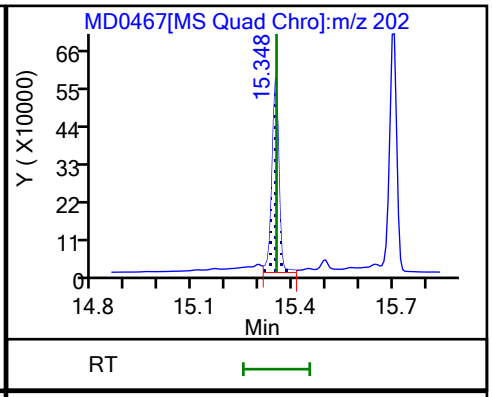
Report Date: 09-Apr-2021 10:13:47 Chrom Revision: 2.3 08-Apr-2021 17:17:48

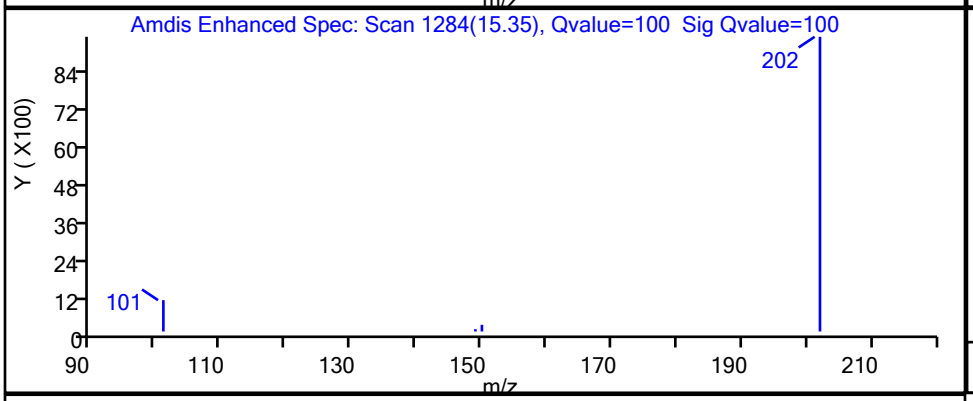
Eurofins Lancaster Laboratories Env, LLC

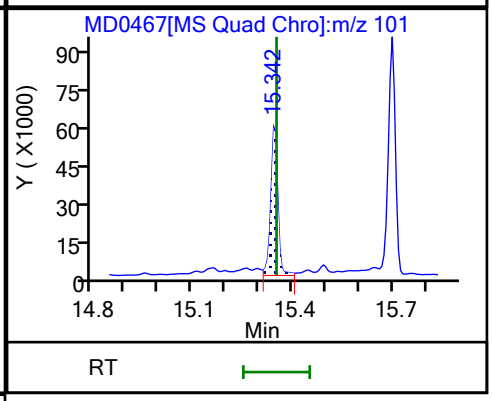
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

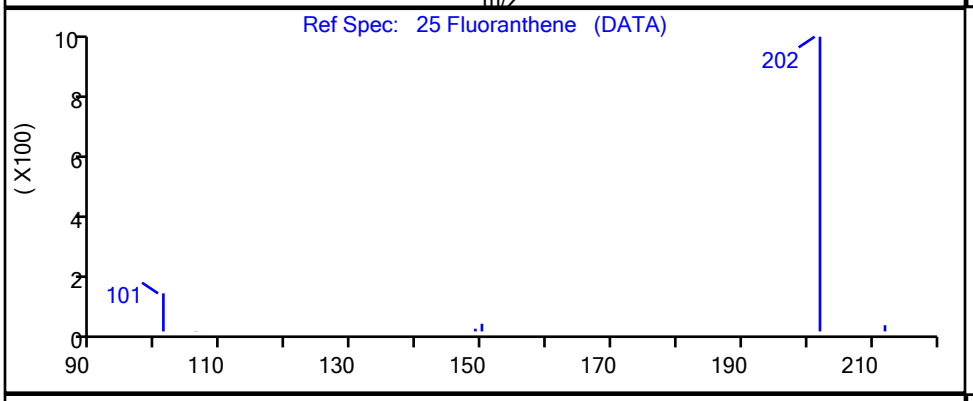
25 Fluoranthene, CAS: 206-44-0

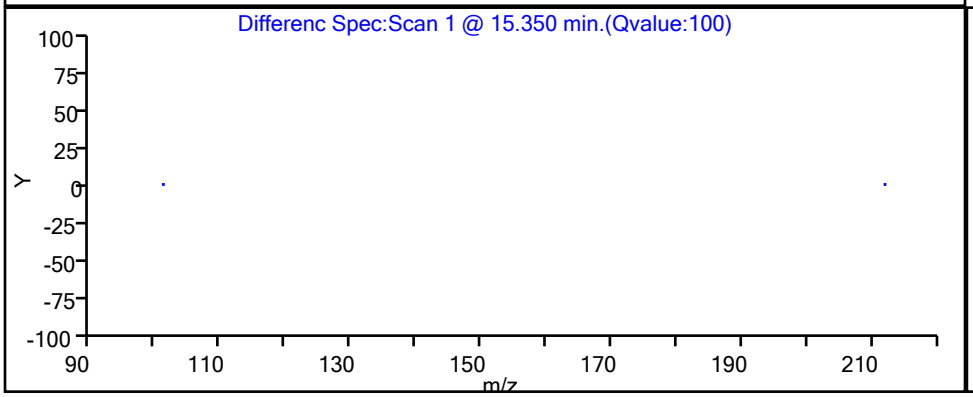


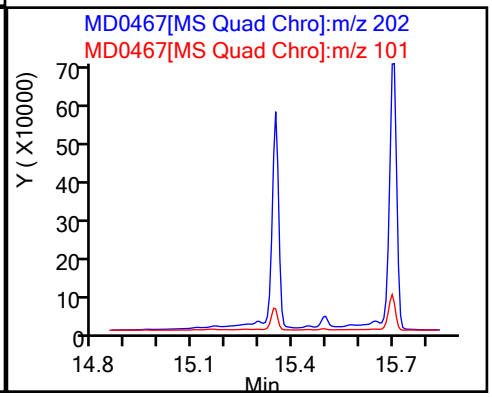








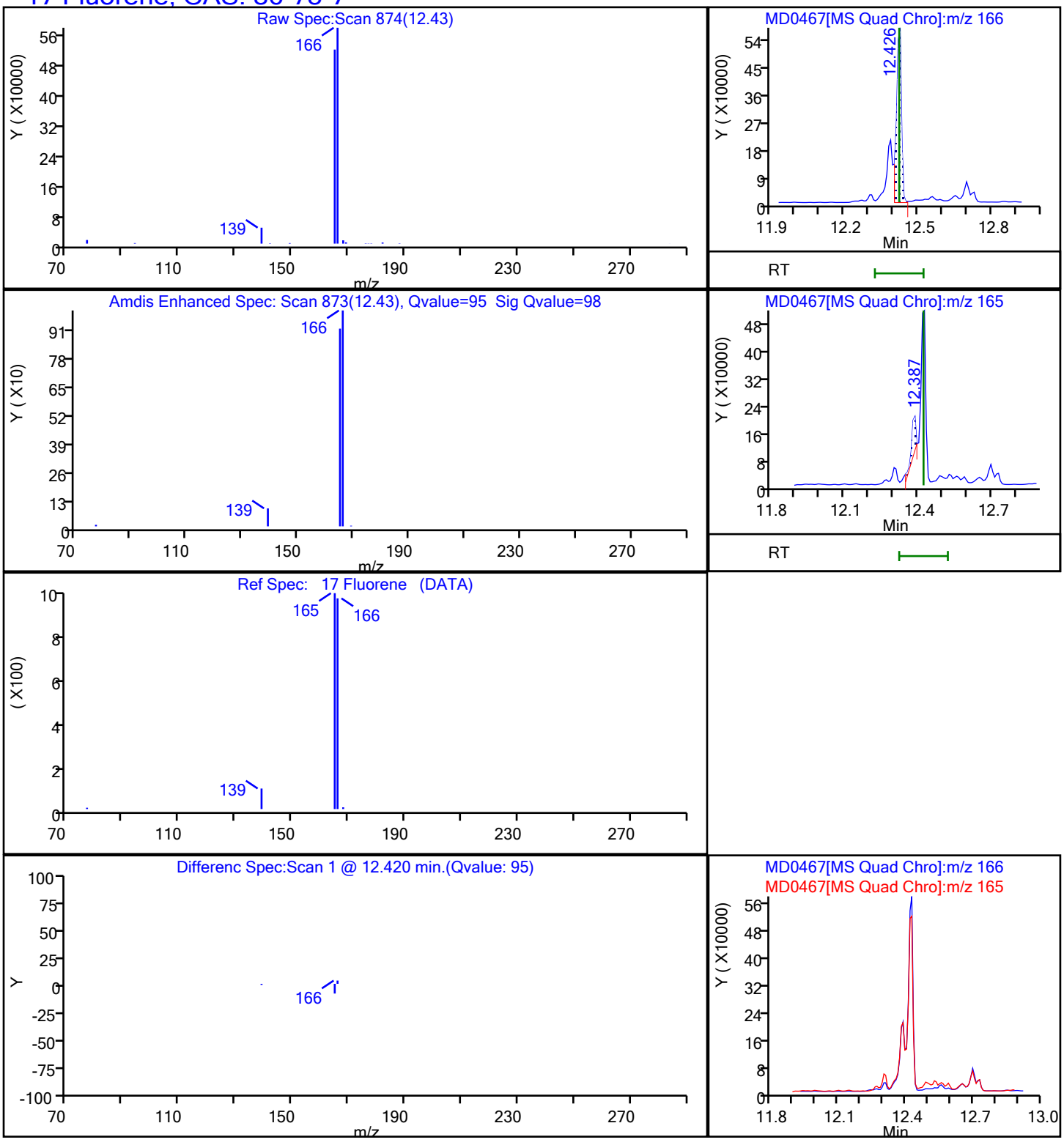




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D		
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18
Client ID:	MW-13S-20210402		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

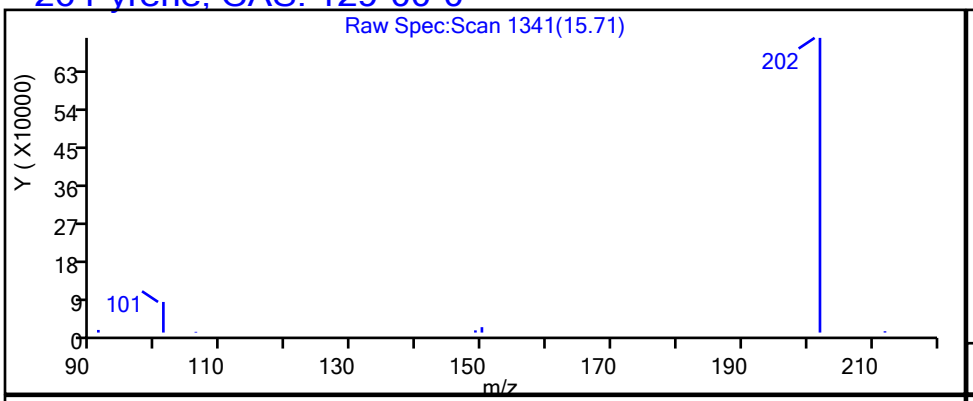
17 Fluorene, CAS: 86-73-7

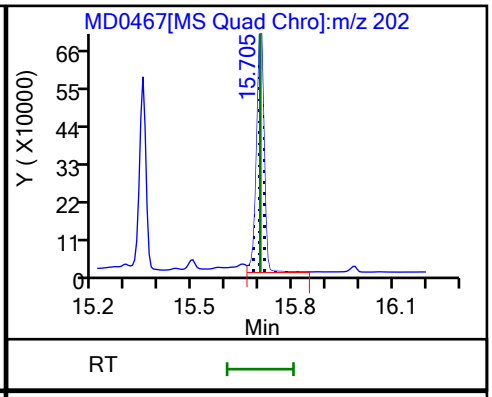


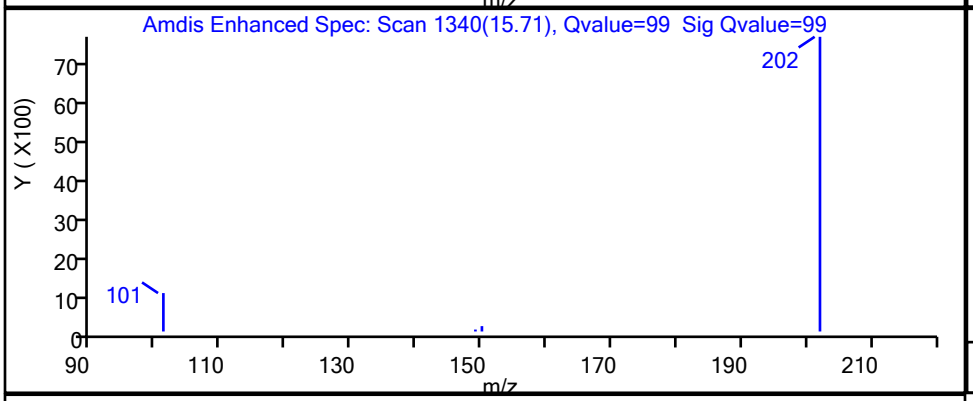
Eurofins Lancaster Laboratories Env, LLC

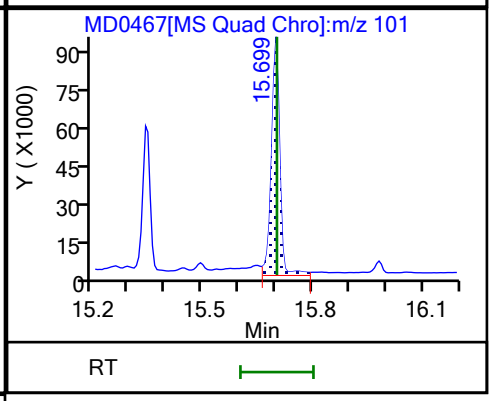
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D		
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18
Client ID:	MW-13S-20210402		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

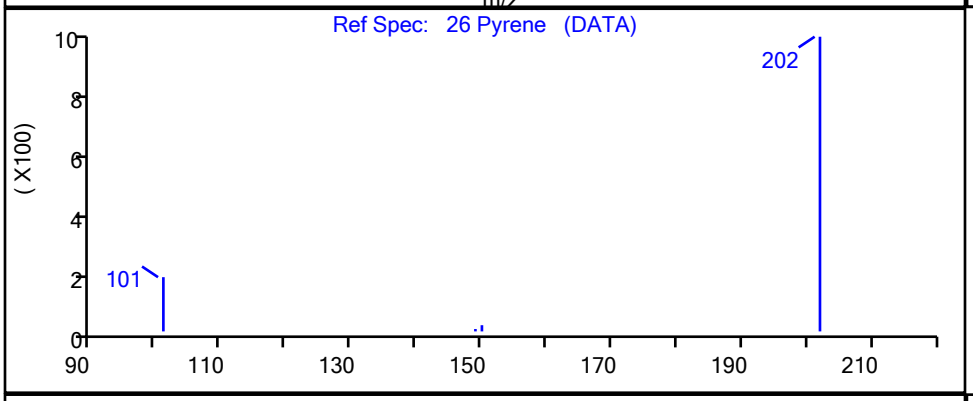
26 Pyrene, CAS: 129-00-0

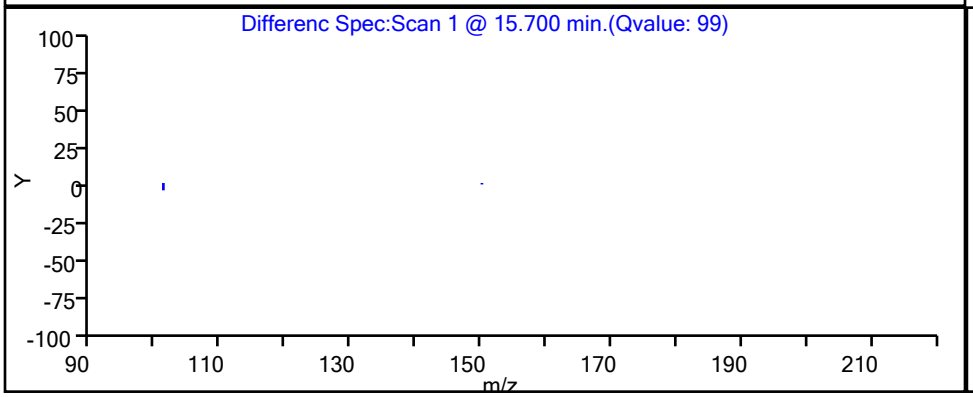


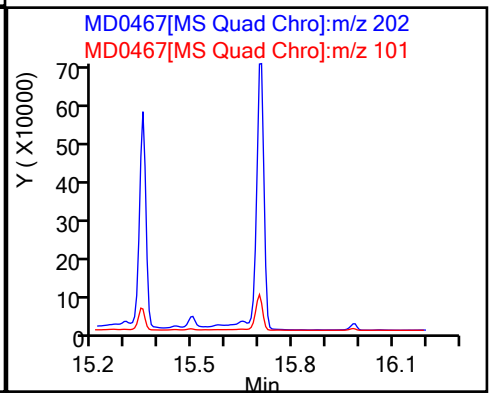












Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

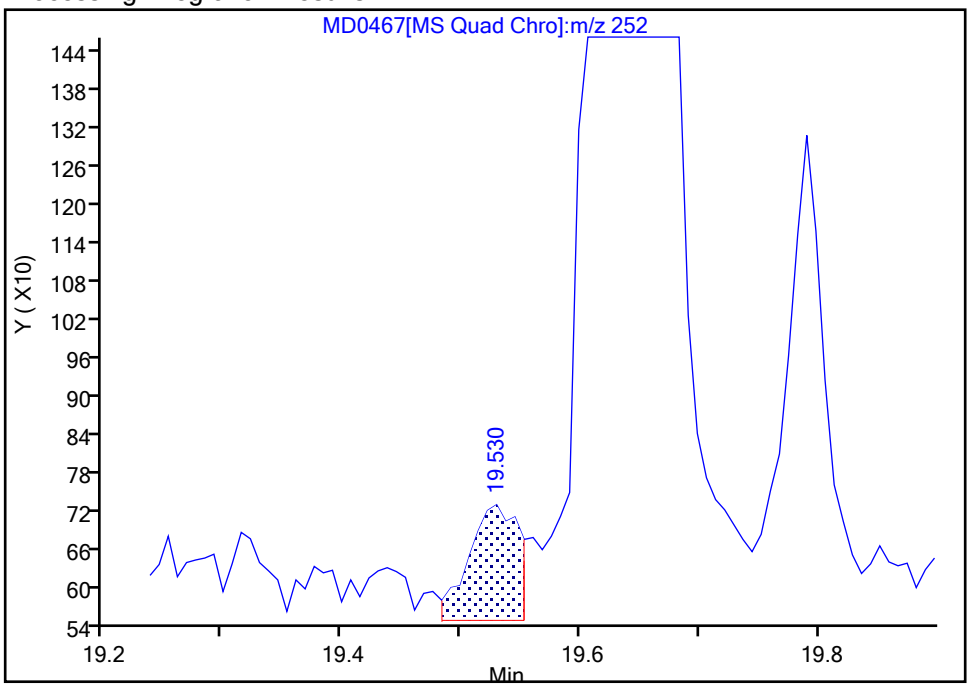
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

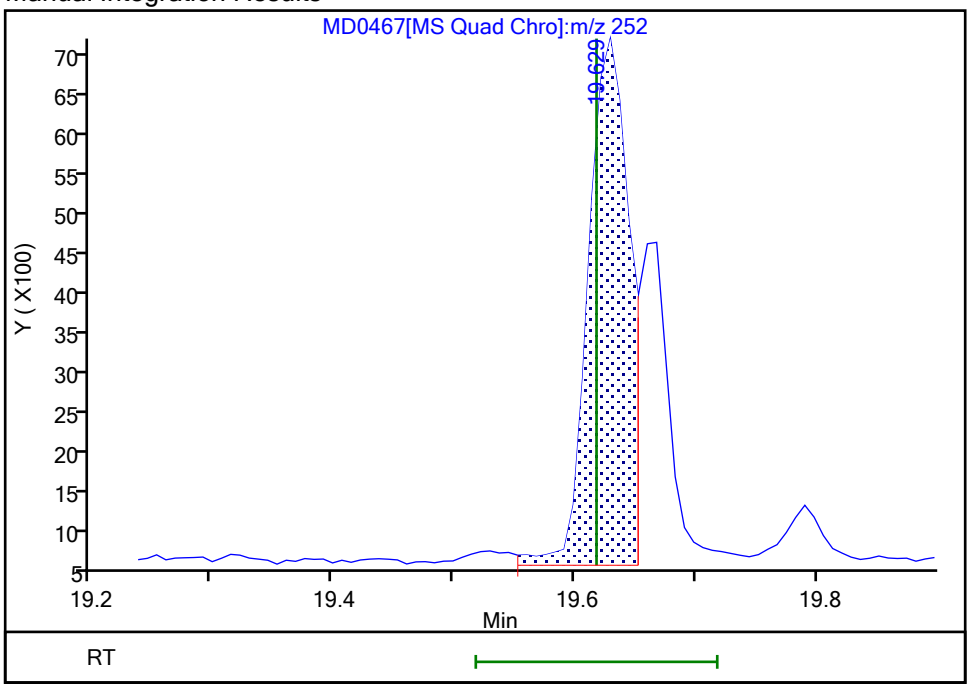
Processing Integration Results

RT: 19.53
Area: 501
Amount: 0.000687
Amount Units: ug/ml



Manual Integration Results

RT: 19.63
Area: 15263
Amount: 0.020915
Amount Units: ug/ml



Reviewer: bauera, 09-Apr-2021 10:13:24

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

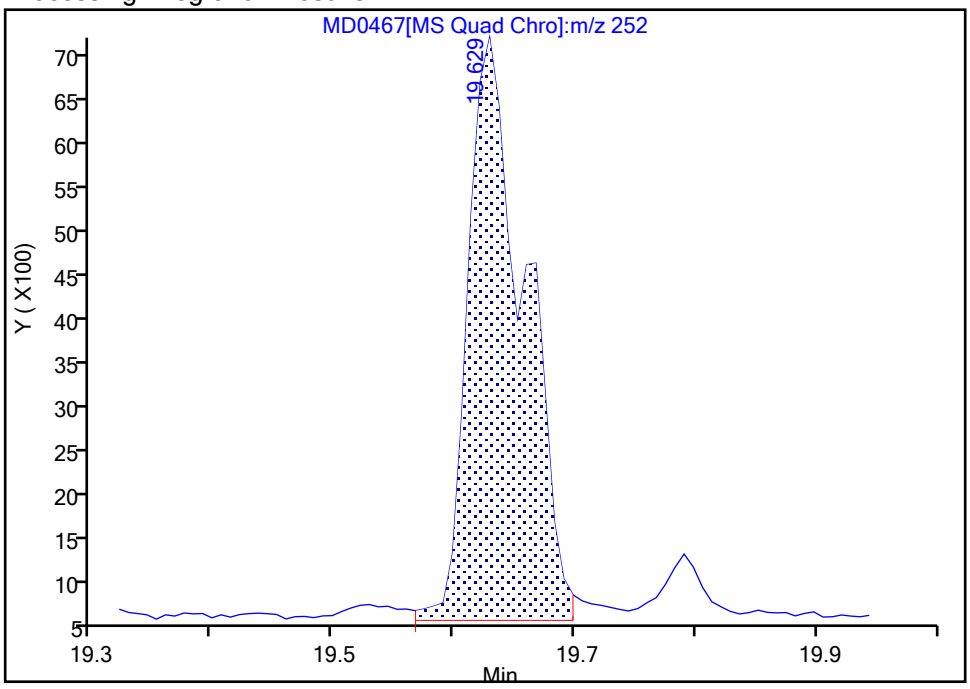
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

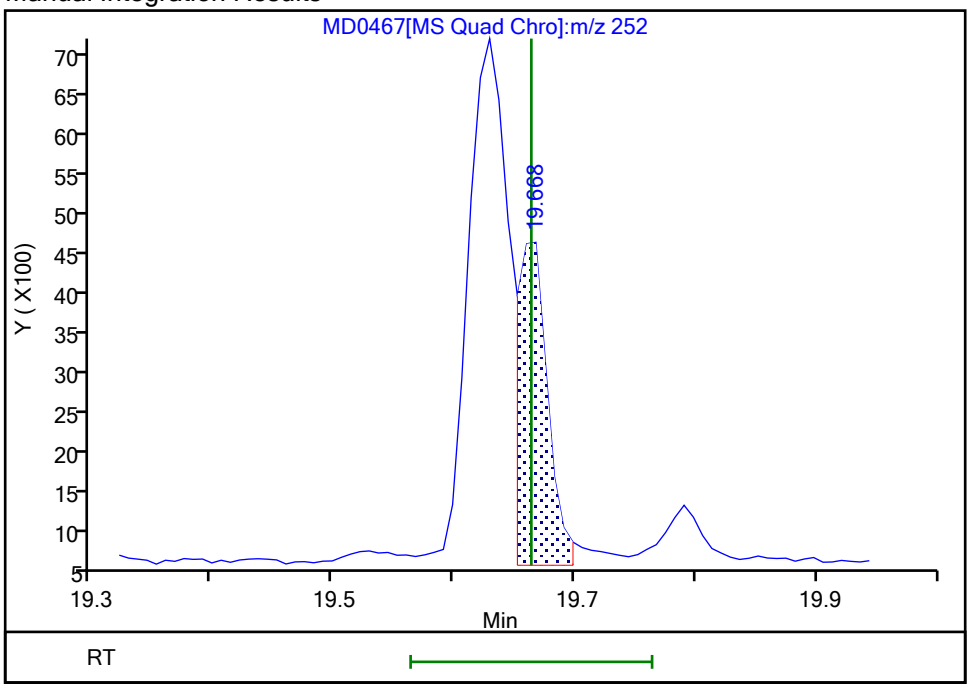
Processing Integration Results

RT: 19.63
Area: 21644
Amount: 0.028082
Amount Units: ug/ml



Manual Integration Results

RT: 19.67
Area: 6494
Amount: 0.008426
Amount Units: ug/ml



Reviewer: bauera, 09-Apr-2021 10:13:28

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

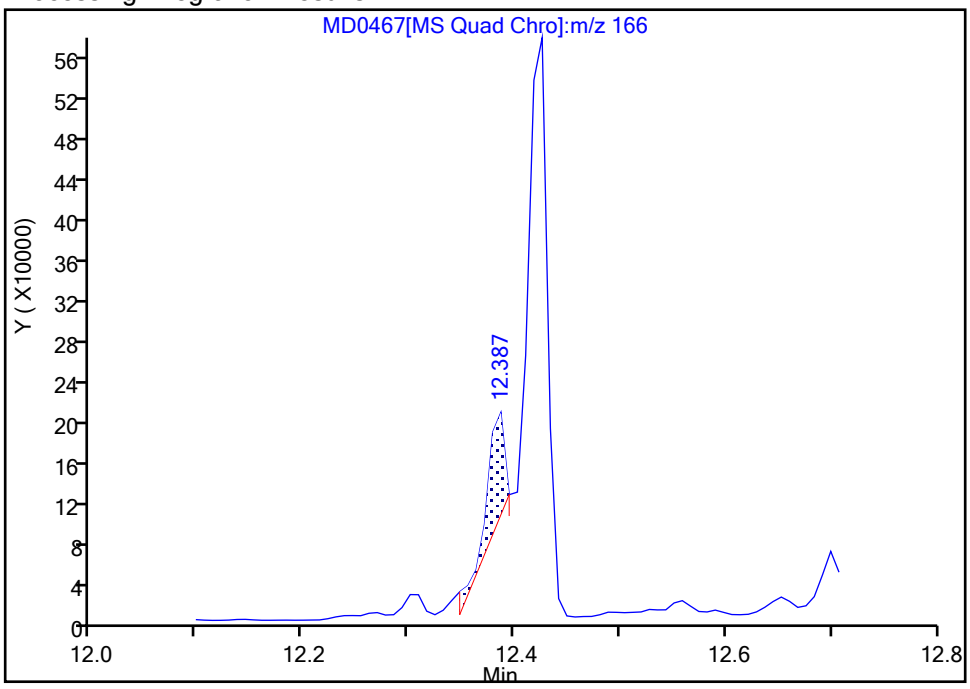
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

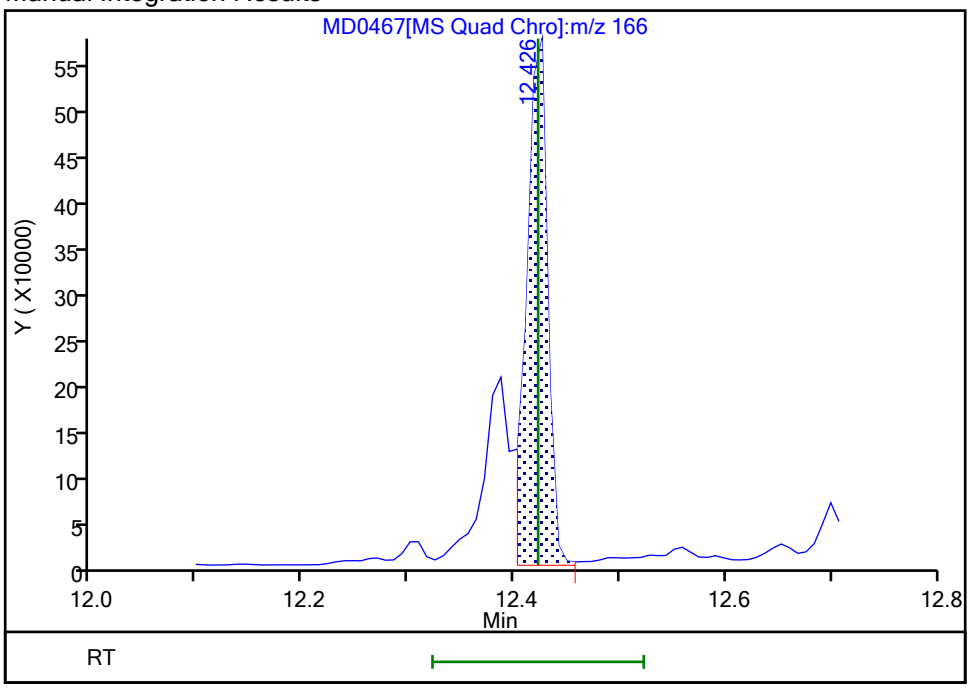
Processing Integration Results

RT: 12.39
Area: 119514
Amount: 0.325978
Amount Units: ug/ml



Manual Integration Results

RT: 12.43
Area: 768965
Amount: 2.097376
Amount Units: ug/ml



Reviewer: bauera, 09-Apr-2021 10:12:44

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

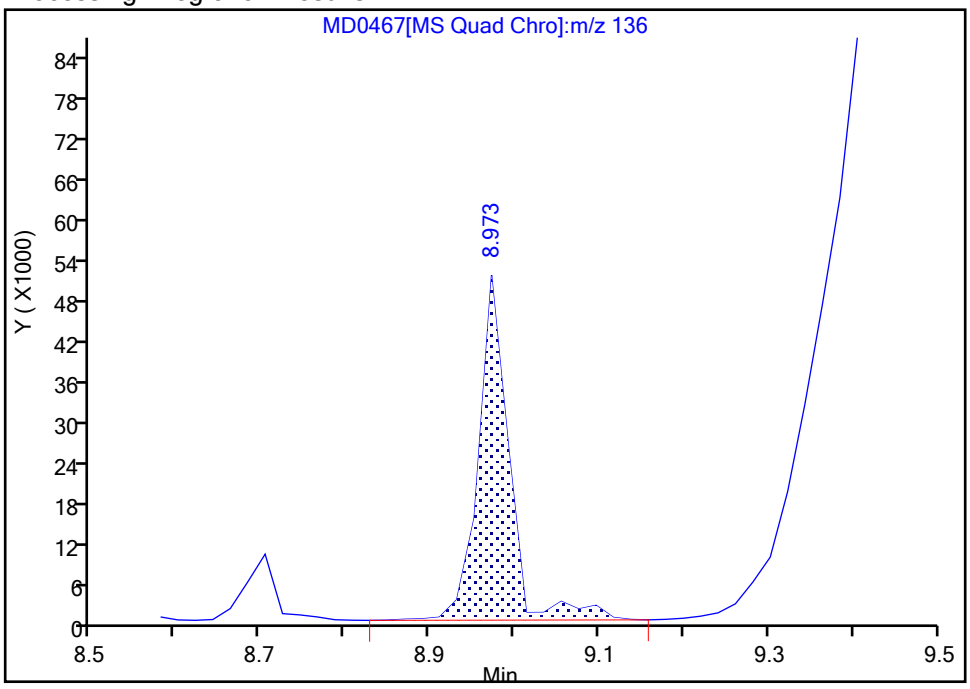
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 5 Naphthalene-d8, CAS: 1146-65-2

Signal: 1

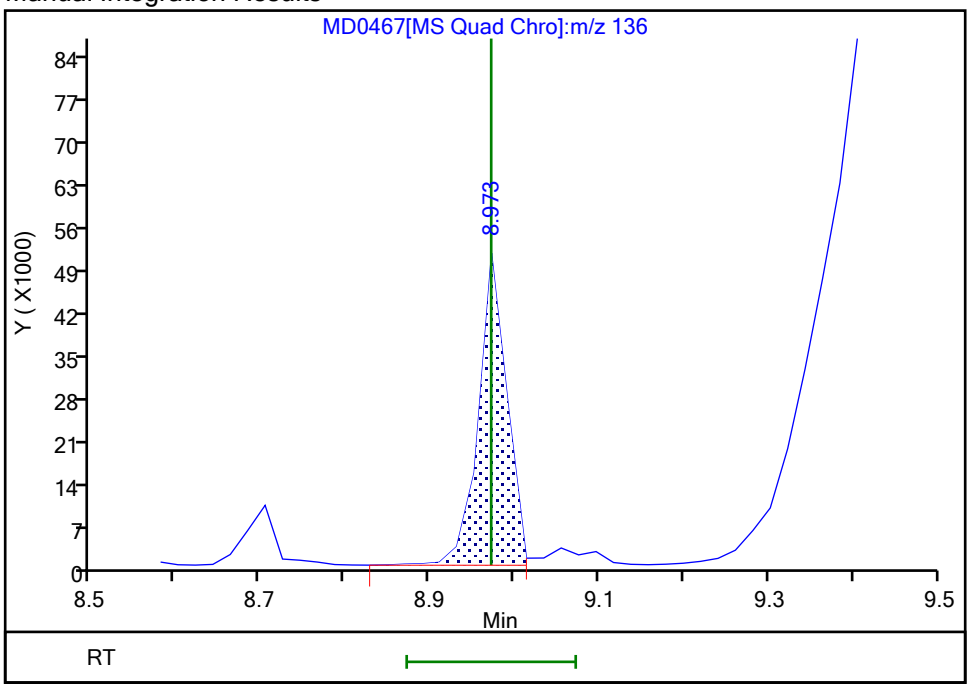
Processing Integration Results

RT: 8.97
Area: 128838
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 8.97
Area: 118508
Amount: 0.250000
Amount Units: ug/ml



Reviewer: bauera, 09-Apr-2021 10:12:24

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

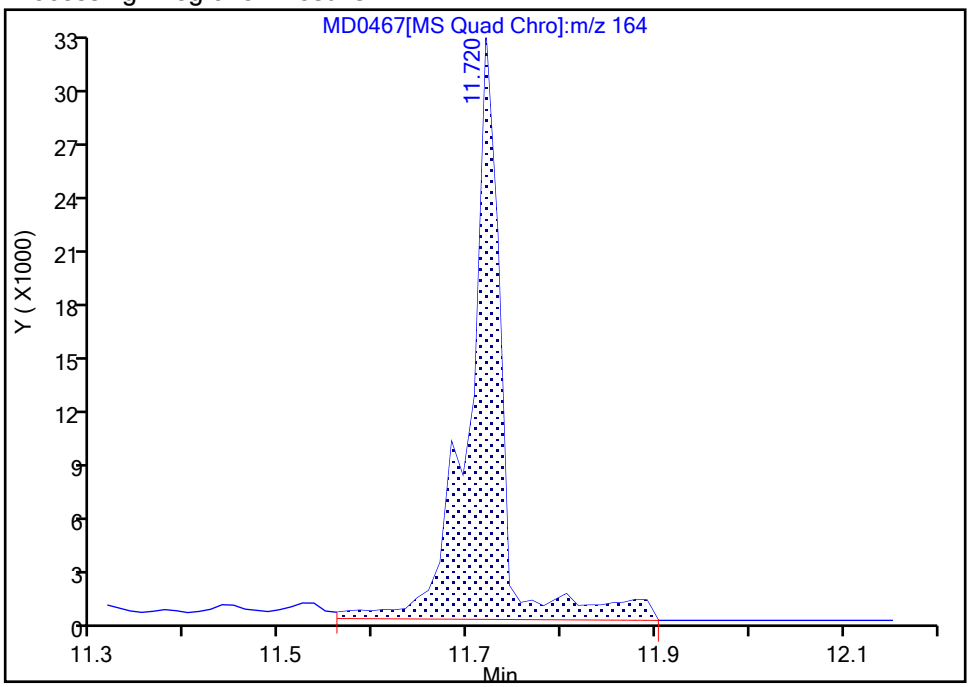
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	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

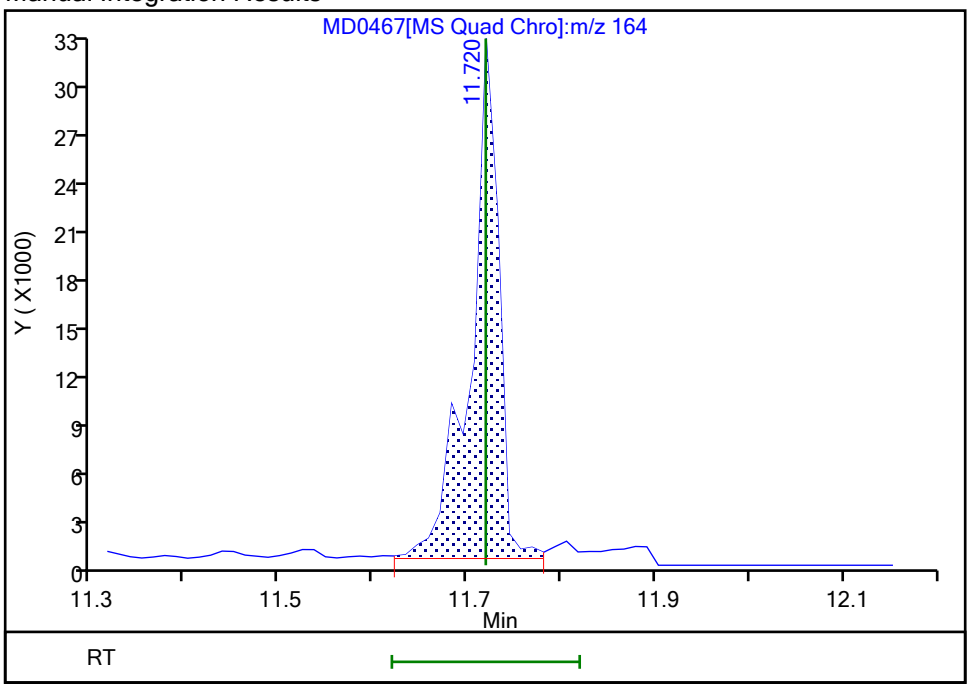
Processing Integration Results

RT: 11.72
Area: 78598
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 11.72
Area: 66530
Amount: 0.250000
Amount Units: ug/ml



Reviewer: bauera, 09-Apr-2021 10:12:33

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

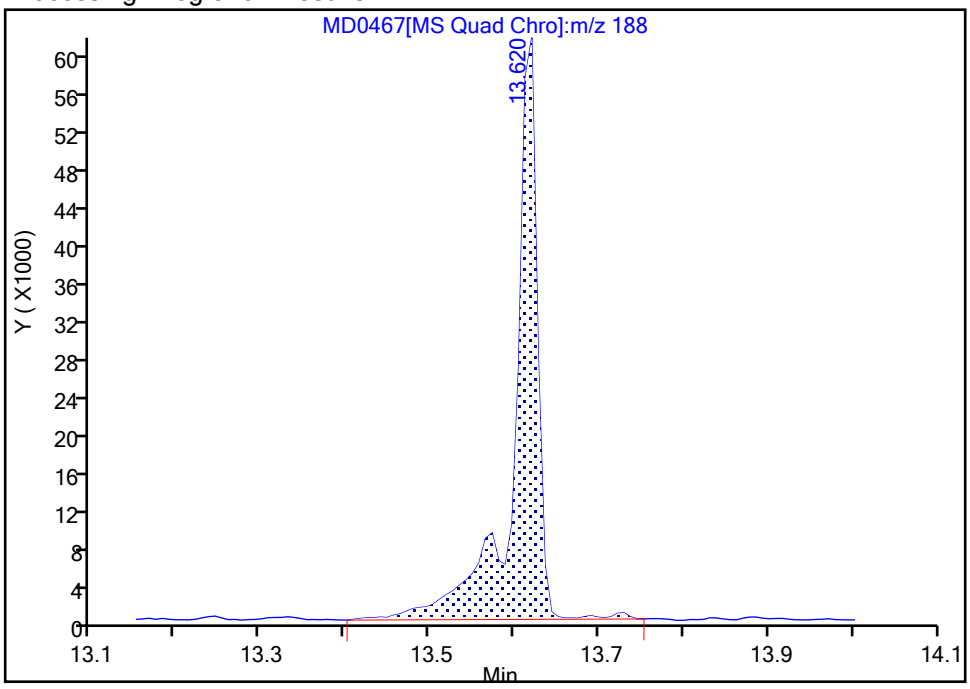
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0467.D				
Injection Date:	08-Apr-2021 17:00:09	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

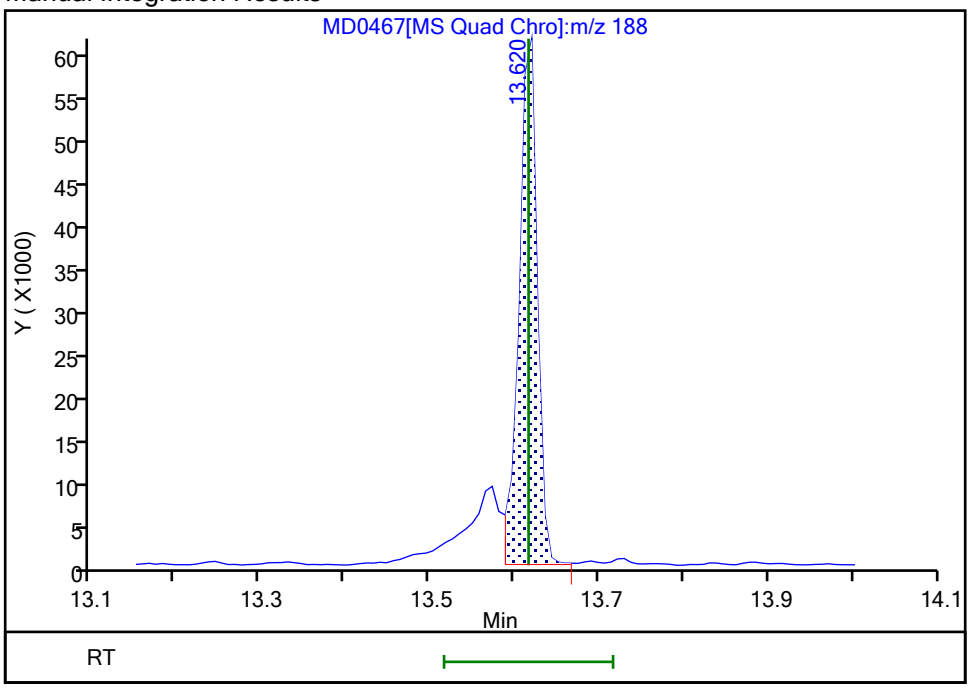
Processing Integration Results

RT: 13.62
Area: 119563
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 13.62
Area: 89656
Amount: 0.250000
Amount Units: ug/ml



Reviewer: bauera, 09-Apr-2021 10:13:07
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.: 410-34553-1

SDG No.:

Client Sample ID: MW-13S-20210402 DL Lab Sample ID: 410-34553-18 DL

Matrix: Groundwater Lab File ID: MD0506.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 11:56

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/09/2021 00:51

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.: 112543 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	35		0.50	0.10
91-20-3	Naphthalene	80		0.70	0.30
85-01-8	Phenanthrene	39		0.70	0.30

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	76		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	63		49-115
93951-69-0	Fluoranthene-d10 (Surr)	87		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0506.D
Lims ID: 410-34553-D-18-A DL
Client ID: MW-13S-20210402
Sample Type: Client
Inject. Date: 09-Apr-2021 00:51:44 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-34553-D-18-A
Misc. Info.: 410-0026241-007
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 06:05:13 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 09-Apr-2021 03:25:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	99	29475	0.2500	
* 5 Naphthalene-d8	136	8.952	8.952	0.000	92	113568	0.2500	
6 Naphthalene	128	8.993	8.993	0.000	93	909012	2.00	
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	97	3796	0.0157	
12 Acenaphthylene	152	11.499	11.500	0.000	99	15230	0.0316	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	95	66463	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	273661	0.8797	
17 Fluorene	166	12.399	12.407	-0.008	98	120526	0.3291	
* 20 Phenanthrene-d10	188	13.593	13.593	0.000	95	123969	0.2500	
21 Phenanthrene	178	13.624	13.625	0.000	100	497939	0.9633	
22 Anthracene	178	13.694	13.695	-0.001	100	75313	0.1494	
$ 24 Fluoranthene-d10 (Surr)	212	15.294	15.294	0.000	98	10343	0.0216	
25 Fluoranthene	202	15.319	15.326	-0.007	100	86506	0.1501	
26 Pyrene	202	15.676	15.677	-0.001	99	131592	0.1997	
28 Benzo[a]anthracene	228	17.716	17.724	-0.008	100	18634	0.0326	
* 29 Chrysene-d12	240	17.739	17.739	0.000	57	114737	0.2500	
30 Chrysene	228	17.777	17.785	-0.008	100	12422	0.0211	
33 Benzo[b]fluoranthene	252	19.602	19.595	0.007	98	1274	0.002096	7M
34 Benzo[k]fluoranthene	252	19.641	19.641	0.000	98	594	0.000925	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.086	20.094	-0.007	99	8634	0.0189	
* 38 Perylene-d12	264	20.224	20.224	0.000	99	131188	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

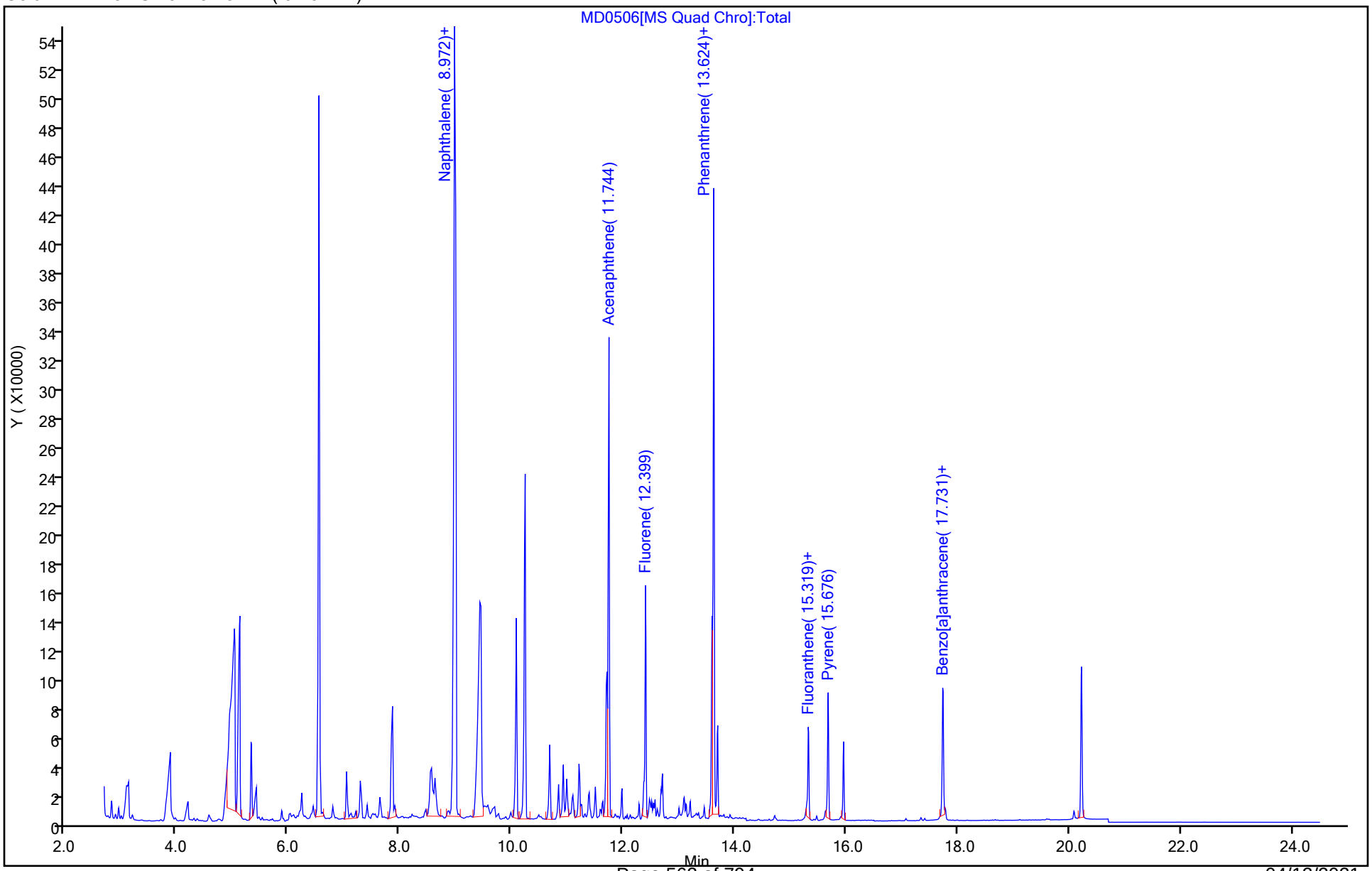
Report Date: 09-Apr-2021 06:05:39 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0506.D

Injection Date:	09-Apr-2021 00:51:44	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-18-A DL	Lab Sample ID:	410-34553-18	Worklist Smp#:	7
Client ID:	MW-13S-20210402				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



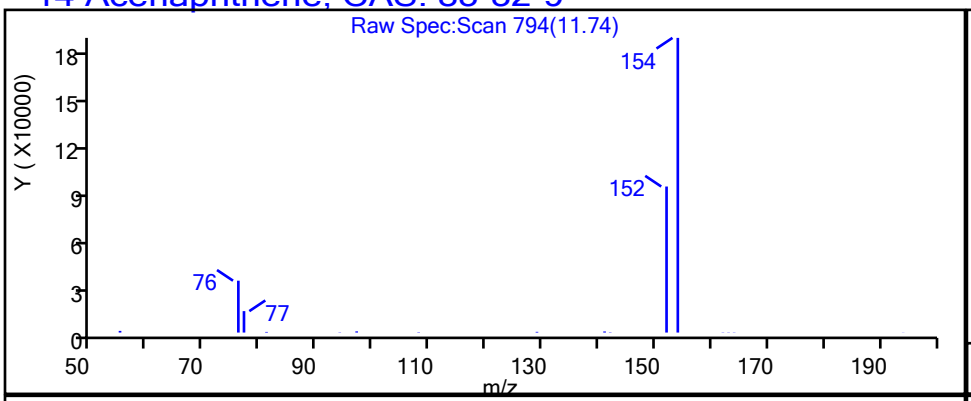
Report Date: 09-Apr-2021 06:05:40 Chrom Revision: 2.3 08-Apr-2021 17:17:48

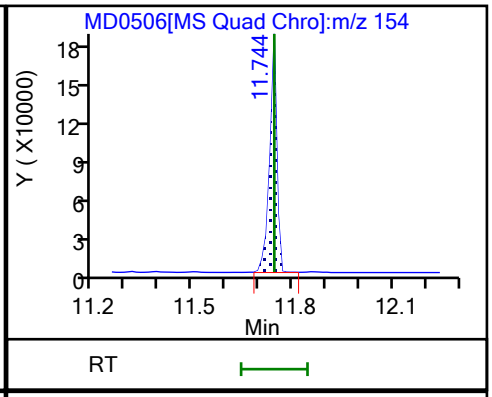
Eurofins Lancaster Laboratories Env, LLC

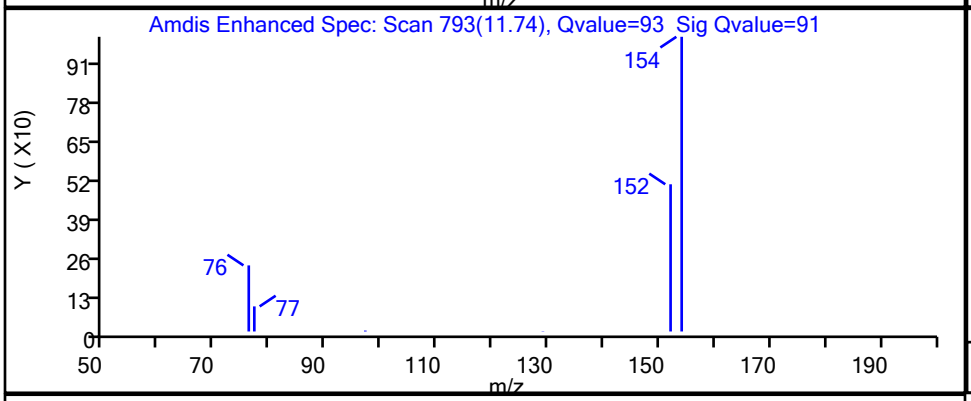
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0506.D

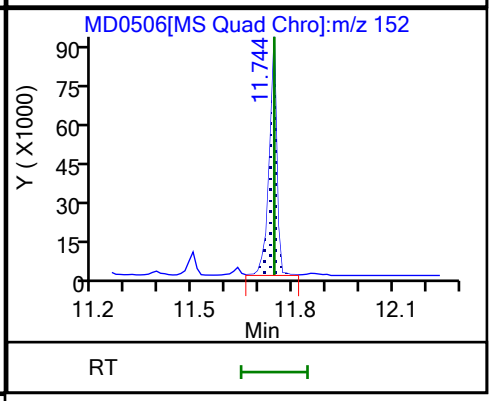
Injection Date:	09-Apr-2021 00:51:44	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A DL	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

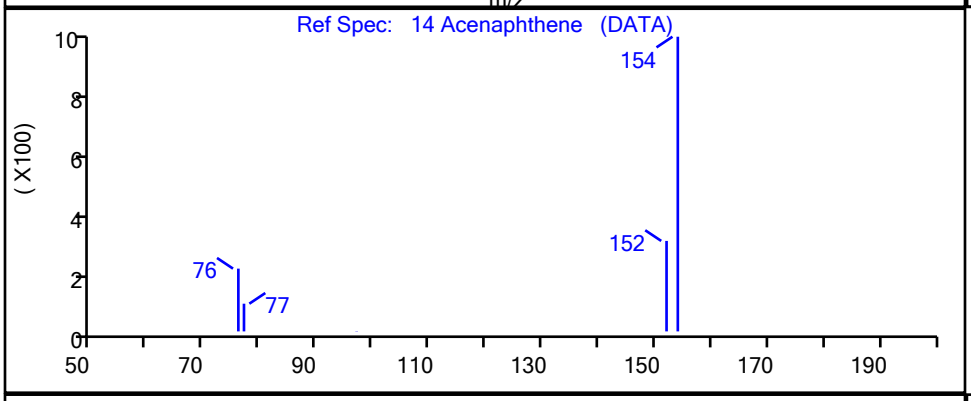
14 Acenaphthene, CAS: 83-32-9

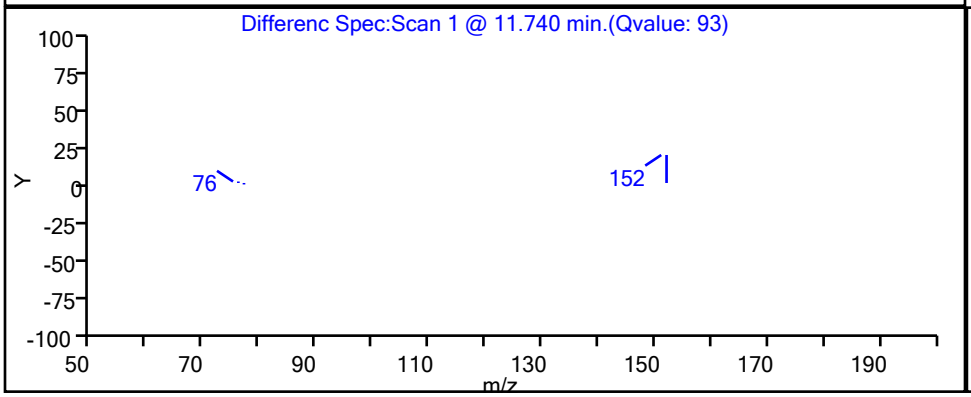


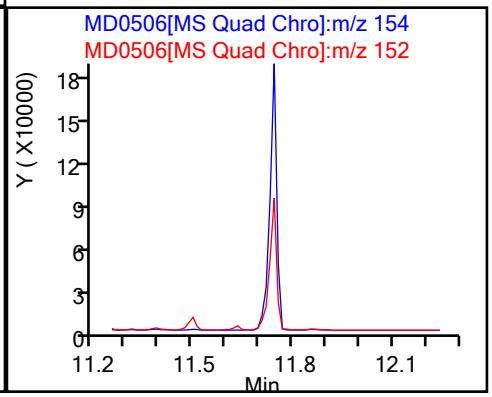












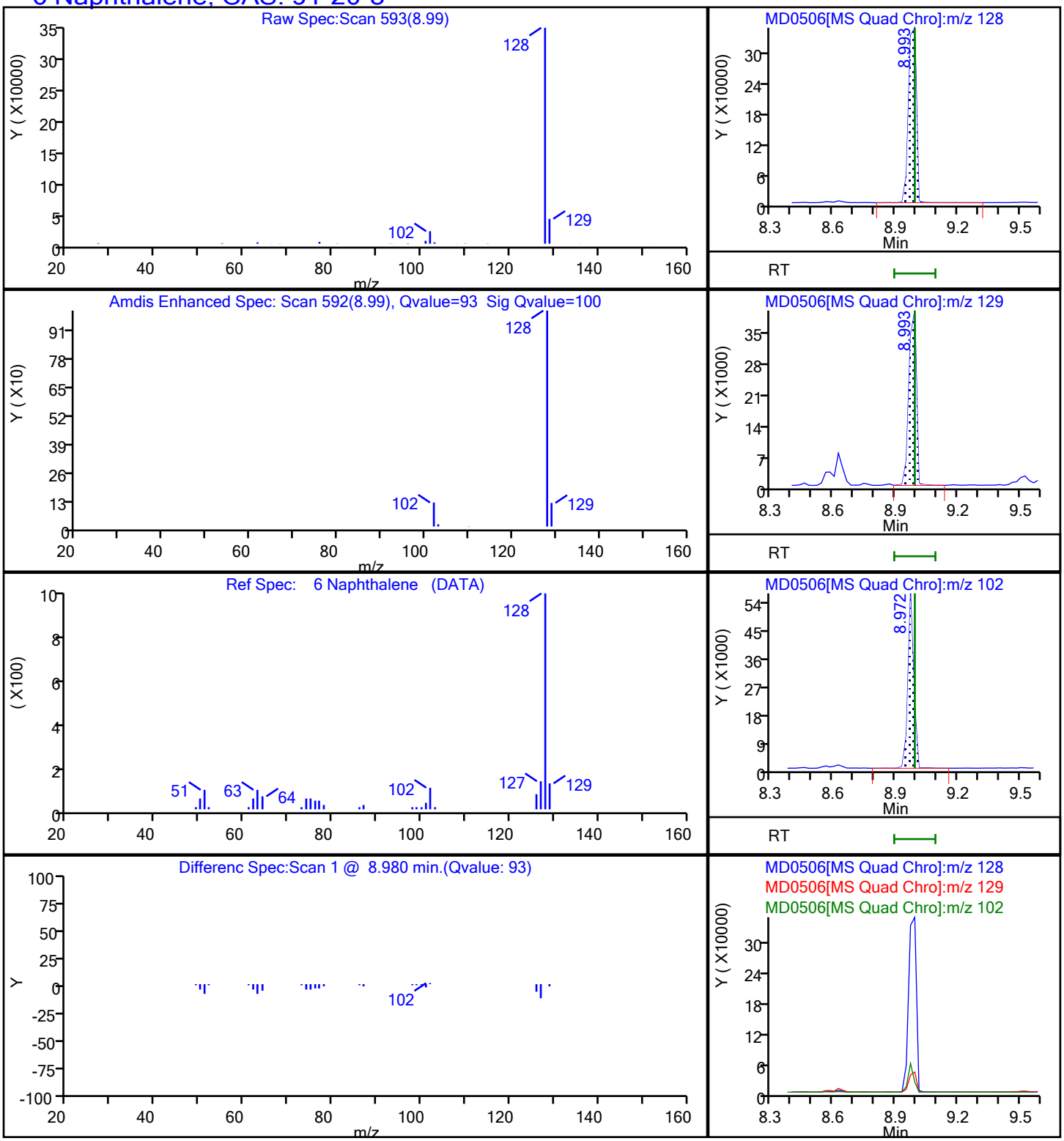
Report Date: 09-Apr-2021 06:05:40 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0506.D

Injection Date:	09-Apr-2021 00:51:44	Instrument ID:	HP21585
Lims ID:	410-34553-D-18-A DL	Lab Sample ID:	410-34553-18
Client ID:	MW-13S-20210402		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

6 Naphthalene, CAS: 91-20-3

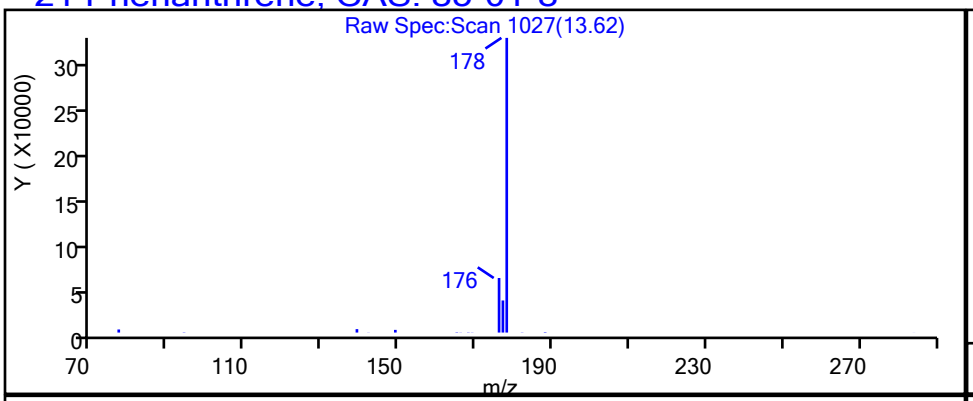


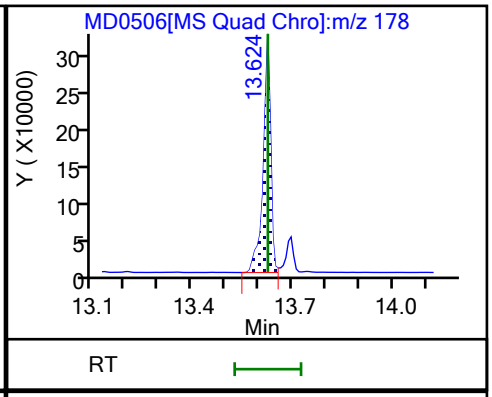
Report Date: 09-Apr-2021 06:05:40 Chrom Revision: 2.3 08-Apr-2021 17:17:48

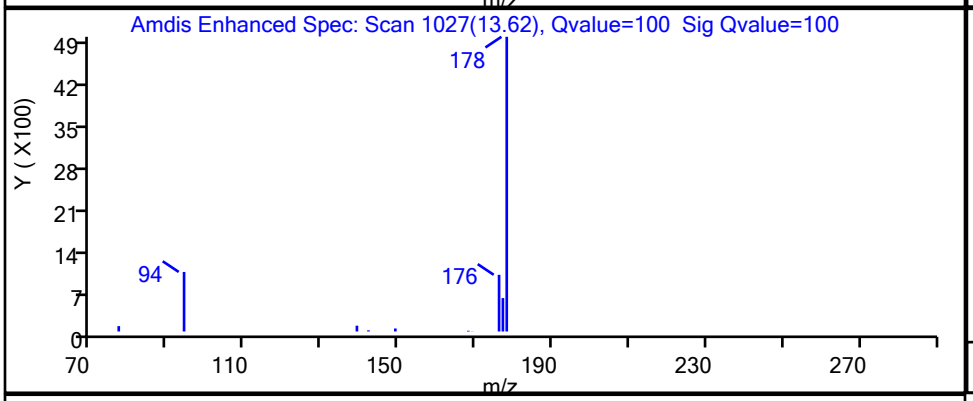
Eurofins Lancaster Laboratories Env, LLC

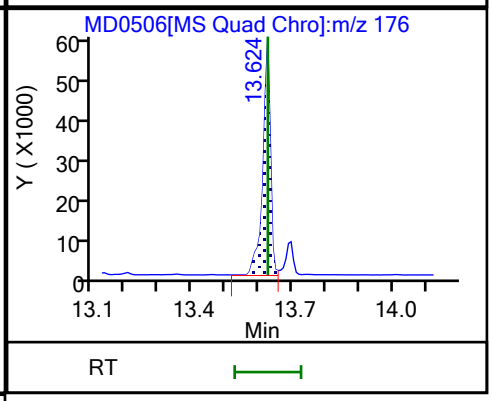
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0506.D				
Injection Date:	09-Apr-2021 00:51:44	Instrument ID:	HP21585		
Lims ID:	410-34553-D-18-A DL	Lab Sample ID:	410-34553-18		
Client ID:	MW-13S-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

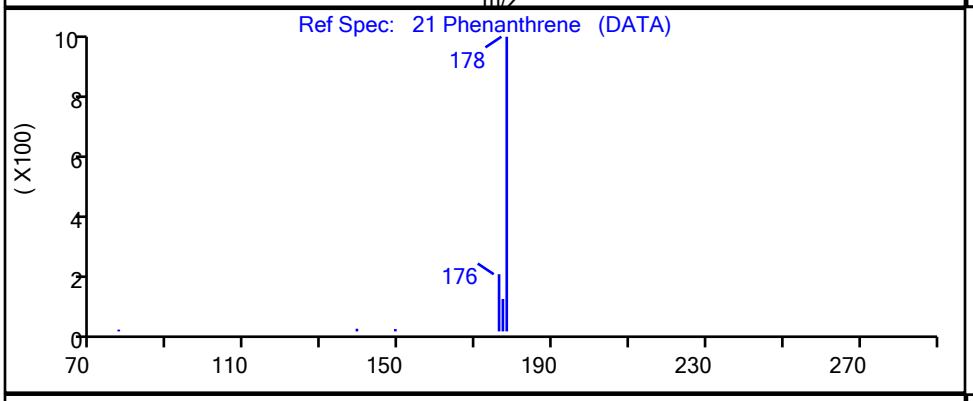
21 Phenanthrene, CAS: 85-01-8

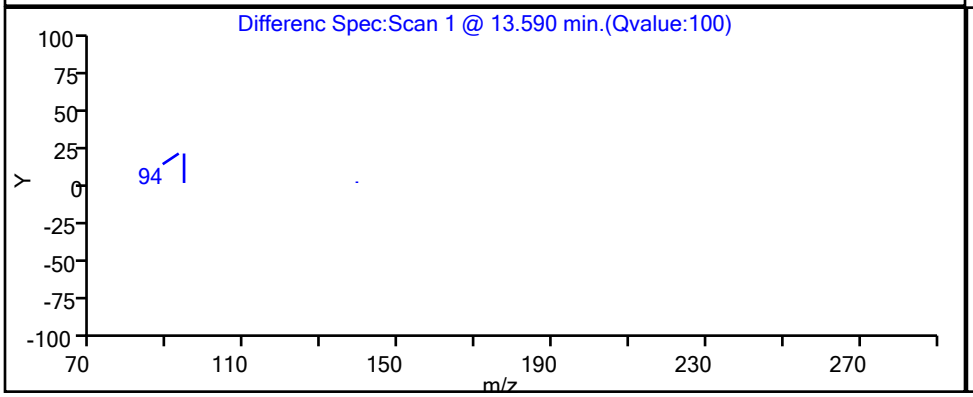


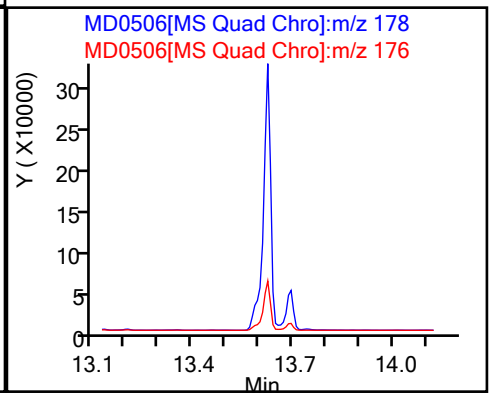












FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: MW-13D-20210402 Lab Sample ID: 410-34553-19

Matrix: Groundwater Lab File ID: MD0468.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 12:35

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 17:30

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.: 112126 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	0.019	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	0.018	J	0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	65		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	60		49-115
93951-69-0	Fluoranthene-d10 (Surr)	88		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0468.D				
Lims ID:	410-34553-D-19-A				
Client ID:	MW-13D-20210402				
Sample Type:	Client				
Inject. Date:	08-Apr-2021 17:30:44	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-34553-D-19-A				
Misc. Info.:	410-0026143-019				
Operator ID:	jmg00346	Instrument ID:	HP21585		
Method:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m				
Limit Group:	MSSV - 8270D_E SIM				
Last Update:	08-Apr-2021 19:22:22	Calib Date:	26-Mar-2021 15:15:54		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1638				
First Level Reviewer: transuea		Date:	08-Apr-2021 19:02:43		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.077	7.076	0.001	97	28458	0.2500	
* 5 Naphthalene-d8	136	8.973	8.972	0.001	91	109483	0.2500	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.001	100	35113	0.1505	
* 13 Acenaphthene-d10	164	11.720	11.719	0.001	98	61308	0.2500	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	95	115999	0.2500	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.001	98	98485	0.2203	
25 Fluoranthene	202	15.345	15.351	-0.006	98	2565	0.004756	
26 Pyrene	202	15.702	15.702	0.000	99	3304	0.004534	
* 29 Chrysene-d12	240	17.762	17.762	0.000	55	126923	0.2500	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.001	99	87980	0.1627	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	155263	0.2500	

QC Flag Legend

Processing Flags

Reagents:

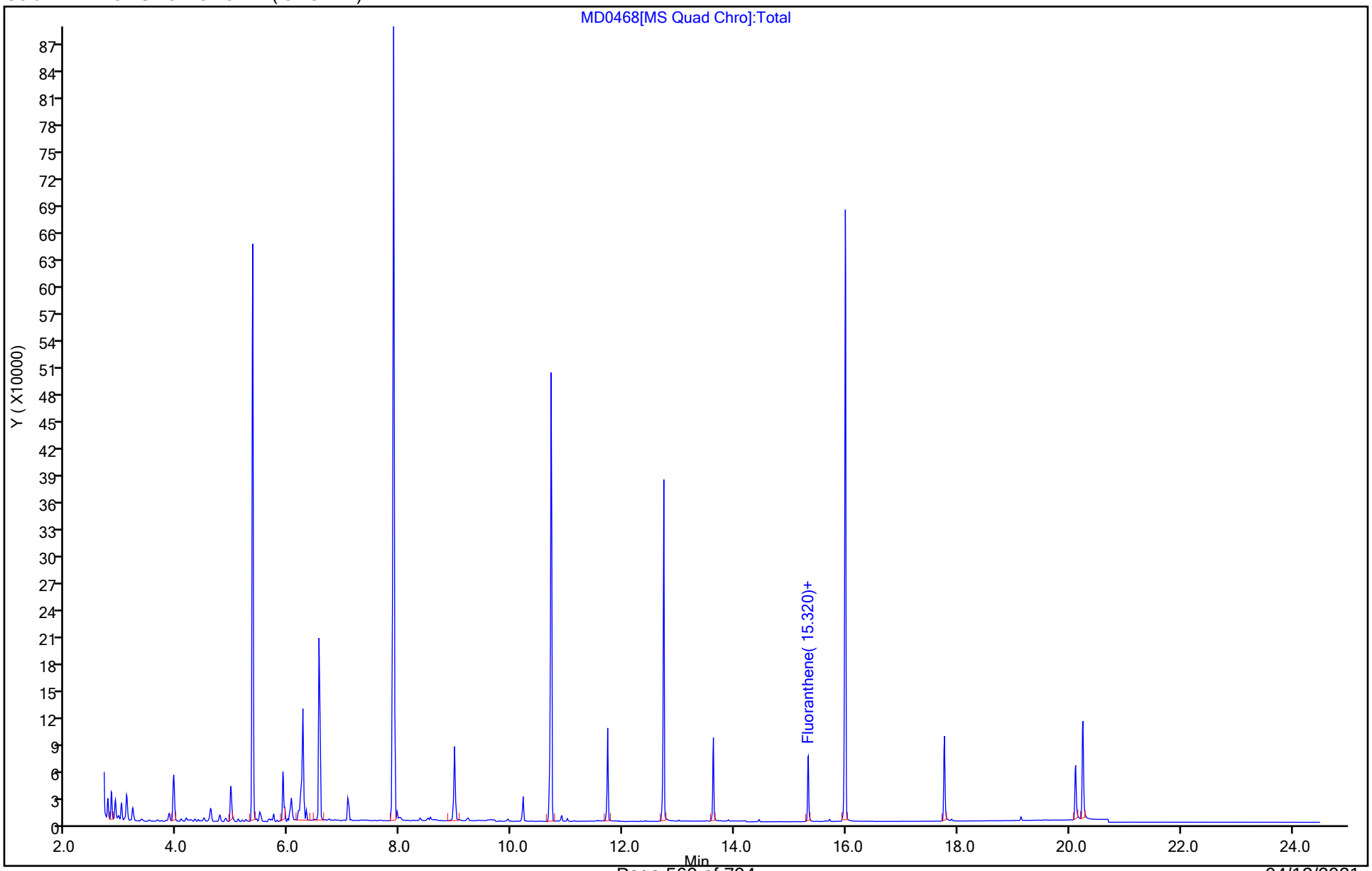
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 08-Apr-2021 19:23:38 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0468.D				
Injection Date:	08-Apr-2021 17:30:44	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	410-34553-D-19-A	Lab Sample ID:	410-34553-19	Worklist Smp#:	19
Client ID:	MW-13D-20210402				
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)



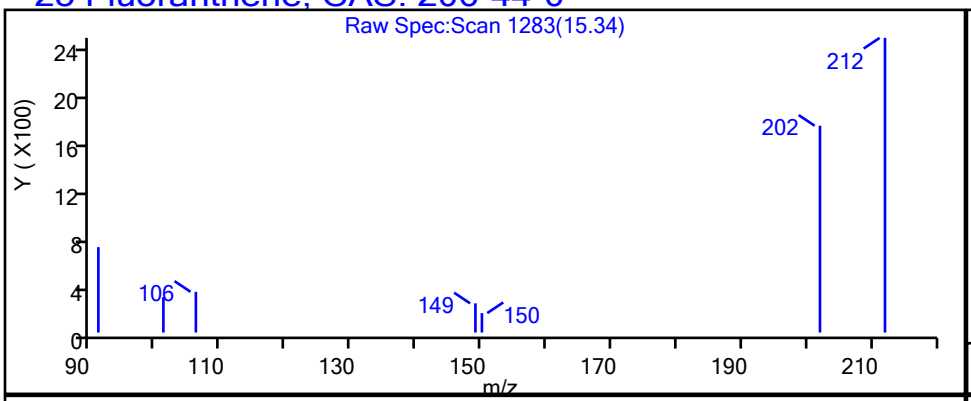
Report Date: 08-Apr-2021 19:23:38 Chrom Revision: 2.3 19-Mar-2021 08:24:58

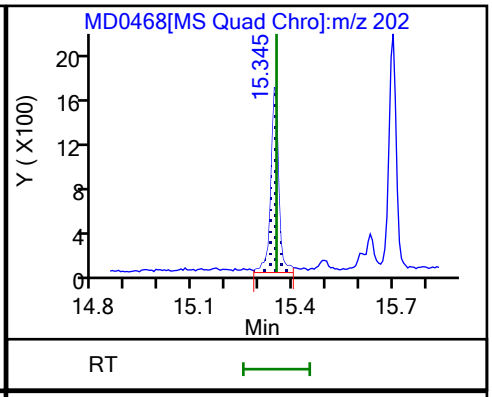
Eurofins Lancaster Laboratories Env, LLC

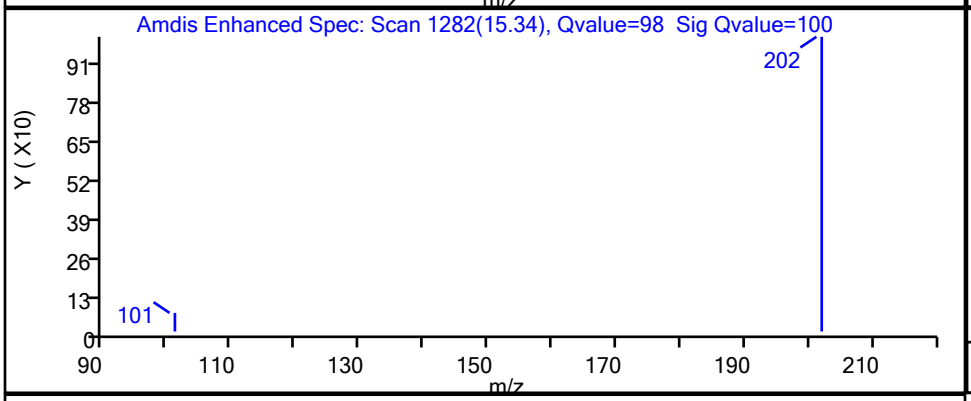
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0468.D

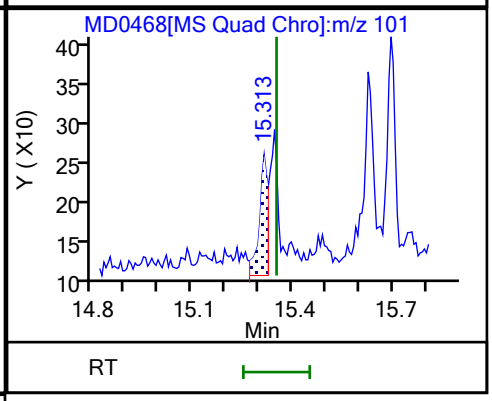
Injection Date:	08-Apr-2021 17:30:44	Instrument ID:	HP21585
Lims ID:	410-34553-D-19-A	Lab Sample ID:	410-34553-19
Client ID:	MW-13D-20210402		
Operator ID:	jmg00346	ALS Bottle#:	0 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

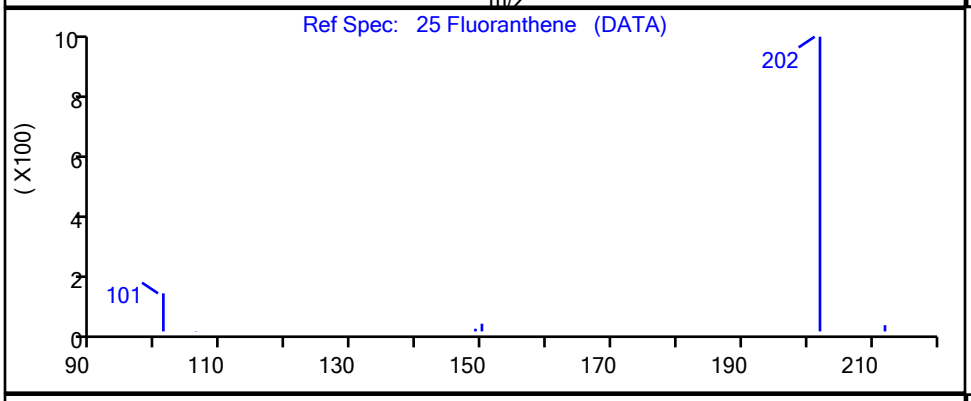
25 Fluoranthene, CAS: 206-44-0

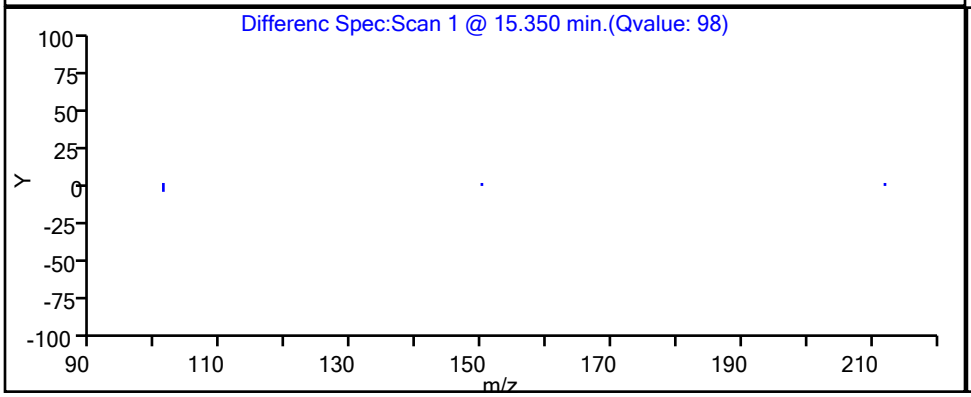


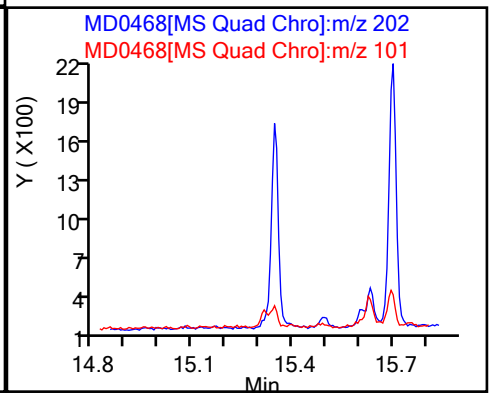












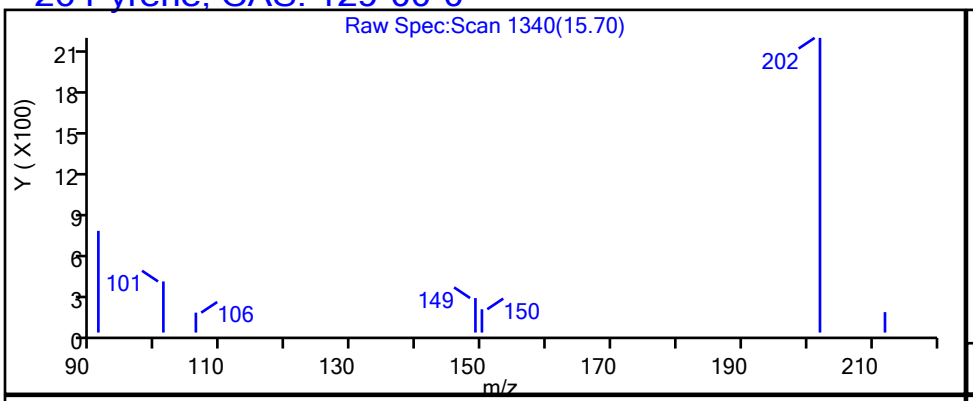
Report Date: 08-Apr-2021 19:23:38 Chrom Revision: 2.3 19-Mar-2021 08:24:58

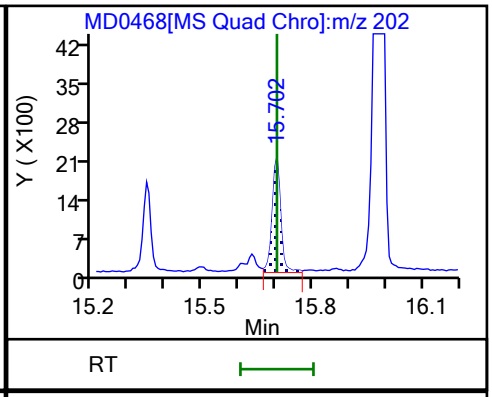
Eurofins Lancaster Laboratories Env, LLC

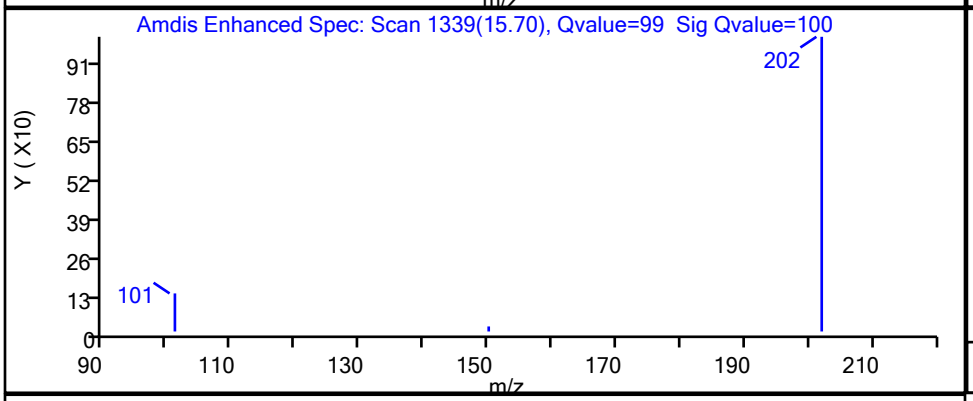
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0468.D

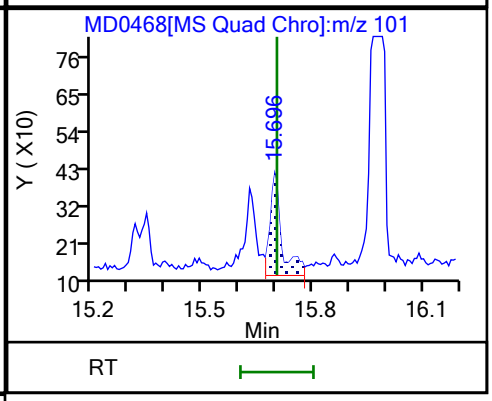
Injection Date:	08-Apr-2021 17:30:44	Instrument ID:	HP21585		
Lims ID:	410-34553-D-19-A	Lab Sample ID:	410-34553-19		
Client ID:	MW-13D-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

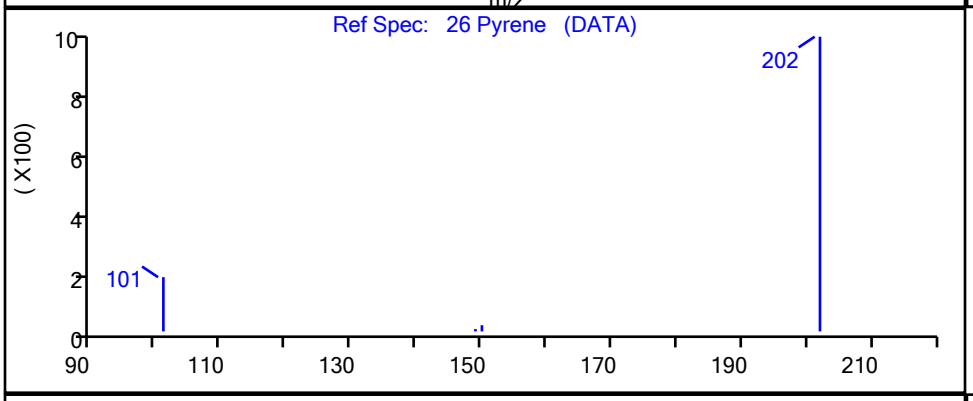
26 Pyrene, CAS: 129-00-0

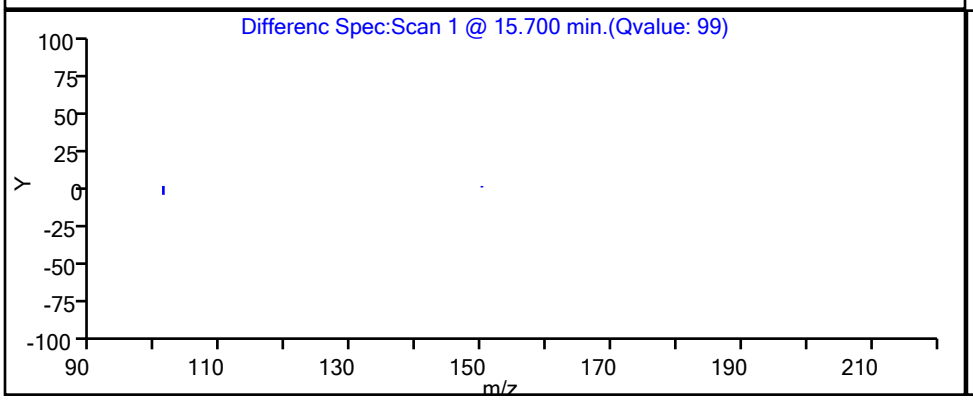


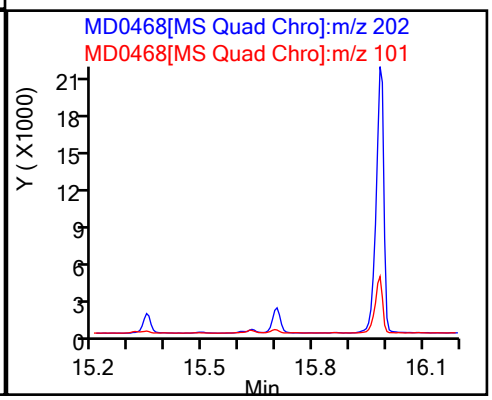












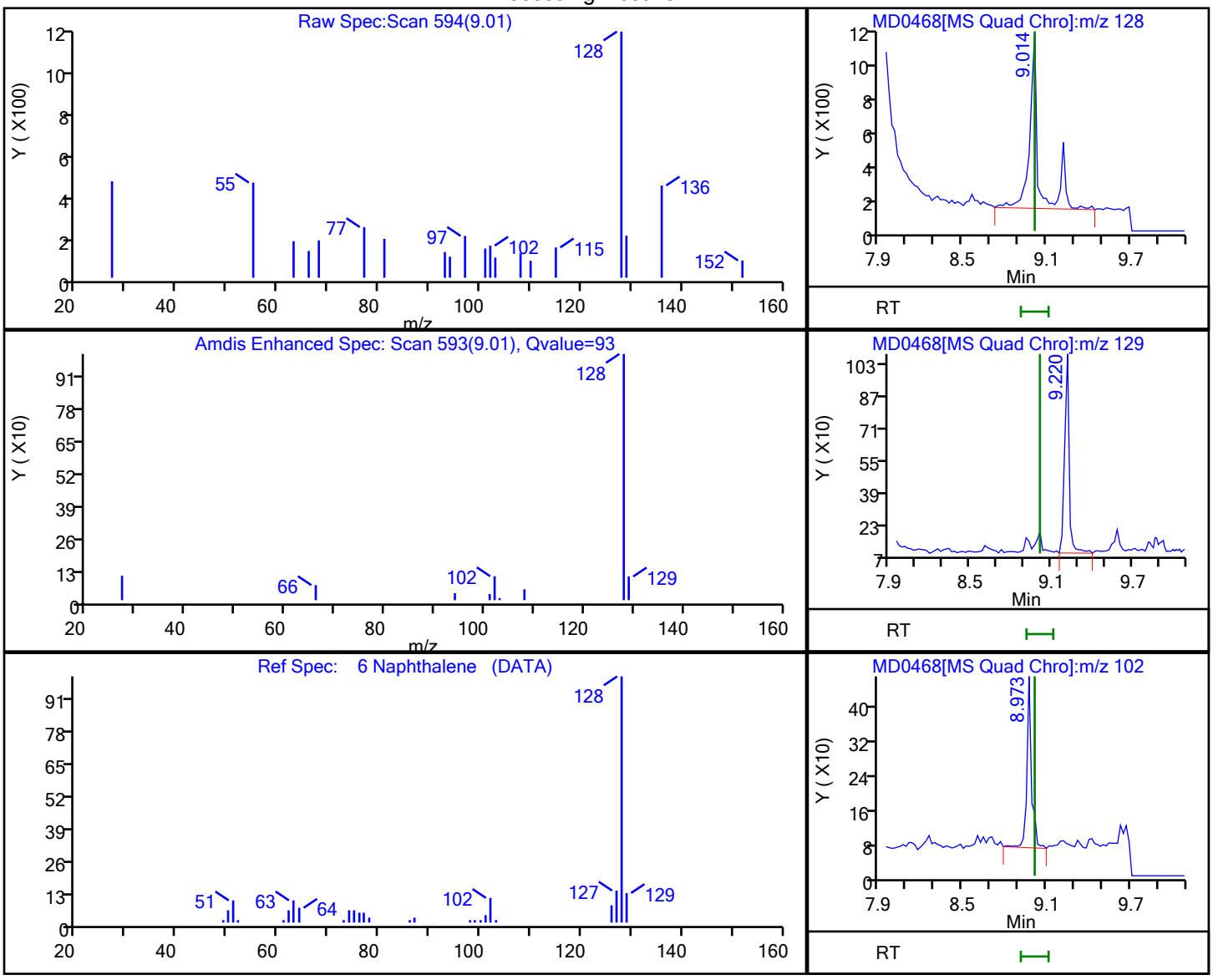
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0468.D				
Injection Date:	08-Apr-2021 17:30:44	Instrument ID:	HP21585		
Lims ID:	410-34553-D-19-A	Lab Sample ID:	410-34553-19		
Client ID:	MW-13D-20210402				
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	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
9.01	128.00	4395	0.010021
9.22	129.00	2361	
8.97	102.00	922	

Reviewer: transuea, 08-Apr-2021 18:11:25

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.: 410-34553-1

SDG No.:

Client Sample ID: DUP-20210402 Lab Sample ID: 410-34553-20

Matrix: Groundwater Lab File ID: MD0511.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 00:00

Extract. Method: 3510C Date Extracted: 04/07/2021 17:45

Sample wt/vol: 250(mL) Date Analyzed: 04/09/2021 03:23

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.: 112543 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
208-96-8	Acenaphthylene	4.2		0.050	0.010
120-12-7	Anthracene	0.95		0.050	0.010
56-55-3	Benzo[a]anthracene	0.88		0.050	0.010
50-32-8	Benzo[a]pyrene	ND		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.012	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	0.48		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	ND		0.050	0.020
86-73-7	Fluorene	5.1		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	ND		0.050	0.020
85-01-8	Phenanthrene	5.8		0.070	0.030
129-00-0	Pyrene	9.2		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	68		49-115
93951-69-0	Fluoranthene-d10 (Surr)	110		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D
Lims ID: 410-34553-D-20-A
Client ID: DUP-20210402
Sample Type: Client
Inject. Date: 09-Apr-2021 03:23:54 ALS Bottle#: 0 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-20-A
Misc. Info.: 410-0026241-012
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 06:05:13 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 09-Apr-2021 04:09:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.056	7.035	0.021	98	32549	0.2500	
* 5 Naphthalene-d8	136	8.952	8.952	0.000	91	124263	0.2500	
6 Naphthalene	128	8.993	8.993	0.000	94	11791248	23.7	E
$ 9 1-Methylnaphthalene-d10	152	10.191	10.179	0.012	97	44932	0.1697	
12 Acenaphthylene	152	11.499	11.500	0.000	100	590640	1.05	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	92	77257	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	2059576	5.70	E
17 Fluorene	166	12.407	12.407	0.000	95	547859	1.29	M
* 20 Phenanthrene-d10	188	13.601	13.593	0.008	97	101183	0.2500	
21 Phenanthrene	178	13.625	13.625	0.001	100	615013	1.46	
22 Anthracene	178	13.695	13.695	0.000	100	97518	0.2371	
$ 24 Fluoranthene-d10 (Surr)	212	15.301	15.294	0.007	98	106948	0.2742	
25 Fluoranthene	202	15.332	15.326	0.006	100	1375257	2.92	E
26 Pyrene	202	15.683	15.677	0.006	98	1926578	2.31	
28 Benzo[a]anthracene	228	17.724	17.724	0.000	100	159377	0.2200	
* 29 Chrysene-d12	240	17.747	17.739	0.008	76	145199	0.2500	
30 Chrysene	228	17.785	17.785	0.000	100	88803	0.1194	
33 Benzo[b]fluoranthene	252	19.603	19.595	0.008	100	2656	0.003100	M
34 Benzo[k]fluoranthene	252	19.649	19.641	0.008	97	976	0.001079	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.101	20.094	0.008	99	125058	0.1943	
* 38 Perylene-d12	264	20.232	20.224	0.008	99	184869	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.957	21.950	0.007	95	1098	0.001405	7M

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Reagents:

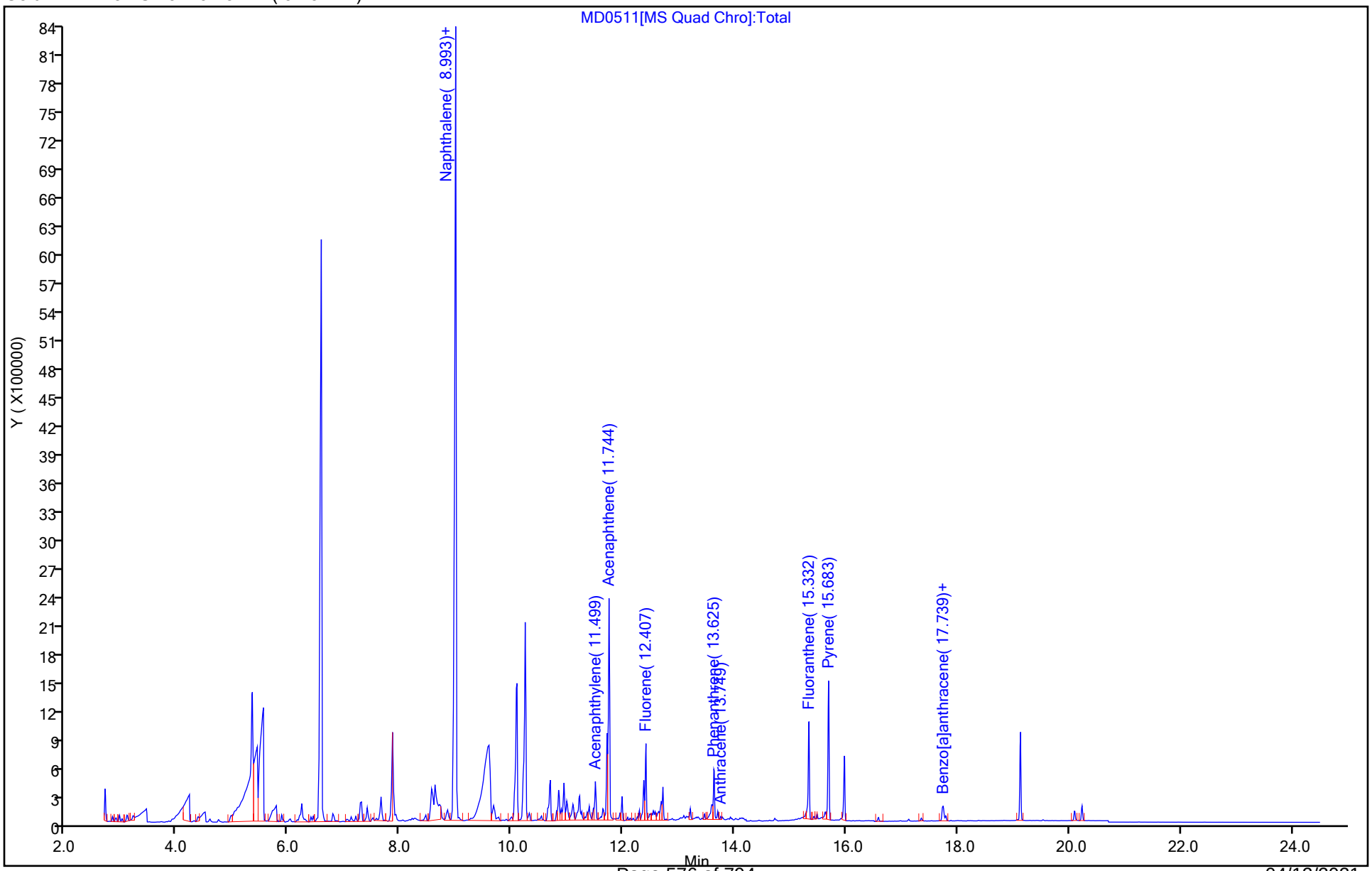
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Apr-2021 06:05:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20	Worklist Smp#:	12
Client ID:	DUP-20210402				
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)

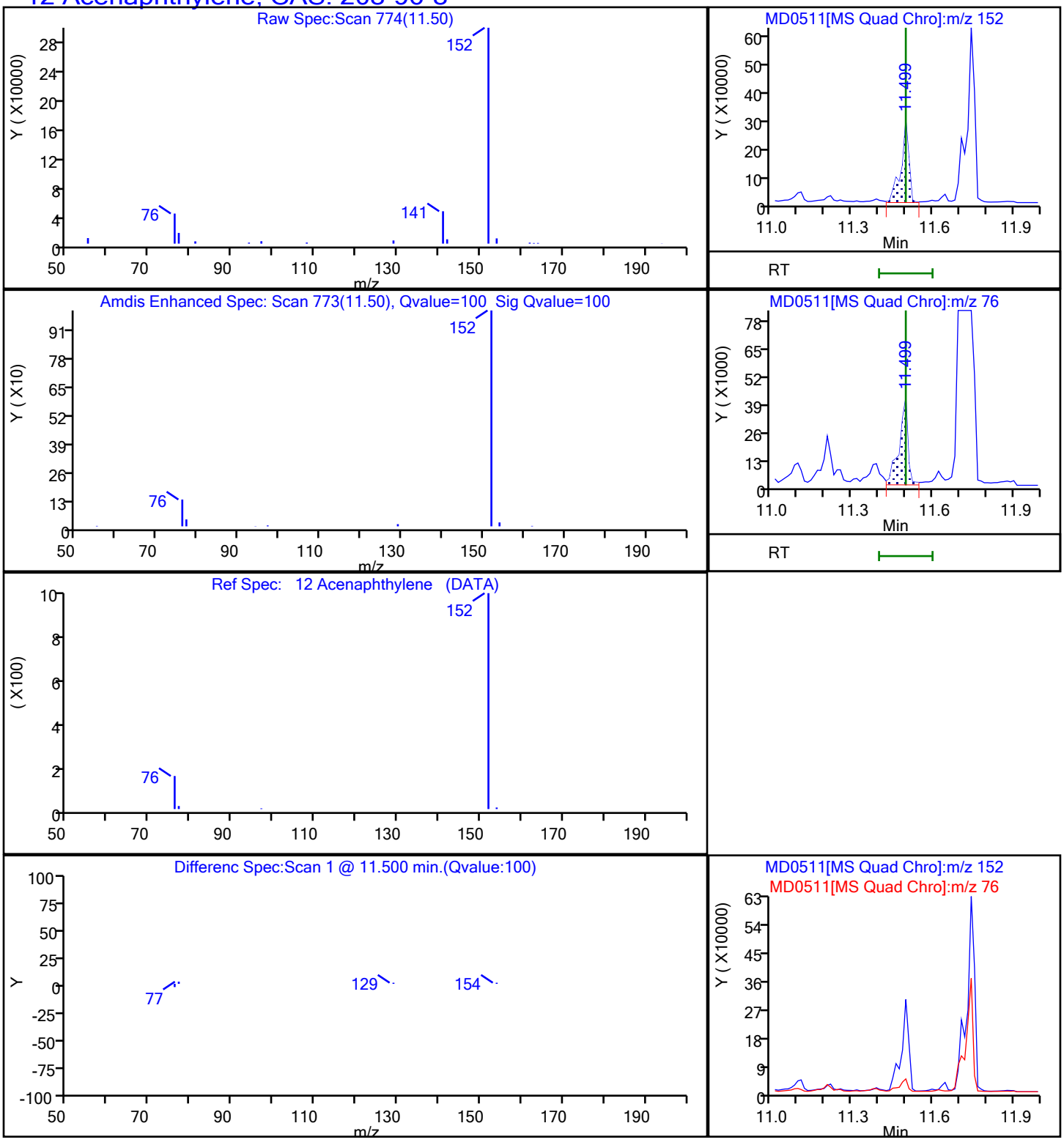


Report Date: 09-Apr-2021 06:05:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

12 Acenaphthylene, CAS: 208-96-8

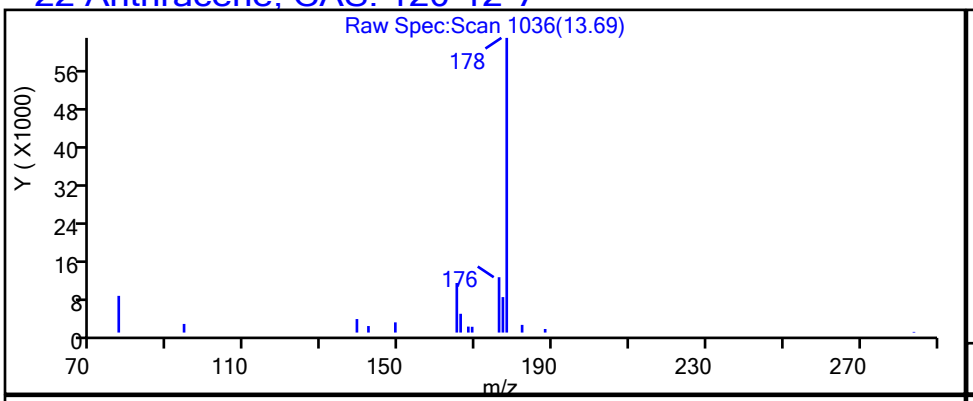


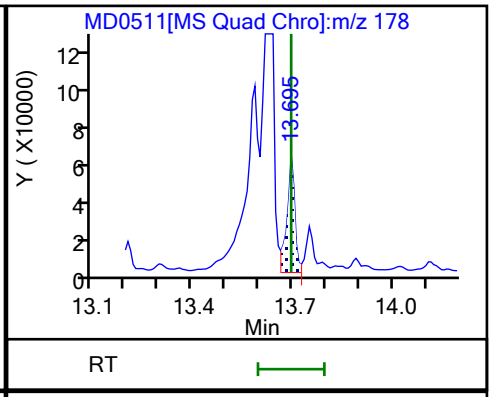
Report Date: 09-Apr-2021 06:05:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

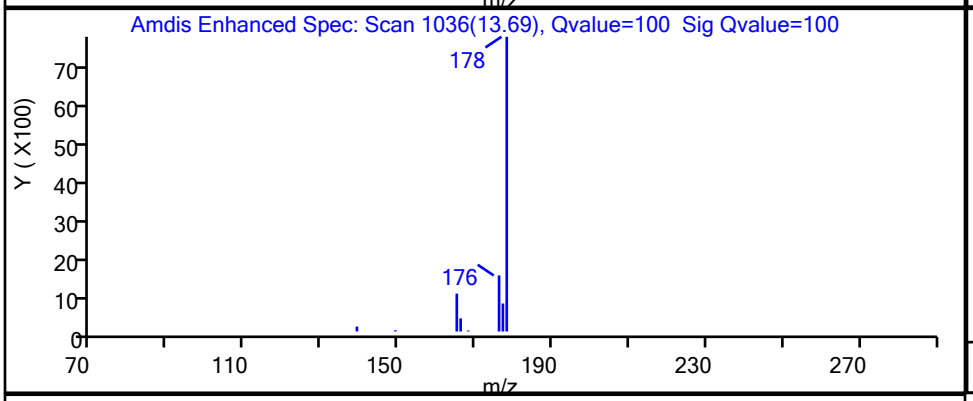
Eurofins Lancaster Laboratories Env, LLC

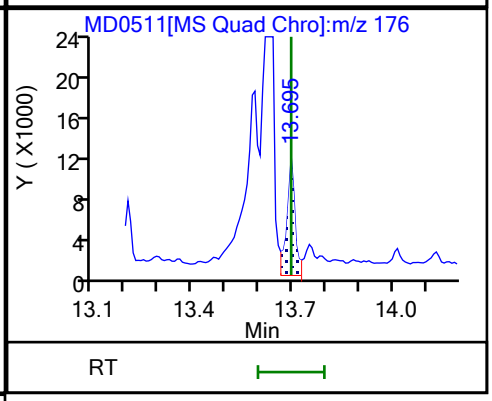
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

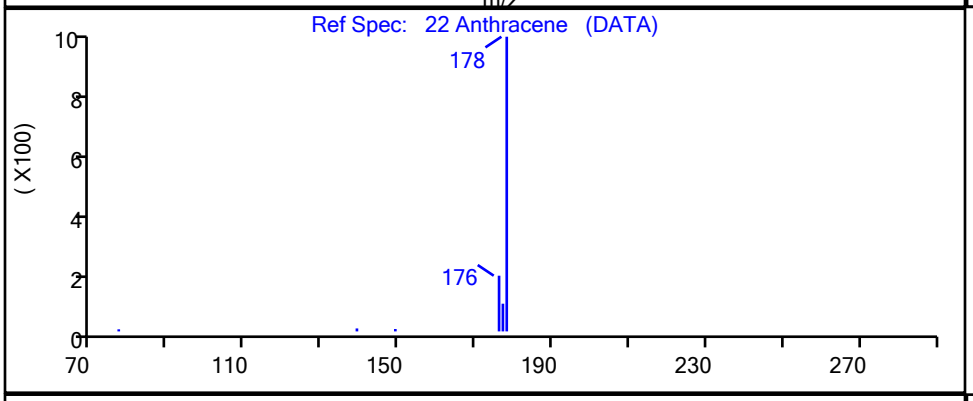
22 Anthracene, CAS: 120-12-7

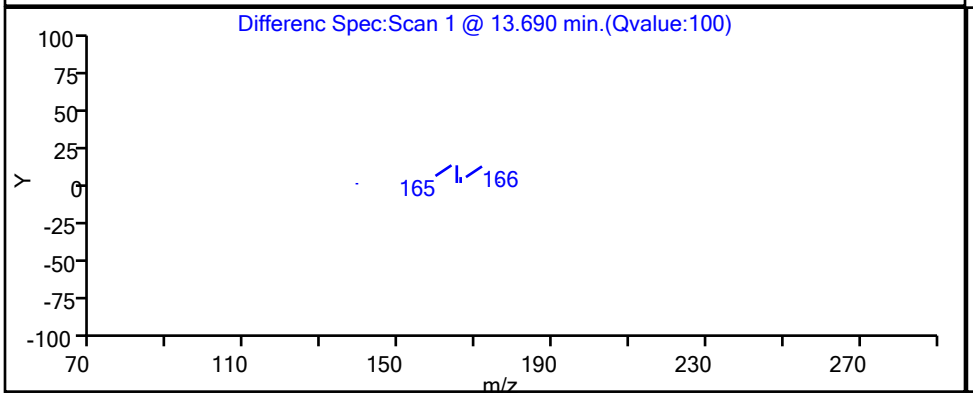


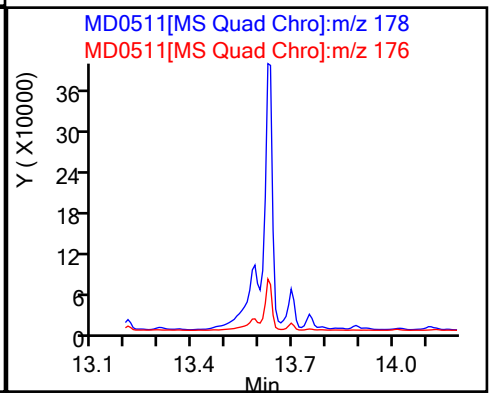










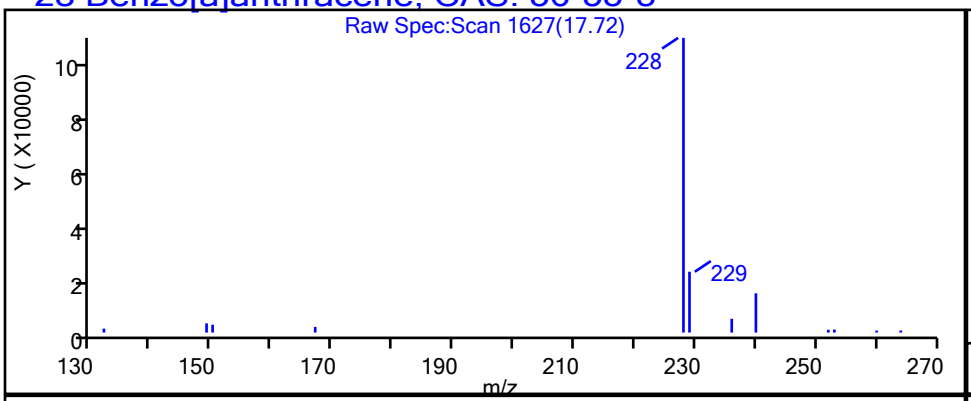


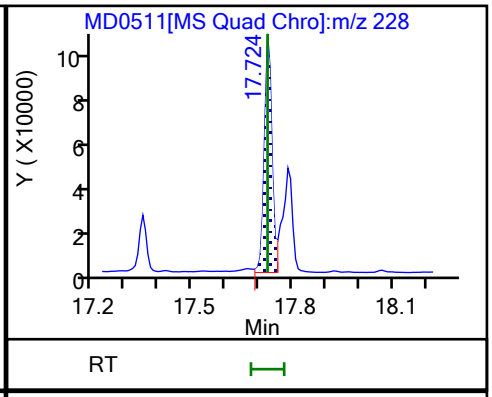
Report Date: 09-Apr-2021 06:05:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

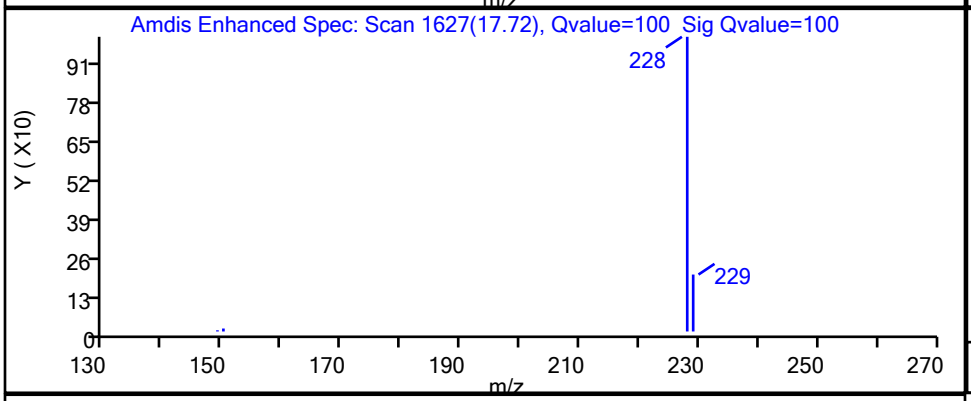
Eurofins Lancaster Laboratories Env, LLC

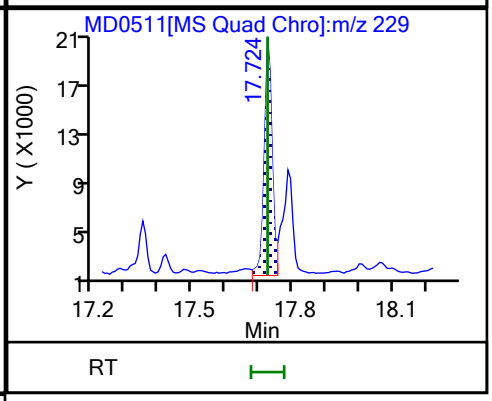
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

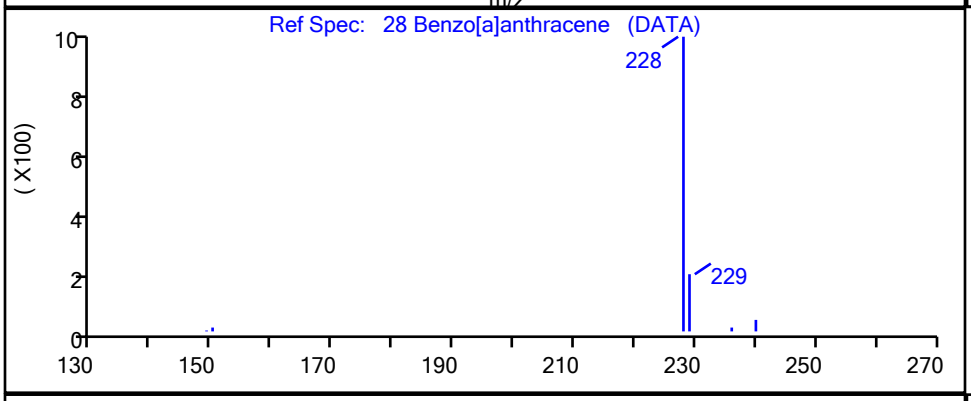
28 Benzo[a]anthracene, CAS: 56-55-3

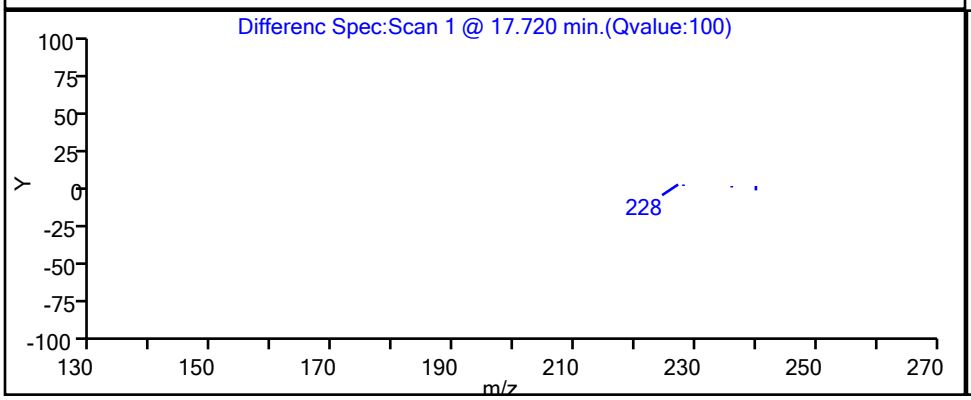


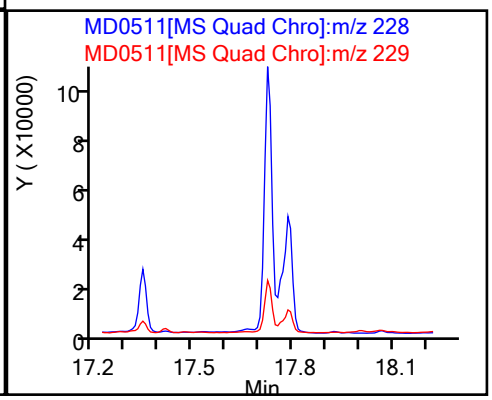










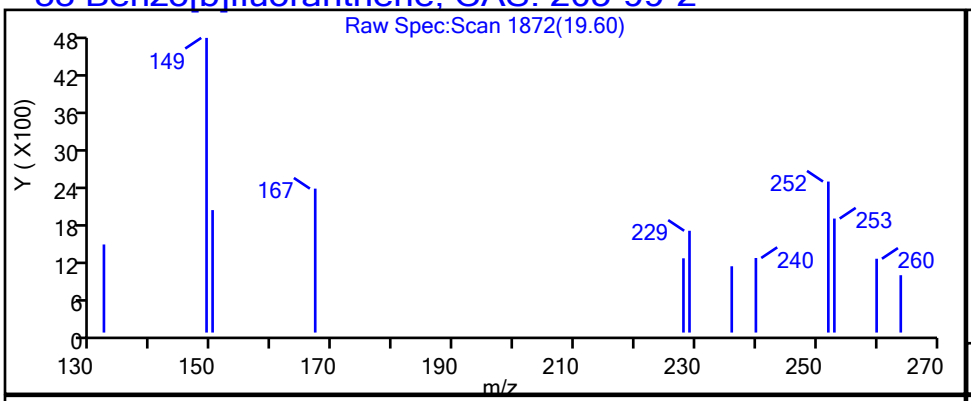


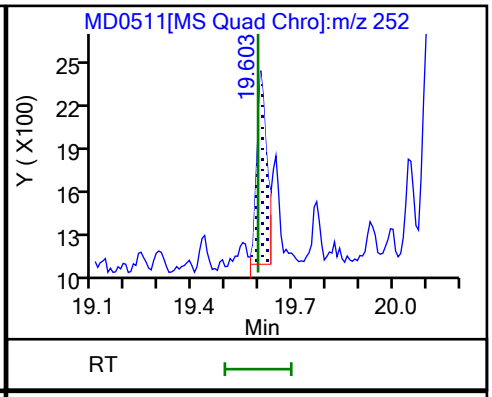
Report Date: 09-Apr-2021 06:05:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

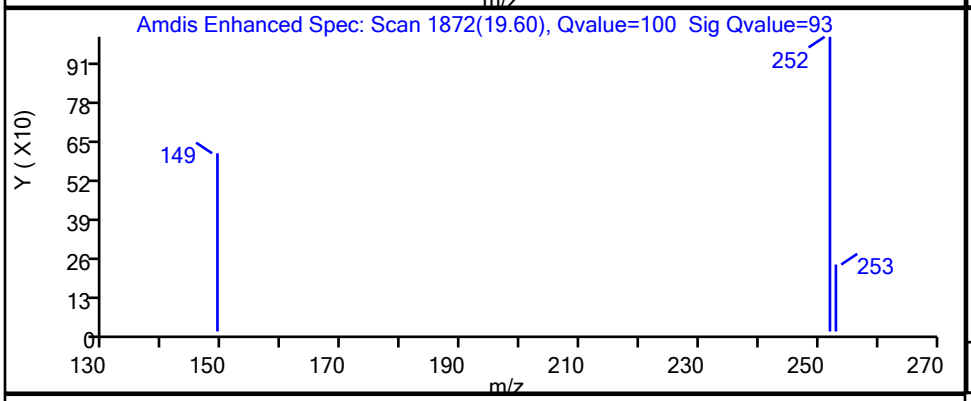
Eurofins Lancaster Laboratories Env, LLC

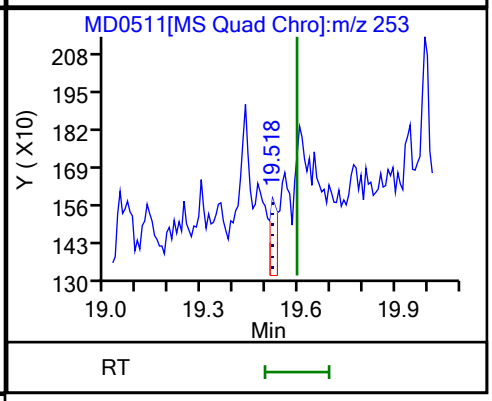
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

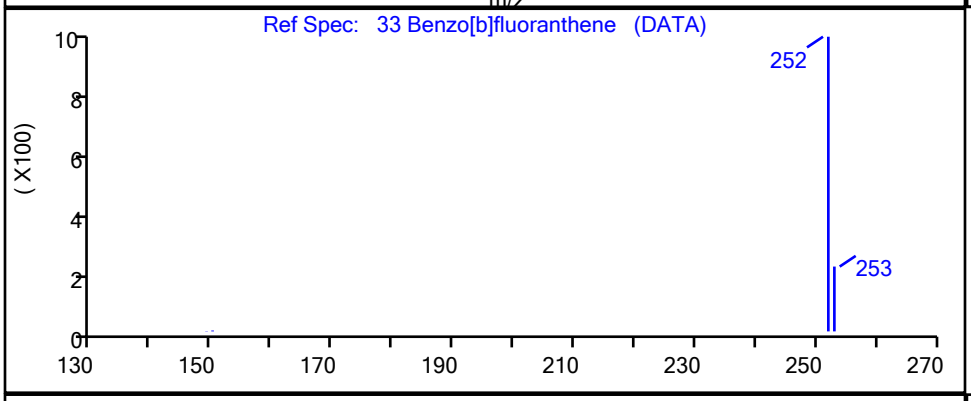
33 Benzo[b]fluoranthene, CAS: 205-99-2

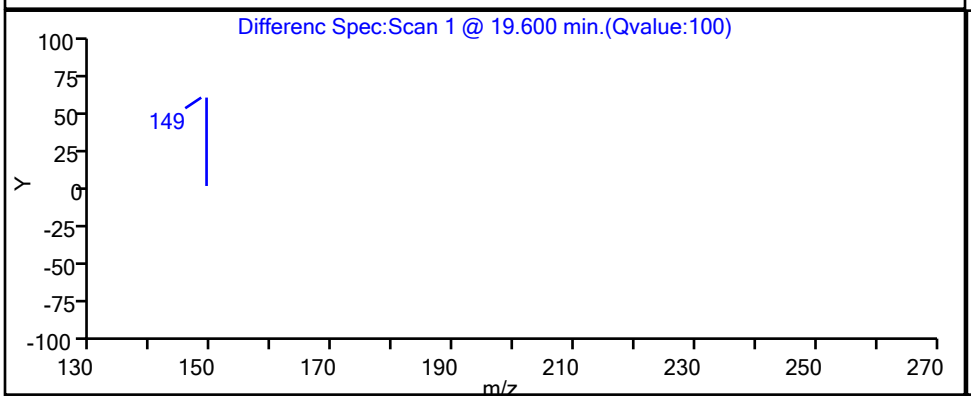


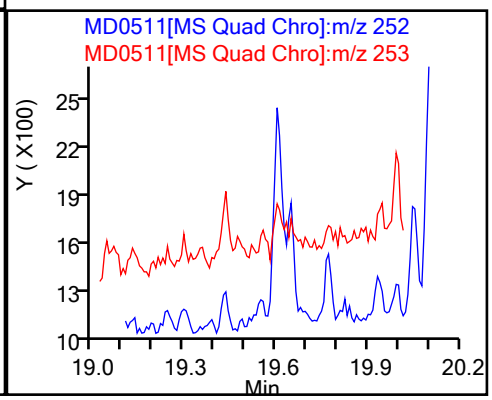










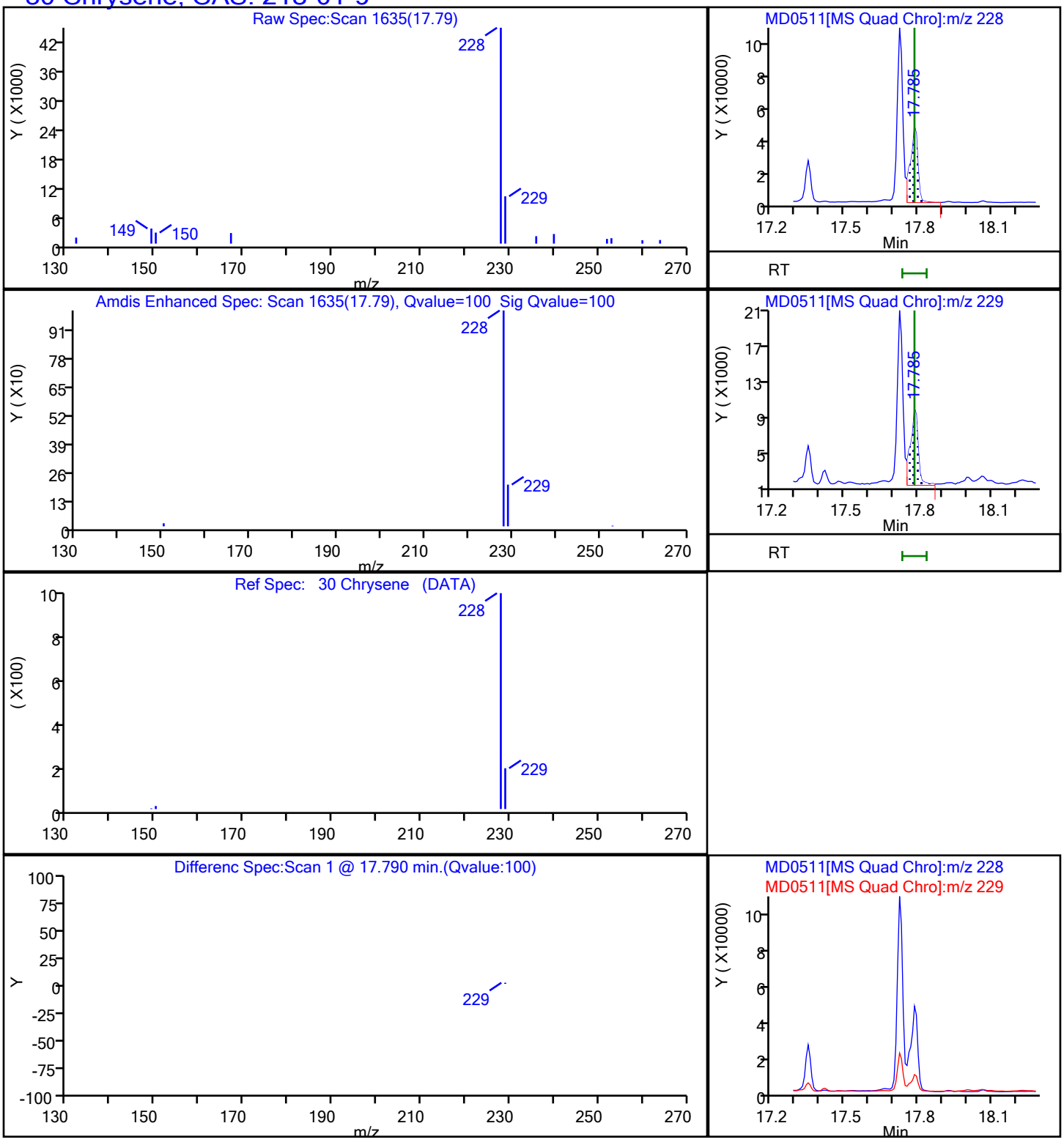


Report Date: 09-Apr-2021 06:05:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

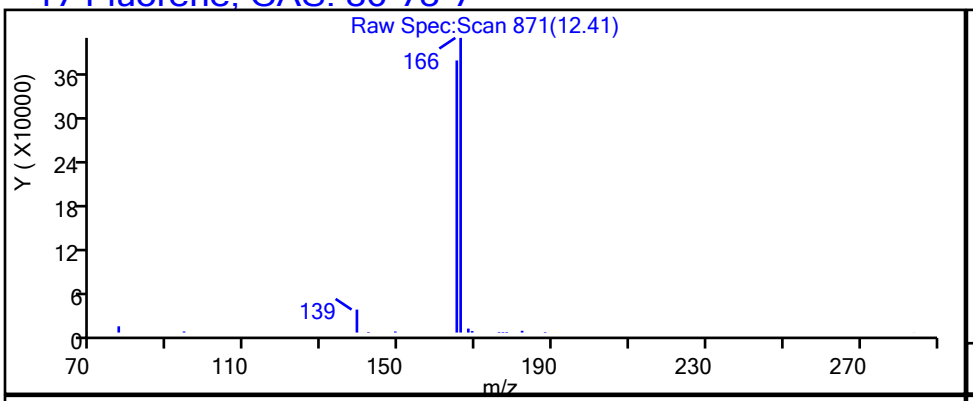
30 Chrysene, CAS: 218-01-9

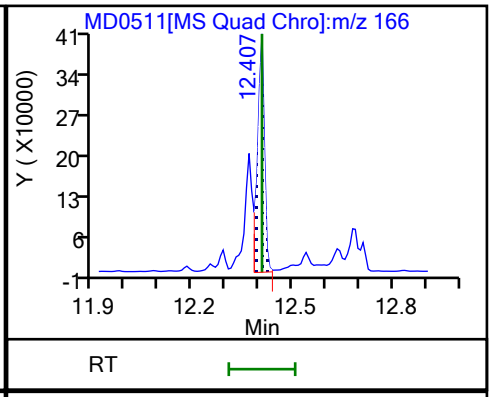


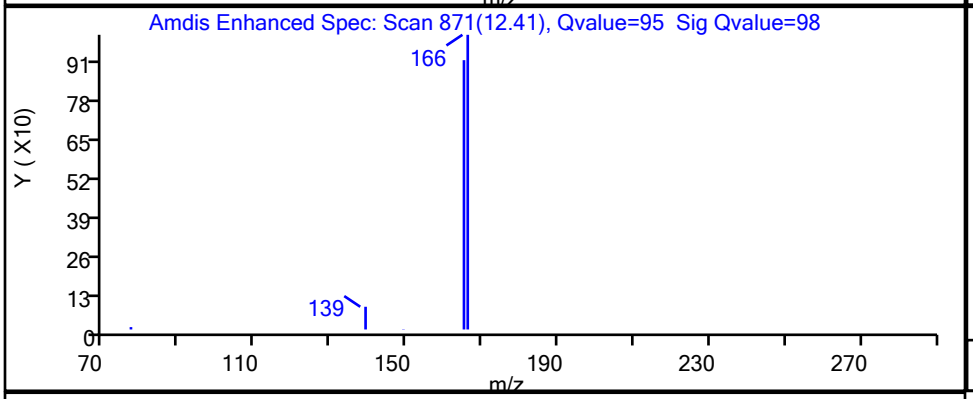
Eurofins Lancaster Laboratories Env, LLC

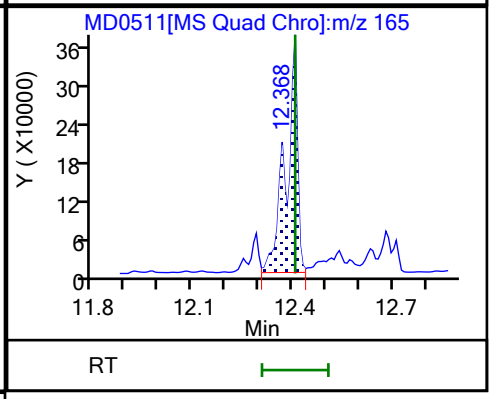
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D		
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20
Client ID:	DUP-20210402		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

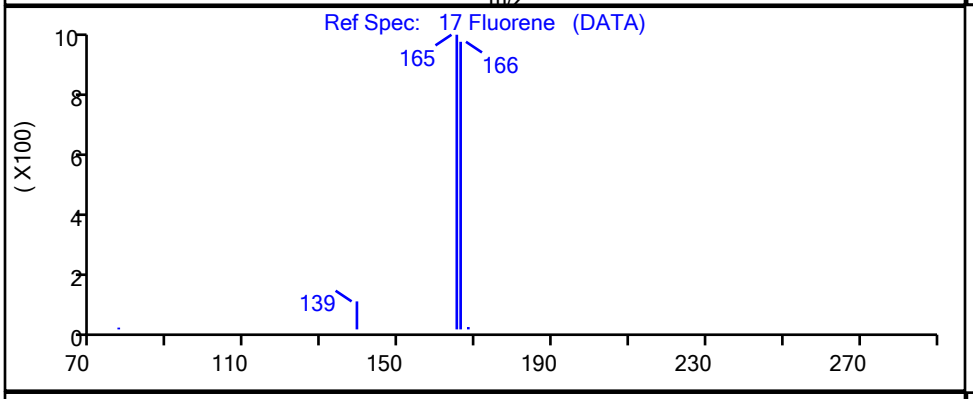
17 Fluorene, CAS: 86-73-7

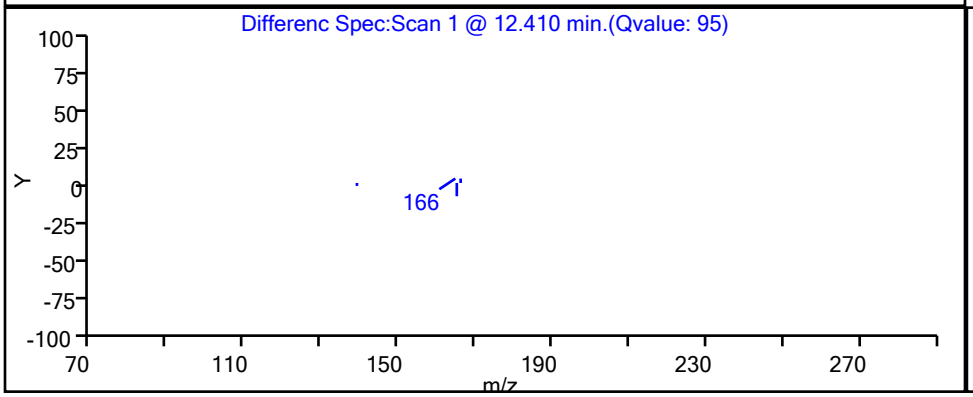


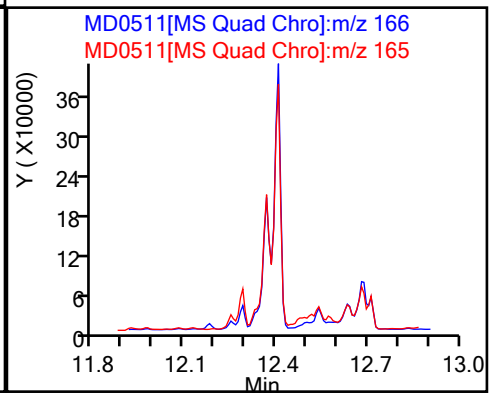












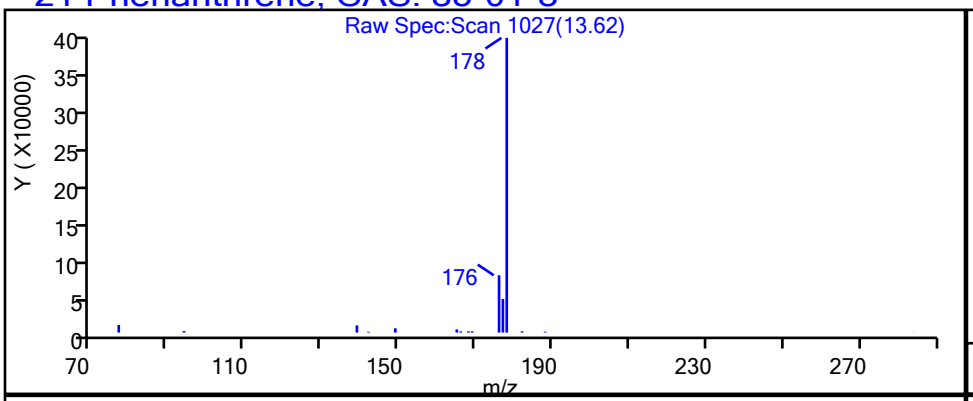
Report Date: 09-Apr-2021 06:05:45 Chrom Revision: 2.3 08-Apr-2021 17:17:48

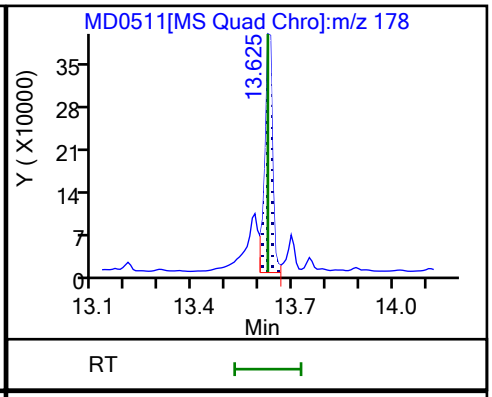
Eurofins Lancaster Laboratories Env, LLC

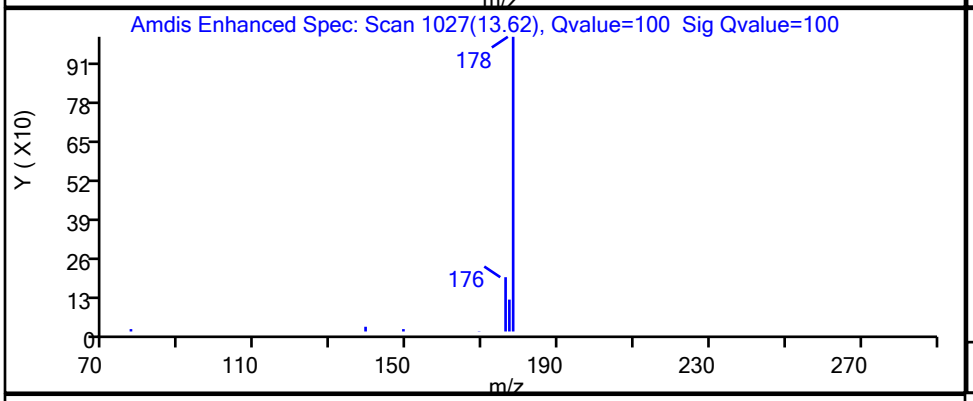
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D

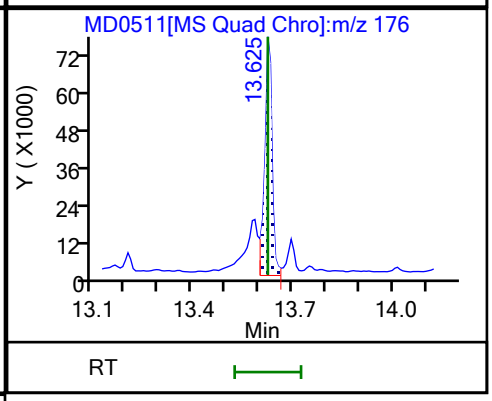
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

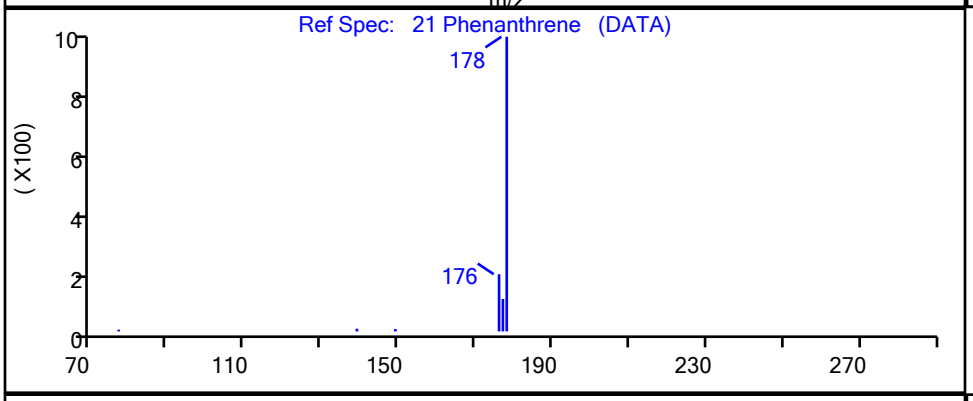
21 Phenanthrene, CAS: 85-01-8

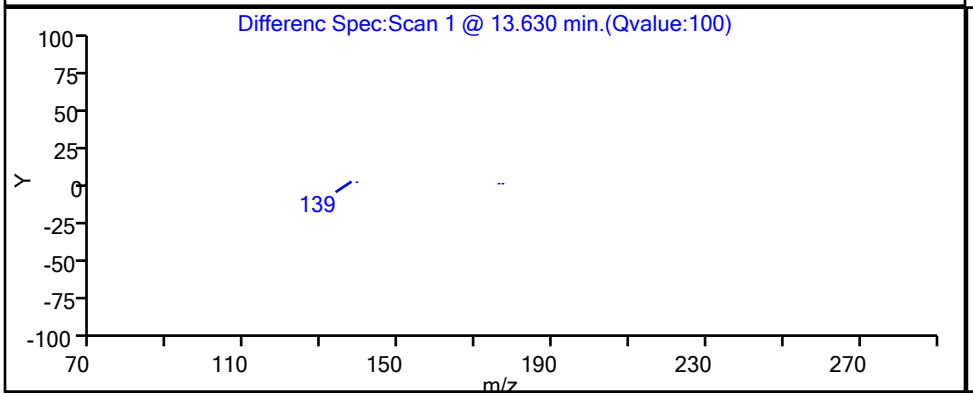


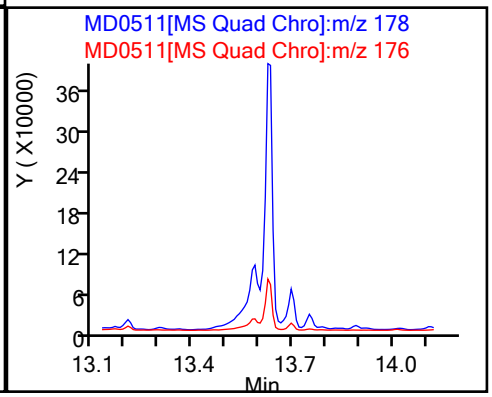








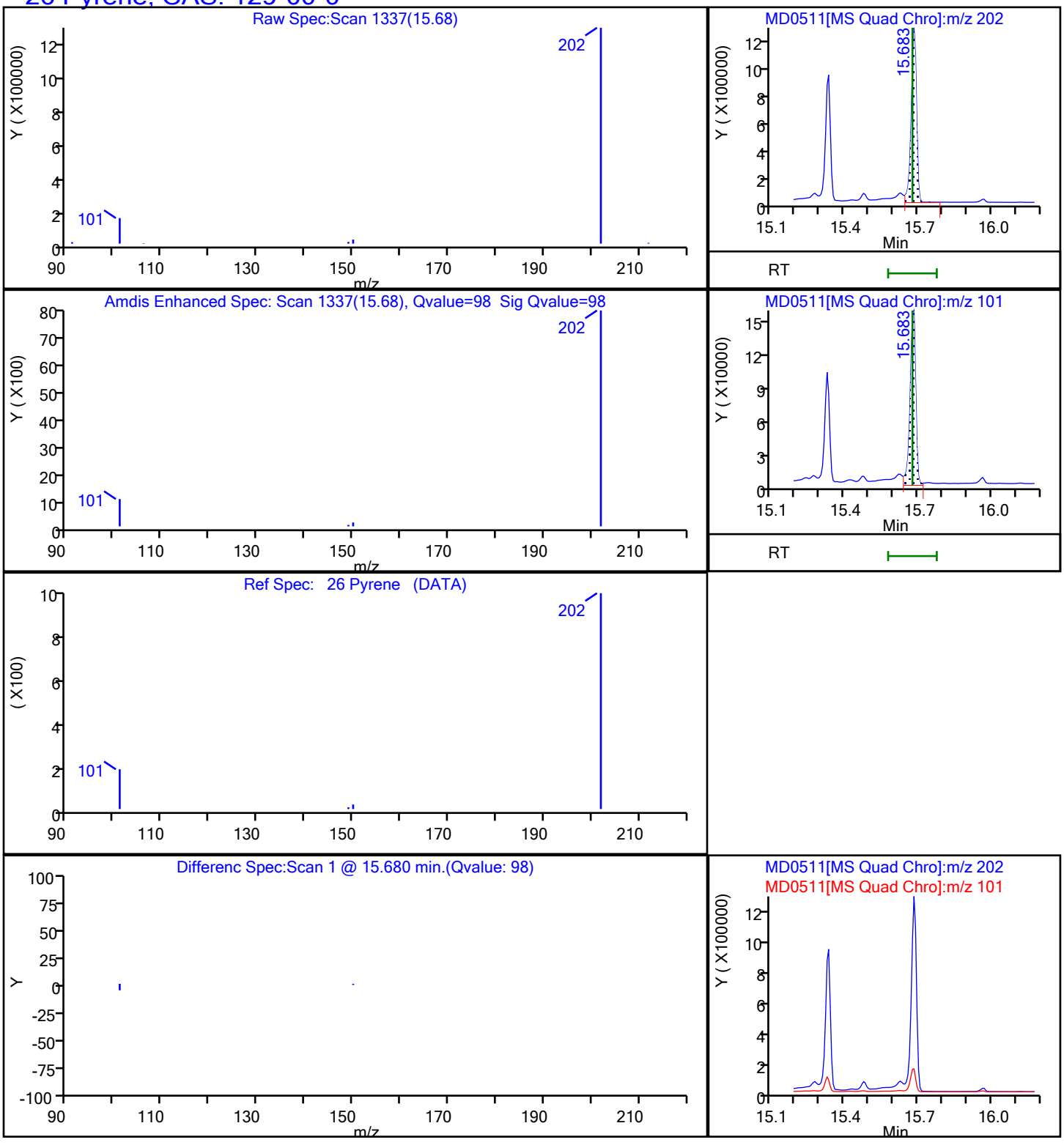




Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D		
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20
Client ID:	DUP-20210402		
Operator ID:	art12405	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN

26 Pyrene, CAS: 129-00-0



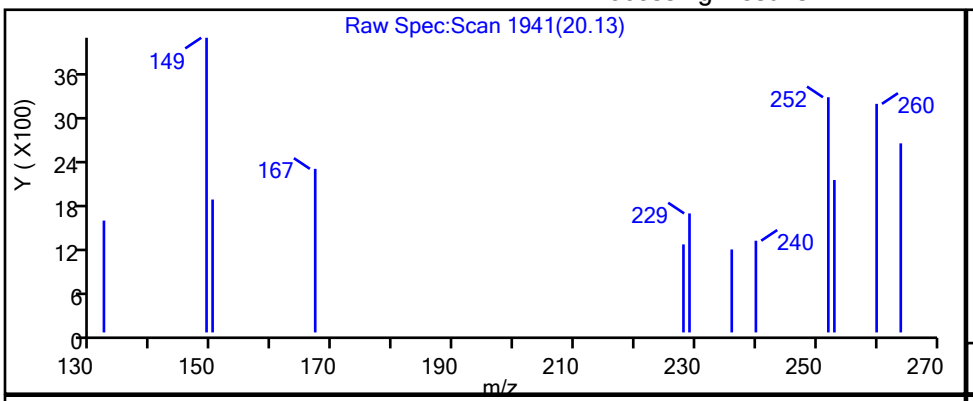
User Disabled Compound Report

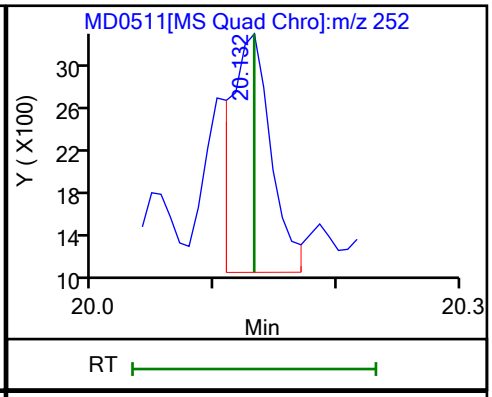
Eurofins Lancaster Laboratories Env, LLC

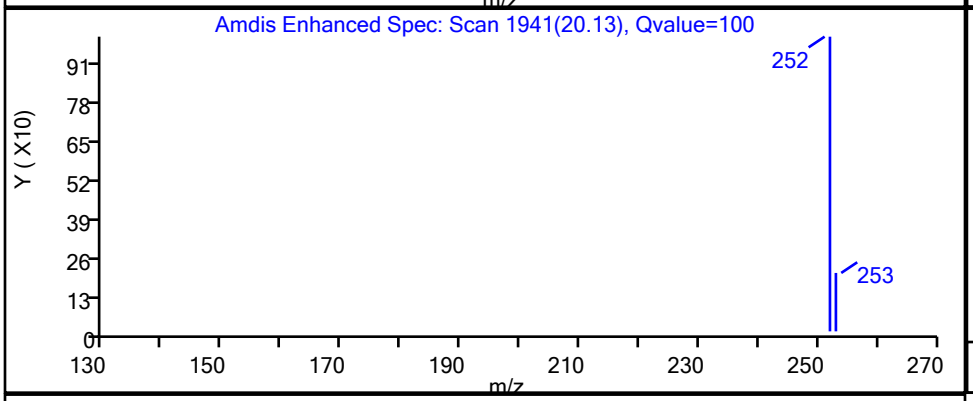
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

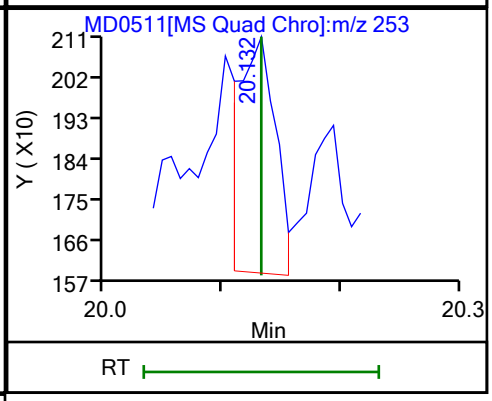
37 Benzo[a]pyrene, CAS: 50-32-8

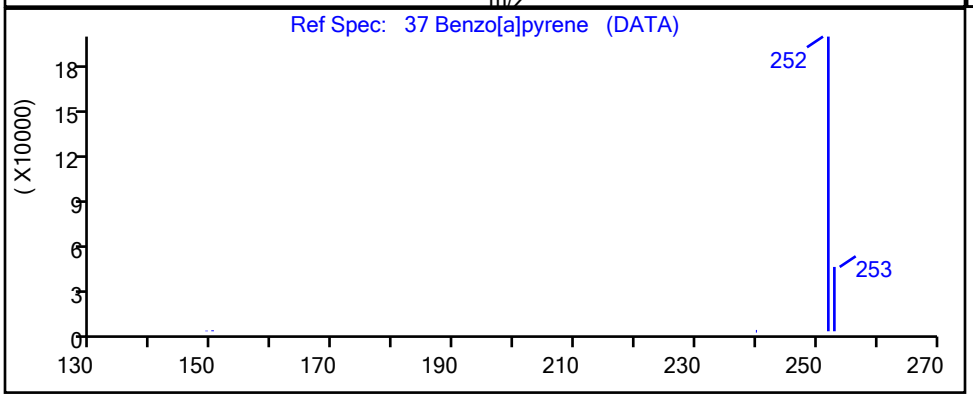
Processing Results











RT	Mass	Response	Amount
20.13	252.00	4675	0.005710
20.13	253.00	1081	

Reviewer: gamblerj, 09-Apr-2021 04:09:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

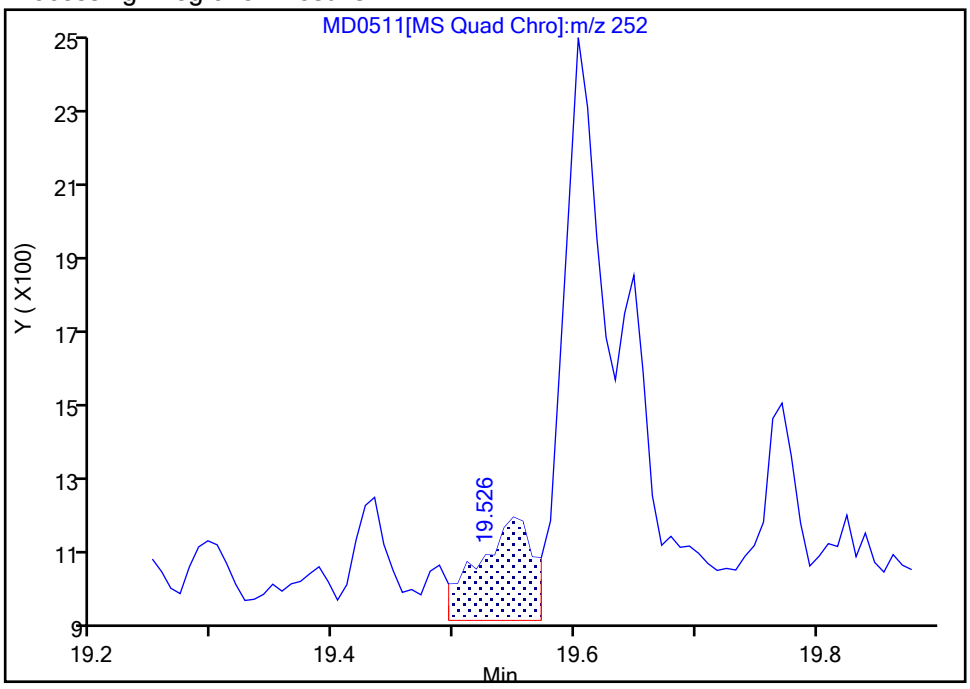
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	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

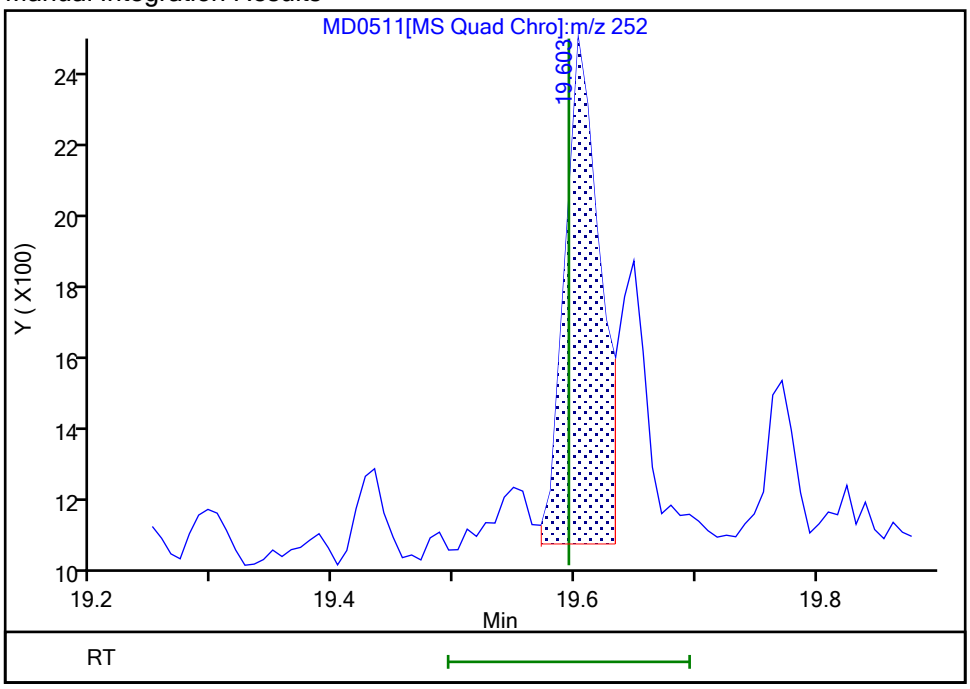
Processing Integration Results

RT: 19.53
Area: 774
Amount: 0.000904
Amount Units: ug/ml



Manual Integration Results

RT: 19.60
Area: 2656
Amount: 0.003100
Amount Units: ug/ml



Reviewer: gamblerj, 09-Apr-2021 04:09:10

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

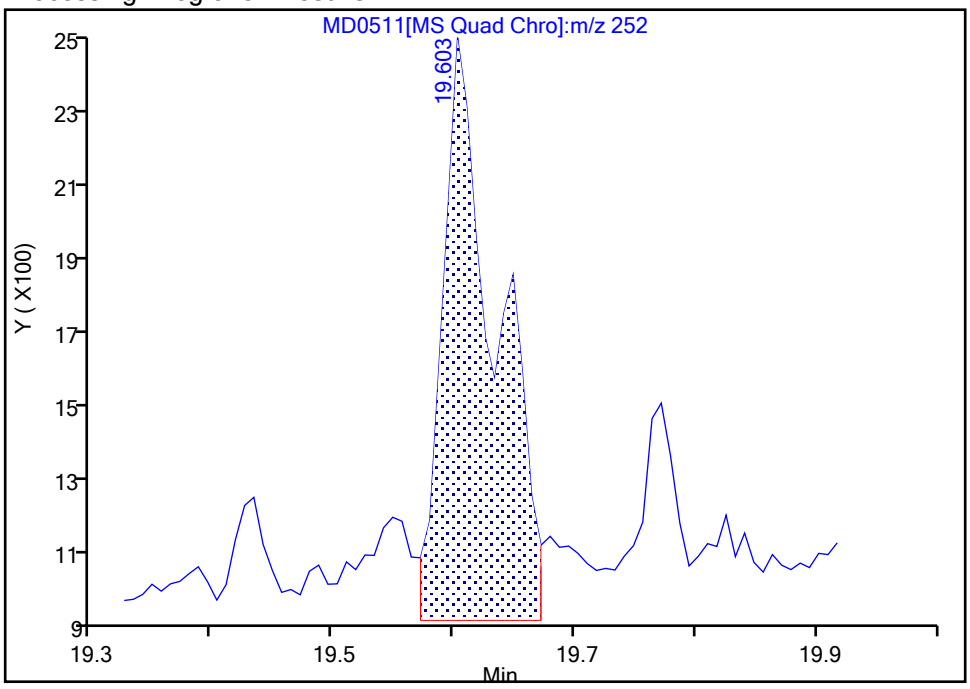
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	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

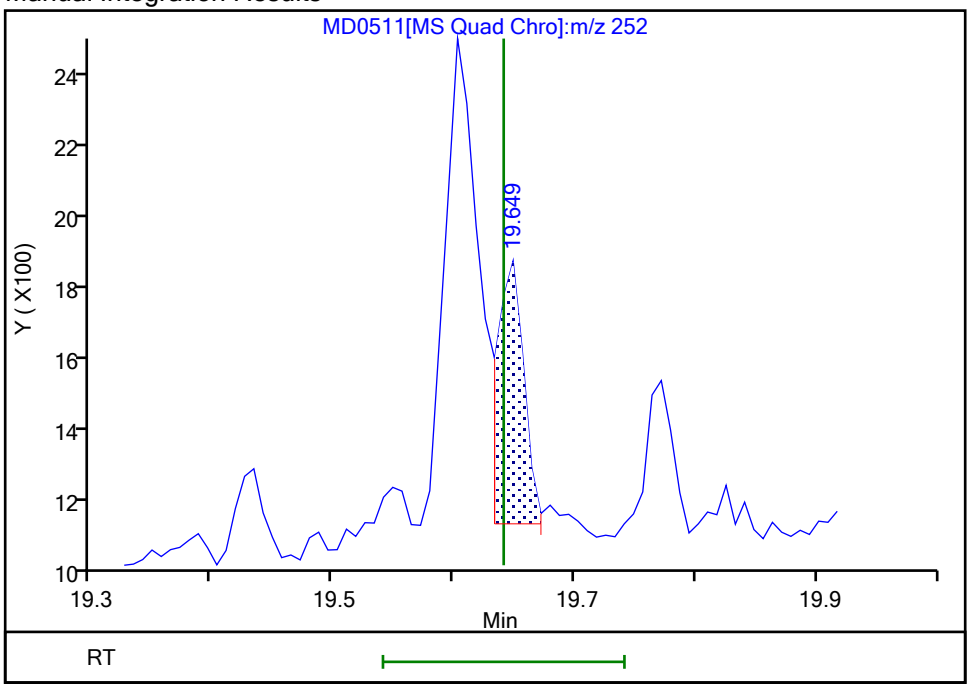
Processing Integration Results

RT: 19.60
Area: 4383
Amount: 0.004844
Amount Units: ug/ml



Manual Integration Results

RT: 19.65
Area: 976
Amount: 0.001079
Amount Units: ug/ml



Reviewer: gamblerj, 09-Apr-2021 04:09:27

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

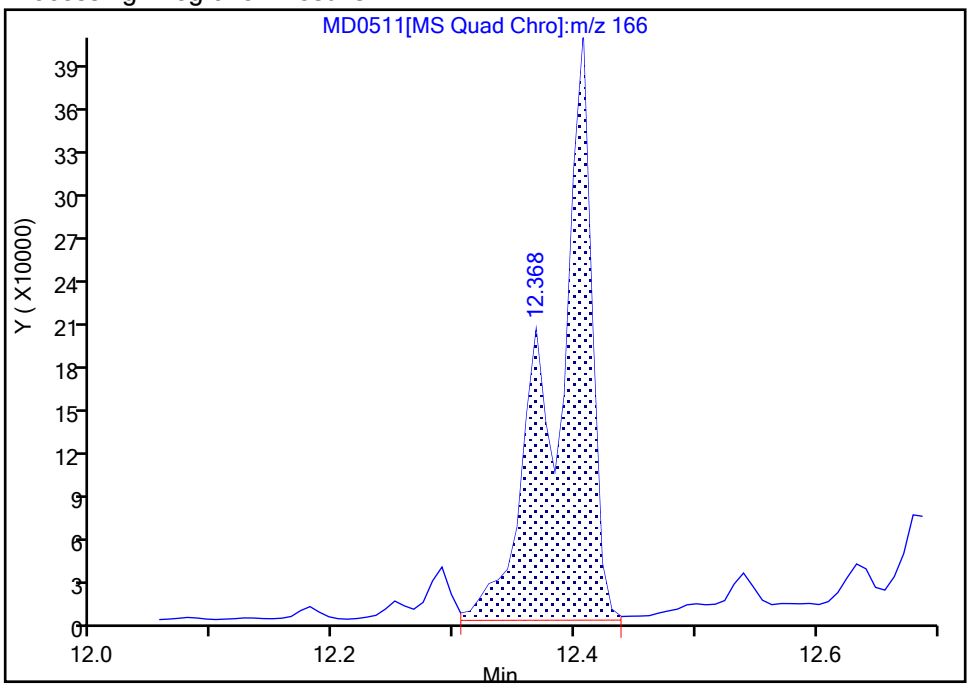
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	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

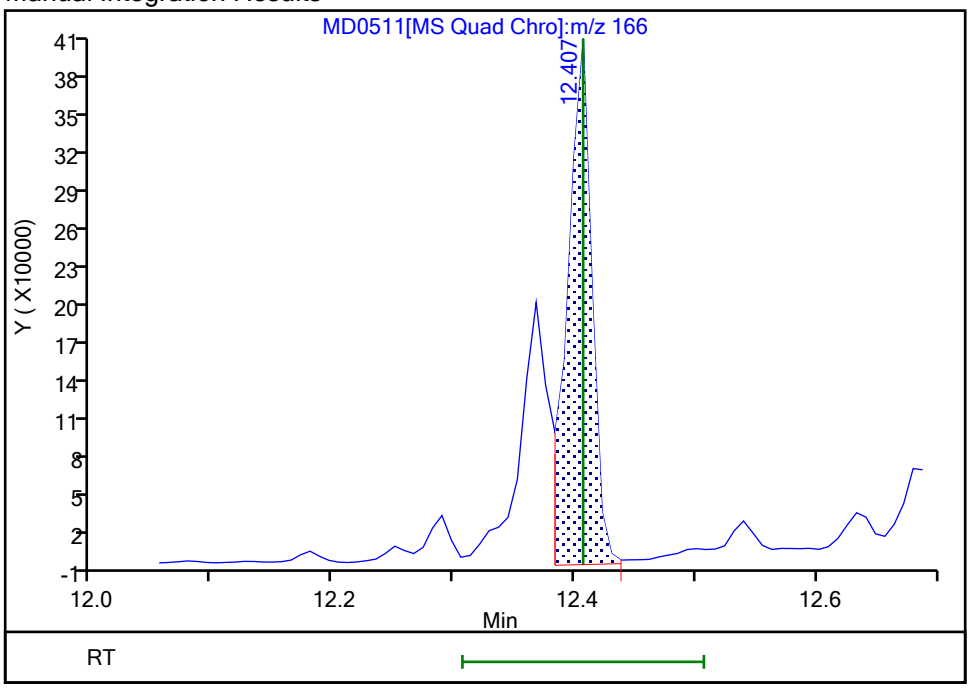
Processing Integration Results

RT: 12.37
Area: 874433
Amount: 2.053885
Amount Units: ug/ml



Manual Integration Results

RT: 12.41
Area: 547859
Amount: 1.286821
Amount Units: ug/ml



Reviewer: gamblerj, 09-Apr-2021 04:08:43

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

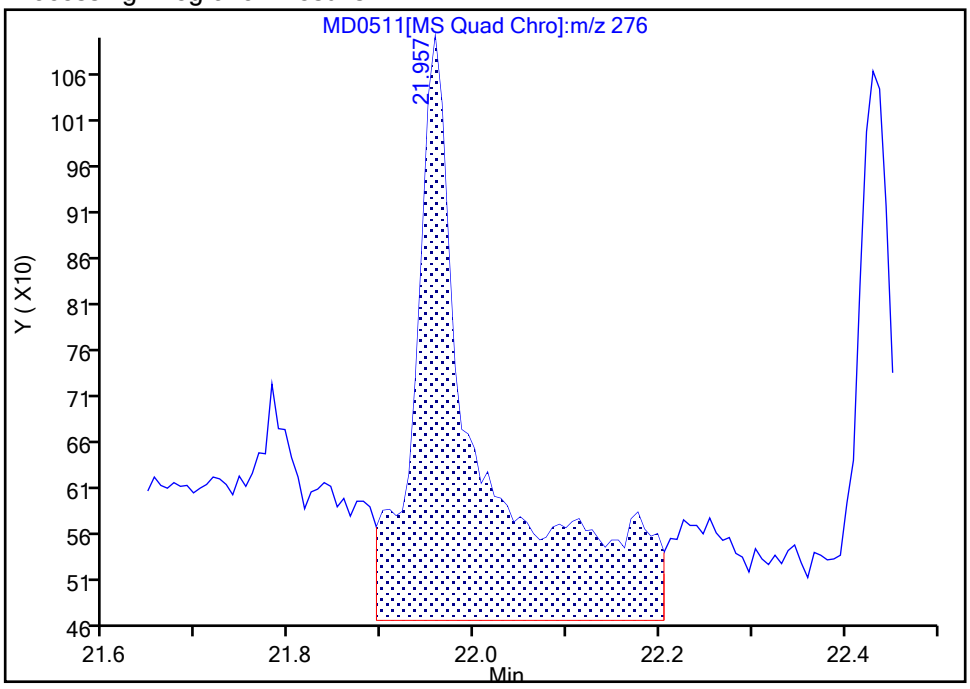
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0511.D				
Injection Date:	09-Apr-2021 03:23:54	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	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

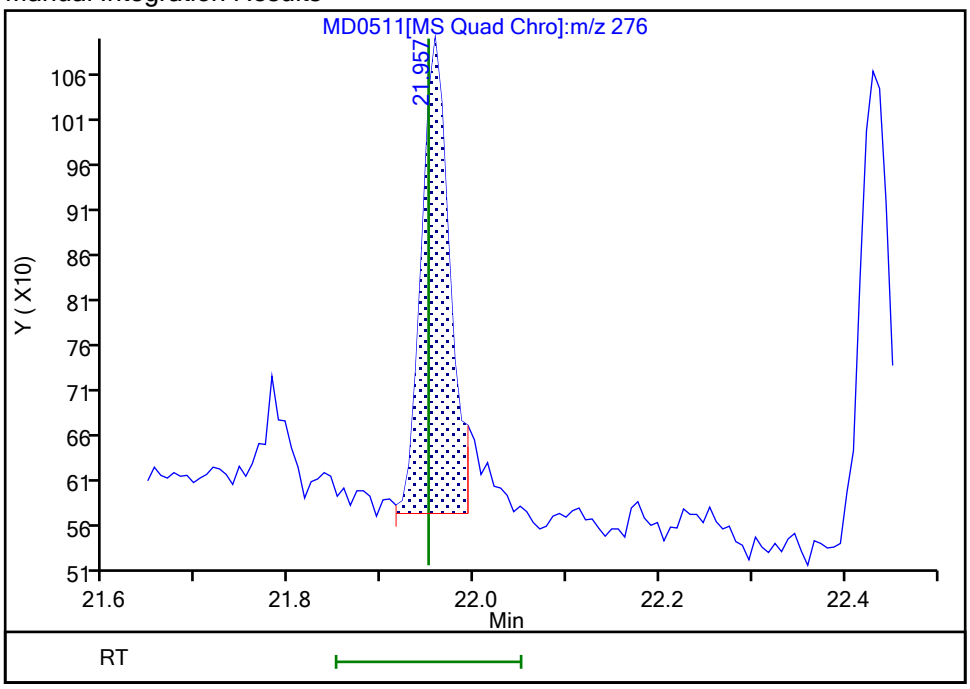
Processing Integration Results

RT: 21.96
Area: 3093
Amount: 0.003959
Amount Units: ug/ml



Manual Integration Results

RT: 21.96
Area: 1098
Amount: 0.001405
Amount Units: ug/ml



Reviewer: gamblerj, 09-Apr-2021 04:09:50

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.: 410-34553-1

SDG No.:

Client Sample ID: DUP-20210402 DL Lab Sample ID: 410-34553-20 DL

Matrix: Groundwater Lab File ID: MD0512.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 00:00

Extract. Method: 3510C Date Extracted: 04/07/2021 17:45

Sample wt/vol: 250(mL) Date Analyzed: 04/09/2021 04:10

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.: 112543 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	27		0.50	0.10
206-44-0	Fluoranthene	8.7		0.50	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	100		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	94		49-115
93951-69-0	Fluoranthene-d10 (Surr)	88		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0512.D
Lims ID: 410-34553-D-20-A DL
Client ID: DUP-20210402
Sample Type: Client
Inject. Date: 09-Apr-2021 04:10:18 ALS Bottle#: 0 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 410-34553-D-20-A
Misc. Info.: 410-0026241-013
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 06:05:13 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 09-Apr-2021 04:43:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	99	32903	0.2500	M
* 5 Naphthalene-d8	136	8.952	8.952	0.000	91	122409	0.2500	
6 Naphthalene	128	8.993	8.993	0.000	93	1307573	2.67	E
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	99	6139	0.0235	
12 Acenaphthylene	152	11.500	11.500	0.001	100	57933	0.0978	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	94	81637	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	260950	0.6829	
17 Fluorene	166	12.407	12.407	0.000	97	91532	0.2035	
* 20 Phenanthrene-d10	188	13.601	13.593	0.008	97	150096	0.2500	
21 Phenanthrene	178	13.625	13.625	0.001	100	93332	0.1491	
22 Anthracene	178	13.695	13.695	0.000	100	15195	0.0249	
$ 24 Fluoranthene-d10 (Surr)	212	15.301	15.294	0.007	97	12664	0.0219	
25 Fluoranthene	202	15.326	15.326	0.000	100	151658	0.2173	
26 Pyrene	202	15.683	15.677	0.006	99	215819	0.2905	
28 Benzo[a]anthracene	228	17.724	17.724	0.000	100	19274	0.0299	
* 29 Chrysene-d12	240	17.739	17.739	0.000	57	129399	0.2500	
30 Chrysene	228	17.785	17.785	0.000	100	15042	0.0227	
33 Benzo[b]fluoranthene	252	19.603	19.595	0.008	100	1325	0.001473	7M
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.094	20.094	0.001	98	16885	0.0250	
37 Benzo[a]pyrene	252	20.132	20.132	0.000	99	1997	0.002323	7M
* 38 Perylene-d12	264	20.224	20.224	0.000	99	194157	0.2500	

QC Flag Legend

Processing Flags
E - Exceeded Maximum Amount
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

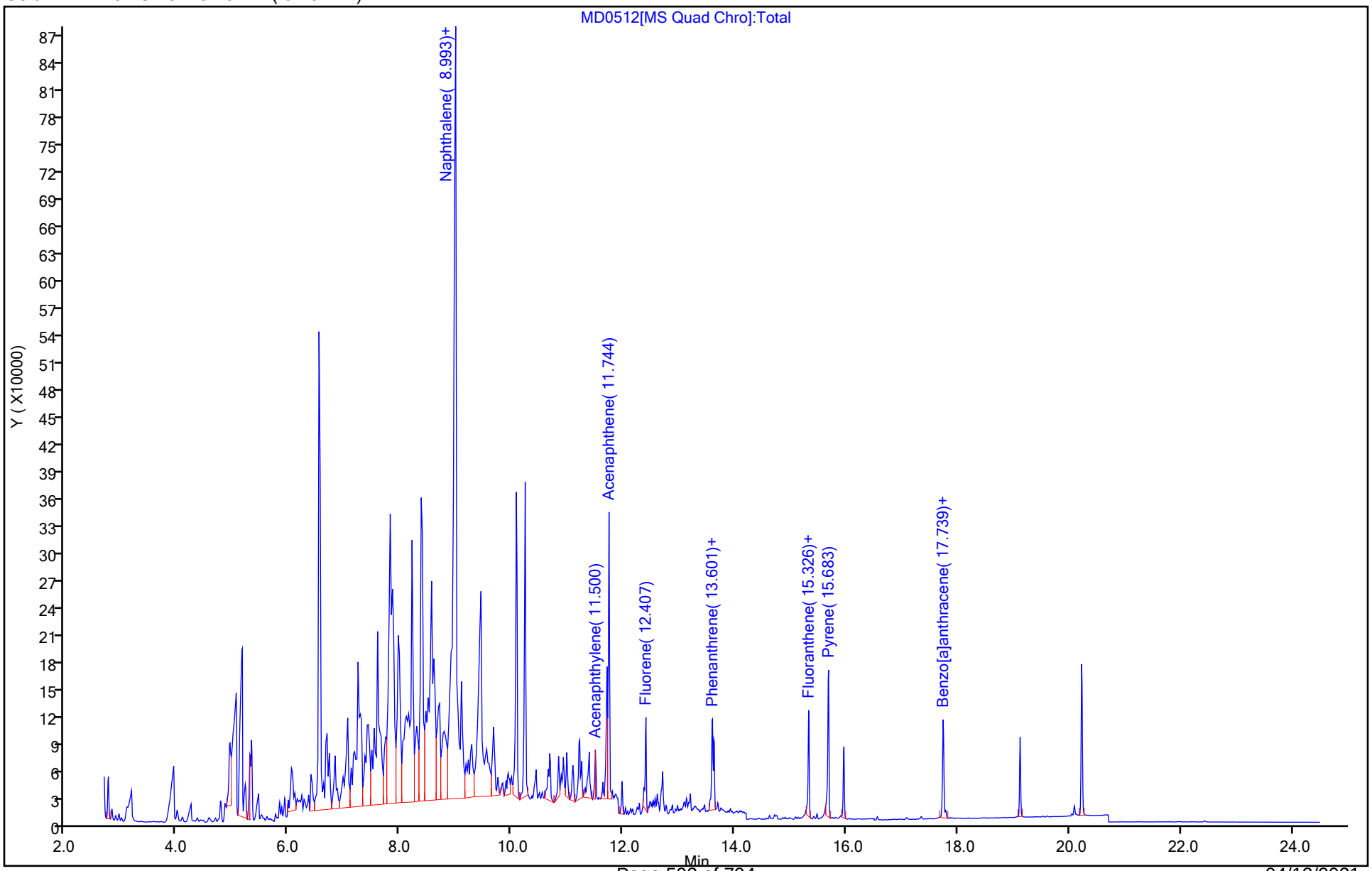
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Apr-2021 06:05:46 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0512.D				
Injection Date:	09-Apr-2021 04:10:18	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-20-A DL	Lab Sample ID:	410-34553-20	Worklist Smp#:	13
Client ID:	DUP-20210402				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



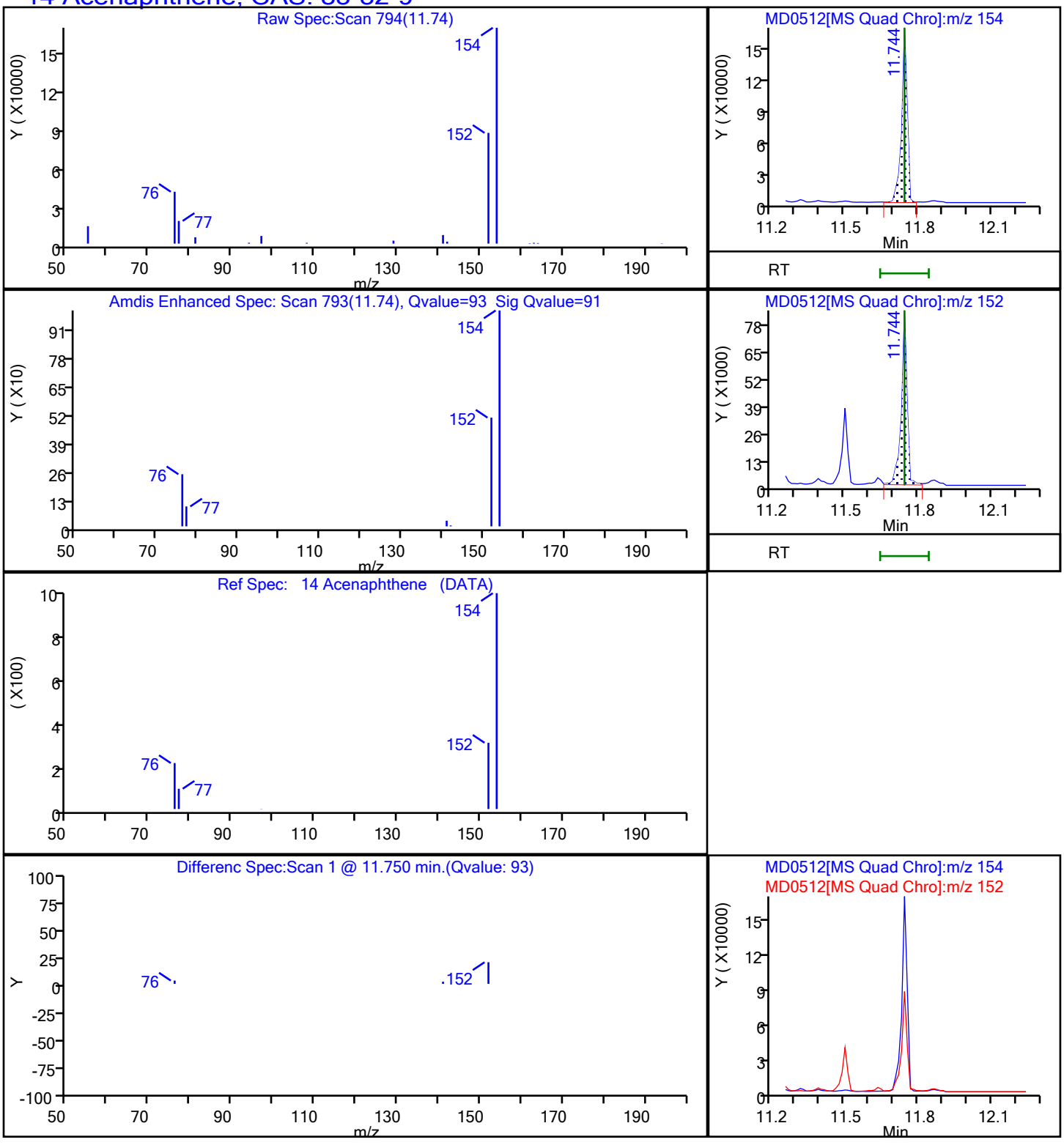
Report Date: 09-Apr-2021 06:05:46 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0512.D

Injection Date:	09-Apr-2021 04:10:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A DL	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
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

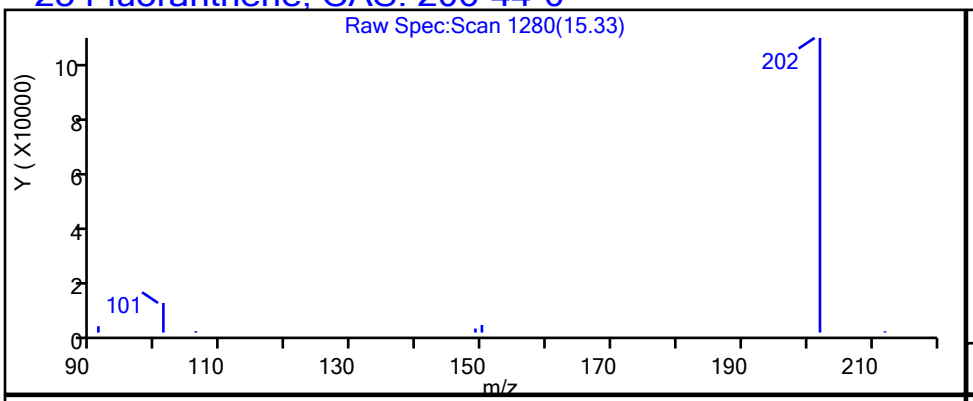


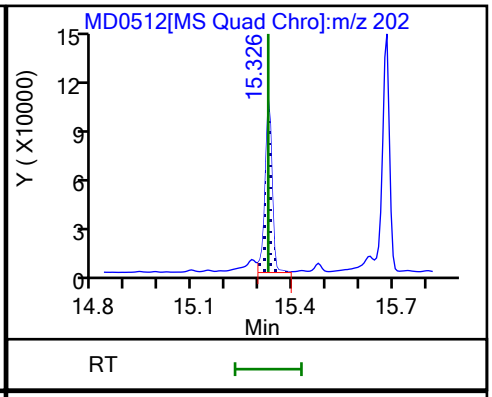
Report Date: 09-Apr-2021 06:05:47 Chrom Revision: 2.3 08-Apr-2021 17:17:48

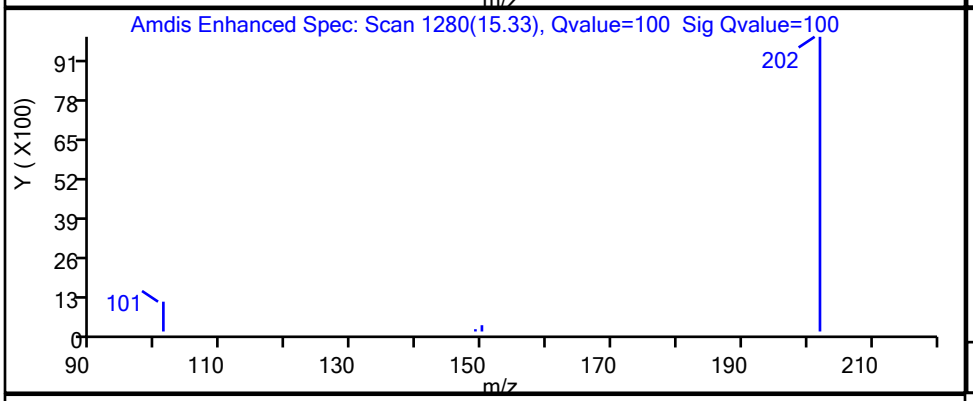
Eurofins Lancaster Laboratories Env, LLC

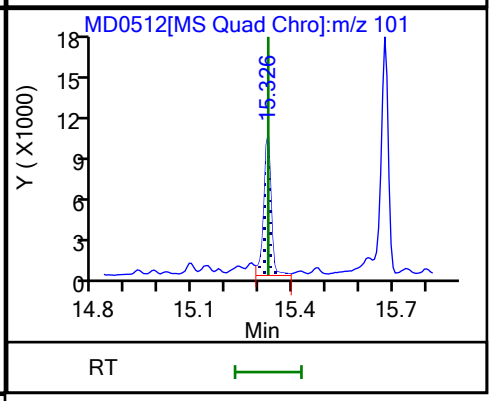
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0512.D				
Injection Date:	09-Apr-2021 04:10:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A DL	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

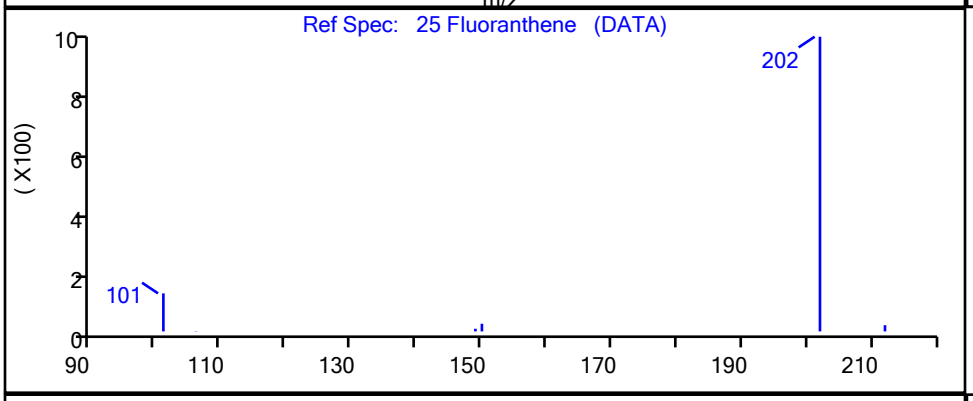
25 Fluoranthene, CAS: 206-44-0

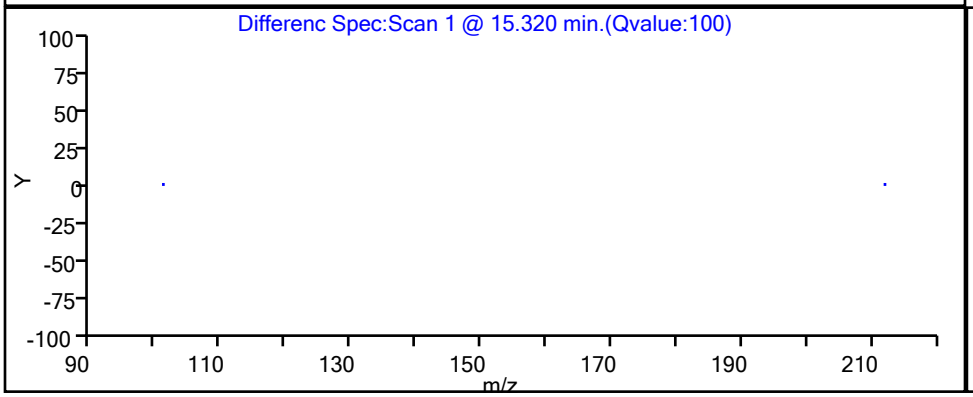


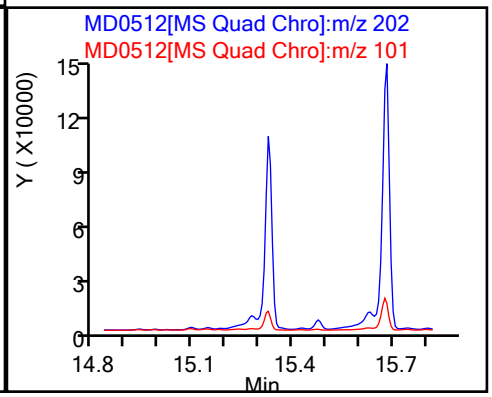












Eurofins Lancaster Laboratories Env, LLC

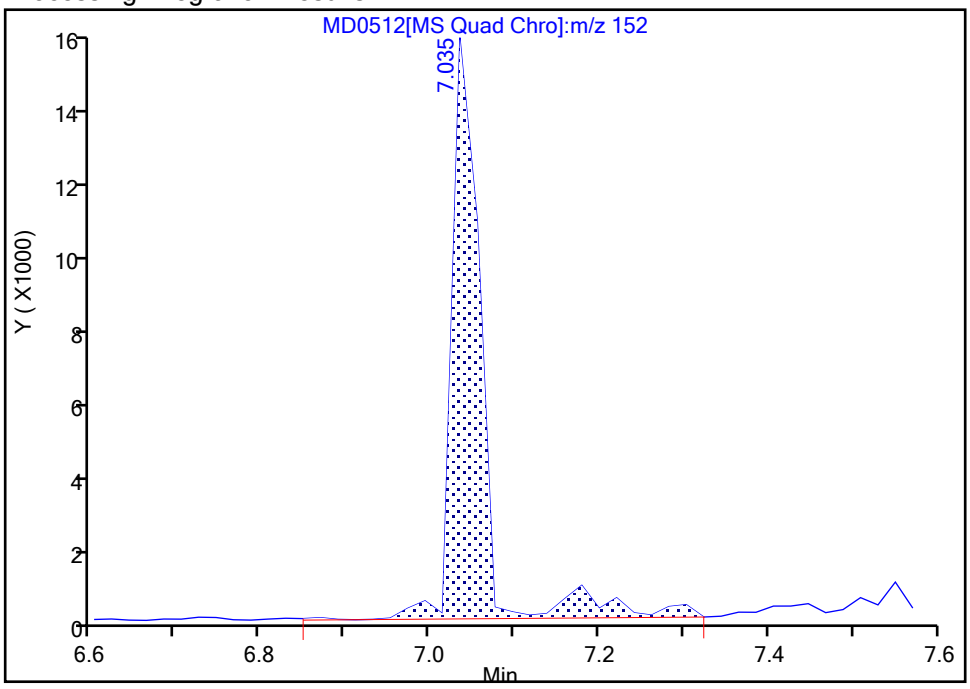
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0512.D				
Injection Date:	09-Apr-2021 04:10:18	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A DL	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

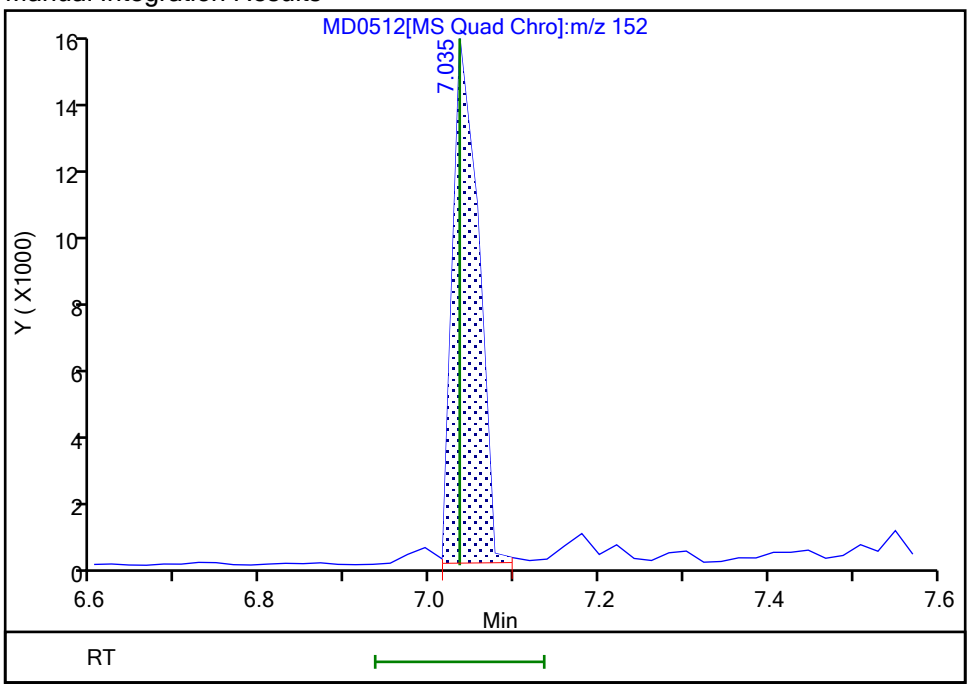
Processing Integration Results

RT: 7.04
Area: 38309
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 7.04
Area: 32903
Amount: 0.250000
Amount Units: ug/ml



Reviewer: gamblerj, 09-Apr-2021 04:54:24
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.: 410-34553-1

SDG No.:

Client Sample ID: DUP-20210402 DL2 Lab Sample ID: 410-34553-20 DL2

Matrix: Groundwater Lab File ID: MD0513.D

Analysis Method: 8270D SIM Date Collected: 04/02/2021 00:00

Extract. Method: 3510C Date Extracted: 04/07/2021 17:45

Sample wt/vol: 250(mL) Date Analyzed: 04/09/2021 04:51

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.: 112543 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	110		1.4	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	116		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	89		49-115
93951-69-0	Fluoranthene-d10 (Surr)	94		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0513.D
Lims ID: 410-34553-D-20-A DL2
Client ID: DUP-20210402
Sample Type: Client
Inject. Date: 09-Apr-2021 04:51:56 ALS Bottle#: 0 Worklist Smp#: 14
Injection Vol: 1.0 ul Dil. Factor: 20.0000
Sample Info: 410-34553-D-20-A
Misc. Info.: 410-0026241-014
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 09-Apr-2021 06:05:13 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1660

First Level Reviewer: gamblerj Date: 09-Apr-2021 06:05:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	98	32162	0.2500	M
* 5 Naphthalene-d8	136	8.952	8.952	0.000	92	121816	0.2500	
6 Naphthalene	128	8.993	8.993	0.000	93	648557	1.33	
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	96	2896	0.0112	
12 Acenaphthylene	152	11.500	11.500	0.001	100	28272	0.0526	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	97	74088	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	131804	0.3801	
17 Fluorene	166	12.407	12.407	0.000	98	44537	0.1091	
* 20 Phenanthrene-d10	188	13.593	13.593	0.000	98	142709	0.2500	
21 Phenanthrene	178	13.625	13.625	0.001	100	53455	0.0898	
22 Anthracene	178	13.695	13.695	0.000	100	7273	0.0125	
$ 24 Fluoranthene-d10 (Surr)	212	15.294	15.294	0.000	97	6487	0.0118	
25 Fluoranthene	202	15.326	15.326	0.000	100	78350	0.1181	
26 Pyrene	202	15.677	15.677	0.000	100	120727	0.1484	
28 Benzo[a]anthracene	228	17.724	17.724	0.000	100	9905	0.0140	
* 29 Chrysene-d12	240	17.739	17.739	0.000	57	141675	0.2500	
30 Chrysene	228	17.785	17.785	0.000	99	7833	0.0108	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.094	20.094	0.001	99	9571	0.0146	
* 38 Perylene-d12	264	20.224	20.224	0.000	99	188765	0.2500	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

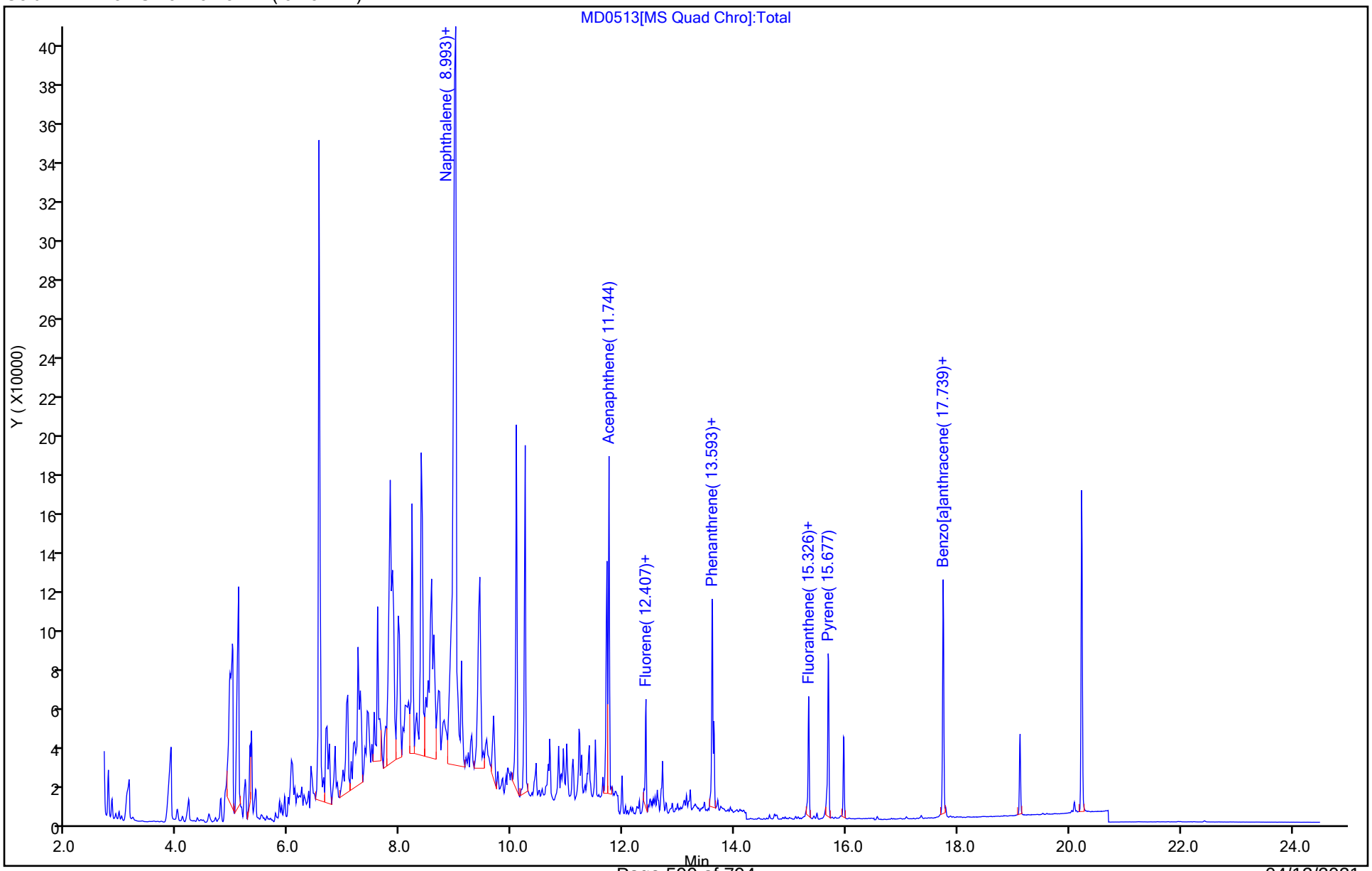
MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 09-Apr-2021 06:05:48 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0513.D				
Injection Date:	09-Apr-2021 04:51:56	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-20-A DL2	Lab Sample ID:	410-34553-20	Worklist Smp#:	14
Client ID:	DUP-20210402				
Injection Vol:	1.0 ul	Dil. Factor:	20.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

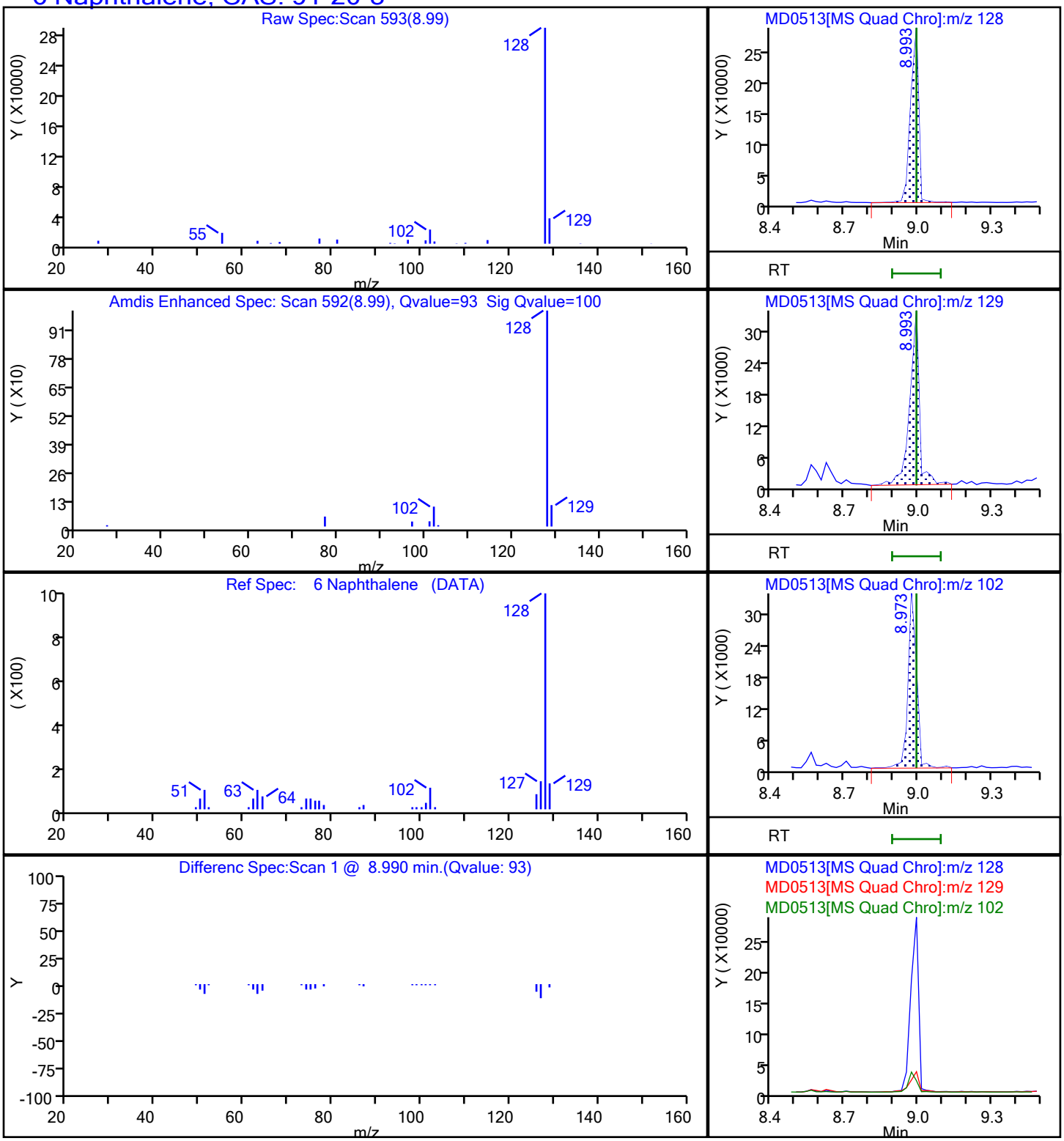
Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0513.D				
Injection Date:	09-Apr-2021 04:51:56	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A DL2	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

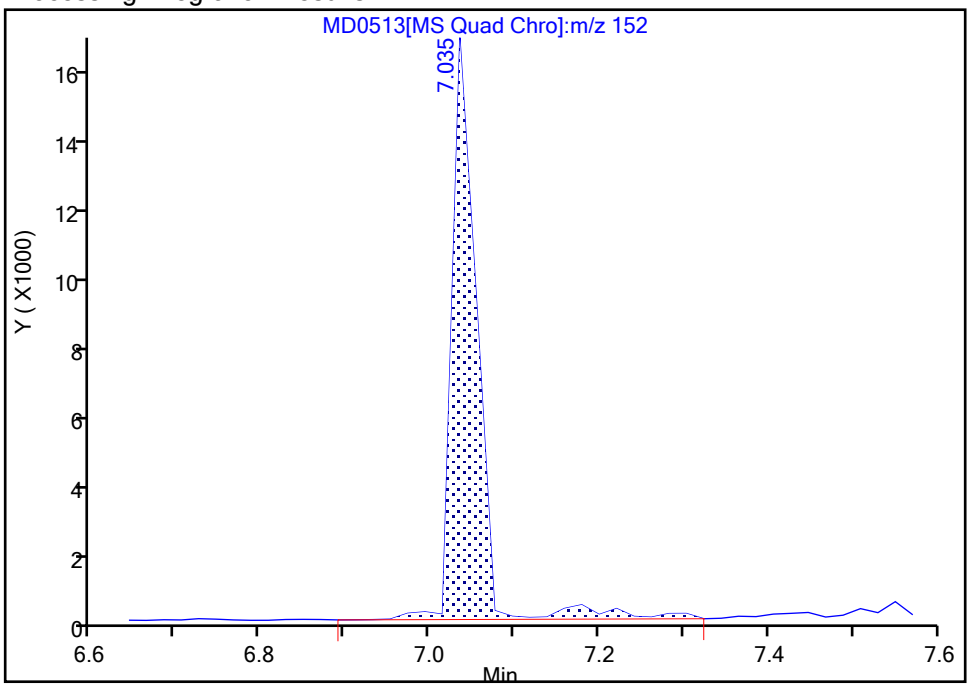
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0513.D				
Injection Date:	09-Apr-2021 04:51:56	Instrument ID:	HP21585		
Lims ID:	410-34553-D-20-A DL2	Lab Sample ID:	410-34553-20		
Client ID:	DUP-20210402				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

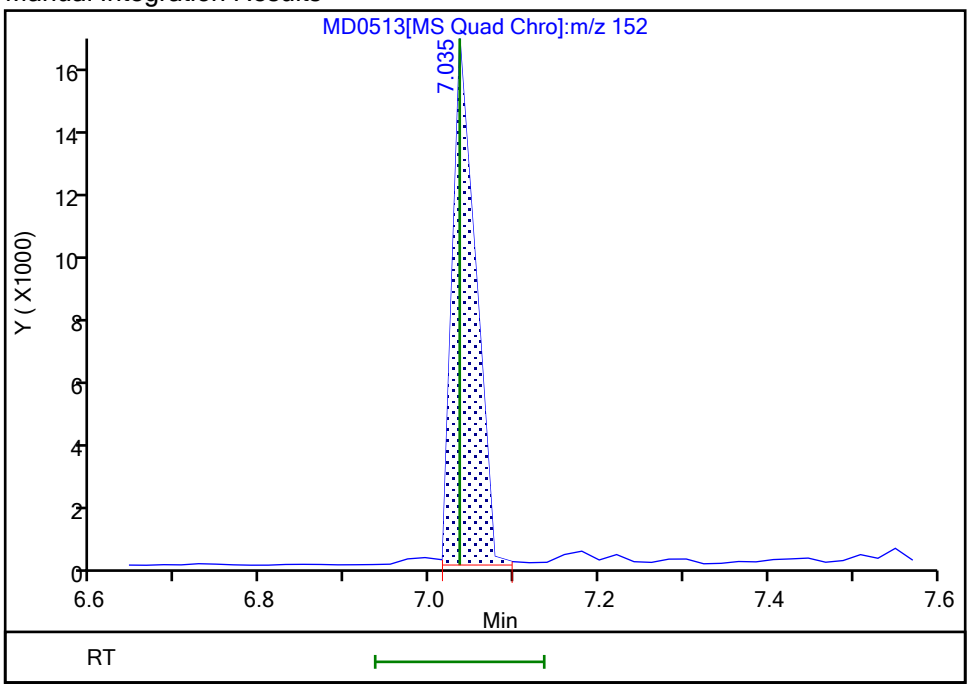
Processing Integration Results

RT: 7.04
Area: 34833
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 7.04
Area: 32162
Amount: 0.250000
Amount Units: ug/ml



Reviewer: gamblerj, 09-Apr-2021 06:04:48

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1 Analy Batch No.: 105018

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2021 10:42 Calibration End Date: 03/19/2021 15:33 Calibration ID: 21738

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-105018/7	MC0566a.D
Level 2	IC 410-105018/6	MC0565.D
Level 3	IC 410-105018/5	MC0564.D
Level 4	ICIS 410-105018/2	MC0561.D
Level 5	IC 410-105018/4	MC0563.D
Level 6	IC 410-105018/3	MC0562.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	0.7871 0.7304	0.7137	0.7127	0.6629	0.6561	Ave		0.7105				6.7		20.4			
N-Nitrosodimethylamine	0.8577 0.8700	0.7999	0.8173	0.7819	0.7849	Ave		0.8186				4.6		20.4			
Bis(2-chloroethyl)ether	0.4114 0.3740	0.4110	0.4073	0.3795	0.3831	Ave		0.3944				4.4		20.4			
Naphthalene	1.0443 0.9495	1.0218	1.0394	0.9775	0.9761	Ave		1.0014				3.9		20.4			
Quinoline	0.6504 0.6459	0.6428	0.6745	0.6353	0.6583	Ave		0.6512				2.1		20.4			
2-Methylnaphthalene	0.6815 0.6711	0.6833	0.7236	0.6873	0.6822	Ave		0.6882				2.6		20.4			
1-Methylnaphthalene	0.6732 0.6488	0.6810	0.7050	0.6604	0.6607	Ave		0.6715				3.0		20.4			
Dimethylphthalate	1.3166 1.1797	1.3091	1.5308	1.1967	1.2265	Ave		1.2932				10.0		20.4			
Acenaphthylene	1.7221 1.8634	1.7679	1.9014	1.8029	1.8233	Ave		1.8135				3.6		20.4			
Acenaphthene	1.2066 1.1625	1.1445	1.2203	1.1542	1.1326	Ave		1.1701				3.0		20.4			
Diethylphthalate	1.1611 1.0981	1.1583	1.3822	1.0861	1.1012	Ave		1.1645				9.6		20.4			
Fluorene	1.3127 1.4118	1.3263	1.4616	1.3875	1.3663	Ave		1.3777				4.0		20.4			
N-Nitrosodiphenylamine	0.4432 0.4034	0.3948	0.4367	0.4421	0.3966	Ave		0.4195				5.6		20.4			
Hexachlorobenzene	0.1964 0.2217	0.2037	0.2192	0.2188	0.2136	Ave		0.2122				4.7		20.4			
Phenanthrene	1.0285 1.0671	0.9953	1.0855	1.0423	1.0360	Ave		1.0424				3.0		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.: 410-34553-1 Analy Batch No.: 105018

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2021 10:42 Calibration End Date: 03/19/2021 15:33 Calibration ID: 21738

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								
Anthracene	0.9327 1.0719	0.9546	1.0483	1.0492	1.0407	Ave		1.0163				5.7		20.4			
Di-n-butyl phthalate	0.8370 0.8856	0.8800	1.0379	0.8703	0.8900	Ave		0.9001				7.8		20.4			
Fluoranthene	1.0758 1.2560	1.0992	1.2054	1.1851	1.1531	Ave		1.1624				5.8		20.4			
Pyrene	1.3600 1.4831	1.3685	1.4721	1.4766	1.4525	Ave		1.4355				3.9		20.4			
Butylbenzylphthalate	0.3676 0.4386	0.4108	0.4716	0.4137	0.4436	Ave		0.4243				8.4		20.4			
Benzo[a]anthracene	1.1881 1.3303	1.1775	1.2214	1.2846	1.2819	Ave		1.2473				4.9		20.4			
Chrysene	1.2442 1.3001	1.2791	1.3035	1.2852	1.2742	Ave		1.2811				1.7		20.4			
Bis(2-ethylhexyl) phthalate	0.4429 0.5929	0.5212	0.5812	0.5404	0.6019	Ave		0.5467				10.9		20.4			
Di-n-octyl phthalate	0.7688 0.8876	0.8529	0.9931	0.9158	0.9628	Ave		0.8968				9.0		20.4			
Benzo[b]fluoranthene	1.1082 1.1557	1.1242	1.1941	1.2060	1.1626	Ave		1.1585				3.3		20.4			
Benzo[k]fluoranthene	1.1493 1.1877	1.1803	1.2730	1.2868	1.2642	Ave		1.2235				4.7		20.4			
Benzo[e]pyrene	1.0864 1.1372	1.0964	1.1644	1.1762	1.1532	Ave		1.1356				3.2		20.4			
Benzo[a]pyrene	0.9984 1.1397	1.0548	1.1373	1.1640	1.1484	Ave		1.1071				5.9		20.4			
Perylene	1.0913 1.1287	1.1677	1.1966	1.1670	1.1472	Ave		1.1497				3.2		20.4			
Indeno[1,2,3-cd]pyrene	0.9546 1.1570	0.9532	1.0210	1.1229	1.1307	Ave		1.0566				8.7		20.4			
Dibenz(a,h)anthracene	1.1160 1.2973	1.1335	1.1963	1.2545	1.2700	Ave		1.2113				6.2		20.4			
Benzo[g,h,i]perylene	1.2024 1.3188	1.1658	1.2365	1.3114	1.3092	Ave		1.2574				5.2		20.4			
1-Methylnaphthalene-d10 (Surr)	0.5480 0.5119	0.5403	0.5511	0.5247	0.5203	Ave		0.5327				3.0		20.4			
Fluoranthene-d10 (Surr)	0.8959 1.0418	0.9010	0.9927	0.9868	0.9629	Ave		0.9635				5.9		20.4			
Benzo(a)pyrene-d12 (Surr)	0.8052 0.8977	0.8170	0.8719	0.9176	0.9138	Ave		0.8705				5.6		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.: 410-34553-1 Analy Batch No.: 105018

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2021 10:42 Calibration End Date: 03/19/2021 15:33 Calibration ID: 21738

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-105018/7	MC0566a.D
Level 2	IC 410-105018/6	MC0565.D
Level 3	IC 410-105018/5	MC0564.D
Level 4	ICIS 410-105018/2	MC0561.D
Level 5	IC 410-105018/4	MC0563.D
Level 6	IC 410-105018/3	MC0562.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	DCBd4	Ave	1015 245904	5049	8877	43735	96456	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd4	Ave	1106 292900	5659	10180	51584	115384	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	1828 447255	9973	17591	86148	193362	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	4640 1135426	24797	44890	221897	492621	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	2890 772417	15599	29128	144210	332234	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	3028 802454	16582	31248	156018	344322	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	2991 775808	16527	30447	149906	333461	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethylphthalate	ANT	Ave	85377 3096543	184683	385378	784638	1769256	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	4467 1222792	24941	47868	236421	526039	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	3130 762855	16147	30722	151354	326772	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethylphthalate	ANT	Ave	75298 2882457	163413	347980	712082	1588584	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	3405 926469	18711	36797	181946	394196	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodiphenylamine	PHN	Ave	2286 498806	11538	23094	117281	228913	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	1013 274105	5953	11591	58032	123263	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	5305 1319582	29090	57399	276471	597943	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	4811 1325624	27901	55434	278317	600705	0.0100 2.50	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.: 410-34553-1 Analy Batch No.: 105018

SDG No.:

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/19/2021 10:42 Calibration End Date: 03/19/2021 15:33 Calibration ID: 21738

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
Di-n-butyl phthalate	PHN	Ave	107930 4380705	257218	548794	1154222	2568610	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	5549 1553266	32128	63741	314345	665562	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	5990 1601130	32894	65206	323225	684790	0.0100 2.50	0.0500	0.100	0.500	1.00
Butylbenzylphthalate	CRY	Ave	40480 1893889	98735	208880	452763	1045674	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	5233 1436199	28304	54100	281183	604360	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	5480 1403578	30746	57737	281326	600717	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	48766 2560278	125286	257425	591394	1418898	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	78486 4518557	201502	415205	1003074	2440420	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	4525 1470937	26562	49925	264196	589360	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	4693 1511615	27887	53221	281893	640841	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	4436 1447367	25905	48682	257677	584619	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	4077 1450524	24922	47550	255000	582140	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	4456 1436596	27588	50028	255652	581557	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	3898 1472540	22522	42687	245991	573181	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenz(a,h)anthracene	PRY	Ave	4557 1651150	26781	50017	274828	643784	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	4910 1678502	27545	51694	287278	663694	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	2435 612127	13113	23802	119098	262599	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	4621 1288322	26336	52490	261758	555774	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	3288 1142579	19302	36453	201016	463220	0.0100 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend:
Ave = Average ISTD

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0561.D
Lims ID: ICIS L4
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 19-Mar-2021 10:42:04 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L4
Misc. Info.: 410-0024536-002, 5
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Mar-2021 16:42:12 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1610

First Level Reviewer: saadehw Date: 19-Mar-2021 11:55:34

	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	3.296	3.296	0.000	99	43735	0.5000	0.4665	
	2 N-Nitrosodimethylamine	74	3.682	3.682	0.000	100	51584	0.5000	0.4776	
	3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	75	86148	0.5000	0.4811	
*	4 1,4-Dichlorobenzene-d4	152	7.118	7.118	0.000	87	32987	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.034	9.034	0.000	92	113498	0.2500	0.2500	
	6 Naphthalene	128	9.055	9.055	0.000	93	221897	0.5000	0.4881	
	7 Quinoline	129	9.591	9.591	0.000	100	144210	0.5000	0.4878	
	8 2-Methylnaphthalene	142	10.167	10.167	0.000	98	156018	0.5000	0.4994	
$	9 1-Methylnaphthalene-d10	152	10.265	10.265	0.000	100	119098	0.5000	0.4924	
	10 1-Methylnaphthalene	142	10.314	10.314	0.000	98	149906	0.5000	0.4917	
	11 Dimethyl phthalate	163	11.426	11.426	0.000	100	784638	2.50	2.31	
	12 Acenaphthylene	152	11.573	11.573	0.000	100	236421	0.5000	0.4971	
*	13 Acenaphthene-d10	164	11.768	11.768	0.000	96	65566	0.2500	0.2500	
	14 Acenaphthene	154	11.817	11.817	0.000	93	151354	0.5000	0.4932	
	16 Diethyl phthalate	149	12.364	12.364	0.000	99	712082	2.50	2.33	
	17 Fluorene	166	12.473	12.473	0.000	96	181946	0.5000	0.5036	
	18 N-Nitrosodiphenylamine	169	12.630	12.630	0.000	98	117281	0.5000	0.5270	
	19 Hexachlorobenzene	284	13.160	13.160	0.000	95	58032	0.5000	0.5155	
*	20 Phenanthrene-d10	188	13.668	13.668	0.000	98	132628	0.2500	0.2500	
	21 Phenanthrene	178	13.699	13.699	0.000	100	276471	0.5000	0.4999	
	22 Anthracene	178	13.769	13.769	0.000	100	278317	0.5000	0.5162	
	23 Di-n-butyl phthalate	149	14.501	14.501	0.000	100	1154222	2.50	2.42	
$	24 Fluoranthene-d10 (Surr)	212	15.378	15.378	0.000	98	261758	0.5000	0.5121	
	25 Fluoranthene	202	15.404	15.404	0.000	100	314345	0.5000	0.5097	
	26 Pyrene	202	15.761	15.761	0.000	99	323225	0.5000	0.5143	
	27 Butyl benzyl phthalate	149	16.898	16.898	0.000	100	452763	2.50	2.44	
	28 Benzo[a]anthracene	228	17.811	17.811	0.000	100	281183	0.5000	0.5149	
*	29 Chrysene-d12	240	17.826	17.826	0.000	76	109446	0.2500	0.2500	
	30 Chrysene	228	17.872	17.872	0.000	100	281326	0.5000	0.5016	
	31 Bis(2-ethylhexyl) phthalate	149	17.972	17.972	0.000	98	591394	2.50	2.47	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Di-n-octyl phthalate	149	19.145	19.145	0.000	100	1003074	2.50	2.55	
33 Benzo[b]fluoranthene	252	19.682	19.682	0.000	100	264196	0.5000	0.5205	
34 Benzo[k]fluoranthene	252	19.728	19.728	0.000	100	281893	0.5000	0.5258	
35 Benzo[e]pyrene	252	20.135	20.135	0.000	100	257677	0.5000	0.5179	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.181	20.181	0.000	99	201016	0.5000	0.5270	
37 Benzo[a]pyrene	252	20.219	20.219	0.000	100	255000	0.5000	0.5257	
* 38 Perylene-d12	264	20.311	20.311	0.000	99	109534	0.2500	0.2500	
39 Perylene	252	20.349	20.349	0.000	100	255652	0.5000	0.5075	
40 Indeno[1,2,3-cd]pyrene	276	22.059	22.059	0.000	99	245991	0.5000	0.5314	M
41 Dibenz(a,h)anthracene	278	22.115	22.115	0.000	95	274828	0.5000	0.5179	
42 Benzo[g,h,i]perylene	276	22.539	22.539	0.000	97	287278	0.5000	0.5215	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00015 Amount Added: 1.00 Units: mL

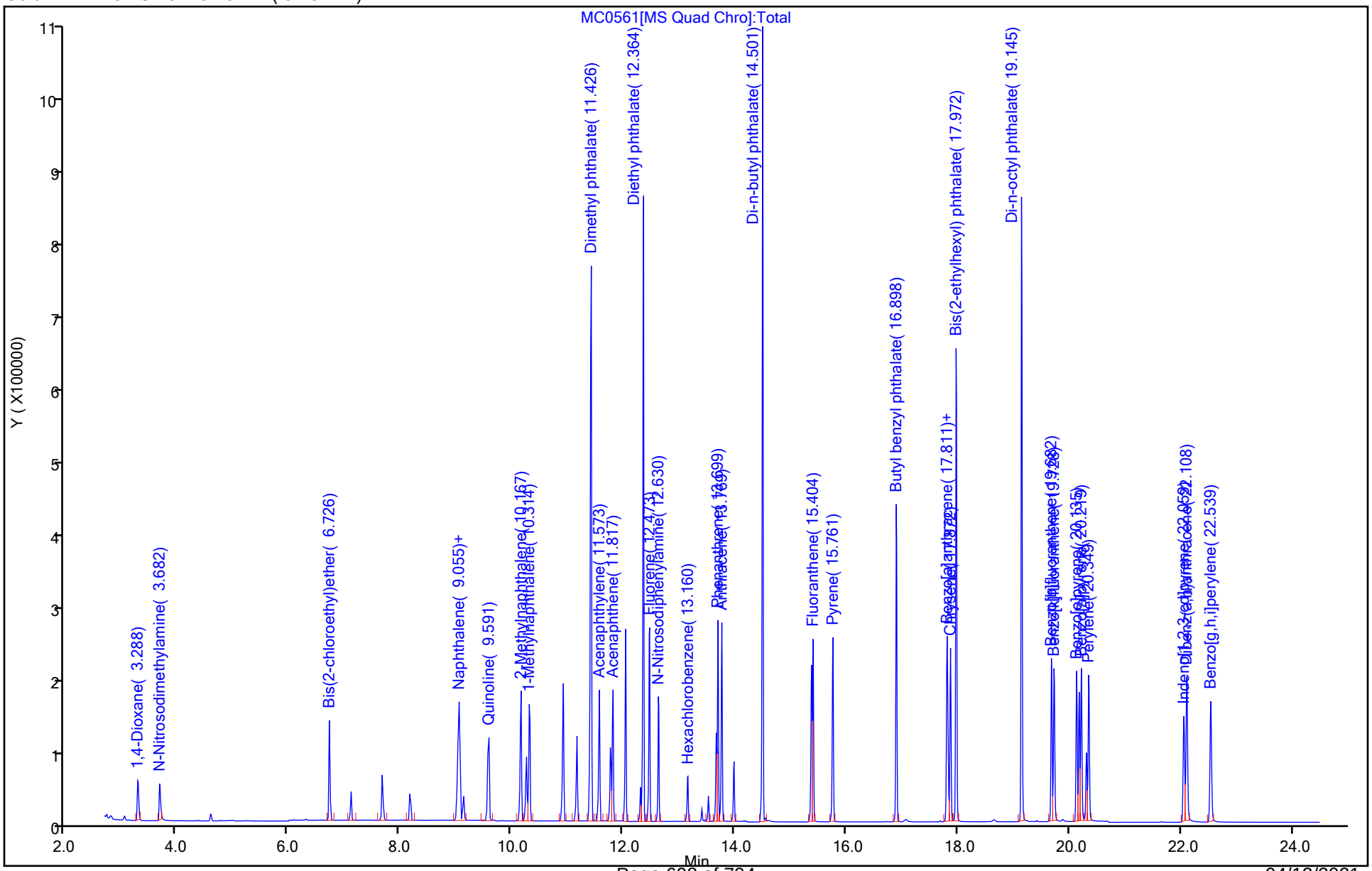
Report Date: 19-Mar-2021 16:42:13 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0561.D

Injection Date:	19-Mar-2021 10:42:04	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

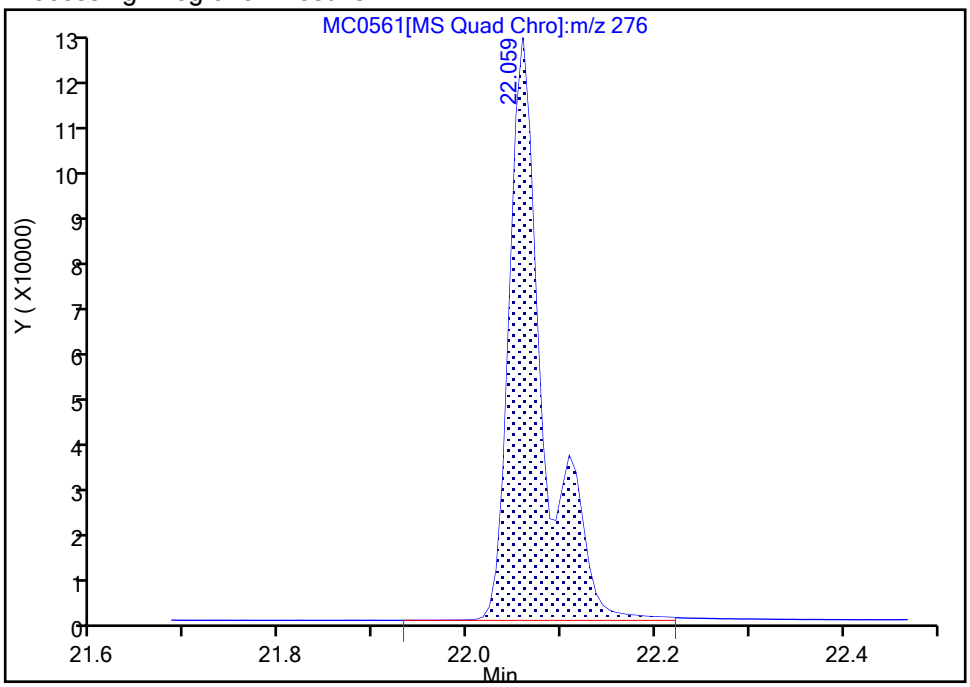
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0561.D				
Injection Date:	19-Mar-2021 10:42:04	Instrument ID:	HP21585		
Lims ID:	ICIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

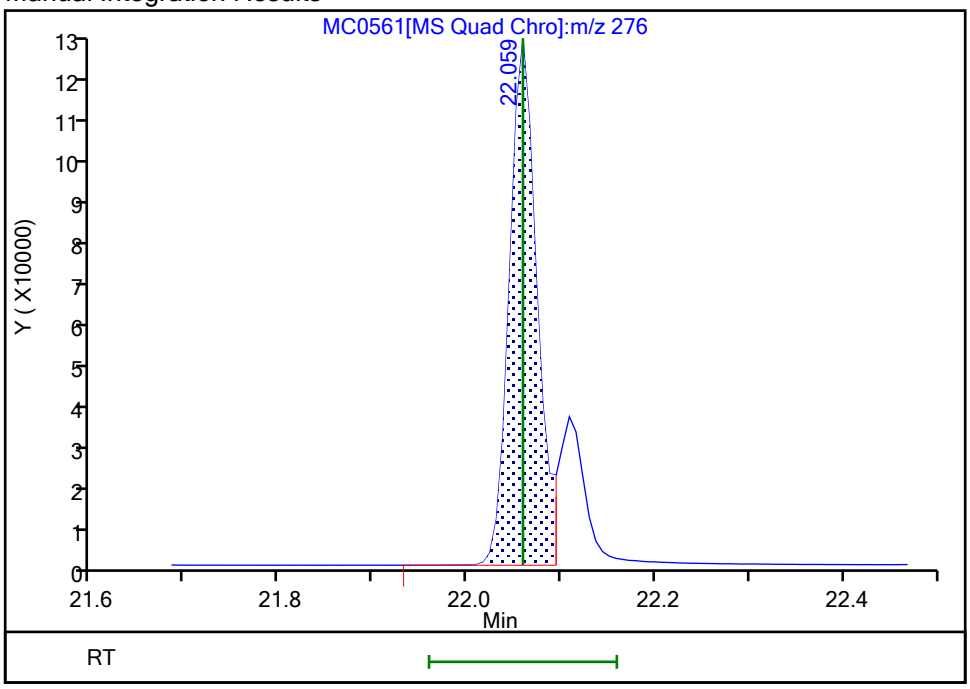
Processing Integration Results

RT: 22.06
Area: 312034
Amount: 0.500000
Amount Units: ug/ml



Manual Integration Results

RT: 22.06
Area: 245991
Amount: 0.531388
Amount Units: ug/ml



Reviewer: saadehw, 19-Mar-2021 11:59:20

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0562.D
Lims ID: IC L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Mar-2021 12:06:10 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L6
Misc. Info.: 410-0024536-003
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Mar-2021 16:43:53 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1610

First Level Reviewer: transuea Date: 19-Mar-2021 16:43:52

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	3.296	-0.008	99	245904	2.50	2.57	
2 N-Nitrosodimethylamine	74	3.682	3.682	0.000	100	292900	2.50	2.66	
3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	73	447255	2.50	2.37	
* 4 1,4-Dichlorobenzene-d4	152	7.118	7.118	0.000	87	33666	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.034	9.034	0.000	92	119579	0.2500	0.2500	
6 Naphthalene	128	9.055	9.055	0.000	93	1135426	2.50	2.37	
7 Quinoline	129	9.591	9.591	0.000	99	772417	2.50	2.48	
8 2-Methylnaphthalene	142	10.167	10.167	0.000	98	802454	2.50	2.44	
$ 9 1-Methylnaphthalene-d10	152	10.265	10.265	0.000	100	612127	2.50	2.40	
10 1-Methylnaphthalene	142	10.326	10.314	0.012	96	775808	2.50	2.42	
11 Dimethyl phthalate	163	11.426	11.426	0.000	99	3096543	10.0	9.12	
12 Acenaphthylene	152	11.573	11.573	0.000	100	1222792	2.50	2.57	
* 13 Acenaphthene-d10	164	11.781	11.768	0.013	94	65623	0.2500	0.2500	
14 Acenaphthene	154	11.817	11.817	0.000	91	762855	2.50	2.48	
16 Diethyl phthalate	149	12.364	12.364	0.000	99	2882457	10.0	9.43	
17 Fluorene	166	12.474	12.473	0.001	96	926469	2.50	2.56	
18 N-Nitrosodiphenylamine	169	12.637	12.630	0.007	98	498806	2.50	2.40	
19 Hexachlorobenzene	284	13.160	13.160	0.000	96	274105	2.50	2.61	
* 20 Phenanthrene-d10	188	13.668	13.668	0.000	96	123665	0.2500	0.2500	
21 Phenanthrene	178	13.699	13.699	0.000	100	1319582	2.50	2.56	
22 Anthracene	178	13.769	13.769	0.000	100	1325624	2.50	2.64	
23 Di-n-butyl phthalate	149	14.507	14.501	0.006	100	4380705	10.0	9.84	
$ 24 Fluoranthene-d10 (Surr)	212	15.379	15.378	0.001	99	1288322	2.50	2.70	
25 Fluoranthene	202	15.410	15.404	0.006	100	1553266	2.50	2.70	
26 Pyrene	202	15.761	15.761	0.000	99	1601130	2.50	2.58	
27 Butyl benzyl phthalate	149	16.906	16.898	0.008	100	1893889	10.0	10.3	
28 Benzo[a]anthracene	228	17.811	17.811	0.000	100	1436199	2.50	2.67	
* 29 Chrysene-d12	240	17.826	17.826	0.000	66	107957	0.2500	0.2500	
30 Chrysene	228	17.872	17.872	0.000	100	1403578	2.50	2.54	
31 Bis(2-ethylhexyl) phthalate	149	17.979	17.972	0.007	97	2560278	10.0	10.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Di-n-octyl phthalate	149	19.153	19.145	0.008	100	4518557	10.0	9.90	
33 Benzo[b]fluoranthene	252	19.690	19.682	0.008	100	1470937	2.50	2.49	
34 Benzo[k]fluoranthene	252	19.736	19.728	0.008	100	1511615	2.50	2.43	
35 Benzo[e]pyrene	252	20.142	20.135	0.007	100	1447367	2.50	2.50	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.188	20.181	0.007	99	1142579	2.50	2.58	
37 Benzo[a]pyrene	252	20.227	20.219	0.008	100	1450524	2.50	2.57	
* 38 Perylene-d12	264	20.319	20.311	0.008	99	127274	0.2500	0.2500	
39 Perylene	252	20.357	20.349	0.008	100	1436596	2.50	2.45	
40 Indeno[1,2,3-cd]pyrene	276	22.066	22.059	0.007	99	1472540	2.50	2.74	M
41 Dibenz(a,h)anthracene	278	22.115	22.115	0.000	97	1651150	2.50	2.68	
42 Benzo[g,h,i]perylene	276	22.553	22.539	0.014	96	1678502	2.50	2.62	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_6_00009 Amount Added: 1.00 Units: mL

Report Date: 19-Mar-2021 16:43:53 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0562.D

Injection Date: 19-Mar-2021 12:06:10 Instrument ID: HP21585 Operator ID: jmg00346

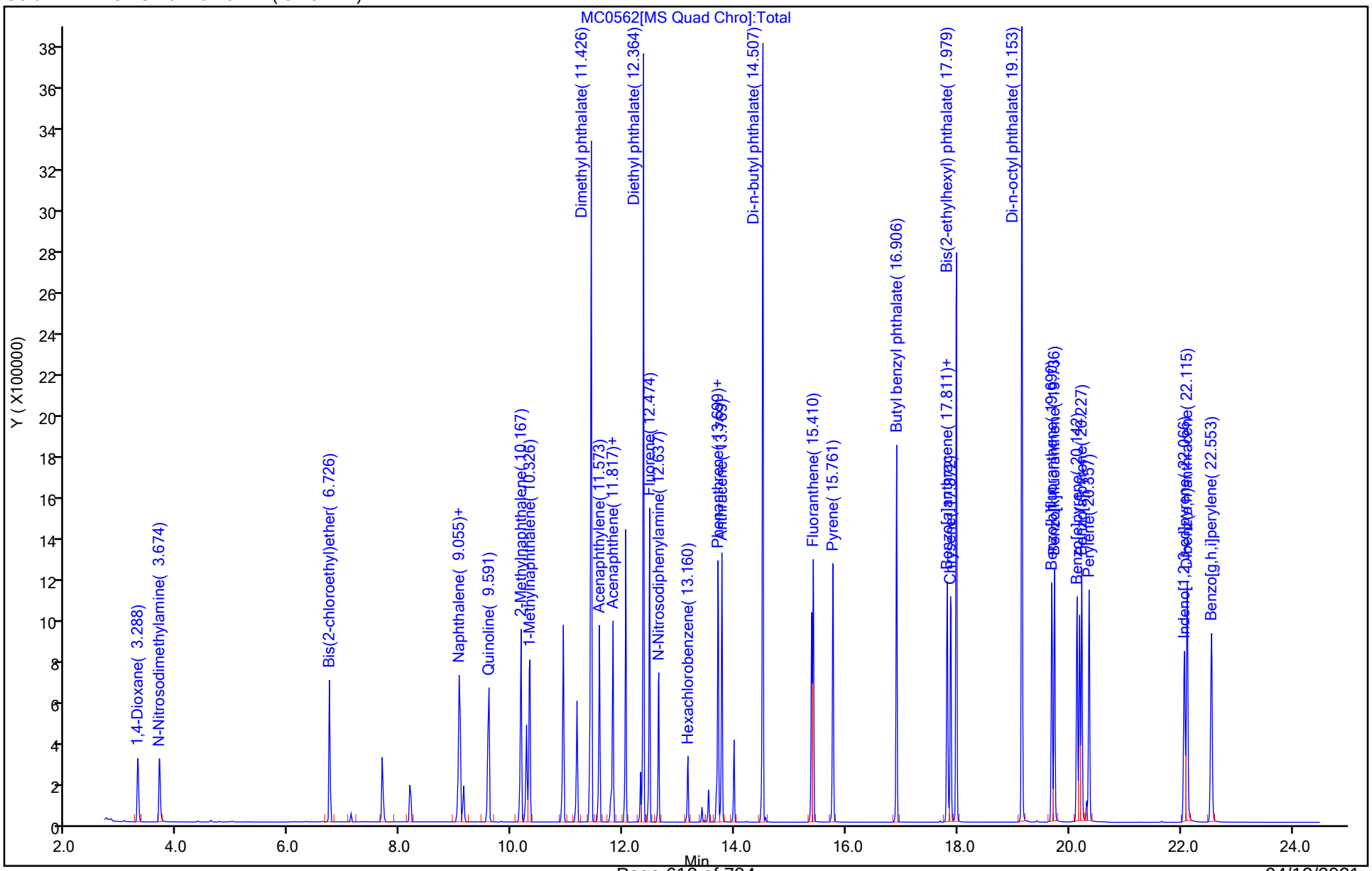
Lims ID: IC L6 Worklist Smp#: 3

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

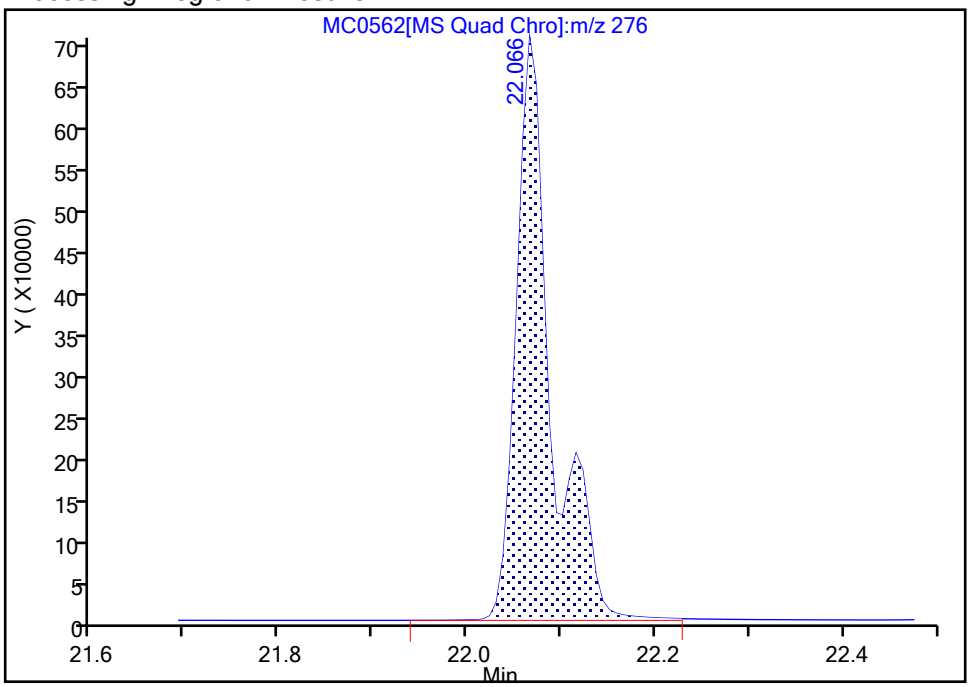
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0562.D				
Injection Date:	19-Mar-2021 12:06:10	Instrument ID:	HP21585		
Lims ID:	IC L6				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

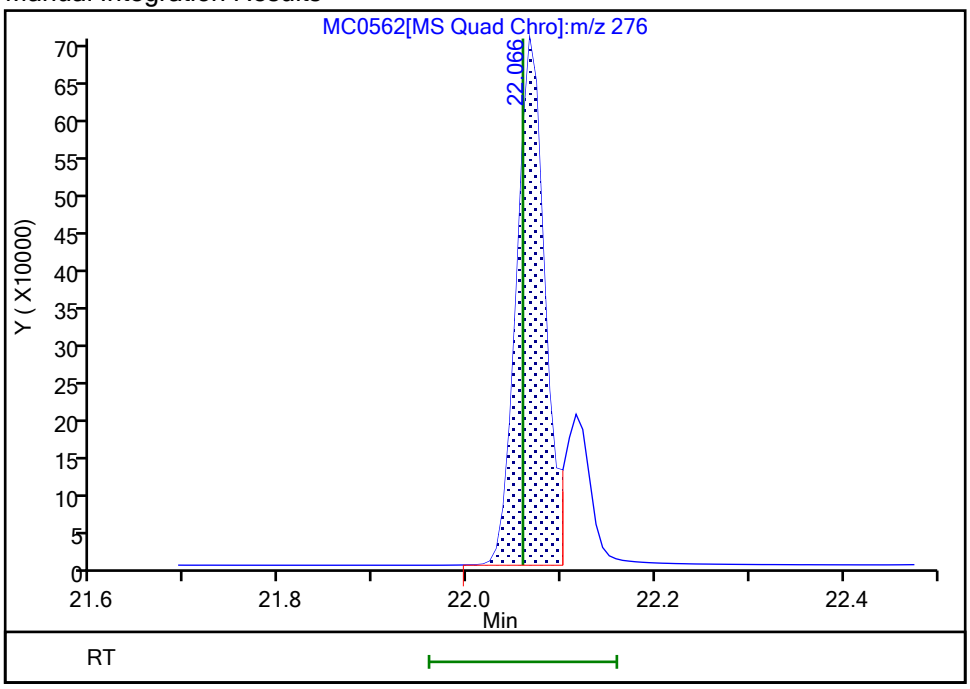
Processing Integration Results

RT: 22.07
Area: 1843987
Amount: 2.718189
Amount Units: ug/ml



Manual Integration Results

RT: 22.07
Area: 1472540
Amount: 2.737591
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 13:11:22

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0563.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 19-Mar-2021 12:36:28 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0024536-004
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Mar-2021 16:42:18 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1610

First Level Reviewer: transuea Date: 19-Mar-2021 13:17:25

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	3.296	3.296	0.000	99	96456	1.00	0.9235	
2 N-Nitrosodimethylamine	74	3.689	3.682	0.007	100	115384	1.00	0.9588	
3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	73	193362	1.00	0.9714	
* 4 1,4-Dichlorobenzene-d4	152	7.118	7.118	0.000	86	36752	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.035	9.034	0.001	92	126175	0.2500	0.2500	
6 Naphthalene	128	9.055	9.055	0.000	92	492621	1.00	0.9747	
7 Quinoline	129	9.591	9.591	0.000	99	332234	1.00	1.01	
8 2-Methylnaphthalene	142	10.167	10.167	0.000	98	344322	1.00	0.99	
$ 9 1-Methylnaphthalene-d10	152	10.265	10.265	0.000	100	262599	1.00	0.9767	
10 1-Methylnaphthalene	142	10.314	10.314	0.000	98	333461	1.00	0.9839	
11 Dimethyl phthalate	163	11.426	11.426	0.000	98	1769256	5.00	4.74	
12 Acenaphthylene	152	11.573	11.573	0.000	100	526039	1.00	1.01	
* 13 Acenaphthene-d10	164	11.769	11.768	0.001	97	72128	0.2500	0.2500	
14 Acenaphthene	154	11.818	11.817	0.001	92	326772	1.00	0.9679	
16 Diethyl phthalate	149	12.357	12.364	-0.007	100	1588584	5.00	4.73	
17 Fluorene	166	12.474	12.473	0.001	96	394196	1.00	0.99	
18 N-Nitrosodiphenylamine	169	12.630	12.630	0.000	99	228913	1.00	0.9455	
19 Hexachlorobenzene	284	13.161	13.160	0.001	96	123263	1.00	1.01	
* 20 Phenanthrene-d10	188	13.668	13.668	0.000	100	144298	0.2500	0.2500	
21 Phenanthrene	178	13.699	13.699	0.000	100	597943	1.00	0.99	
22 Anthracene	178	13.769	13.769	0.000	100	600705	1.00	1.02	
23 Di-n-butyl phthalate	149	14.501	14.501	0.000	100	2568610	5.00	4.94	
$ 24 Fluoranthene-d10 (Surr)	212	15.379	15.378	0.001	98	555774	1.00	1.00	
25 Fluoranthene	202	15.404	15.404	0.000	100	665562	1.00	0.99	
26 Pyrene	202	15.761	15.761	0.000	99	684790	1.00	1.01	
27 Butyl benzyl phthalate	149	16.898	16.898	0.000	100	1045674	5.00	5.23	
28 Benzo[a]anthracene	228	17.811	17.811	0.000	100	604360	1.00	1.03	
* 29 Chrysene-d12	240	17.826	17.826	0.000	90	117863	0.2500	0.2500	
30 Chrysene	228	17.872	17.872	0.000	100	600717	1.00	0.99	
31 Bis(2-ethylhexyl) phthalate	149	17.972	17.972	0.000	98	1418898	5.00	5.50	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Di-n-octyl phthalate	149	19.145	19.145	0.000	100	2440420	5.00	5.37	
33 Benzo[b]fluoranthene	252	19.682	19.682	0.000	100	589360	1.00	1.00	
34 Benzo[k]fluoranthene	252	19.728	19.728	0.000	100	640841	1.00	1.03	
35 Benzo[e]pyrene	252	20.135	20.135	0.000	100	584619	1.00	1.02	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.181	20.181	0.000	99	463220	1.00	1.05	
37 Benzo[a]pyrene	252	20.219	20.219	0.000	100	582140	1.00	1.04	
* 38 Perylene-d12	264	20.311	20.311	0.000	99	126733	0.2500	0.2500	
39 Perylene	252	20.349	20.349	0.000	100	581557	1.00	1.00	
40 Indeno[1,2,3-cd]pyrene	276	22.059	22.059	0.000	99	573181	1.00	1.07	M
41 Dibenz(a,h)anthracene	278	22.109	22.115	-0.006	98	643784	1.00	1.05	
42 Benzo[g,h,i]perylene	276	22.539	22.539	0.000	97	663694	1.00	1.04	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_5_00011 Amount Added: 1.00 Units: mL

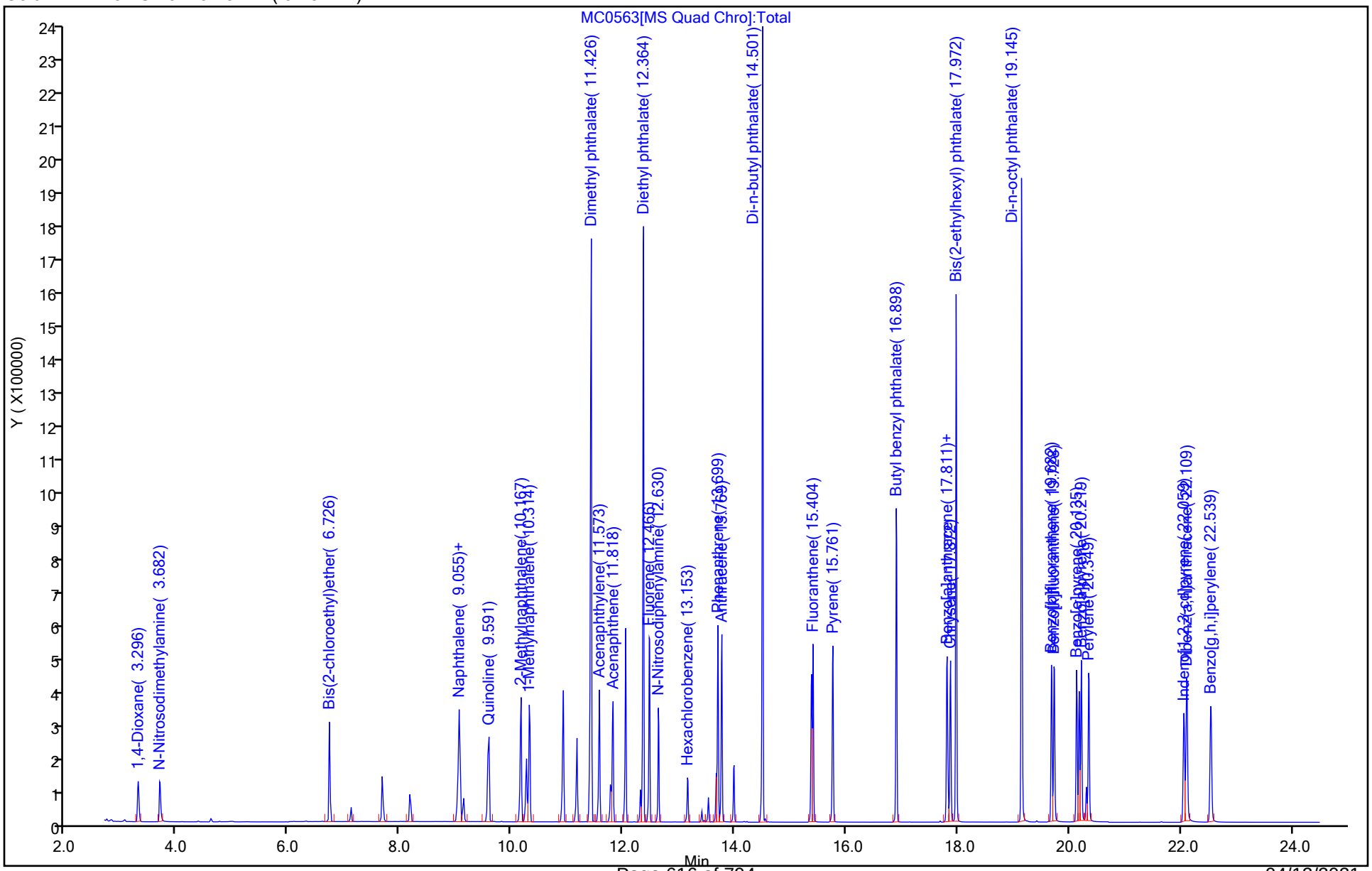
Report Date: 19-Mar-2021 16:42:19 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0563.D

Injection Date:	19-Mar-2021 12:36:28	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

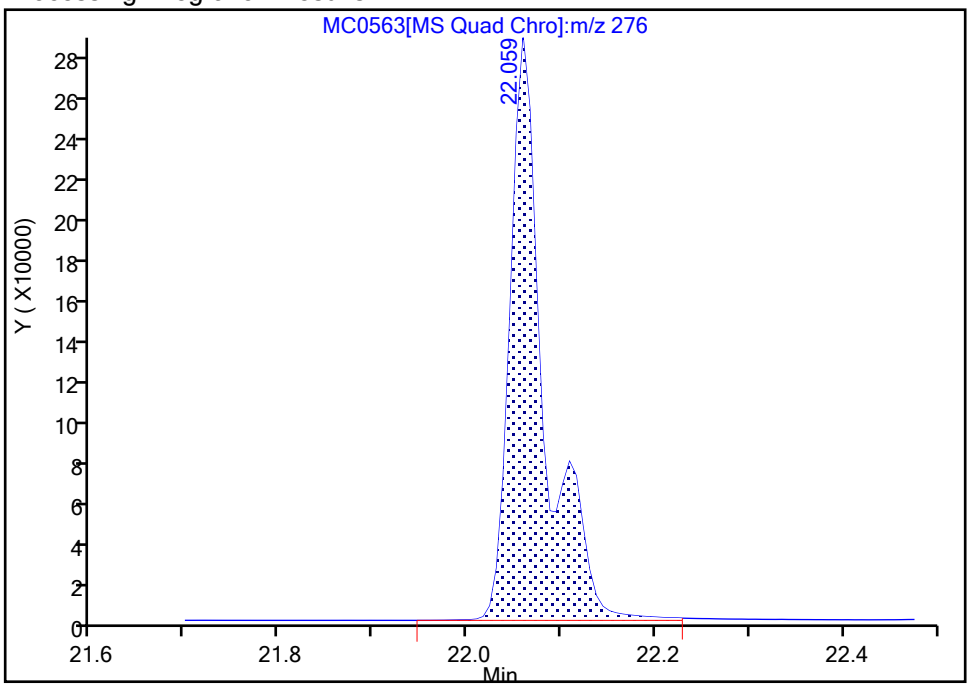
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0563.D				
Injection Date:	19-Mar-2021 12:36:28	Instrument ID:	HP21585		
Lims ID:	IC L5				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

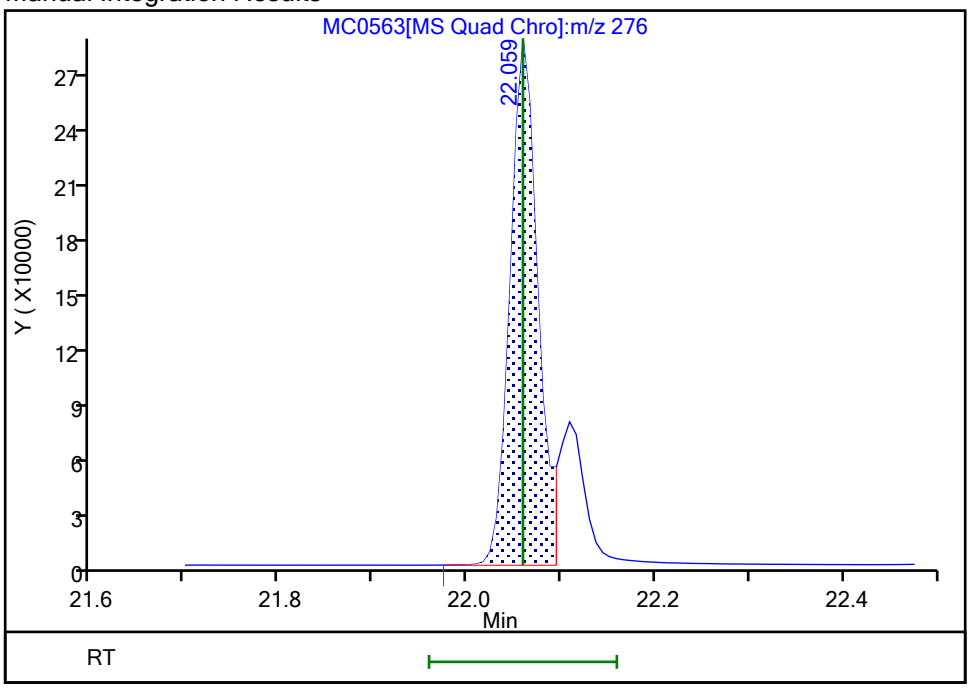
Processing Integration Results

RT: 22.06
Area: 722821
Amount: 1.154318
Amount Units: ug/ml



Manual Integration Results

RT: 22.06
Area: 573181
Amount: 1.070146
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 13:12:08
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0564.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Mar-2021 13:06:42 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0024536-005
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Mar-2021 16:42:23 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1610

First Level Reviewer: transuea Date: 19-Mar-2021 14:08:22

	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	3.303	3.296	0.007	98	8877	0.1000	0.1003	M
	2 N-Nitrosodimethylamine	74	3.704	3.682	0.022	100	10180	0.1000	0.0998	
	3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	71	17591	0.1000	0.1033	
*	4 1,4-Dichlorobenzene-d4	152	7.117	7.118	-0.001	88	31140	0.2500	0.2500	
*	5 Naphthalene-d8	136	9.034	9.034	0.000	92	107966	0.2500	0.2500	
	6 Naphthalene	128	9.055	9.055	0.000	92	44890	0.1000	0.1038	M
	7 Quinoline	129	9.591	9.591	0.000	100	29128	0.1000	0.1036	
	8 2-Methylnaphthalene	142	10.167	10.167	0.000	97	31248	0.1000	0.1051	
$	9 1-Methylnaphthalene-d10	152	10.264	10.265	-0.001	100	23802	0.1000	0.1035	
	10 1-Methylnaphthalene	142	10.313	10.314	-0.001	98	30447	0.1000	0.1050	
	11 Dimethyl phthalate	163	11.426	11.426	0.000	98	385378	1.00	1.18	
	12 Acenaphthylene	152	11.573	11.573	-0.001	100	47868	0.1000	0.1048	
*	13 Acenaphthene-d10	164	11.768	11.768	0.000	97	62939	0.2500	0.2500	
	14 Acenaphthene	154	11.817	11.817	0.000	91	30722	0.1000	0.1043	
	16 Diethyl phthalate	149	12.356	12.364	-0.008	99	347980	1.00	1.19	
	17 Fluorene	166	12.465	12.473	-0.008	97	36797	0.1000	0.1061	
	18 N-Nitrosodiphenylamine	169	12.629	12.630	-0.001	98	23094	0.1000	0.1041	
	19 Hexachlorobenzene	284	13.160	13.160	0.000	95	11591	0.1000	0.1033	
*	20 Phenanthrene-d10	188	13.667	13.668	-0.001	96	132194	0.2500	0.2500	
	21 Phenanthrene	178	13.699	13.699	0.000	100	57399	0.1000	0.1041	
	22 Anthracene	178	13.769	13.769	0.000	100	55434	0.1000	0.1032	
	23 Di-n-butyl phthalate	149	14.501	14.501	0.000	100	548794	1.00	1.15	
$	24 Fluoranthene-d10 (Surr)	212	15.372	15.378	-0.006	99	52490	0.1000	0.1030	
	25 Fluoranthene	202	15.403	15.404	-0.001	100	63741	0.1000	0.1037	
	26 Pyrene	202	15.761	15.761	0.000	98	65206	0.1000	0.1026	
	27 Butyl benzyl phthalate	149	16.898	16.898	0.000	100	208880	1.00	1.11	
	28 Benzo[a]anthracene	228	17.803	17.811	-0.008	100	54100	0.1000	0.0979	
*	29 Chrysene-d12	240	17.826	17.826	0.000	58	110735	0.2500	0.2500	
	30 Chrysene	228	17.872	17.872	0.000	100	57737	0.1000	0.1018	
	31 Bis(2-ethylhexyl) phthalate	149	17.971	17.972	-0.001	98	257425	1.00	1.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Di-n-octyl phthalate	149	19.145	19.145	0.000	100	415205	1.00	1.11	
33 Benzo[b]fluoranthene	252	19.682	19.682	0.000	100	49925	0.1000	0.1031	
34 Benzo[k]fluoranthene	252	19.728	19.728	0.000	100	53221	0.1000	0.1040	
35 Benzo[e]pyrene	252	20.134	20.135	-0.001	100	48682	0.1000	0.1025	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.180	20.181	-0.001	99	36453	0.1000	0.1002	
37 Benzo[a]pyrene	252	20.219	20.219	0.000	100	47550	0.1000	0.1027	
* 38 Perylene-d12	264	20.311	20.311	0.000	99	104521	0.2500	0.2500	
39 Perylene	252	20.349	20.349	0.000	100	50028	0.1000	0.1041	
40 Indeno[1,2,3-cd]pyrene	276	22.059	22.059	0.000	99	42687	0.1000	0.0966	M
41 Dibenz(a,h)anthracene	278	22.108	22.115	-0.007	98	50017	0.1000	0.0988	
42 Benzo[g,h,i]perylene	276	22.539	22.539	0.000	96	51694	0.1000	0.0983	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_3_00009 Amount Added: 1.00 Units: mL

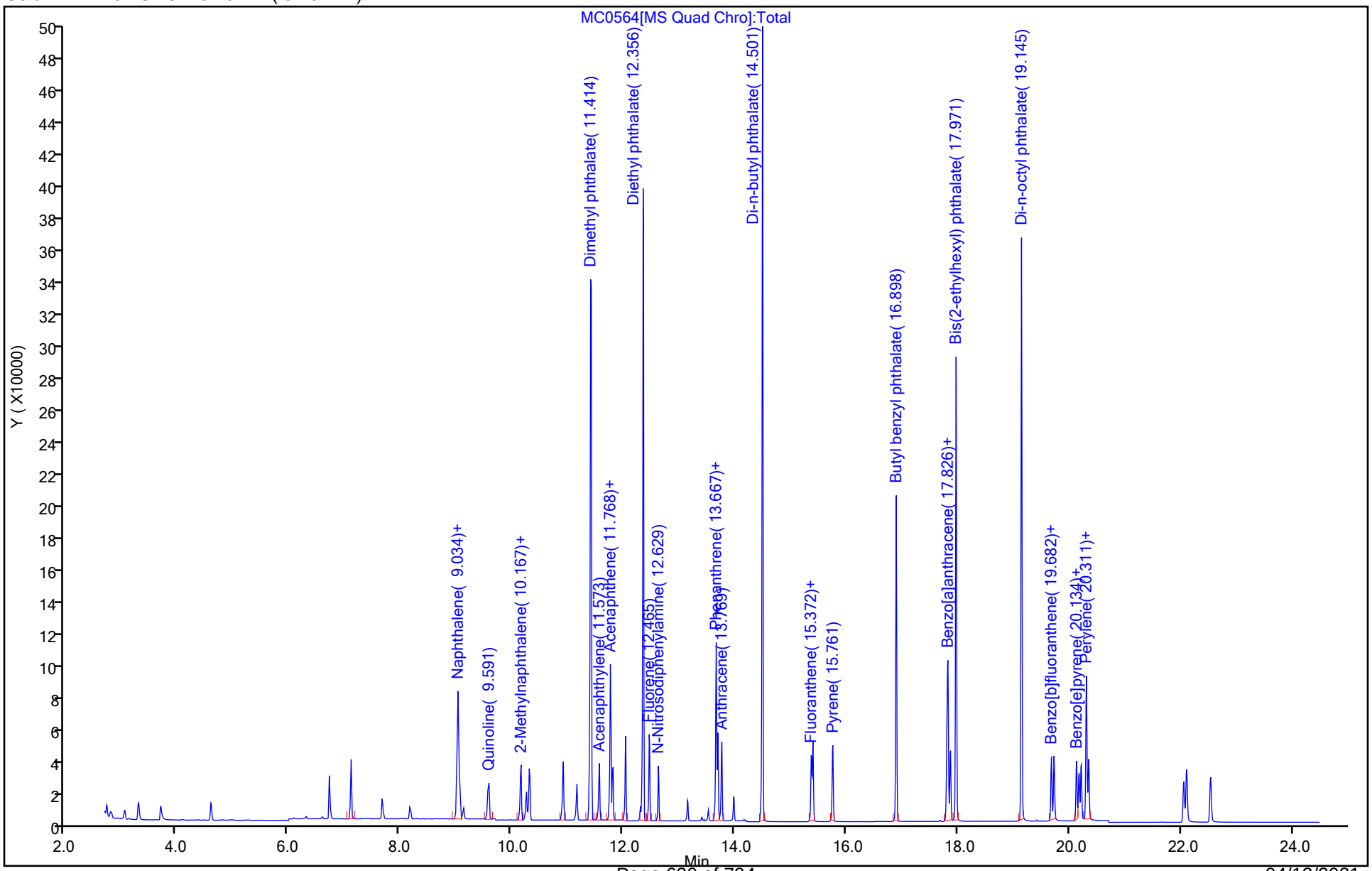
Report Date: 19-Mar-2021 16:42:24 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0564.D

Injection Date:	19-Mar-2021 13:06:42	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

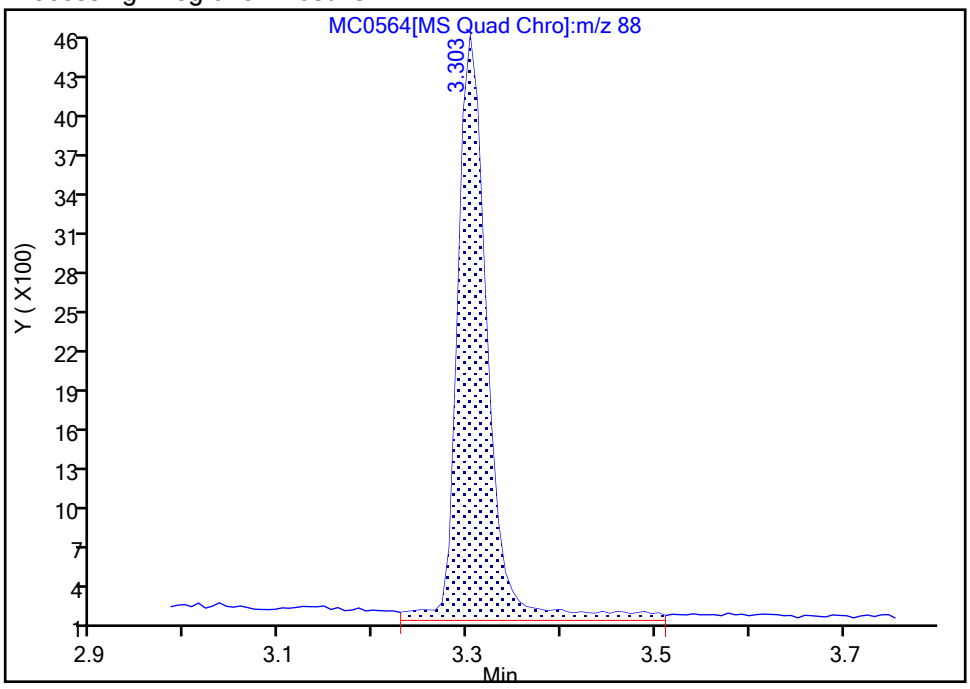
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0564.D				
Injection Date:	19-Mar-2021 13:06:42	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

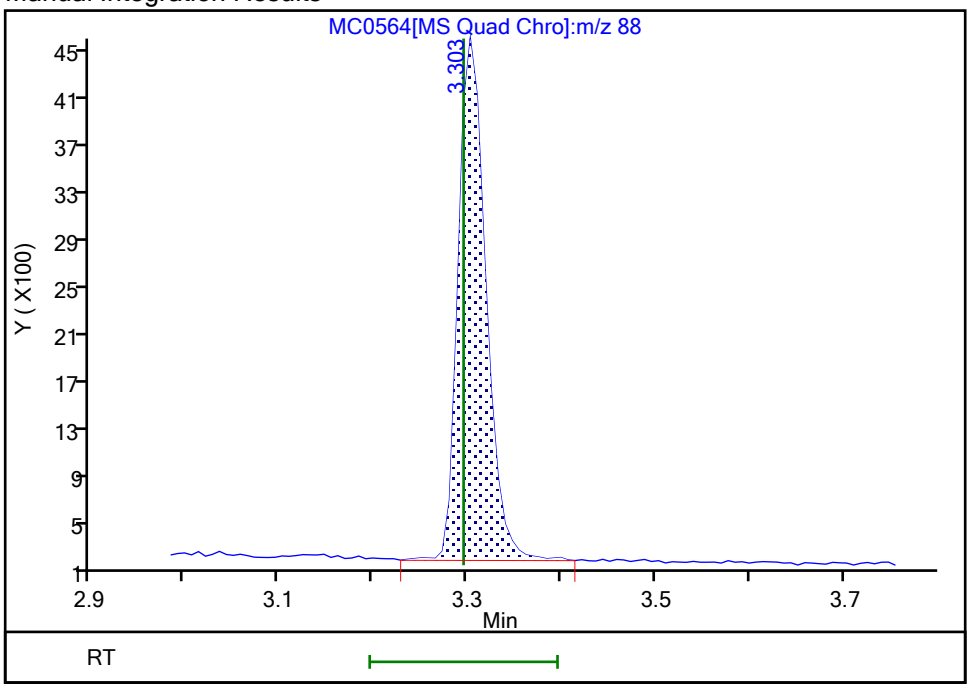
Processing Integration Results

RT: 3.30
Area: 9831
Amount: 0.111213
Amount Units: ug/ml



Manual Integration Results

RT: 3.30
Area: 8877
Amount: 0.100307
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 14:06:19

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

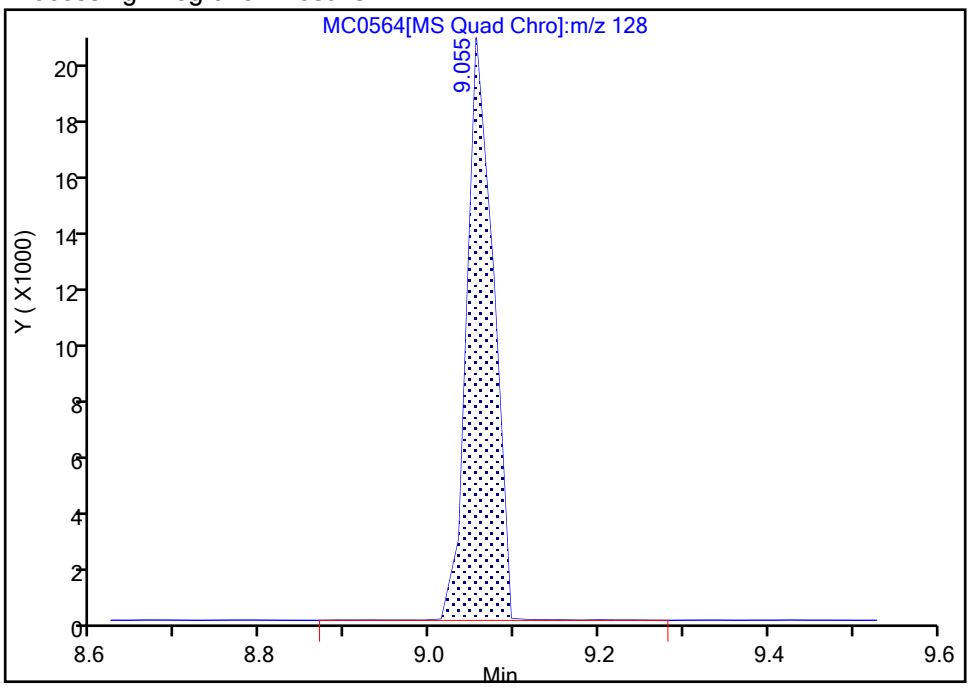
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0564.D				
Injection Date:	19-Mar-2021 13:06:42	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

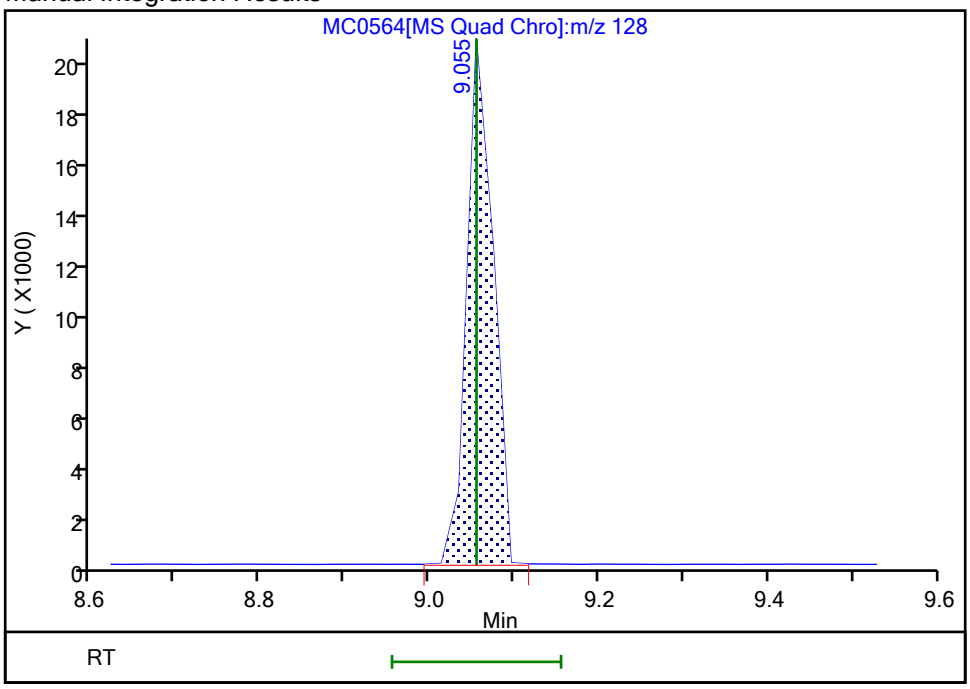
Processing Integration Results

RT: 9.05
Area: 44798
Amount: 0.105300
Amount Units: ug/ml



Manual Integration Results

RT: 9.05
Area: 44890
Amount: 0.103794
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 14:06:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

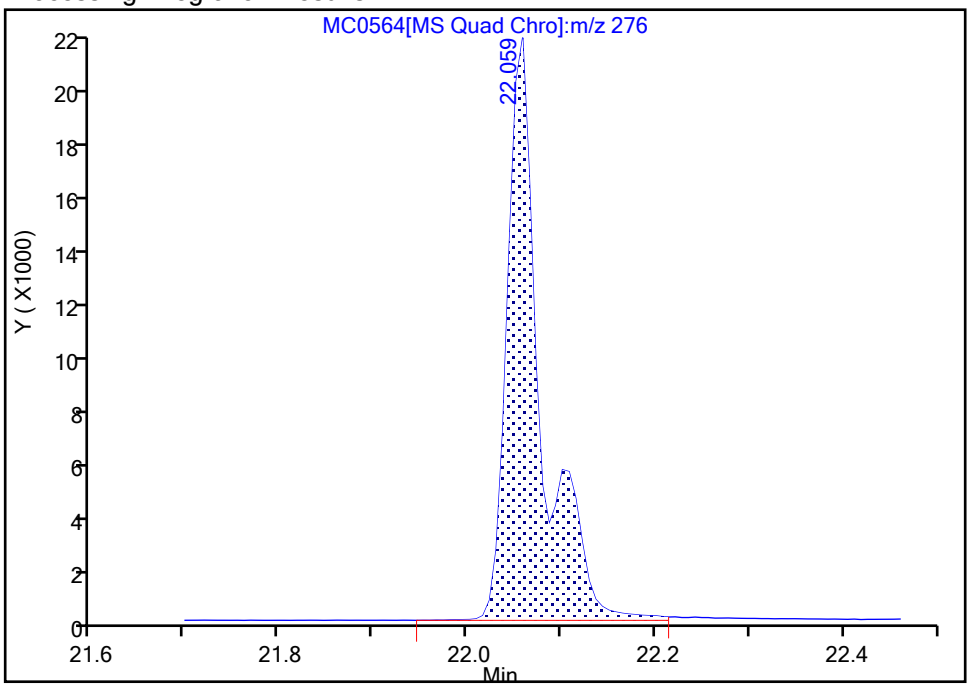
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0564.D				
Injection Date:	19-Mar-2021 13:06:42	Instrument ID:	HP21585		
Lims ID:	IC L3				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

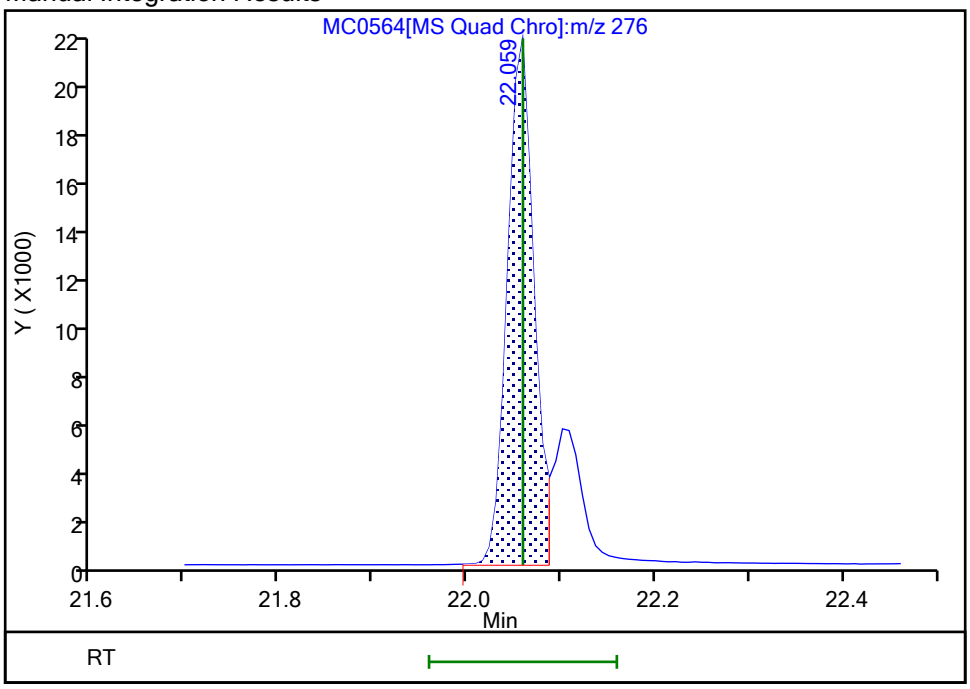
Processing Integration Results

RT: 22.06
Area: 55264
Amount: 0.111727
Amount Units: ug/ml



Manual Integration Results

RT: 22.06
Area: 42687
Amount: 0.096635
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 14:07:21

Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0565.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Mar-2021 13:37:02 ALS Bottle#: 0 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0024536-006
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Mar-2021 16:42:29 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1610

First Level Reviewer: transuea Date: 19-Mar-2021 14:09:17

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	3.303	3.296	0.007	99	5049	0.0500	0.0502	
2 N-Nitrosodimethylamine	74	3.711	3.682	0.029	100	5659	0.0500	0.0489	
3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	73	9973	0.0500	0.0521	
* 4 1,4-Dichlorobenzene-d4	152	7.118	7.118	0.000	87	35372	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.034	9.034	0.000	92	121339	0.2500	0.2500	
6 Naphthalene	128	9.055	9.055	0.000	93	24797	0.0500	0.0510	
7 Quinoline	129	9.591	9.591	0.000	100	15599	0.0500	0.0494	
8 2-Methylnaphthalene	142	10.167	10.167	0.000	97	16582	0.0500	0.0496	
$ 9 1-Methylnaphthalene-d10	152	10.265	10.265	0.000	100	13113	0.0500	0.0507	
10 1-Methylnaphthalene	142	10.314	10.314	0.000	97	16527	0.0500	0.0507	
11 Dimethyl phthalate	163	11.426	11.426	0.000	96	184683	0.5000	0.5061	
12 Acenaphthylene	152	11.573	11.573	0.000	100	24941	0.0500	0.0487	
* 13 Acenaphthene-d10	164	11.769	11.768	0.001	97	70540	0.2500	0.2500	
14 Acenaphthene	154	11.817	11.817	0.000	91	16147	0.0500	0.0489	
16 Diethyl phthalate	149	12.357	12.364	-0.007	99	163413	0.5000	0.4973	
17 Fluorene	166	12.466	12.473	-0.007	99	18711	0.0500	0.0481	
18 N-Nitrosodiphenylamine	169	12.630	12.630	0.000	98	11538	0.0500	0.0471	
19 Hexachlorobenzene	284	13.160	13.160	0.000	96	5953	0.0500	0.0480	
* 20 Phenanthrene-d10	188	13.668	13.668	0.000	96	146142	0.2500	0.2500	
21 Phenanthrene	178	13.699	13.699	0.000	100	29090	0.0500	0.0477	
22 Anthracene	178	13.769	13.769	0.000	100	27901	0.0500	0.0470	
23 Di-n-butyl phthalate	149	14.501	14.501	0.000	100	257218	0.5000	0.4888	
$ 24 Fluoranthene-d10 (Surr)	212	15.372	15.378	-0.006	99	26336	0.0500	0.0468	
25 Fluoranthene	202	15.404	15.404	0.000	100	32128	0.0500	0.0473	
26 Pyrene	202	15.761	15.761	0.000	98	32894	0.0500	0.0477	
27 Butyl benzyl phthalate	149	16.898	16.898	0.000	100	98735	0.5000	0.4840	
28 Benzo[a]anthracene	228	17.803	17.811	-0.008	100	28304	0.0500	0.0472	
* 29 Chrysene-d12	240	17.826	17.826	0.000	56	120185	0.2500	0.2500	
30 Chrysene	228	17.864	17.872	-0.008	100	30746	0.0500	0.0499	
31 Bis(2-ethylhexyl) phthalate	149	17.972	17.972	0.000	97	125286	0.5000	0.4767	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Di-n-octyl phthalate	149	19.145	19.145	0.000	100	201502	0.5000	0.4755	
33 Benzo[b]fluoranthene	252	19.682	19.682	0.000	100	26562	0.0500	0.0485	
34 Benzo[k]fluoranthene	252	19.728	19.728	0.000	100	27887	0.0500	0.0482	
35 Benzo[e]pyrene	252	20.135	20.135	0.000	100	25905	0.0500	0.0483	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.181	20.181	0.000	99	19302	0.0500	0.0469	
37 Benzo[a]pyrene	252	20.219	20.219	0.000	100	24922	0.0500	0.0476	
* 38 Perylene-d12	264	20.311	20.311	0.000	99	118134	0.2500	0.2500	
39 Perylene	252	20.349	20.349	0.000	100	27588	0.0500	0.0508	
40 Indeno[1,2,3-cd]pyrene	276	22.059	22.059	0.000	99	22522	0.0500	0.0451	M
41 Dibenz(a,h)anthracene	278	22.108	22.115	-0.007	97	26781	0.0500	0.0468	
42 Benzo[g,h,i]perylene	276	22.539	22.539	0.000	96	27545	0.0500	0.0464	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_2_00011 Amount Added: 1.00 Units: mL

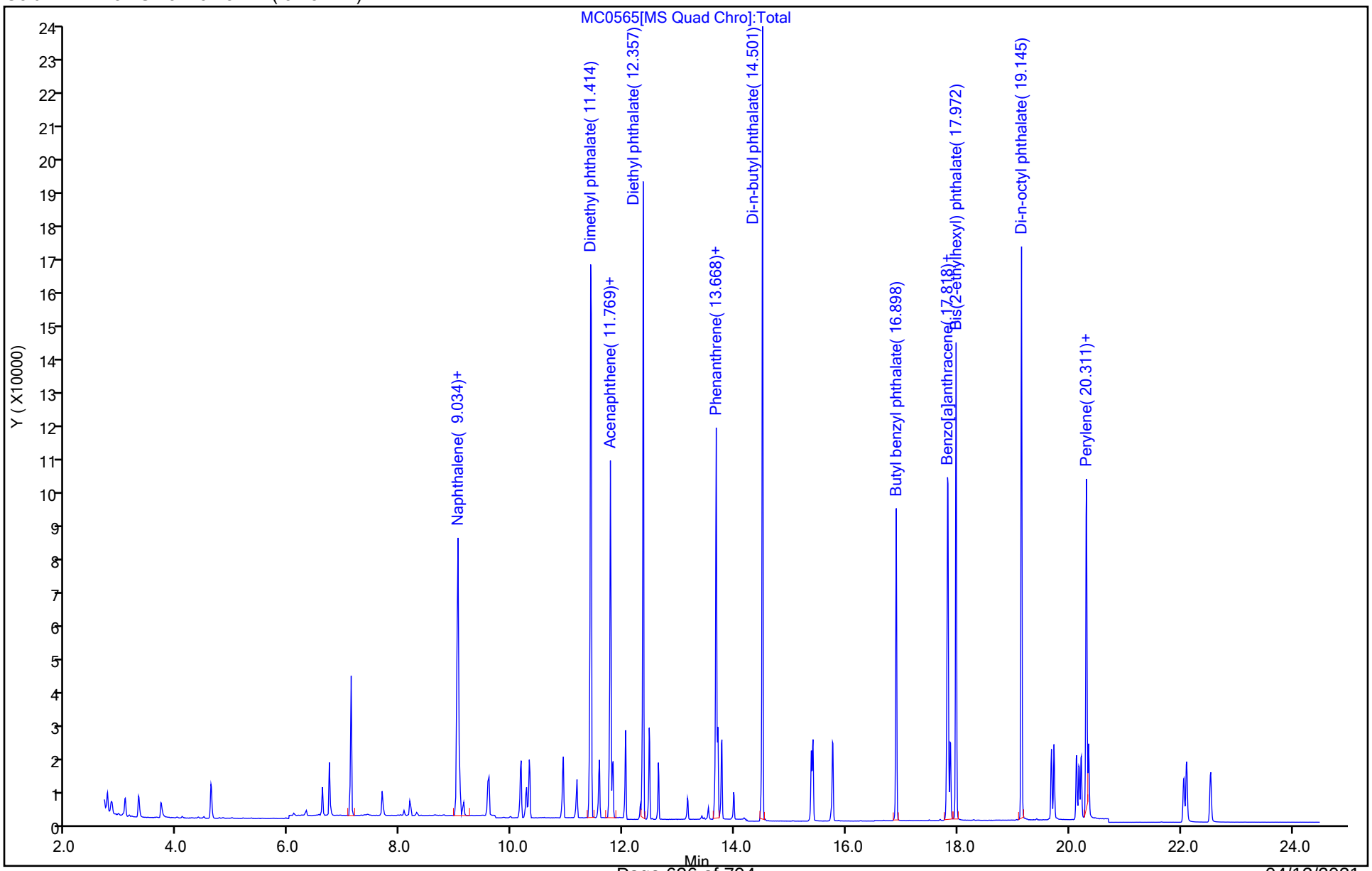
Report Date: 19-Mar-2021 16:42:30 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0565.D

Injection Date:	19-Mar-2021 13:37:02	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)



04/12/2021

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

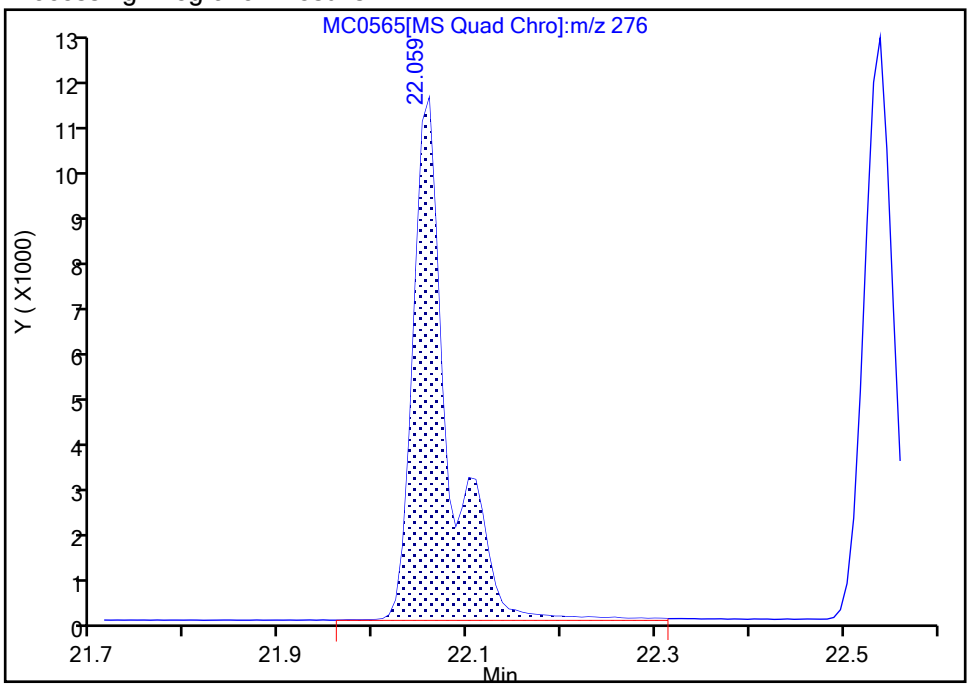
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0565.D				
Injection Date:	19-Mar-2021 13:37:02	Instrument ID:	HP21585		
Lims ID:	IC L2				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

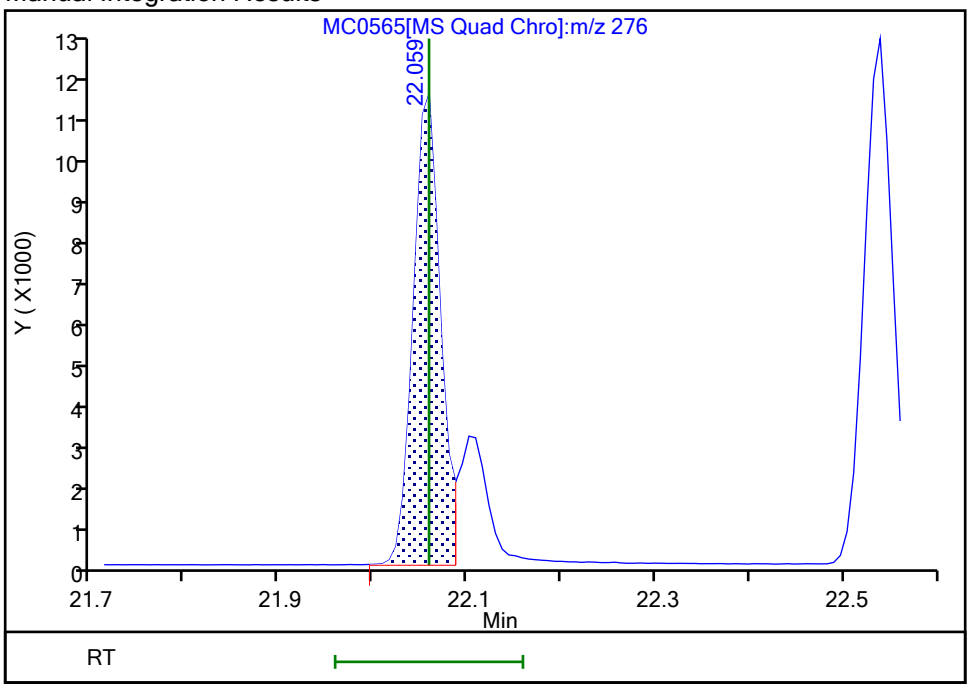
Processing Integration Results

RT: 22.06
Area: 29550
Amount: 0.055026
Amount Units: ug/ml



Manual Integration Results

RT: 22.06
Area: 22522
Amount: 0.045110
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 14:09:08

Audit Action: Manually Integrated Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Mar-2021 15:33:31 ALS Bottle#: 0 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0024536-007
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Mar-2021 16:42:35 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1610

First Level Reviewer: transuea Date: 19-Mar-2021 16:07:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.318	3.318	0.000	95	1015	0.0100	0.0111	M
2 N-Nitrosodimethylamine	74	3.726	3.726	0.000	99	1106	0.0100	0.0105	
3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	71	1828	0.0100	0.0104	
* 4 1,4-Dichlorobenzene-d4	152	7.117	7.117	0.000	87	32239	0.2500	0.2500	
* 5 Naphthalene-d8	136	9.034	9.034	0.000	92	111078	0.2500	0.2500	
6 Naphthalene	128	9.055	9.055	0.000	93	4640	0.0100	0.0104	
7 Quinoline	129	9.591	9.591	0.000	99	2890	0.0100	0.0100	
8 2-Methylnaphthalene	142	10.167	10.167	0.000	97	3028	0.0100	0.0099	
$ 9 1-Methylnaphthalene-d10	152	10.264	10.264	0.000	100	2435	0.0100	0.0103	
10 1-Methylnaphthalene	142	10.313	10.313	0.000	98	2991	0.0100	0.0100	
11 Dimethyl phthalate	163	11.426	11.426	0.000	100	85377	0.2500	0.2545	
12 Acenaphthylene	152	11.573	11.573	0.000	100	4467	0.0100	0.009496	
* 13 Acenaphthene-d10	164	11.768	11.768	0.000	96	64849	0.2500	0.2500	
14 Acenaphthene	154	11.817	11.817	0.000	90	3130	0.0100	0.0103	
16 Diethyl phthalate	149	12.356	12.356	0.000	100	75298	0.2500	0.2493	
17 Fluorene	166	12.473	12.473	0.000	99	3405	0.0100	0.009528	
18 N-Nitrosodiphenylamine	169	12.637	12.637	0.000	98	2286	0.0100	0.0106	
19 Hexachlorobenzene	284	13.160	13.160	0.000	99	1013	0.0100	0.009255	
* 20 Phenanthrene-d10	188	13.668	13.668	0.000	96	128948	0.2500	0.2500	
21 Phenanthrene	178	13.699	13.699	0.000	100	5305	0.0100	0.009867	
22 Anthracene	178	13.769	13.769	0.000	100	4811	0.0100	0.009178	
23 Di-n-butyl phthalate	149	14.501	14.501	0.000	100	107930	0.2500	0.2325	
$ 24 Fluoranthene-d10 (Surr)	212	15.378	15.378	0.000	98	4621	0.0100	0.009298	
25 Fluoranthene	202	15.403	15.403	0.000	99	5549	0.0100	0.009255	
26 Pyrene	202	15.761	15.761	0.000	98	5990	0.0100	0.009474	
27 Butyl benzyl phthalate	149	16.898	16.898	0.000	100	40480	0.2500	0.2166	
28 Benzo[a]anthracene	228	17.810	17.810	0.000	100	5233	0.0100	0.009525	
* 29 Chrysene-d12	240	17.826	17.826	0.000	58	110111	0.2500	0.2500	
30 Chrysene	228	17.872	17.872	0.000	100	5480	0.0100	0.009712	
31 Bis(2-ethylhexyl) phthalate	149	17.972	17.972	0.000	98	48766	0.2500	0.2025	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Di-n-octyl phthalate	149	19.145	19.145	0.000	100	78486	0.2500	0.2143	
33 Benzo[b]fluoranthene	252	19.682	19.682	0.000	100	4525	0.0100	0.009566	
34 Benzo[k]fluoranthene	252	19.728	19.728	0.000	100	4693	0.0100	0.009393	
35 Benzo[e]pyrene	252	20.134	20.134	0.000	100	4436	0.0100	0.009566	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.180	20.180	0.000	99	3288	0.0100	0.009250	
37 Benzo[a]pyrene	252	20.219	20.219	0.000	100	4077	0.0100	0.009018	
* 38 Perylene-d12	264	20.311	20.311	0.000	99	102084	0.2500	0.2500	
39 Perylene	252	20.349	20.349	0.000	100	4456	0.0100	0.009491	
40 Indeno[1,2,3-cd]pyrene	276	22.059	22.059	0.000	99	3898	0.0100	0.009035	M
41 Dibenz(a,h)anthracene	278	22.108	22.108	0.000	92	4557	0.0100	0.009213	
42 Benzo[g,h,i]perylene	276	22.539	22.539	0.000	96	4910	0.0100	0.009563	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_1_00010 Amount Added: 1.00 Units: mL

Report Date: 19-Mar-2021 16:42:35 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Injection Date: 19-Mar-2021 15:33:31 Instrument ID: HP21585 Operator ID: jmg00346

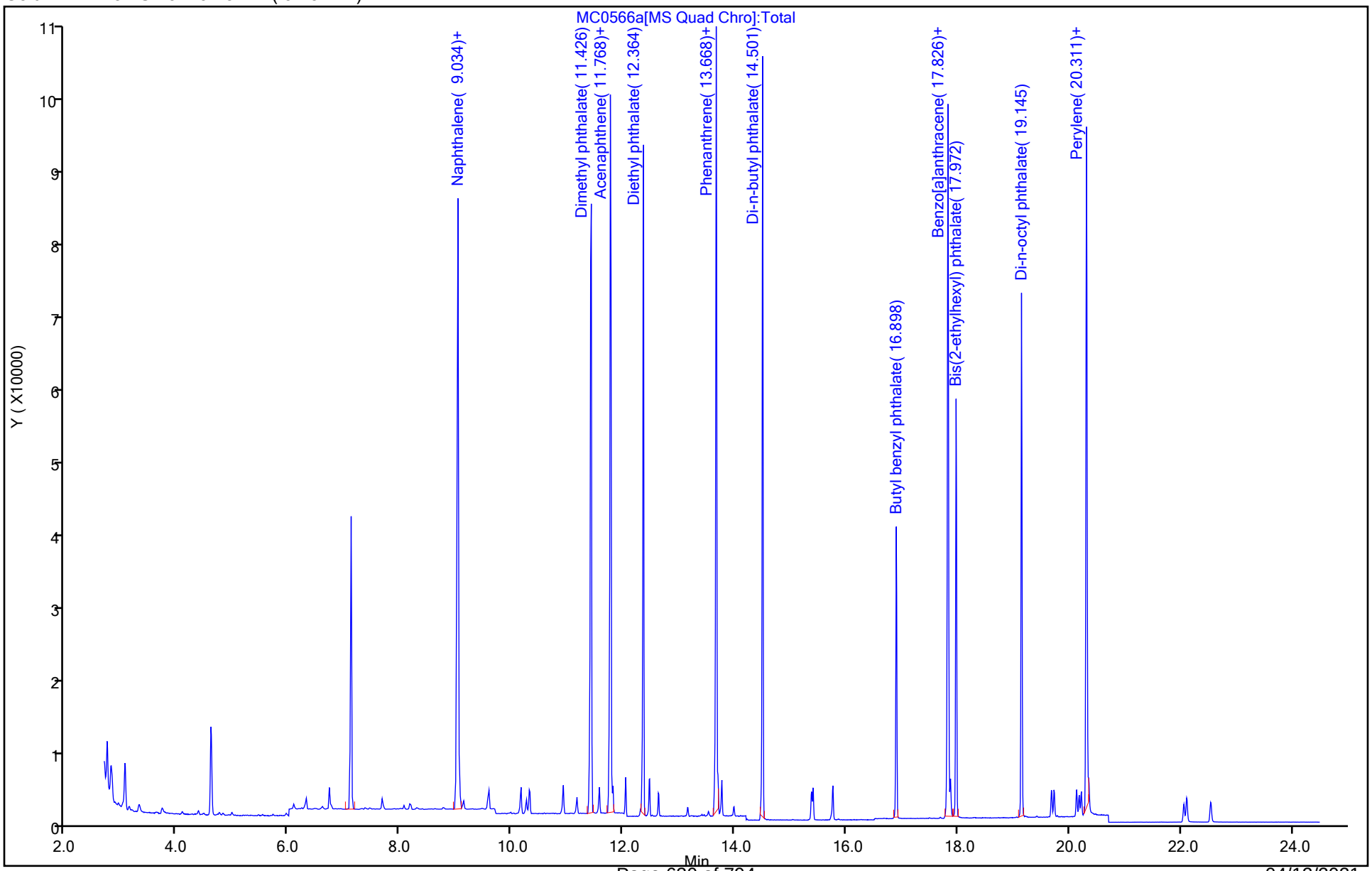
Lims ID: IC L1 Worklist Smp#: 7

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

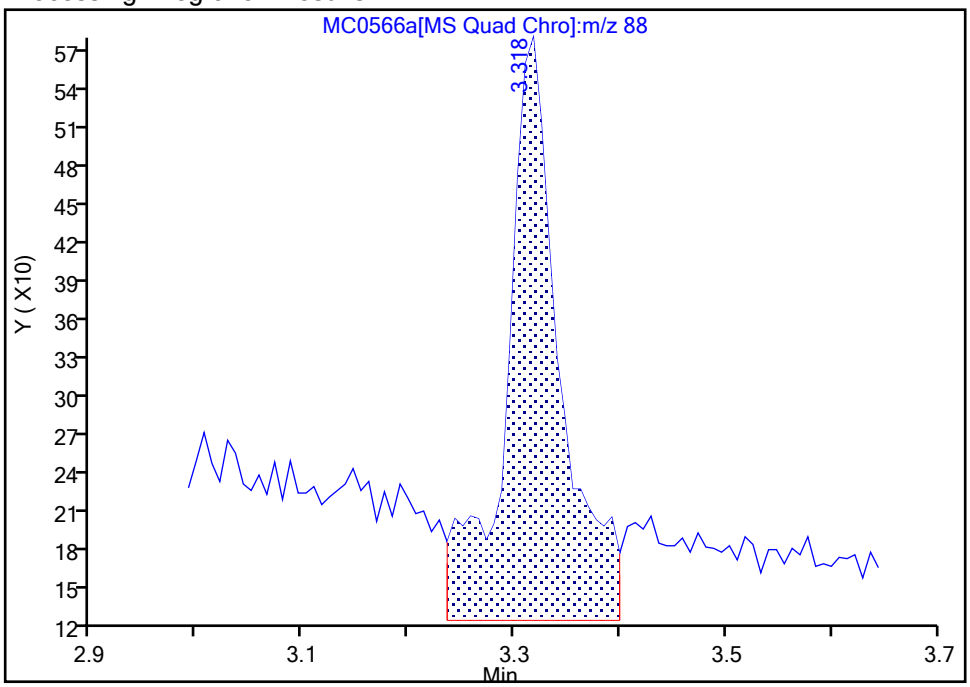
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D				
Injection Date:	19-Mar-2021 15:33:31	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

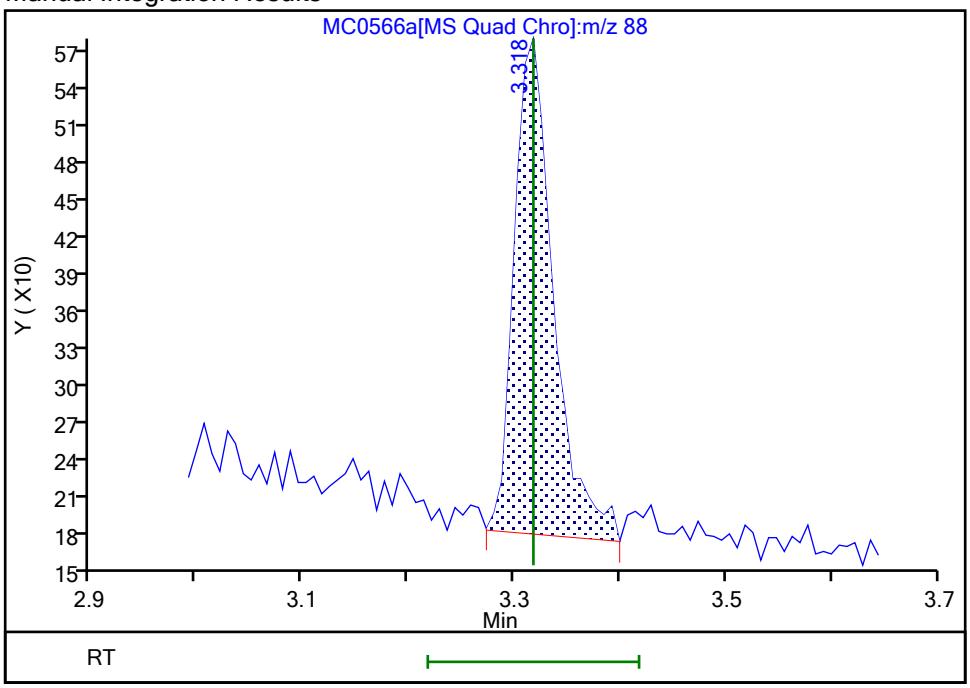
Processing Integration Results

RT: 3.32
Area: 1609
Amount: 0.012188
Amount Units: ug/ml



Manual Integration Results

RT: 3.32
Area: 1015
Amount: 0.011078
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 16:04:47

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

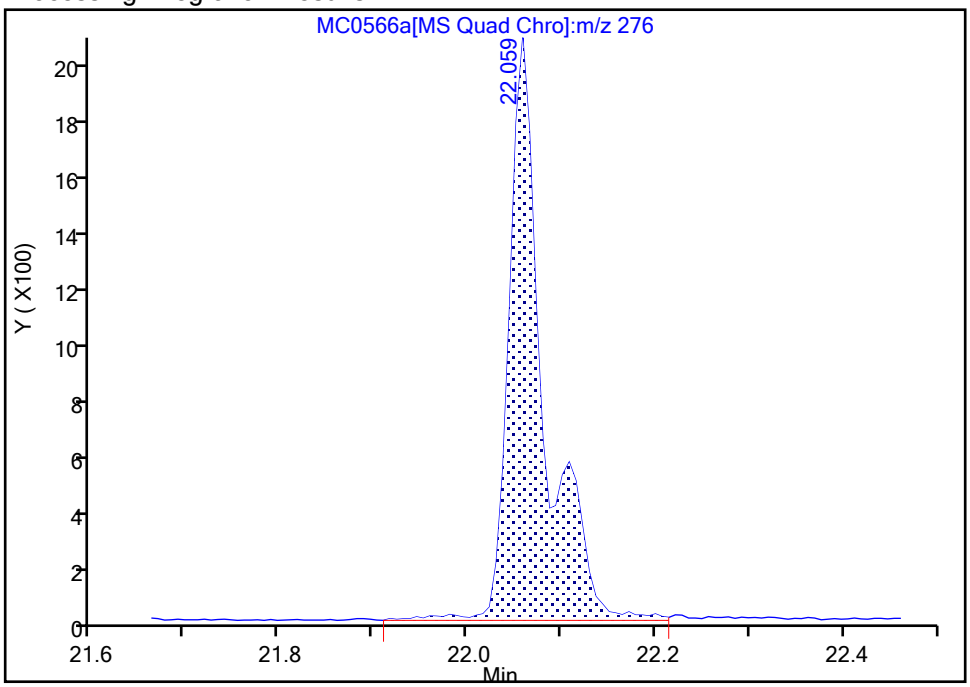
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D				
Injection Date:	19-Mar-2021 15:33:31	Instrument ID:	HP21585		
Lims ID:	IC L1				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

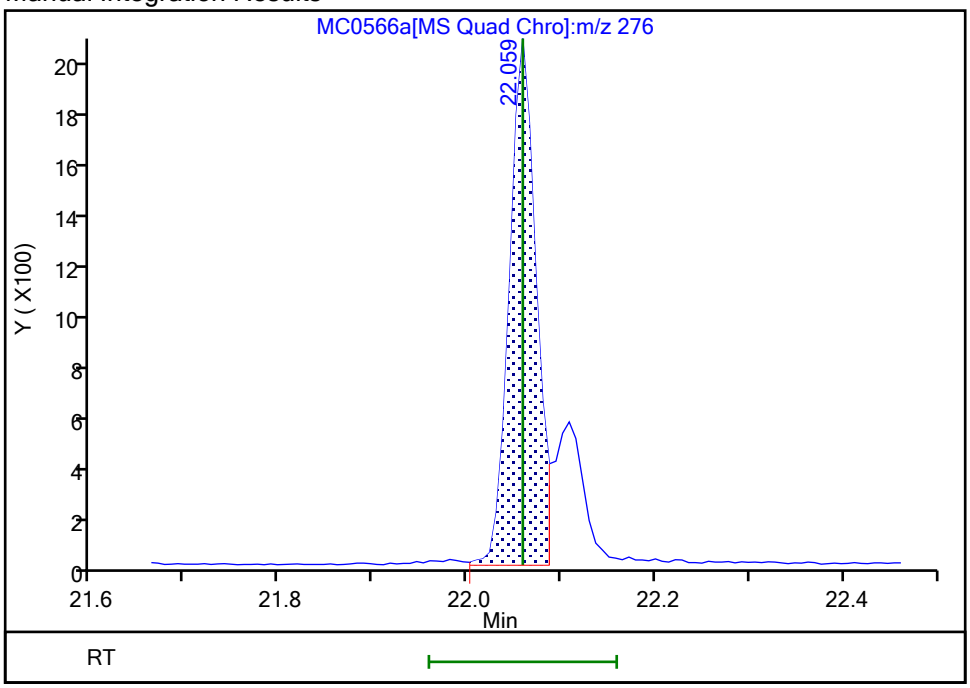
Processing Integration Results

RT: 22.06
Area: 5183
Amount: 0.011445
Amount Units: ug/ml



Manual Integration Results

RT: 22.06
Area: 3898
Amount: 0.009035
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 16:05:25

Audit Action: Manually Integrated Audit Reason: Split Peak

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

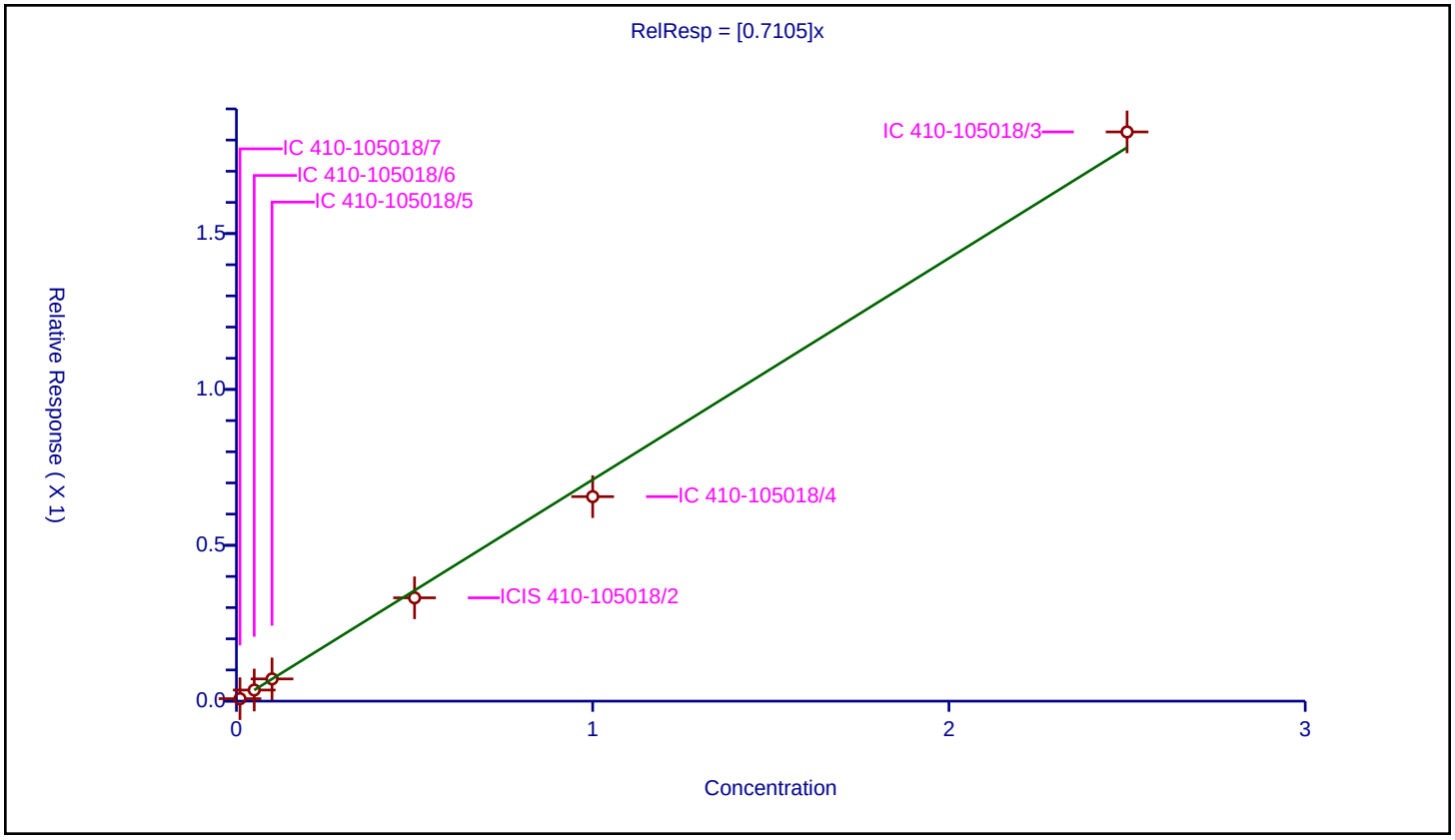
Curve Coefficients

Intercept:	0
Slope:	0.7105

Error Coefficients

Standard Error:	120000
Relative Standard Error:	6.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.007871	0.25	32239.0	0.78709	Y
2	IC 410-105018/6	0.05	0.035685	0.25	35372.0	0.7137	Y
3	IC 410-105018/5	0.1	0.071267	0.25	31140.0	0.712669	Y
4	ICIS 410-105018/2	0.5	0.331456	0.25	32987.0	0.662913	Y
5	IC 410-105018/4	1.0	0.656128	0.25	36752.0	0.656128	Y
6	IC 410-105018/3	2.5	1.826056	0.25	33666.0	0.730422	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

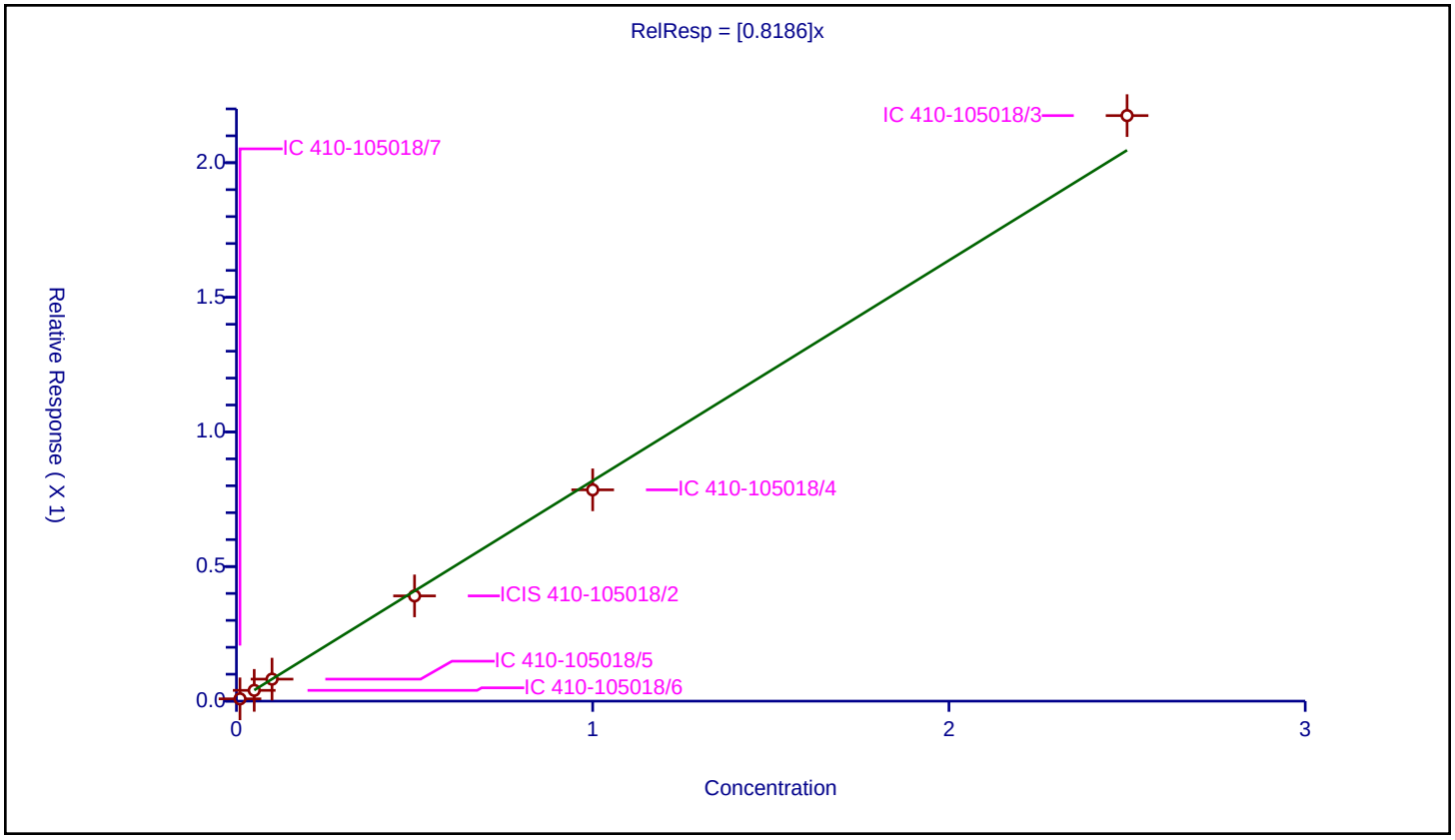
Curve Coefficients

Intercept:	0
Slope:	0.8186

Error Coefficients

Standard Error:	143000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.008577	0.25	32239.0	0.857657	Y
2	IC 410-105018/6	0.05	0.039996	0.25	35372.0	0.799926	Y
3	IC 410-105018/5	0.1	0.081728	0.25	31140.0	0.817277	Y
4	ICIS 410-105018/2	0.5	0.390942	0.25	32987.0	0.781884	Y
5	IC 410-105018/4	1.0	0.784882	0.25	36752.0	0.784882	Y
6	IC 410-105018/3	2.5	2.175043	0.25	33666.0	0.870017	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

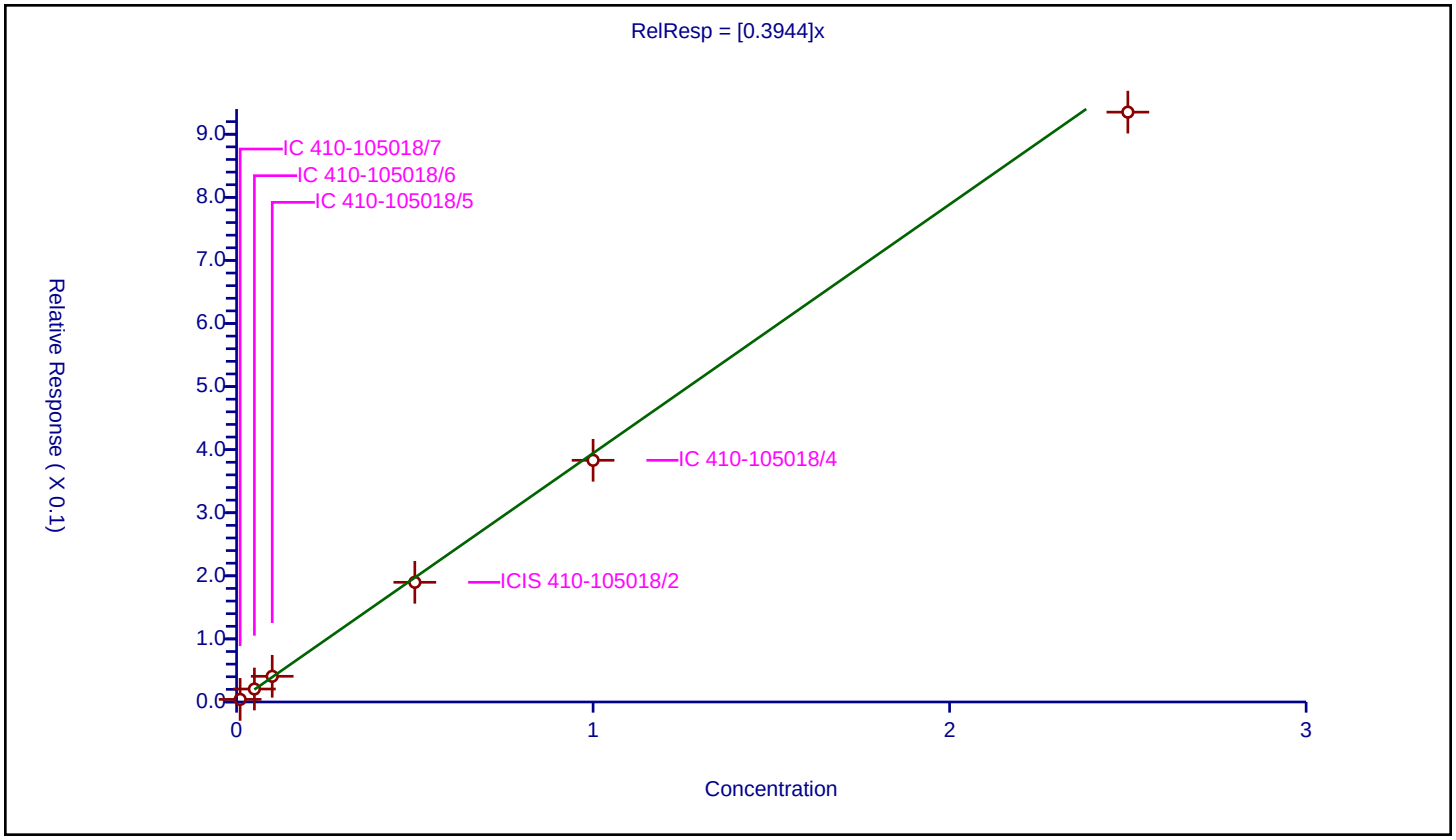
Curve Coefficients

Intercept:	0
Slope:	0.3944

Error Coefficients

Standard Error:	221000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.004114	0.25	111078.0	0.411423	Y
2	IC 410-105018/6	0.05	0.020548	0.25	121339.0	0.410956	Y
3	IC 410-105018/5	0.1	0.040733	0.25	107966.0	0.407327	Y
4	ICIS 410-105018/2	0.5	0.189757	0.25	113498.0	0.379513	Y
5	IC 410-105018/4	1.0	0.383123	0.25	126175.0	0.383123	Y
6	IC 410-105018/3	2.5	0.935062	0.25	119579.0	0.374025	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

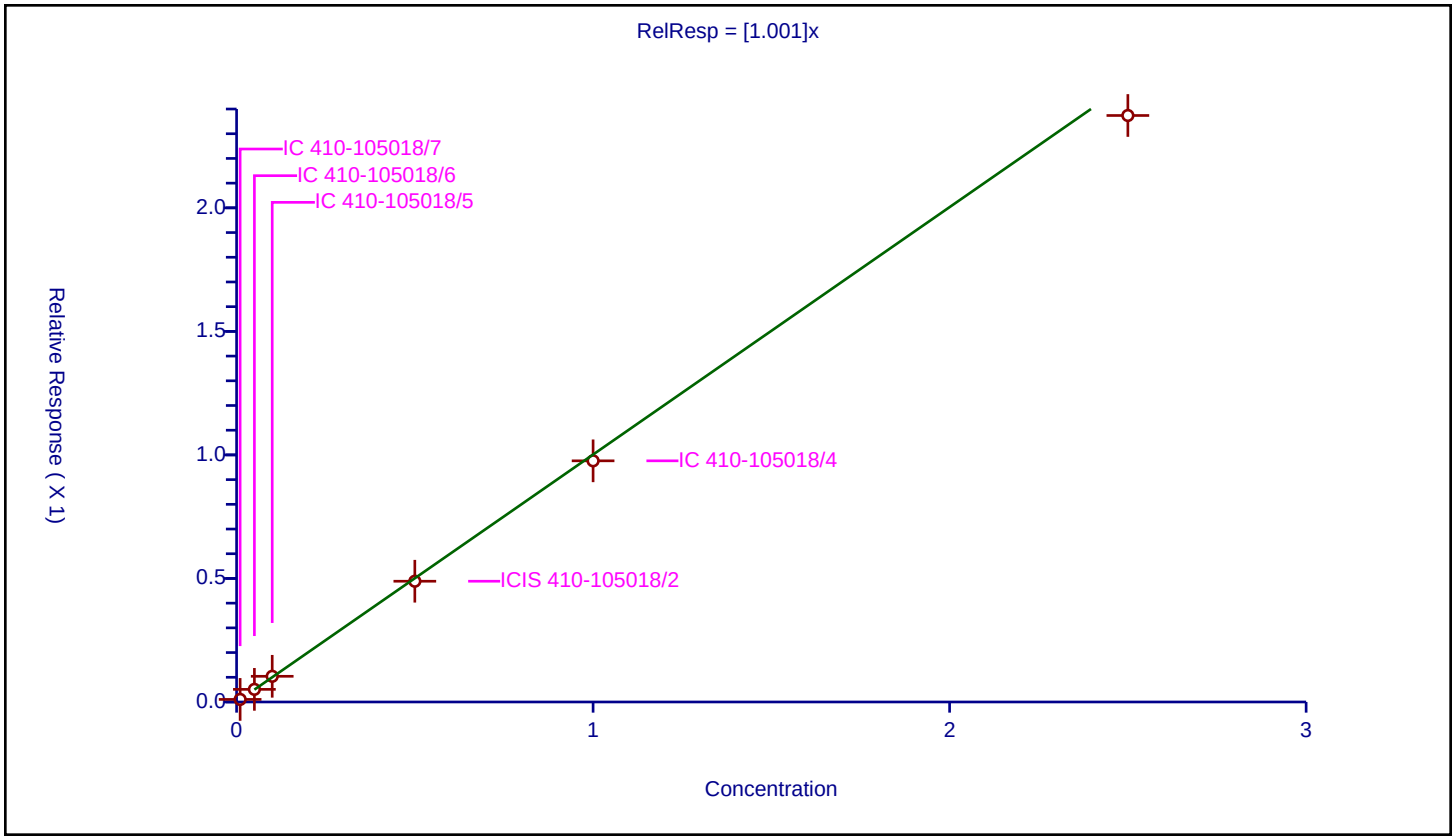
Curve Coefficients

Intercept:	0
Slope:	1.001

Error Coefficients

Standard Error:	563000
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 410-105018/7	0.01	0.010443	0.25	111078.0	1.044311	Y
2	IC 410-105018/6	0.05	0.05109	0.25	121339.0	1.021807	Y
3	IC 410-105018/5	0.1	0.103945	0.25	107966.0	1.039448	Y
4	ICIS 410-105018/2	0.5	0.488769	0.25	113498.0	0.977537	Y
5	IC 410-105018/4	1.0	0.976067	0.25	126175.0	0.976067	Y
6	IC 410-105018/3	2.5	2.373799	0.25	119579.0	0.94952	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

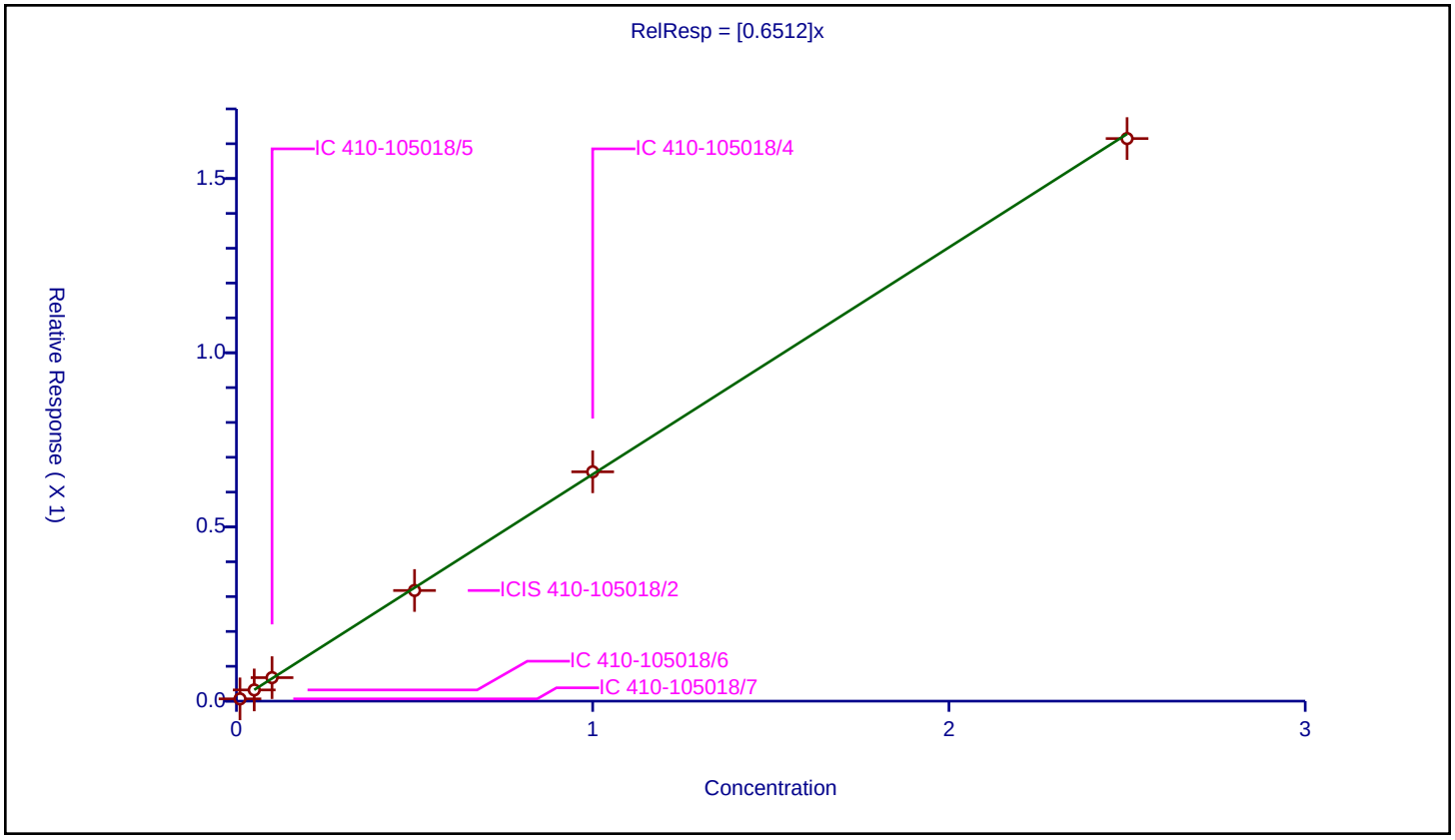
Curve Coefficients

Intercept:	0
Slope:	0.6512

Error Coefficients

Standard Error:	382000
Relative Standard Error:	2.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.006504	0.25	111078.0	0.650444	Y
2	IC 410-105018/6	0.05	0.032139	0.25	121339.0	0.642786	Y
3	IC 410-105018/5	0.1	0.067447	0.25	107966.0	0.674472	Y
4	ICIS 410-105018/2	0.5	0.317649	0.25	113498.0	0.635298	Y
5	IC 410-105018/4	1.0	0.65828	0.25	126175.0	0.65828	Y
6	IC 410-105018/3	2.5	1.614868	0.25	119579.0	0.645947	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

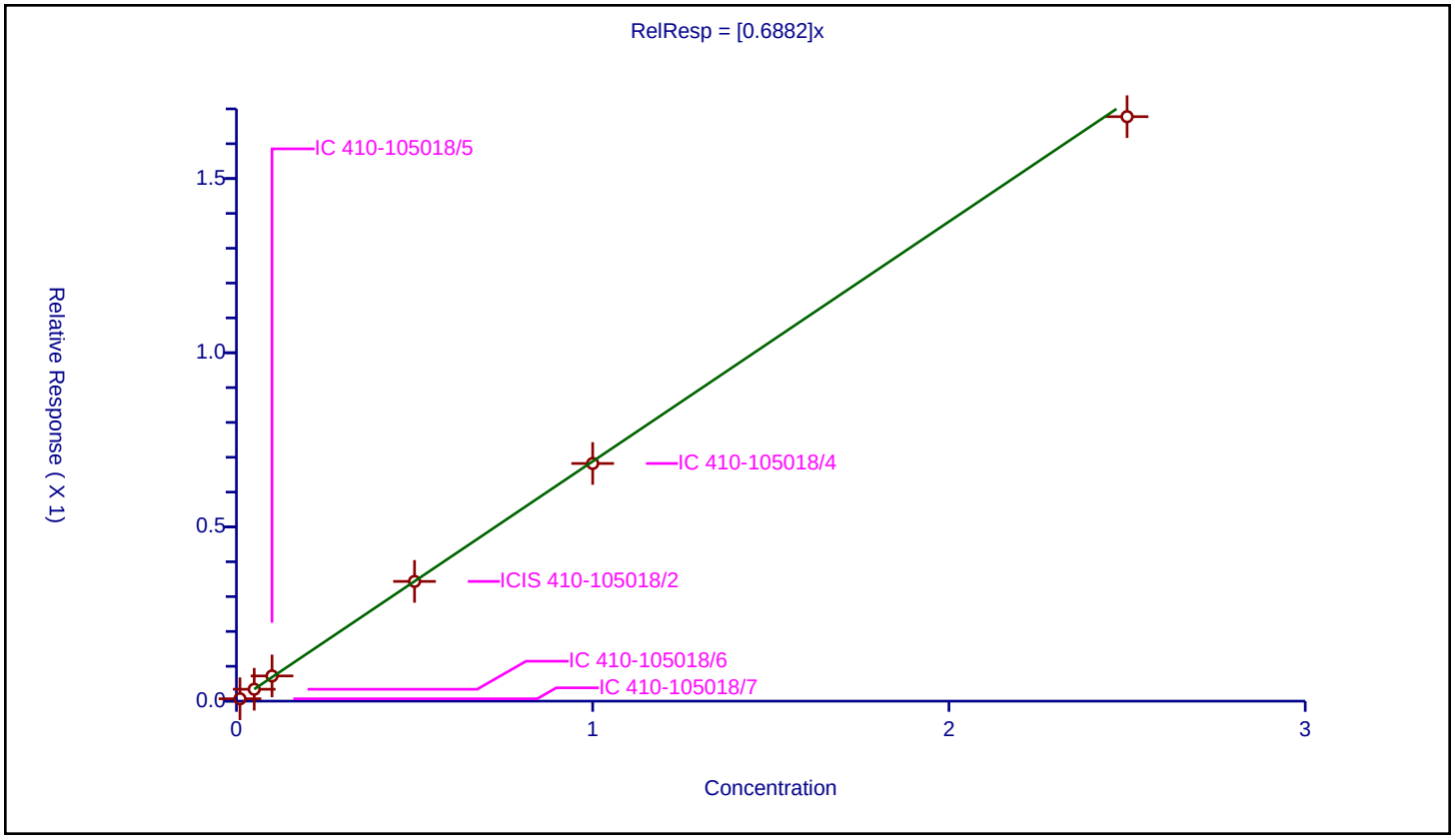
Curve Coefficients

Intercept:	0
Slope:	0.6882

Error Coefficients

Standard Error:	397000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.006815	0.25	111078.0	0.681503	Y
2	IC 410-105018/6	0.05	0.034165	0.25	121339.0	0.683292	Y
3	IC 410-105018/5	0.1	0.072356	0.25	107966.0	0.723561	Y
4	ICIS 410-105018/2	0.5	0.343658	0.25	113498.0	0.687316	Y
5	IC 410-105018/4	1.0	0.682231	0.25	126175.0	0.682231	Y
6	IC 410-105018/3	2.5	1.677665	0.25	119579.0	0.671066	Y



Calibration / 1-Methylnaphthalene-d10

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

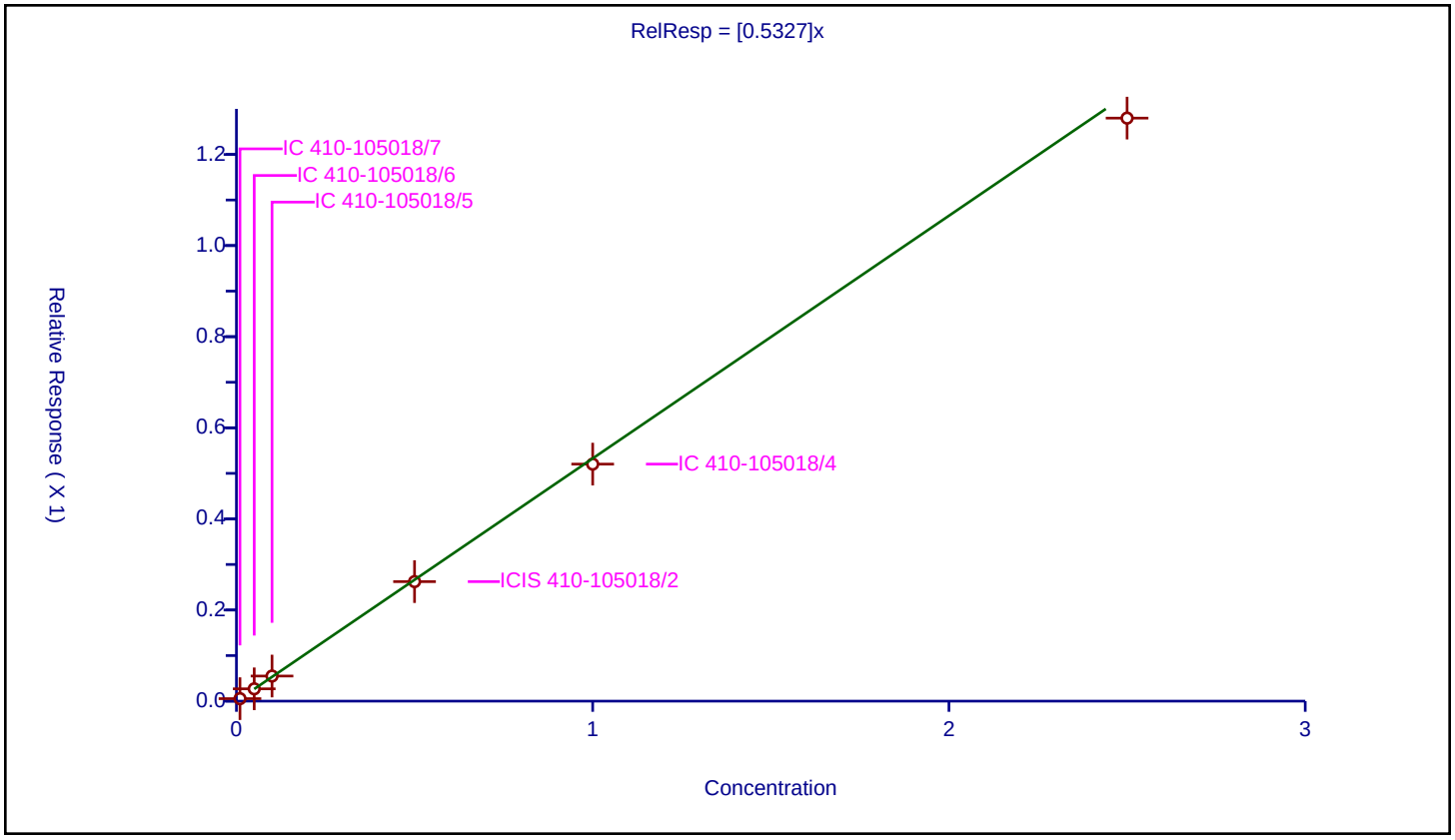
Curve Coefficients

Intercept:	0
Slope:	0.5327

Error Coefficients

Standard Error:	303000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.00548	0.25	111078.0	0.548038	Y
2	IC 410-105018/6	0.05	0.027017	0.25	121339.0	0.540346	Y
3	IC 410-105018/5	0.1	0.055115	0.25	107966.0	0.551146	Y
4	ICIS 410-105018/2	0.5	0.262335	0.25	113498.0	0.52467	Y
5	IC 410-105018/4	1.0	0.520307	0.25	126175.0	0.520307	Y
6	IC 410-105018/3	2.5	1.279754	0.25	119579.0	0.511902	Y



Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

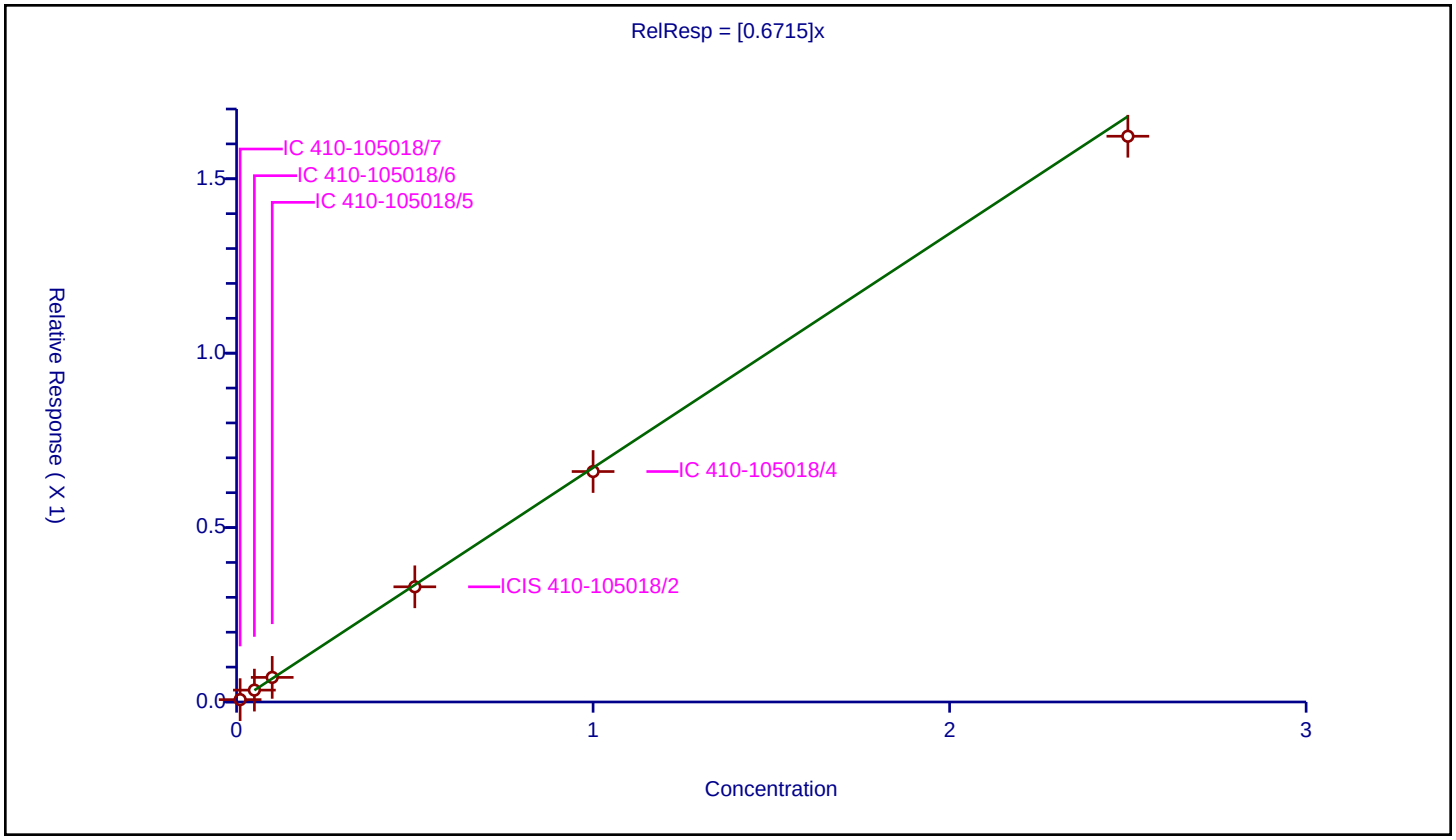
Curve Coefficients

Intercept:	0
Slope:	0.6715

Error Coefficients

Standard Error:	384000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.006732	0.25	111078.0	0.673176	Y
2	IC 410-105018/6	0.05	0.034051	0.25	121339.0	0.681026	Y
3	IC 410-105018/5	0.1	0.070501	0.25	107966.0	0.705014	Y
4	ICIS 410-105018/2	0.5	0.330195	0.25	113498.0	0.66039	Y
5	IC 410-105018/4	1.0	0.660711	0.25	126175.0	0.660711	Y
6	IC 410-105018/3	2.5	1.621957	0.25	119579.0	0.648783	Y



Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

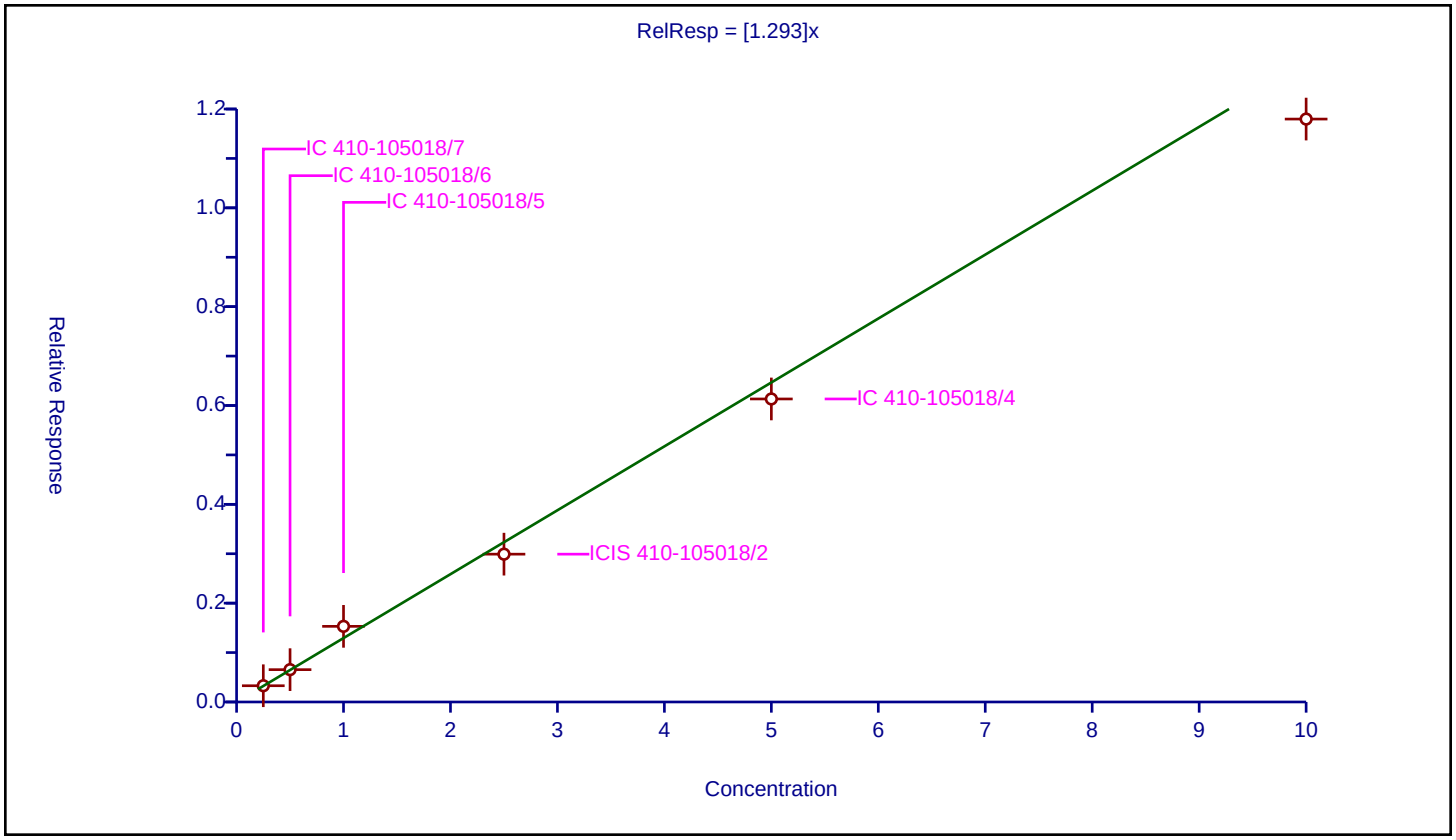
Curve Coefficients

Intercept:	0
Slope:	1.293

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	10.0
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.25	0.329138	0.25	64849.0	1.316551	Y
2	IC 410-105018/6	0.5	0.654533	0.25	70540.0	1.309066	Y
3	IC 410-105018/5	1.0	1.53076	0.25	62939.0	1.53076	Y
4	ICIS 410-105018/2	2.5	2.991787	0.25	65566.0	1.196715	Y
5	IC 410-105018/4	5.0	6.132348	0.25	72128.0	1.22647	Y
6	IC 410-105018/3	10.0	11.796714	0.25	65623.0	1.179671	Y



Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

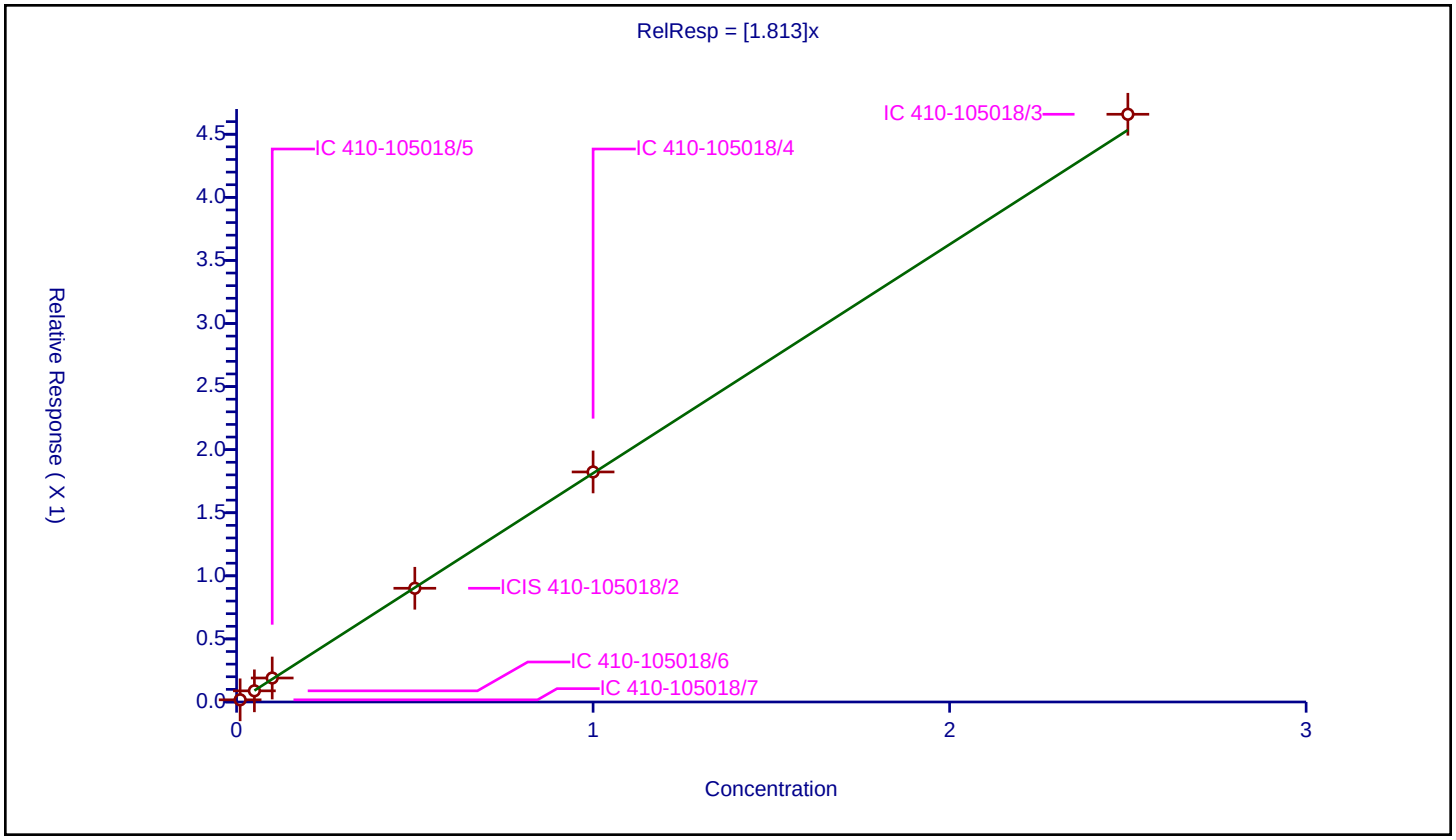
Curve Coefficients

Intercept:	0
Slope:	1.813

Error Coefficients

Standard Error:	605000
Relative Standard Error:	3.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.017221	0.25	64849.0	1.722077	Y
2	IC 410-105018/6	0.05	0.088393	0.25	70540.0	1.767862	Y
3	IC 410-105018/5	0.1	0.190136	0.25	62939.0	1.901365	Y
4	ICIS 410-105018/2	0.5	0.901462	0.25	65566.0	1.802924	Y
5	IC 410-105018/4	1.0	1.823283	0.25	72128.0	1.823283	Y
6	IC 410-105018/3	2.5	4.658397	0.25	65623.0	1.863359	Y



Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

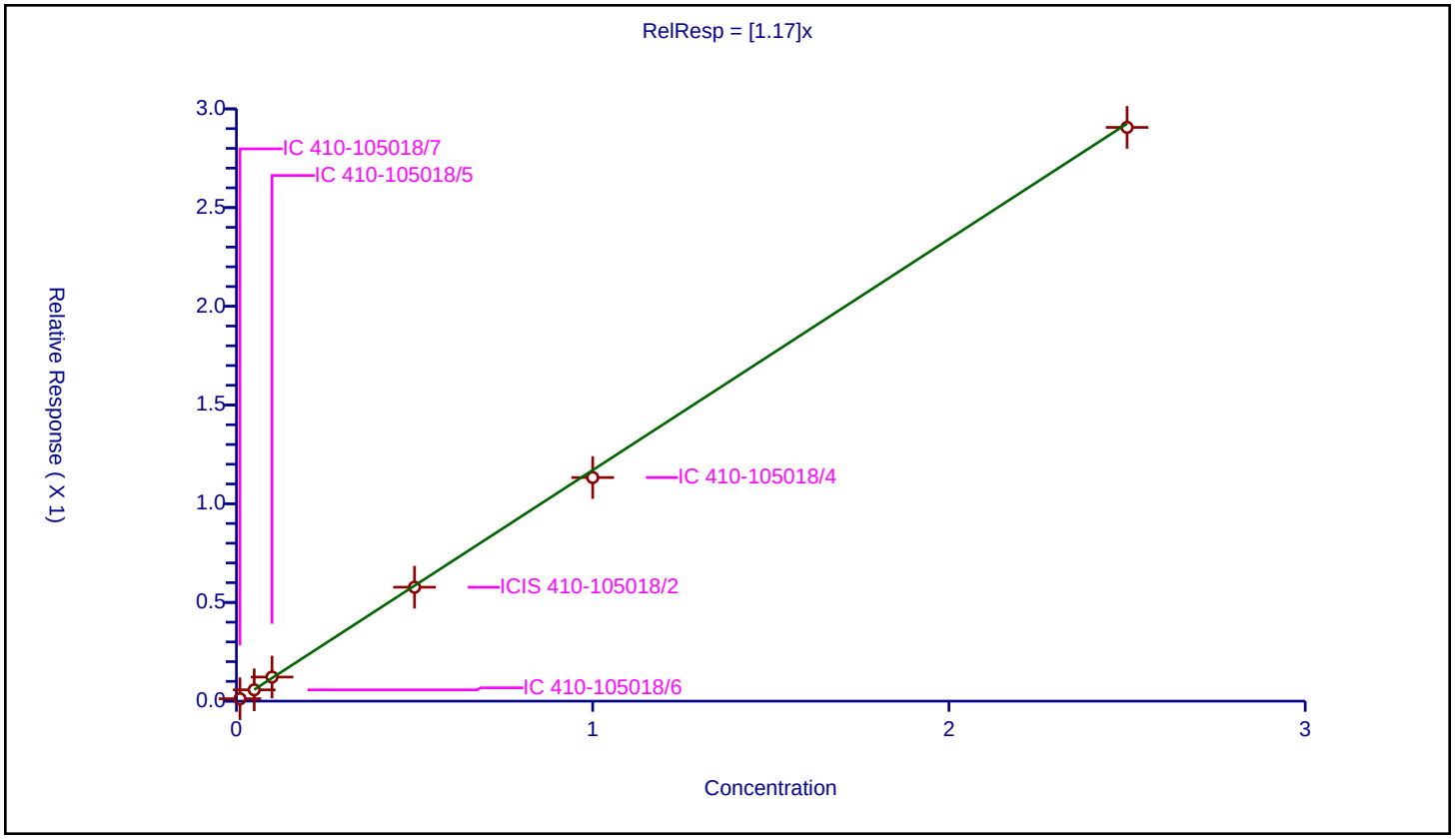
Curve Coefficients

Intercept:	0
Slope:	1.17

Error Coefficients

Standard Error:	378000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.012066	0.25	64849.0	1.206649	Y
2	IC 410-105018/6	0.05	0.057226	0.25	70540.0	1.144528	Y
3	IC 410-105018/5	0.1	0.122031	0.25	62939.0	1.220309	Y
4	ICIS 410-105018/2	0.5	0.577106	0.25	65566.0	1.154211	Y
5	IC 410-105018/4	1.0	1.132611	0.25	72128.0	1.132611	Y
6	IC 410-105018/3	2.5	2.906203	0.25	65623.0	1.162481	Y



Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

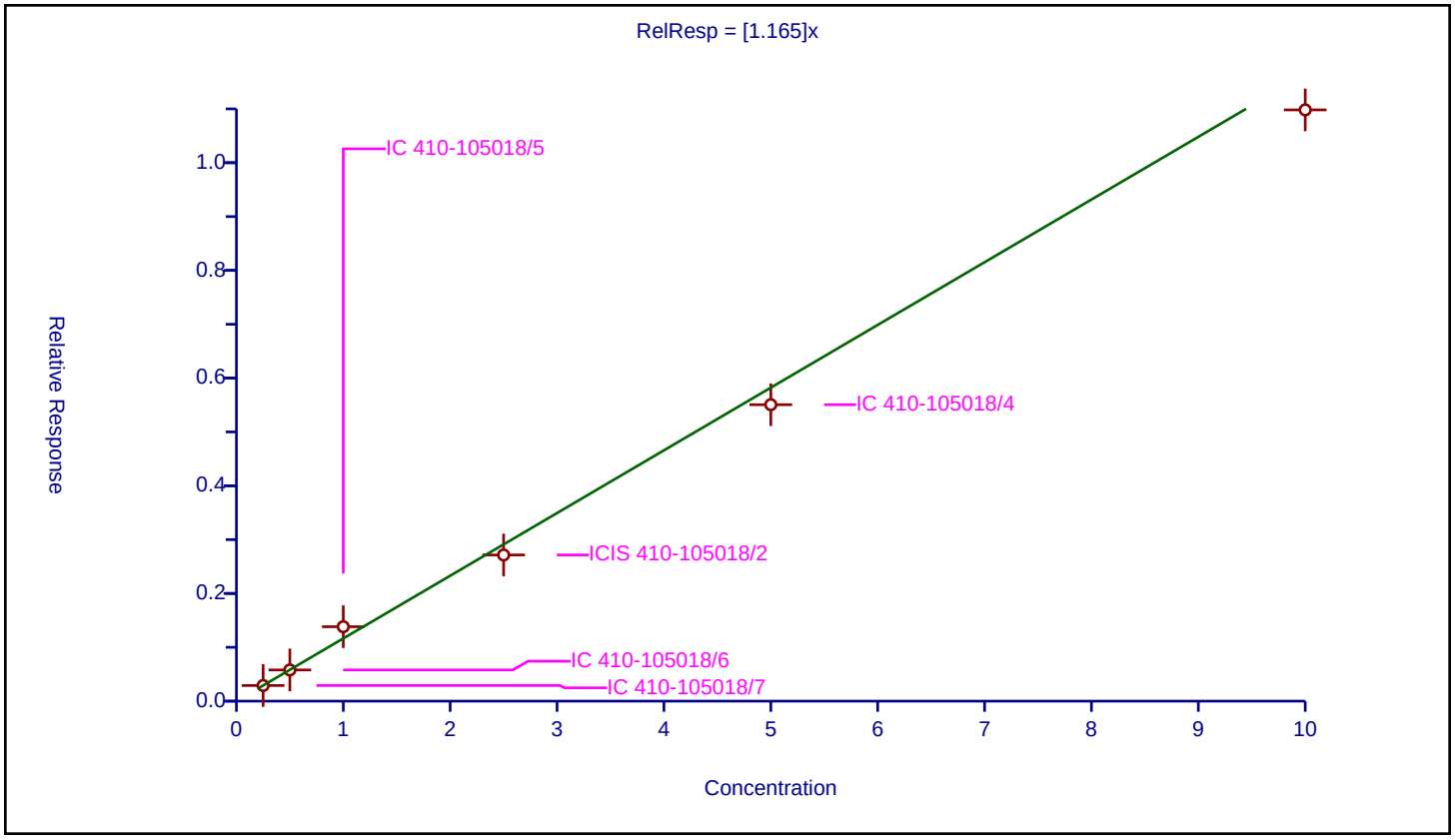
Curve Coefficients

Intercept:	0
Slope:	1.165

Error Coefficients

Standard Error:	1520000
Relative Standard Error:	9.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.25	0.290282	0.25	64849.0	1.161128	Y
2	IC 410-105018/6	0.5	0.57915	0.25	70540.0	1.1583	Y
3	IC 410-105018/5	1.0	1.382211	0.25	62939.0	1.382211	Y
4	ICIS 410-105018/2	2.5	2.715134	0.25	65566.0	1.086054	Y
5	IC 410-105018/4	5.0	5.506128	0.25	72128.0	1.101226	Y
6	IC 410-105018/3	10.0	10.981123	0.25	65623.0	1.098112	Y



Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

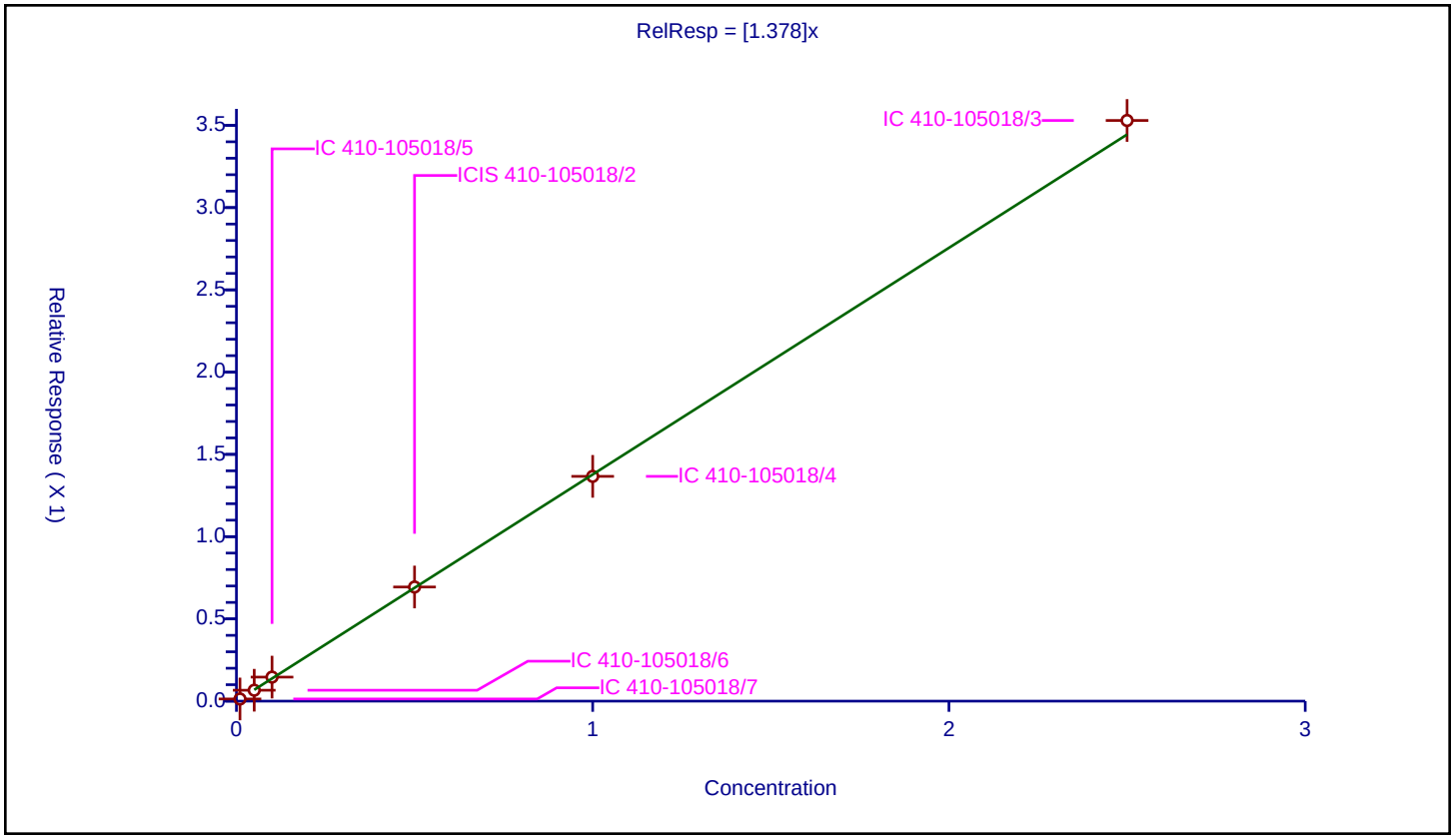
Curve Coefficients

Intercept:	0
Slope:	1.378

Error Coefficients

Standard Error:	458000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.013127	0.25	64849.0	1.312665	Y
2	IC 410-105018/6	0.05	0.066313	0.25	70540.0	1.326269	Y
3	IC 410-105018/5	0.1	0.146161	0.25	62939.0	1.461614	Y
4	ICIS 410-105018/2	0.5	0.693751	0.25	65566.0	1.387503	Y
5	IC 410-105018/4	1.0	1.366307	0.25	72128.0	1.366307	Y
6	IC 410-105018/3	2.5	3.529513	0.25	65623.0	1.411805	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

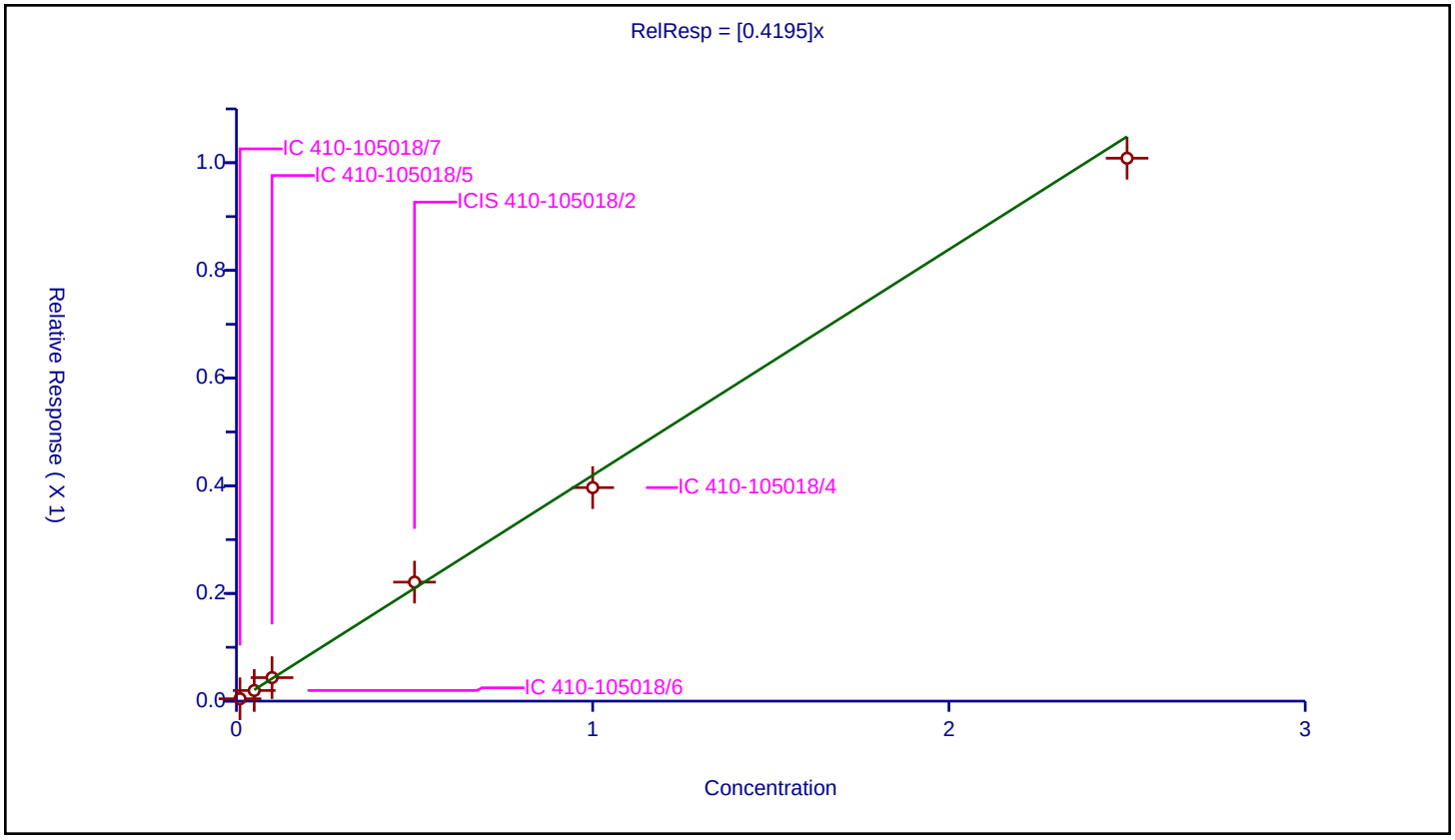
Curve Coefficients

Intercept:	0
Slope:	0.4195

Error Coefficients

Standard Error:	251000
Relative Standard Error:	5.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.004432	0.25	128948.0	0.443202	Y
2	IC 410-105018/6	0.05	0.019738	0.25	146142.0	0.394753	Y
3	IC 410-105018/5	0.1	0.043674	0.25	132194.0	0.436744	Y
4	ICIS 410-105018/2	0.5	0.221071	0.25	132628.0	0.442143	Y
5	IC 410-105018/4	1.0	0.396598	0.25	144298.0	0.396598	Y
6	IC 410-105018/3	2.5	1.008382	0.25	123665.0	0.403353	Y



Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

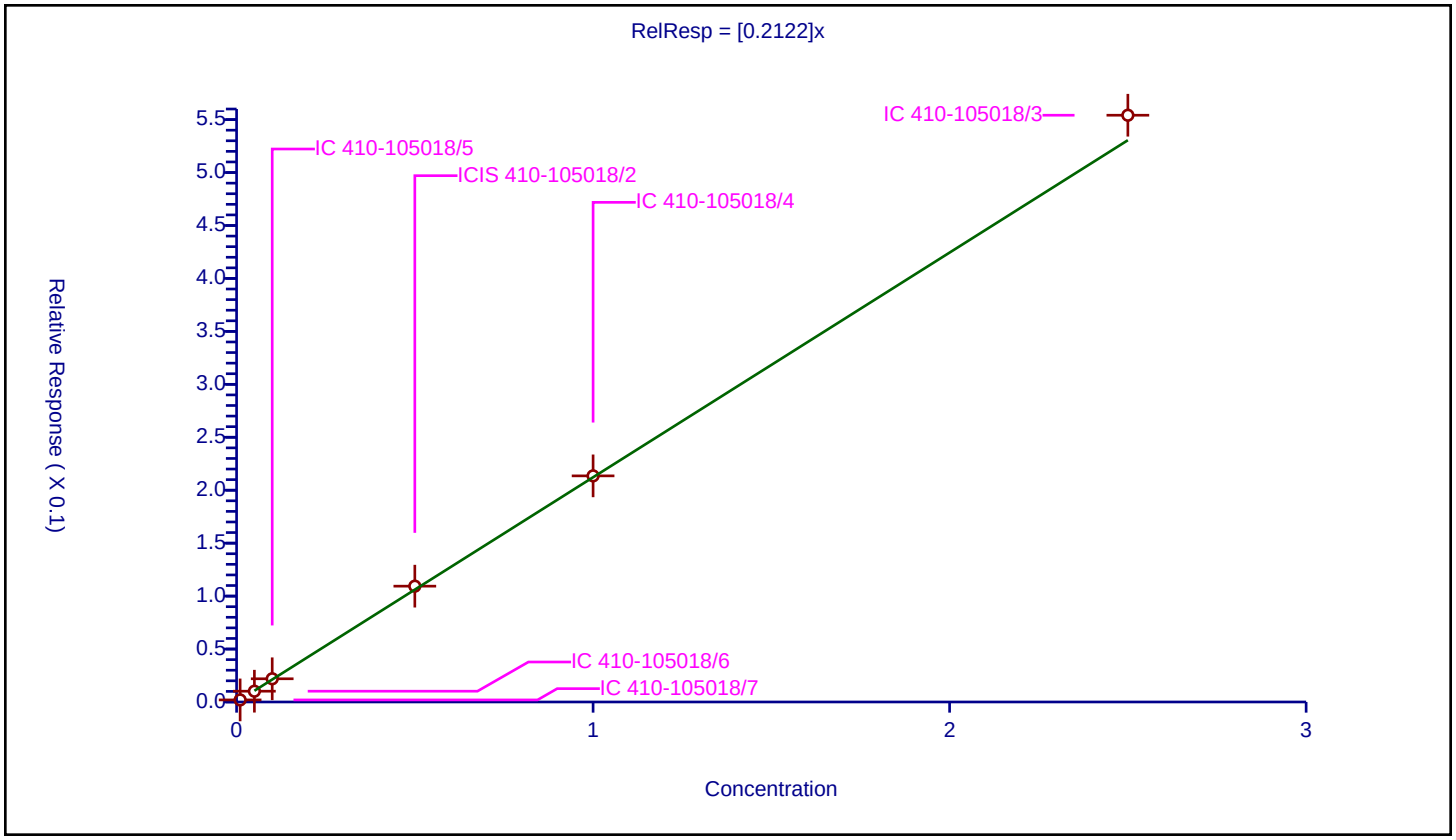
Curve Coefficients

Intercept:	0
Slope:	0.2122

Error Coefficients

Standard Error:	137000
Relative Standard Error:	4.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.001964	0.25	128948.0	0.196397	Y
2	IC 410-105018/6	0.05	0.010184	0.25	146142.0	0.203672	Y
3	IC 410-105018/5	0.1	0.02192	0.25	132194.0	0.219204	Y
4	ICIS 410-105018/2	0.5	0.109389	0.25	132628.0	0.218777	Y
5	IC 410-105018/4	1.0	0.213556	0.25	144298.0	0.213556	Y
6	IC 410-105018/3	2.5	0.554128	0.25	123665.0	0.221651	Y



Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

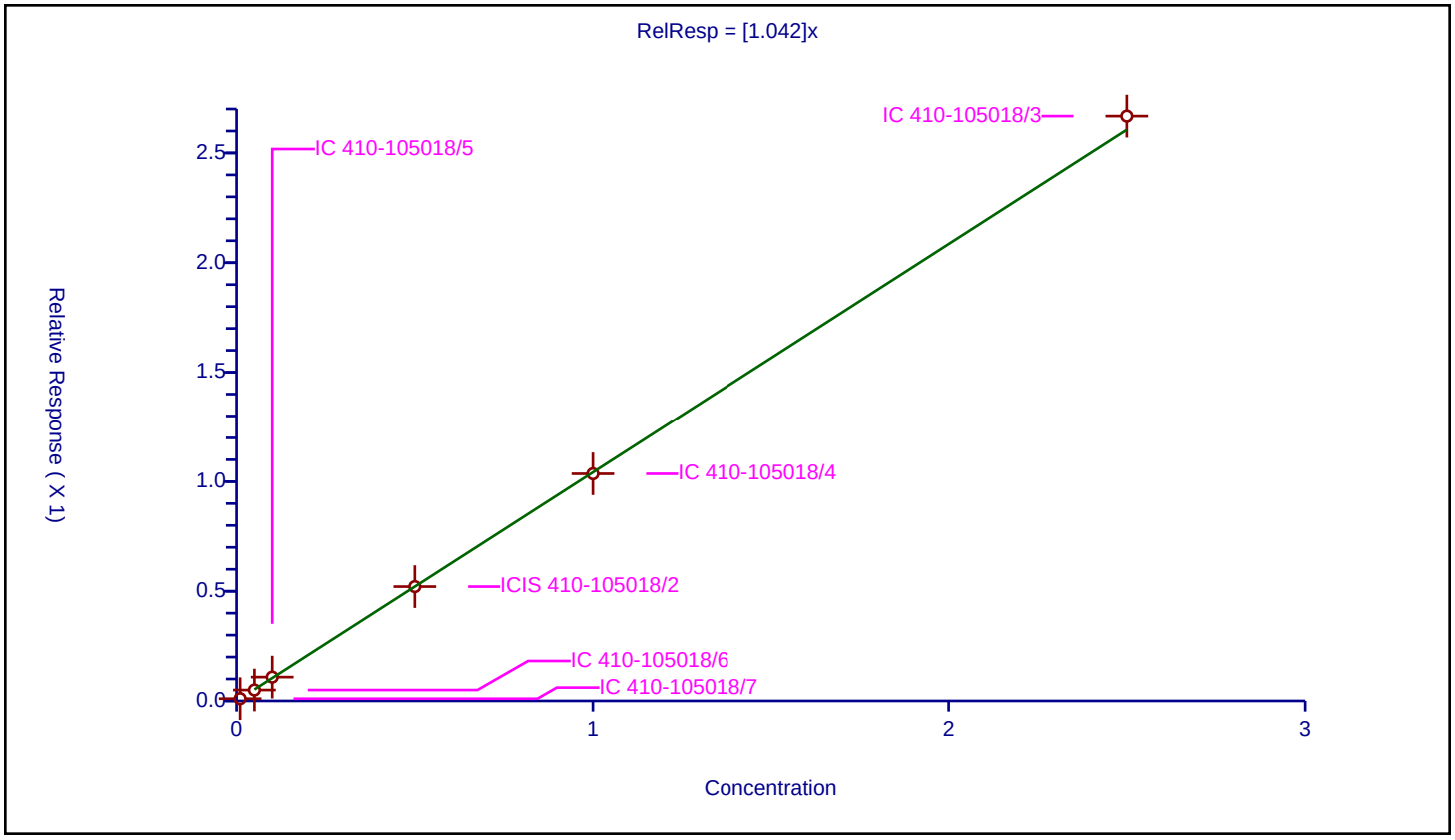
Curve Coefficients

Intercept:	0
Slope:	1.042

Error Coefficients

Standard Error:	660000
Relative Standard Error:	3.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.010285	0.25	128948.0	1.028515	Y
2	IC 410-105018/6	0.05	0.049763	0.25	146142.0	0.995265	Y
3	IC 410-105018/5	0.1	0.108551	0.25	132194.0	1.085507	Y
4	ICIS 410-105018/2	0.5	0.52114	0.25	132628.0	1.04228	Y
5	IC 410-105018/4	1.0	1.035952	0.25	144298.0	1.035952	Y
6	IC 410-105018/3	2.5	2.667655	0.25	123665.0	1.067062	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

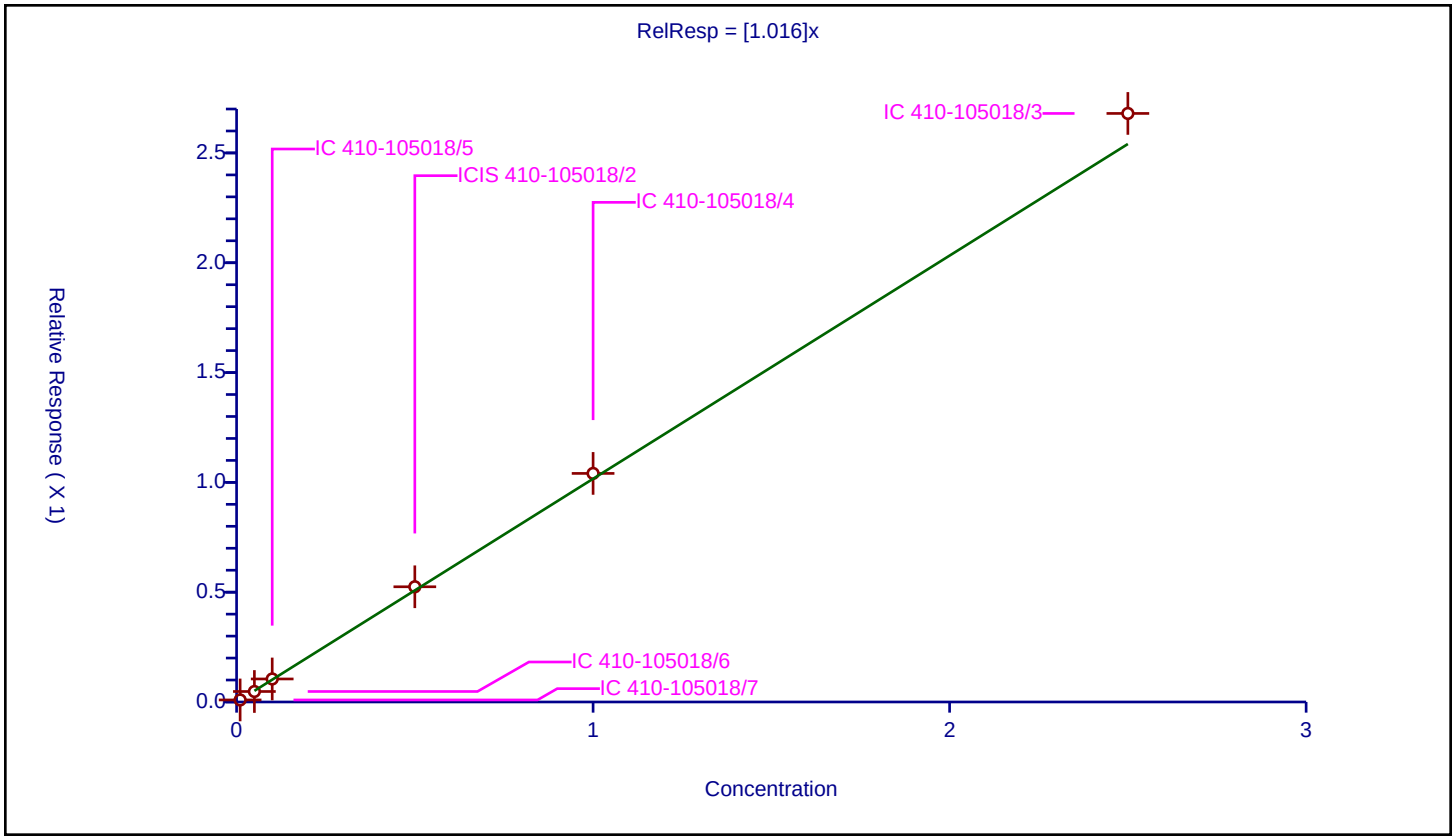
Curve Coefficients

Intercept:	0
Slope:	1.016

Error Coefficients

Standard Error:	663000
Relative Standard Error:	5.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.009327	0.25	128948.0	0.93274	Y
2	IC 410-105018/6	0.05	0.047729	0.25	146142.0	0.954585	Y
3	IC 410-105018/5	0.1	0.104835	0.25	132194.0	1.048346	Y
4	ICIS 410-105018/2	0.5	0.52462	0.25	132628.0	1.049239	Y
5	IC 410-105018/4	1.0	1.040737	0.25	144298.0	1.040737	Y
6	IC 410-105018/3	2.5	2.679869	0.25	123665.0	1.071948	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

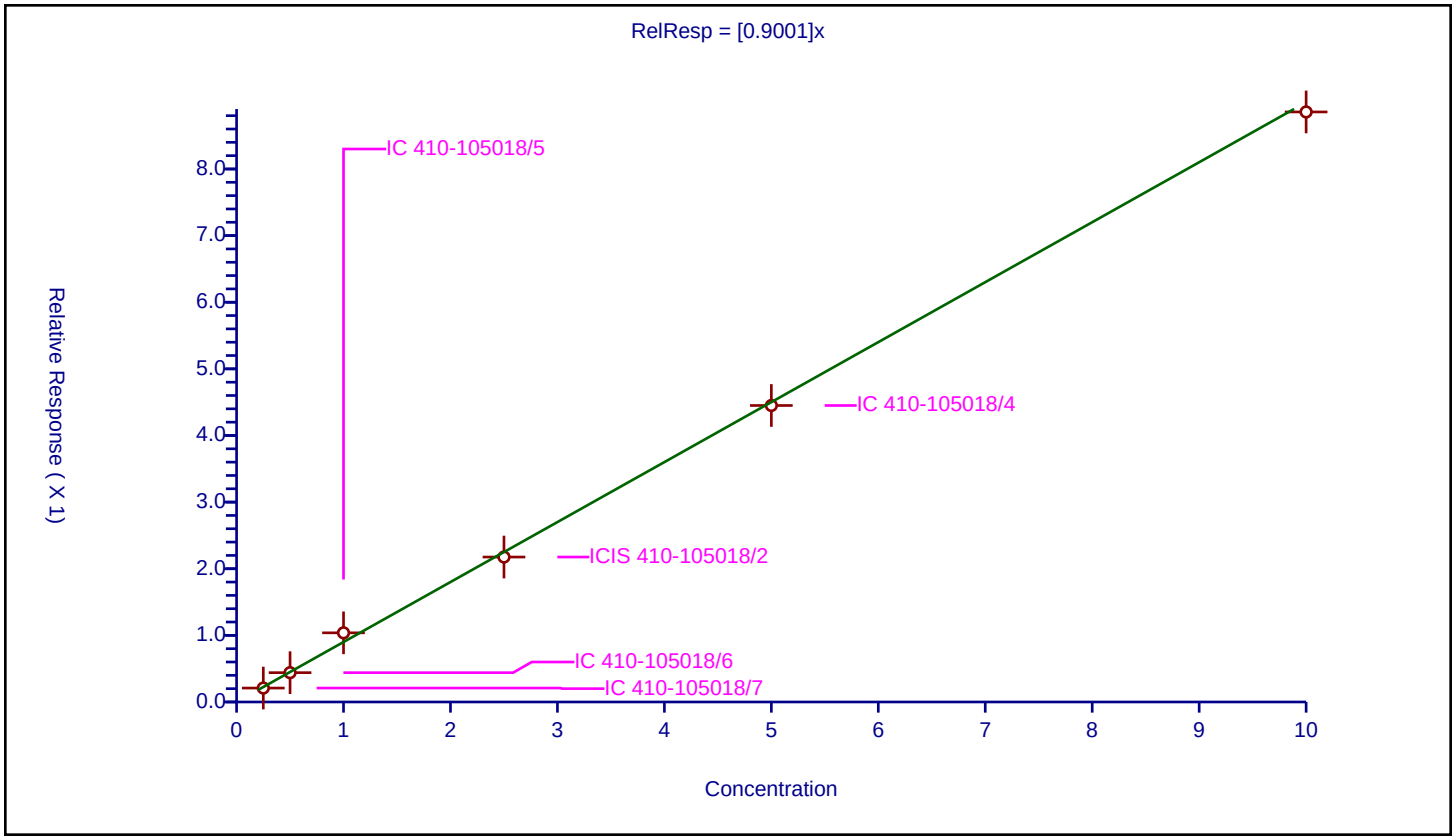
Curve Coefficients

Intercept:	0
Slope:	0.9001

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	7.8
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.25	0.209251	0.25	128948.0	0.837004	Y
2	IC 410-105018/6	0.5	0.440014	0.25	146142.0	0.880028	Y
3	IC 410-105018/5	1.0	1.037857	0.25	132194.0	1.037857	Y
4	ICIS 410-105018/2	2.5	2.175676	0.25	132628.0	0.87027	Y
5	IC 410-105018/4	5.0	4.450183	0.25	144298.0	0.890037	Y
6	IC 410-105018/3	10.0	8.855992	0.25	123665.0	0.885599	Y



Calibration / Fluoranthene-d10 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

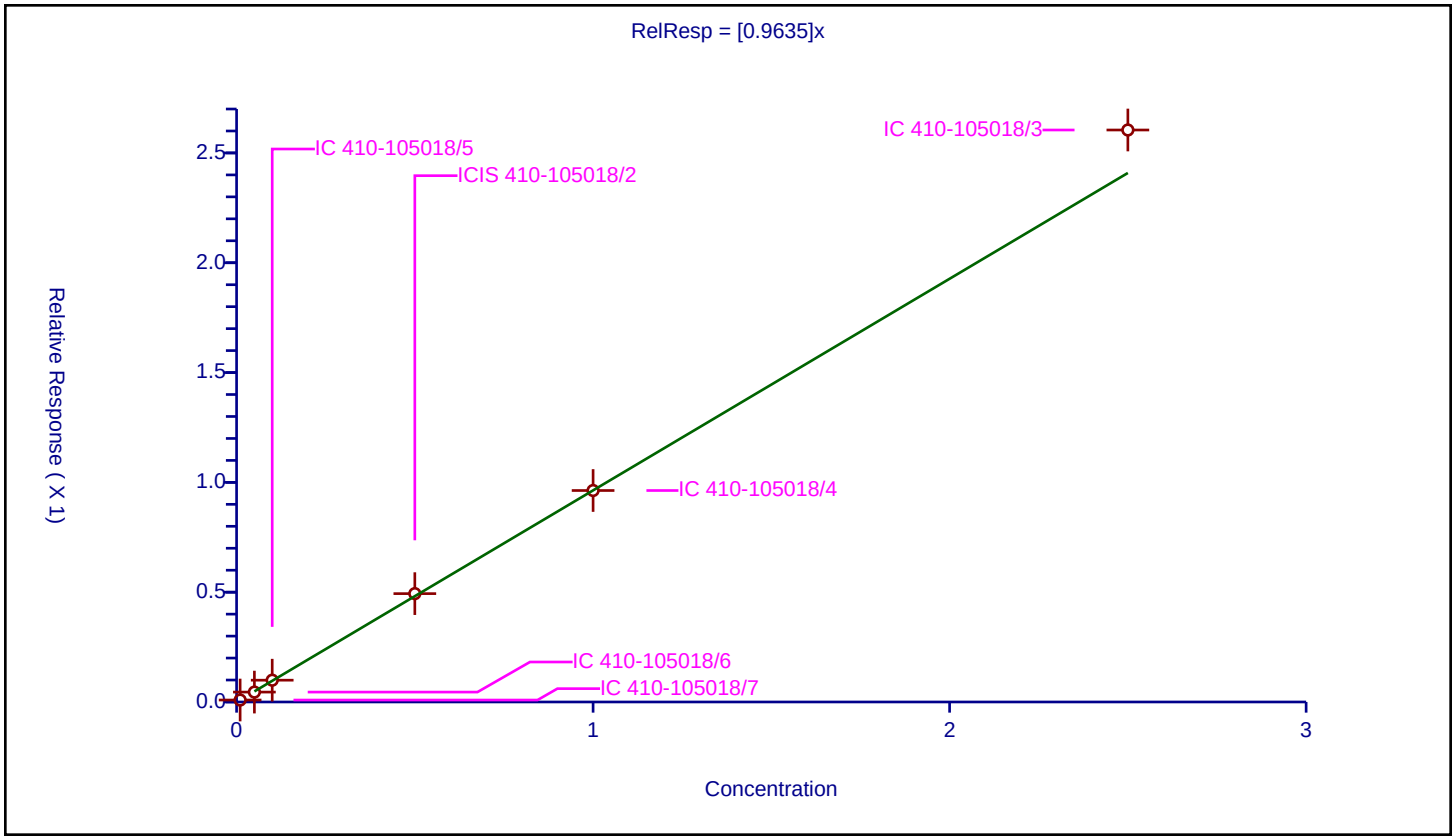
Curve Coefficients

Intercept:	0
Slope:	0.9635

Error Coefficients

Standard Error:	639000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.008959	0.25	128948.0	0.895904	Y
2	IC 410-105018/6	0.05	0.045052	0.25	146142.0	0.901041	Y
3	IC 410-105018/5	0.1	0.099267	0.25	132194.0	0.99267	Y
4	ICIS 410-105018/2	0.5	0.493406	0.25	132628.0	0.986813	Y
5	IC 410-105018/4	1.0	0.962893	0.25	144298.0	0.962893	Y
6	IC 410-105018/3	2.5	2.60446	0.25	123665.0	1.041784	Y



Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

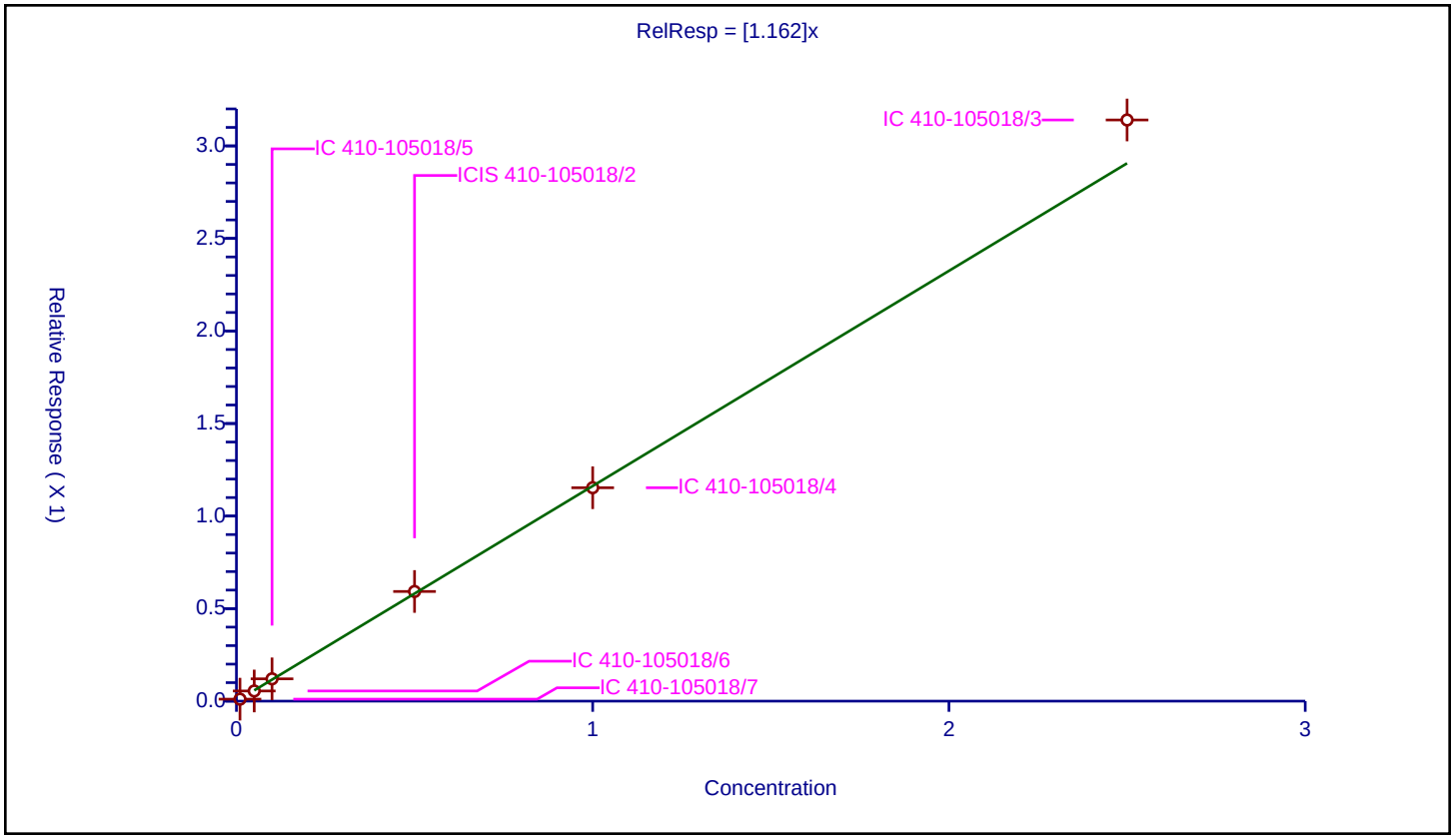
Curve Coefficients

Intercept:	0
Slope:	1.162

Error Coefficients

Standard Error:	769000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.010758	0.25	128948.0	1.075821	Y
2	IC 410-105018/6	0.05	0.05496	0.25	146142.0	1.099205	Y
3	IC 410-105018/5	0.1	0.120544	0.25	132194.0	1.205444	Y
4	ICIS 410-105018/2	0.5	0.592531	0.25	132628.0	1.185063	Y
5	IC 410-105018/4	1.0	1.153103	0.25	144298.0	1.153103	Y
6	IC 410-105018/3	2.5	3.140068	0.25	123665.0	1.256027	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

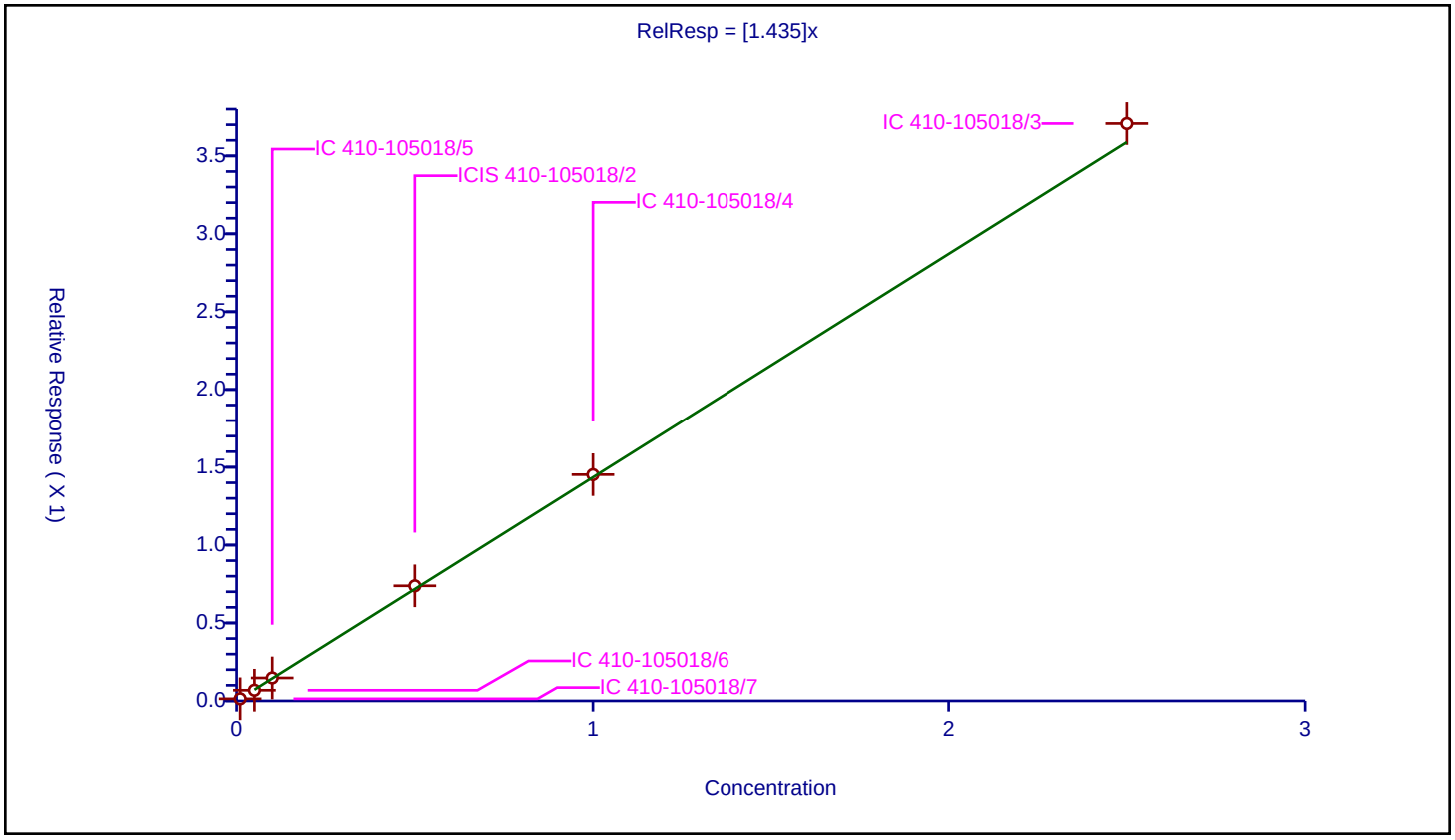
Curve Coefficients

Intercept:	0
Slope:	1.435

Error Coefficients

Standard Error:	793000
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 410-105018/7	0.01	0.0136	0.25	110111.0	1.359991	Y
2	IC 410-105018/6	0.05	0.068424	0.25	120185.0	1.368474	Y
3	IC 410-105018/5	0.1	0.147212	0.25	110735.0	1.472118	Y
4	ICIS 410-105018/2	0.5	0.738321	0.25	109446.0	1.476641	Y
5	IC 410-105018/4	1.0	1.452513	0.25	117863.0	1.452513	Y
6	IC 410-105018/3	2.5	3.707796	0.25	107957.0	1.483118	Y



Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

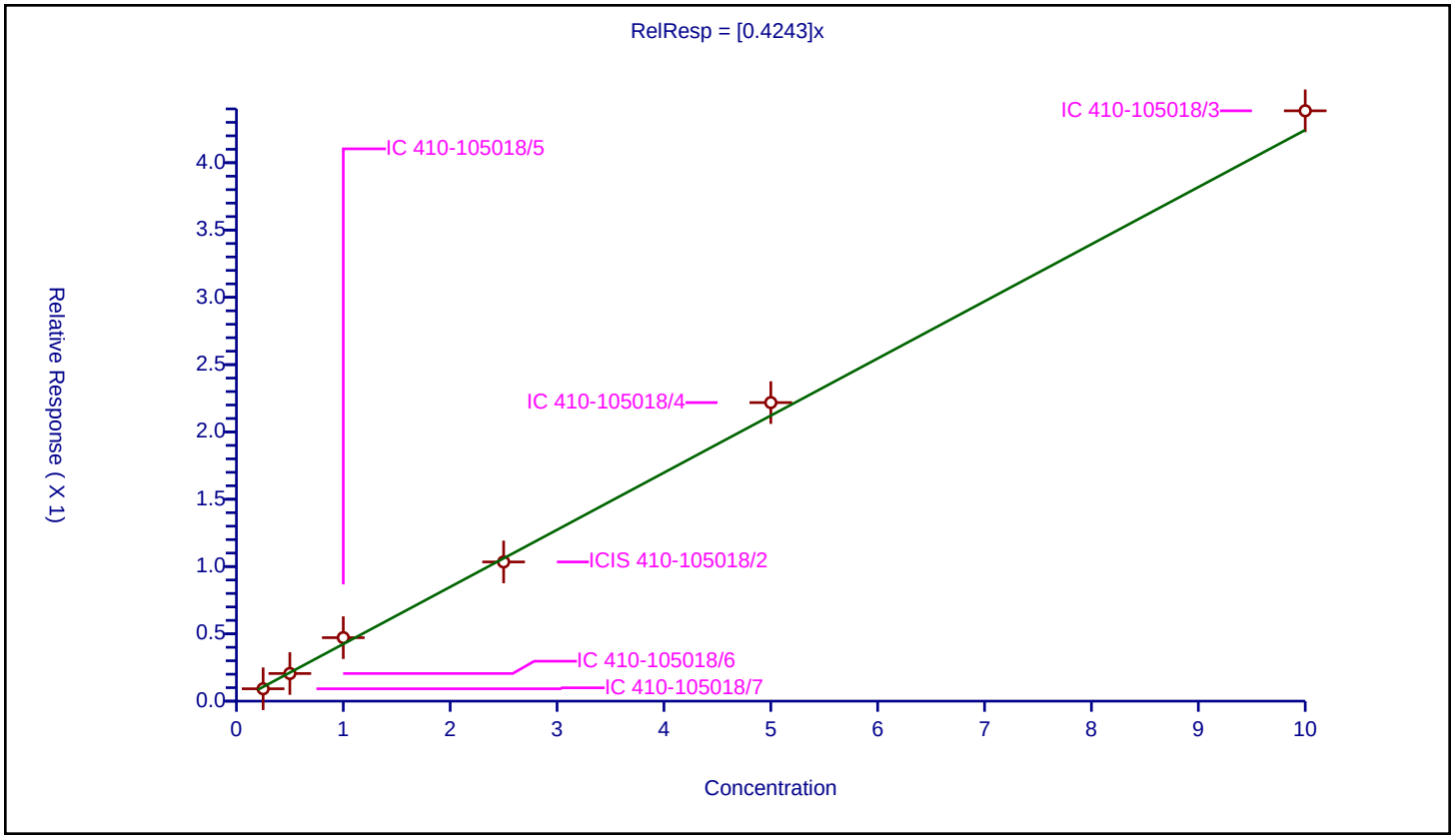
Curve Coefficients

Intercept:	0
Slope:	0.4243

Error Coefficients

Standard Error:	994000
Relative Standard Error:	8.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.25	0.091907	0.25	110111.0	0.367629	Y
2	IC 410-105018/6	0.5	0.205381	0.25	120185.0	0.410763	Y
3	IC 410-105018/5	1.0	0.471576	0.25	110735.0	0.471576	Y
4	ICIS 410-105018/2	2.5	1.034216	0.25	109446.0	0.413686	Y
5	IC 410-105018/4	5.0	2.217986	0.25	117863.0	0.443597	Y
6	IC 410-105018/3	10.0	4.385748	0.25	107957.0	0.438575	Y



Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

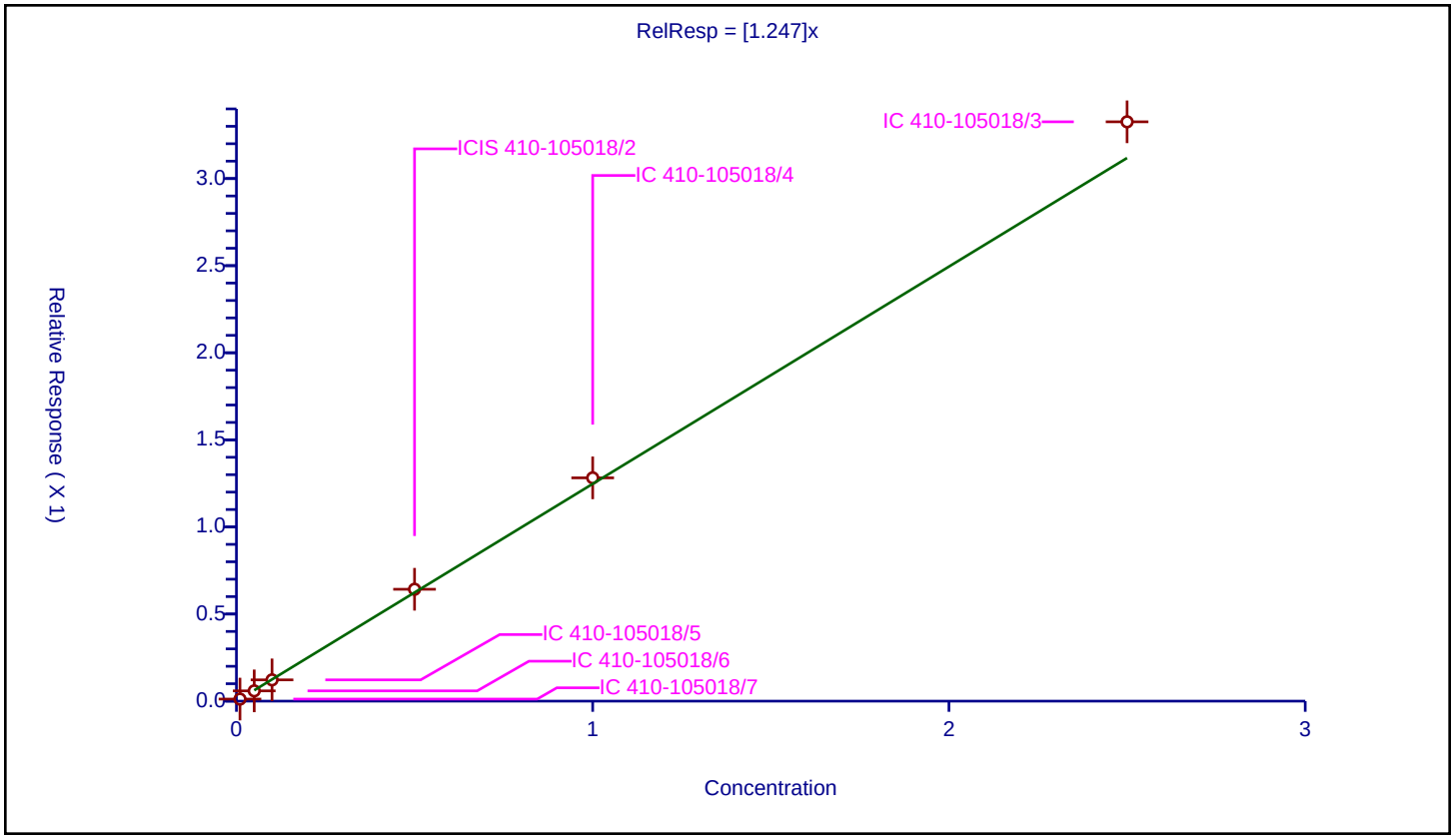
Curve Coefficients

Intercept:	0
Slope:	1.247

Error Coefficients

Standard Error:	709000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.011881	0.25	110111.0	1.188119	Y
2	IC 410-105018/6	0.05	0.058876	0.25	120185.0	1.177518	Y
3	IC 410-105018/5	0.1	0.122138	0.25	110735.0	1.221384	Y
4	ICIS 410-105018/2	0.5	0.642287	0.25	109446.0	1.284574	Y
5	IC 410-105018/4	1.0	1.281912	0.25	117863.0	1.281912	Y
6	IC 410-105018/3	2.5	3.325859	0.25	107957.0	1.330344	Y



Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

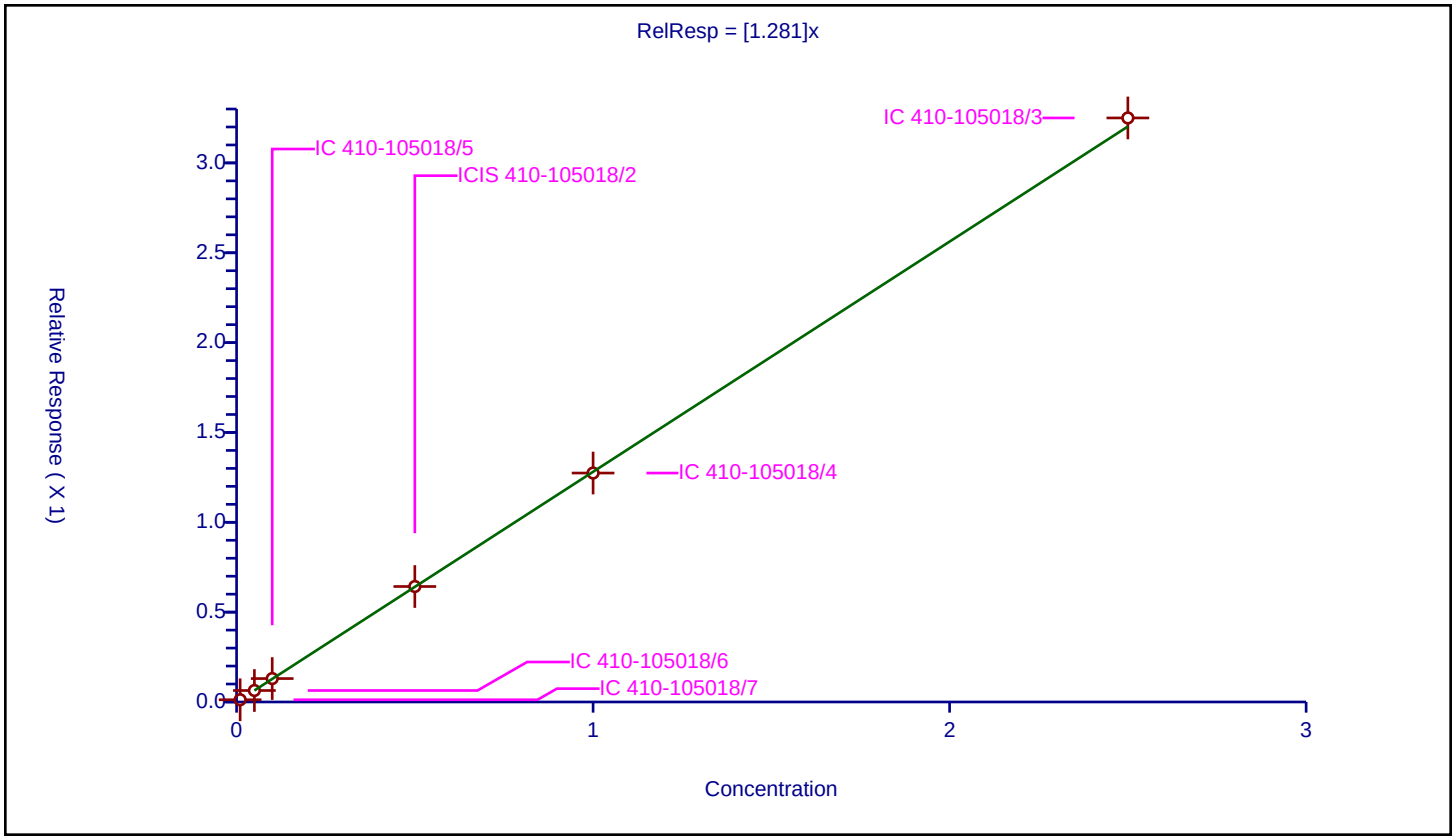
Curve Coefficients

Intercept:	0
Slope:	1.281

Error Coefficients

Standard Error:	695000
Relative Standard Error:	1.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.012442	0.25	110111.0	1.244199	Y
2	IC 410-105018/6	0.05	0.063956	0.25	120185.0	1.279111	Y
3	IC 410-105018/5	0.1	0.130349	0.25	110735.0	1.303495	Y
4	ICIS 410-105018/2	0.5	0.642614	0.25	109446.0	1.285227	Y
5	IC 410-105018/4	1.0	1.274185	0.25	117863.0	1.274185	Y
6	IC 410-105018/3	2.5	3.250317	0.25	107957.0	1.300127	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

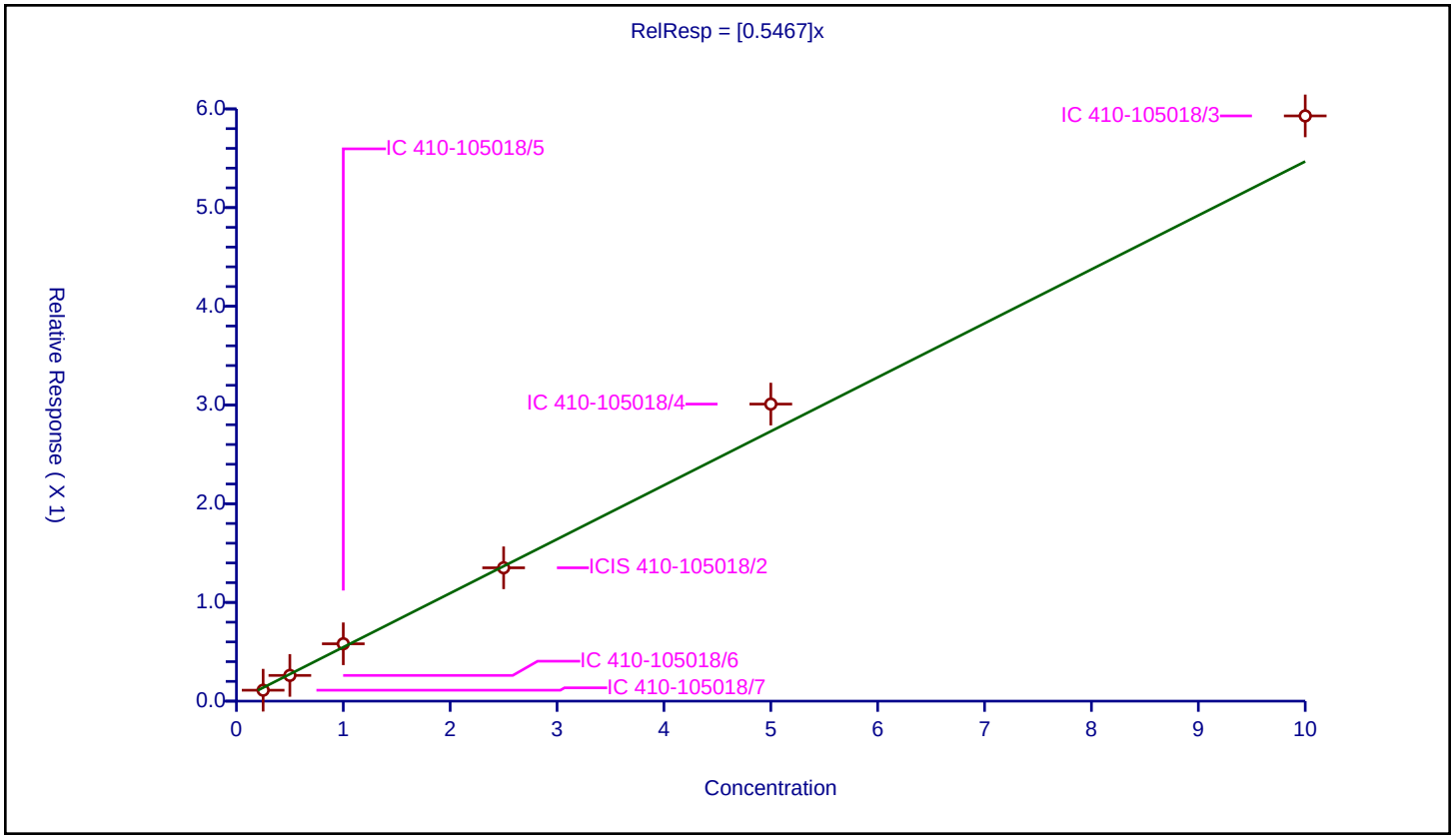
Curve Coefficients

Intercept:	0
Slope:	0.5467

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	10.9
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.25	0.11072	0.25	110111.0	0.44288	Y
2	IC 410-105018/6	0.5	0.260611	0.25	120185.0	0.521221	Y
3	IC 410-105018/5	1.0	0.581174	0.25	110735.0	0.581174	Y
4	ICIS 410-105018/2	2.5	1.350881	0.25	109446.0	0.540352	Y
5	IC 410-105018/4	5.0	3.009634	0.25	117863.0	0.601927	Y
6	IC 410-105018/3	10.0	5.92893	0.25	107957.0	0.592893	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

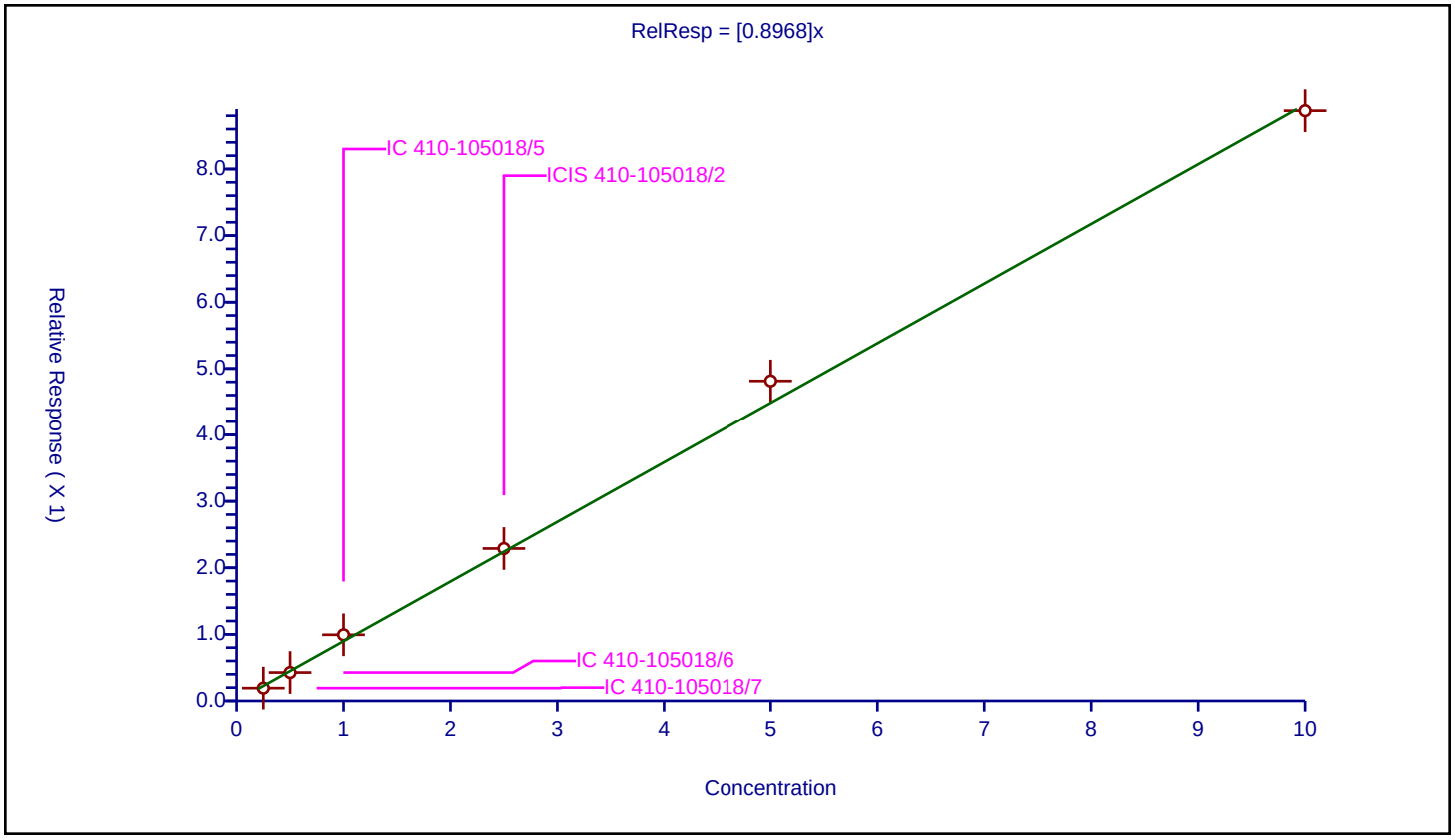
Curve Coefficients

Intercept:	0
Slope:	0.8968

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	9.0
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.25	0.192209	0.25	102084.0	0.768837	Y
2	IC 410-105018/6	0.5	0.426427	0.25	118134.0	0.852854	Y
3	IC 410-105018/5	1.0	0.993114	0.25	104521.0	0.993114	Y
4	ICIS 410-105018/2	2.5	2.289412	0.25	109534.0	0.915765	Y
5	IC 410-105018/4	5.0	4.814097	0.25	126733.0	0.962819	Y
6	IC 410-105018/3	10.0	8.875648	0.25	127274.0	0.887565	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

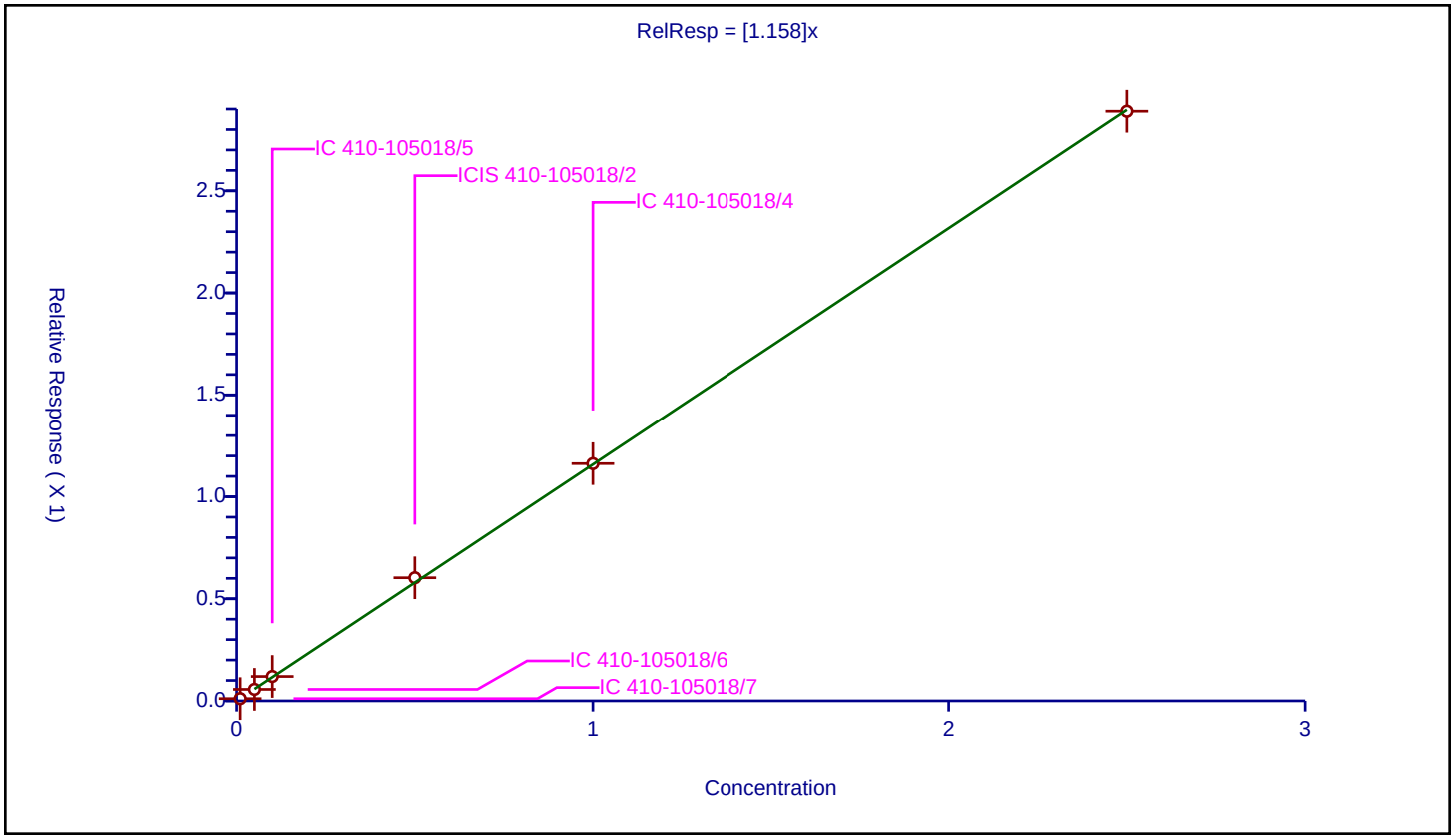
Curve Coefficients

Intercept:	0
Slope:	1.158

Error Coefficients

Standard Error:	719000
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 410-105018/7	0.01	0.011082	0.25	102084.0	1.108156	Y
2	IC 410-105018/6	0.05	0.056212	0.25	118134.0	1.124232	Y
3	IC 410-105018/5	0.1	0.119414	0.25	104521.0	1.194138	Y
4	ICIS 410-105018/2	0.5	0.603	0.25	109534.0	1.206	Y
5	IC 410-105018/4	1.0	1.162602	0.25	126733.0	1.162602	Y
6	IC 410-105018/3	2.5	2.889312	0.25	127274.0	1.155725	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

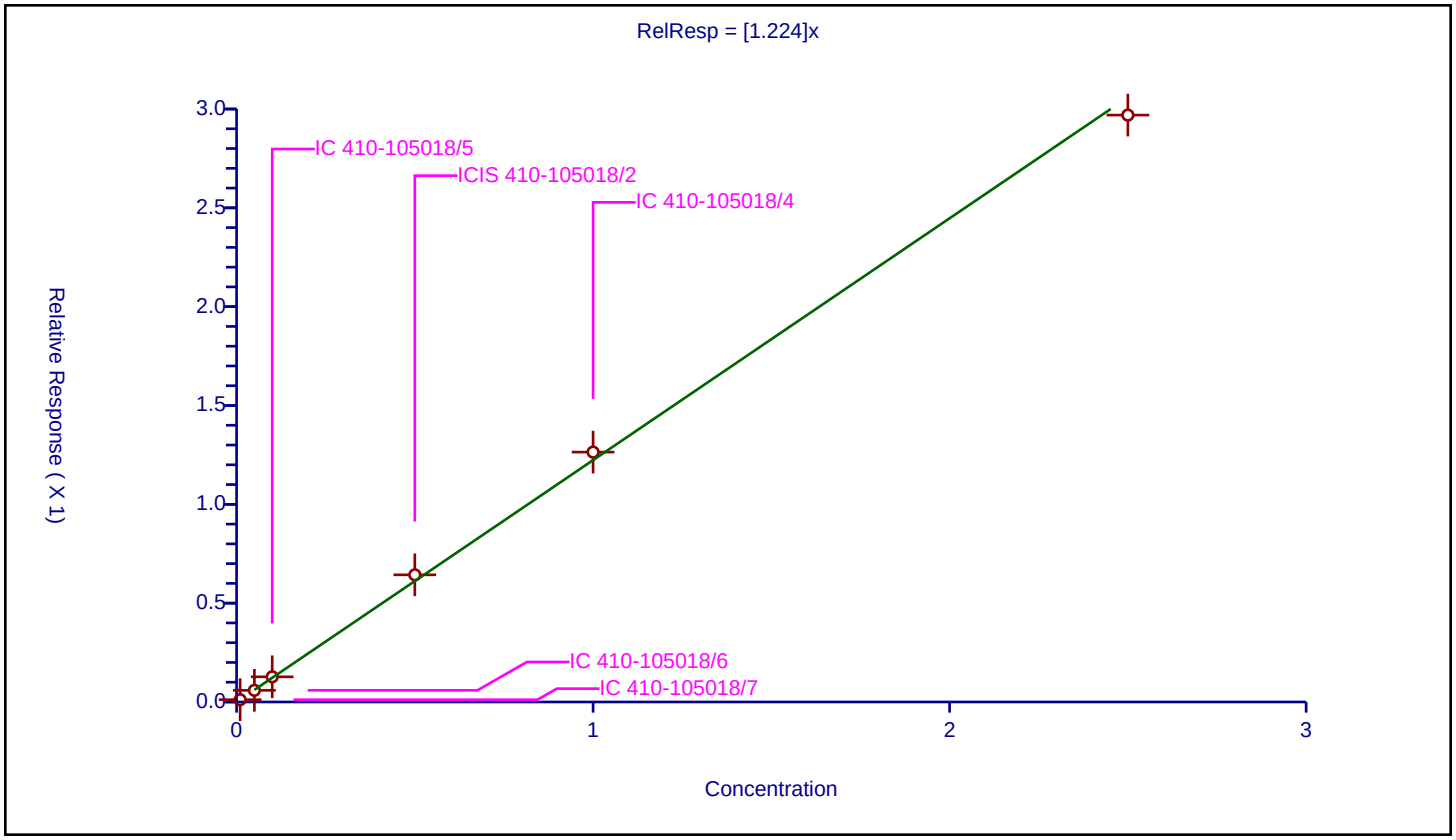
Curve Coefficients

Intercept:	0
Slope:	1.224

Error Coefficients

Standard Error:	745000
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 410-105018/7	0.01	0.011493	0.25	102084.0	1.149299	Y
2	IC 410-105018/6	0.05	0.059016	0.25	118134.0	1.180312	Y
3	IC 410-105018/5	0.1	0.127297	0.25	104521.0	1.272974	Y
4	ICIS 410-105018/2	0.5	0.643392	0.25	109534.0	1.286783	Y
5	IC 410-105018/4	1.0	1.264156	0.25	126733.0	1.264156	Y
6	IC 410-105018/3	2.5	2.969214	0.25	127274.0	1.187686	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

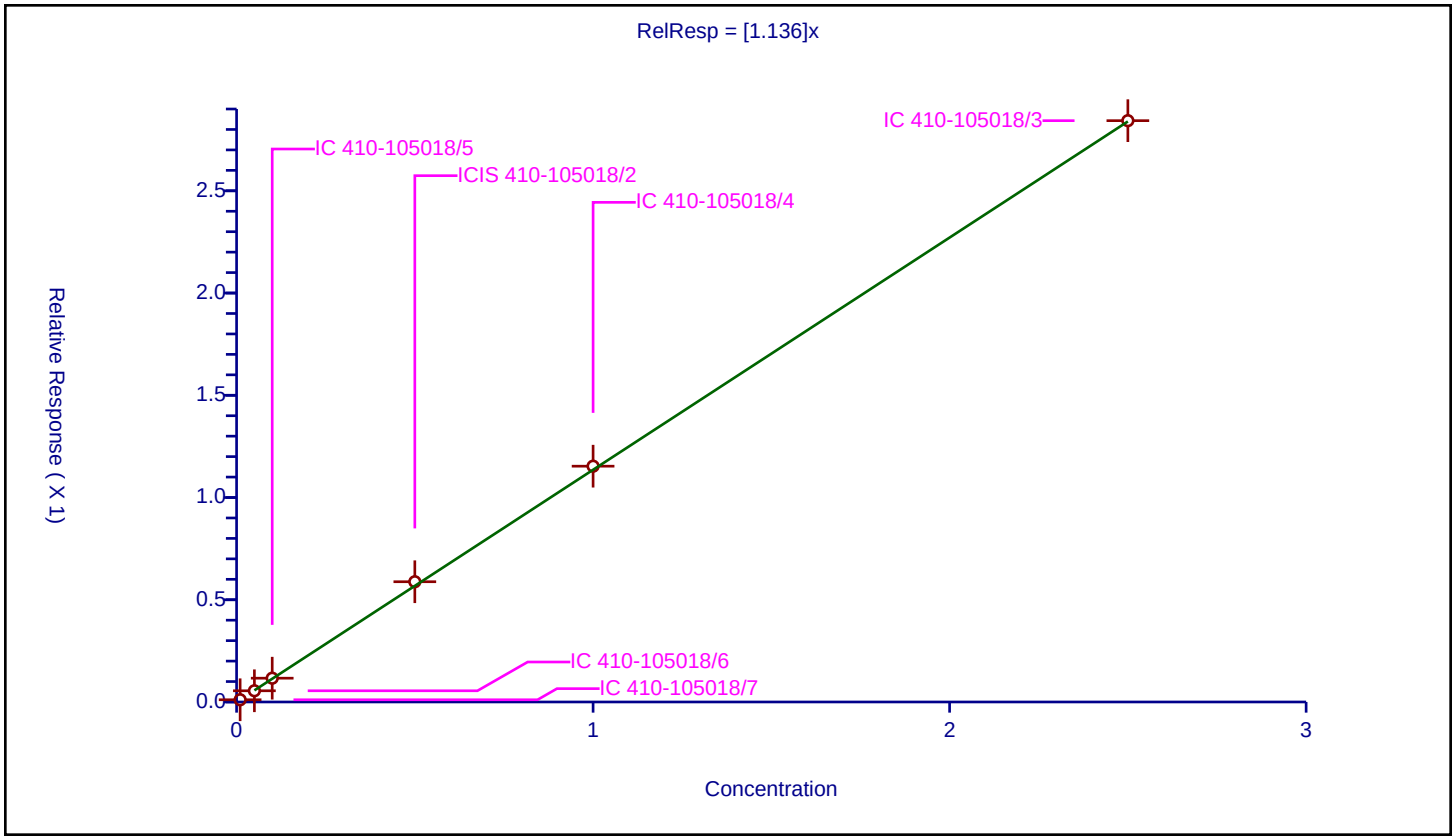
Curve Coefficients

Intercept:	0
Slope:	1.136

Error Coefficients

Standard Error:	708000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.010864	0.25	102084.0	1.08636	Y
2	IC 410-105018/6	0.05	0.054821	0.25	118134.0	1.096424	Y
3	IC 410-105018/5	0.1	0.116441	0.25	104521.0	1.164407	Y
4	ICIS 410-105018/2	0.5	0.588121	0.25	109534.0	1.176242	Y
5	IC 410-105018/4	1.0	1.153249	0.25	126733.0	1.153249	Y
6	IC 410-105018/3	2.5	2.843014	0.25	127274.0	1.137206	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

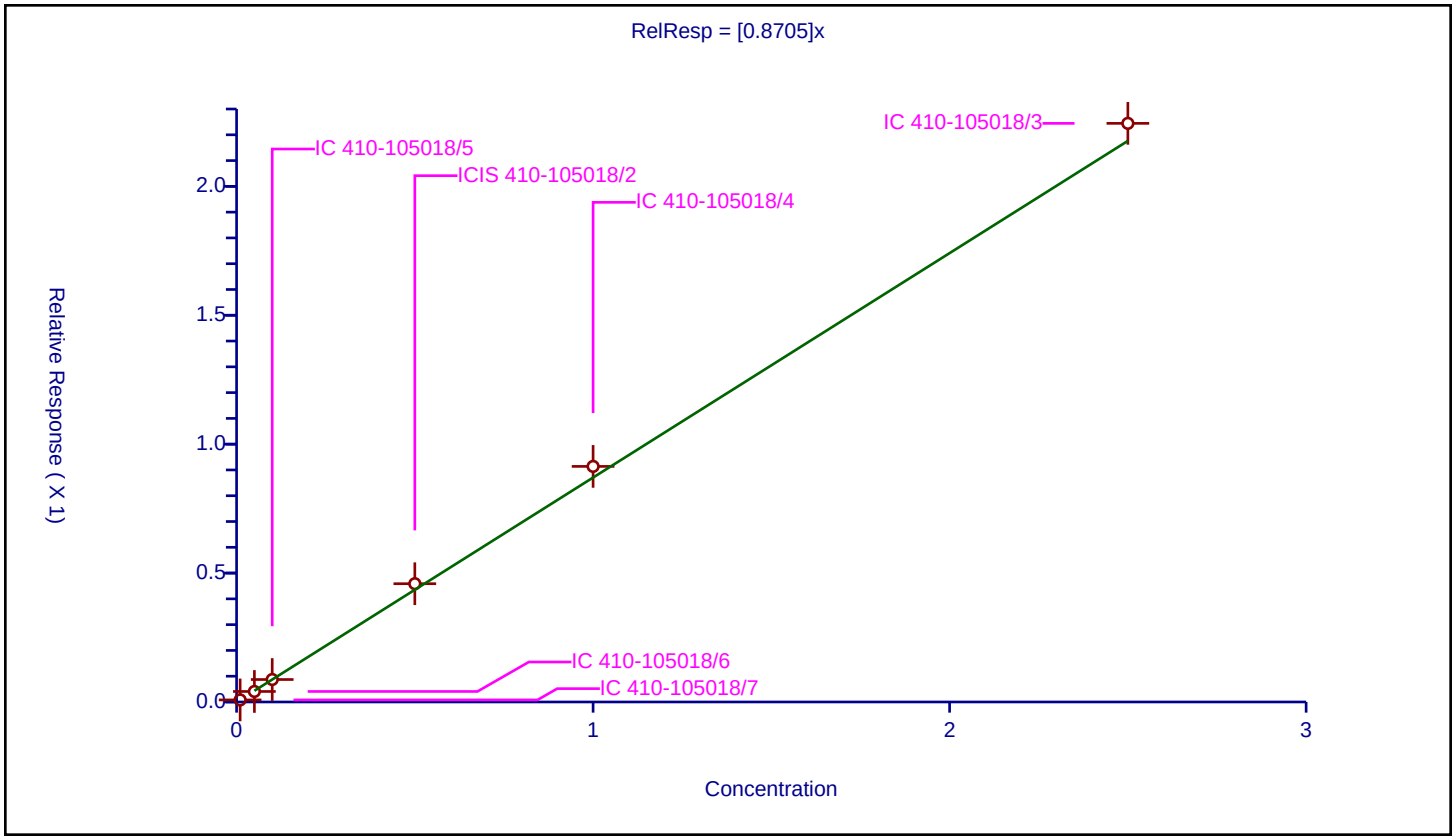
Curve Coefficients

Intercept:	0
Slope:	0.8705

Error Coefficients

Standard Error:	559000
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 410-105018/7	0.01	0.008052	0.25	102084.0	0.805219	Y
2	IC 410-105018/6	0.05	0.040848	0.25	118134.0	0.816954	Y
3	IC 410-105018/5	0.1	0.087191	0.25	104521.0	0.871906	Y
4	ICIS 410-105018/2	0.5	0.458798	0.25	109534.0	0.917596	Y
5	IC 410-105018/4	1.0	0.913771	0.25	126733.0	0.913771	Y
6	IC 410-105018/3	2.5	2.244329	0.25	127274.0	0.897732	Y



Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

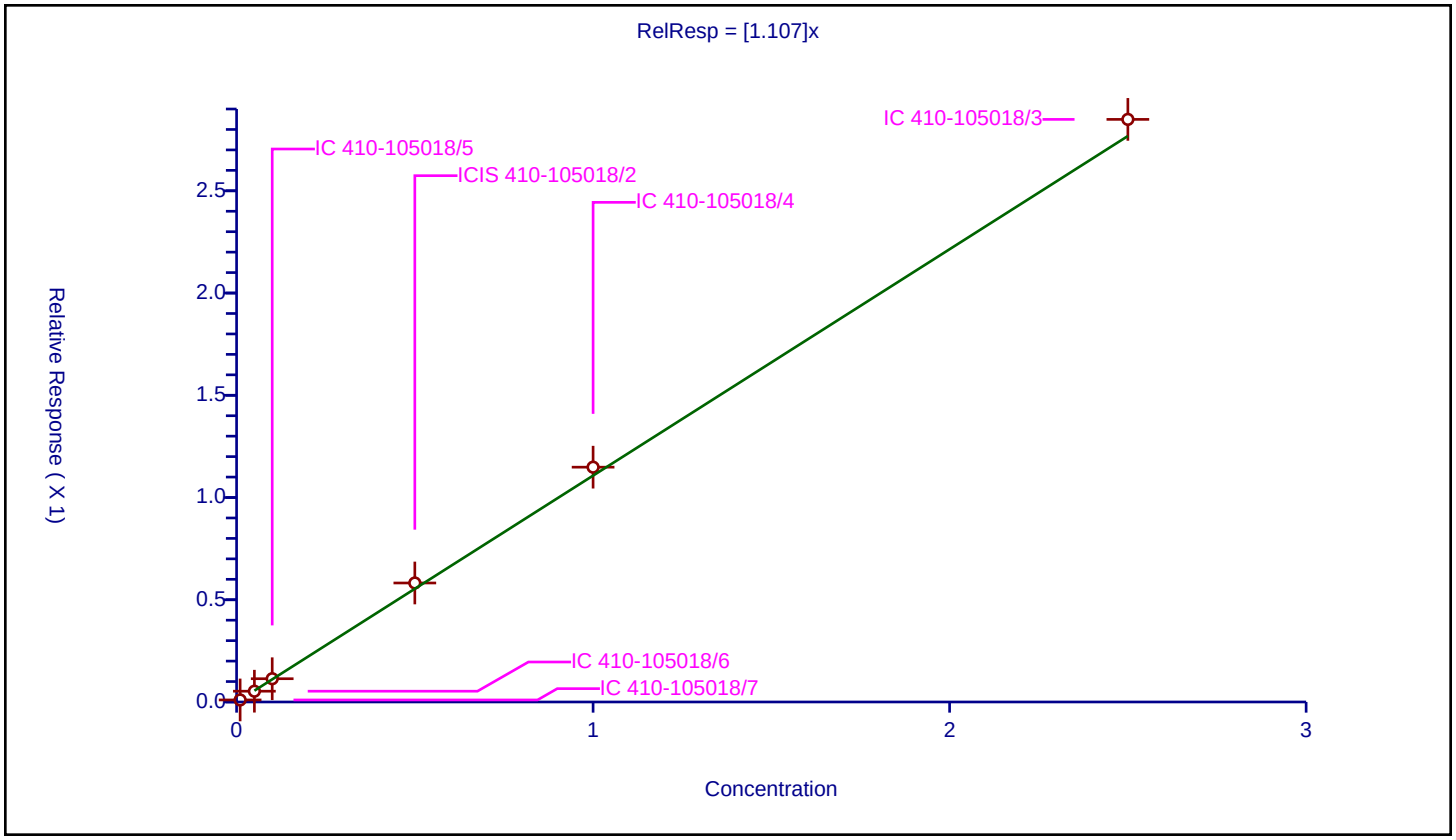
Curve Coefficients

Intercept:	0
Slope:	1.107

Error Coefficients

Standard Error:	709000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.009984	0.25	102084.0	0.998442	Y
2	IC 410-105018/6	0.05	0.052741	0.25	118134.0	1.054819	Y
3	IC 410-105018/5	0.1	0.113733	0.25	104521.0	1.137331	Y
4	ICIS 410-105018/2	0.5	0.582011	0.25	109534.0	1.164022	Y
5	IC 410-105018/4	1.0	1.148359	0.25	126733.0	1.148359	Y
6	IC 410-105018/3	2.5	2.849215	0.25	127274.0	1.139686	Y



Calibration / Perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

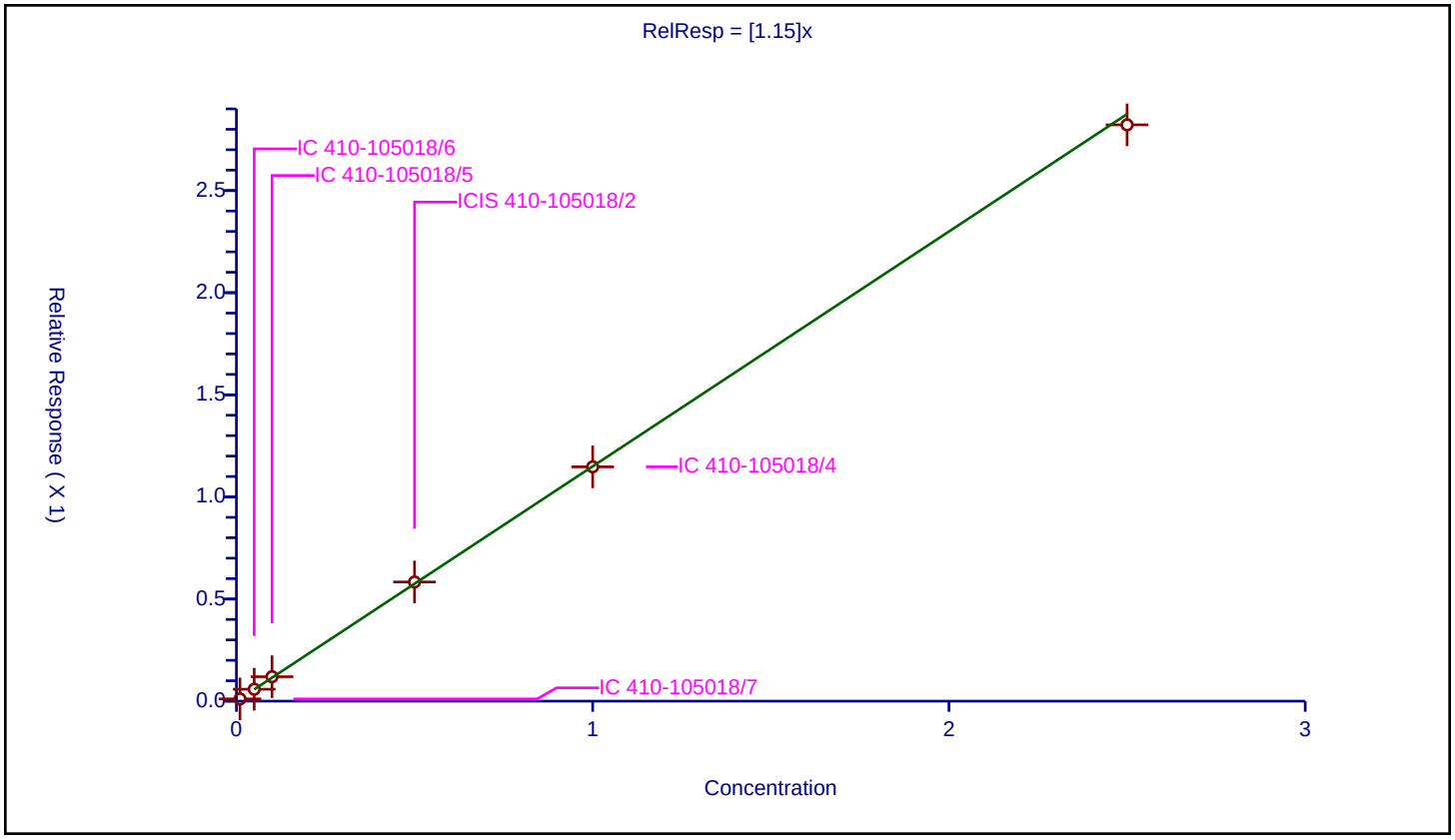
Curve Coefficients

Intercept:	0
Slope:	1.15

Error Coefficients

Standard Error:	703000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.010913	0.25	102084.0	1.091258	Y
2	IC 410-105018/6	0.05	0.058383	0.25	118134.0	1.167657	Y
3	IC 410-105018/5	0.1	0.11966	0.25	104521.0	1.196602	Y
4	ICIS 410-105018/2	0.5	0.583499	0.25	109534.0	1.166998	Y
5	IC 410-105018/4	1.0	1.147209	0.25	126733.0	1.147209	Y
6	IC 410-105018/3	2.5	2.821857	0.25	127274.0	1.128743	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

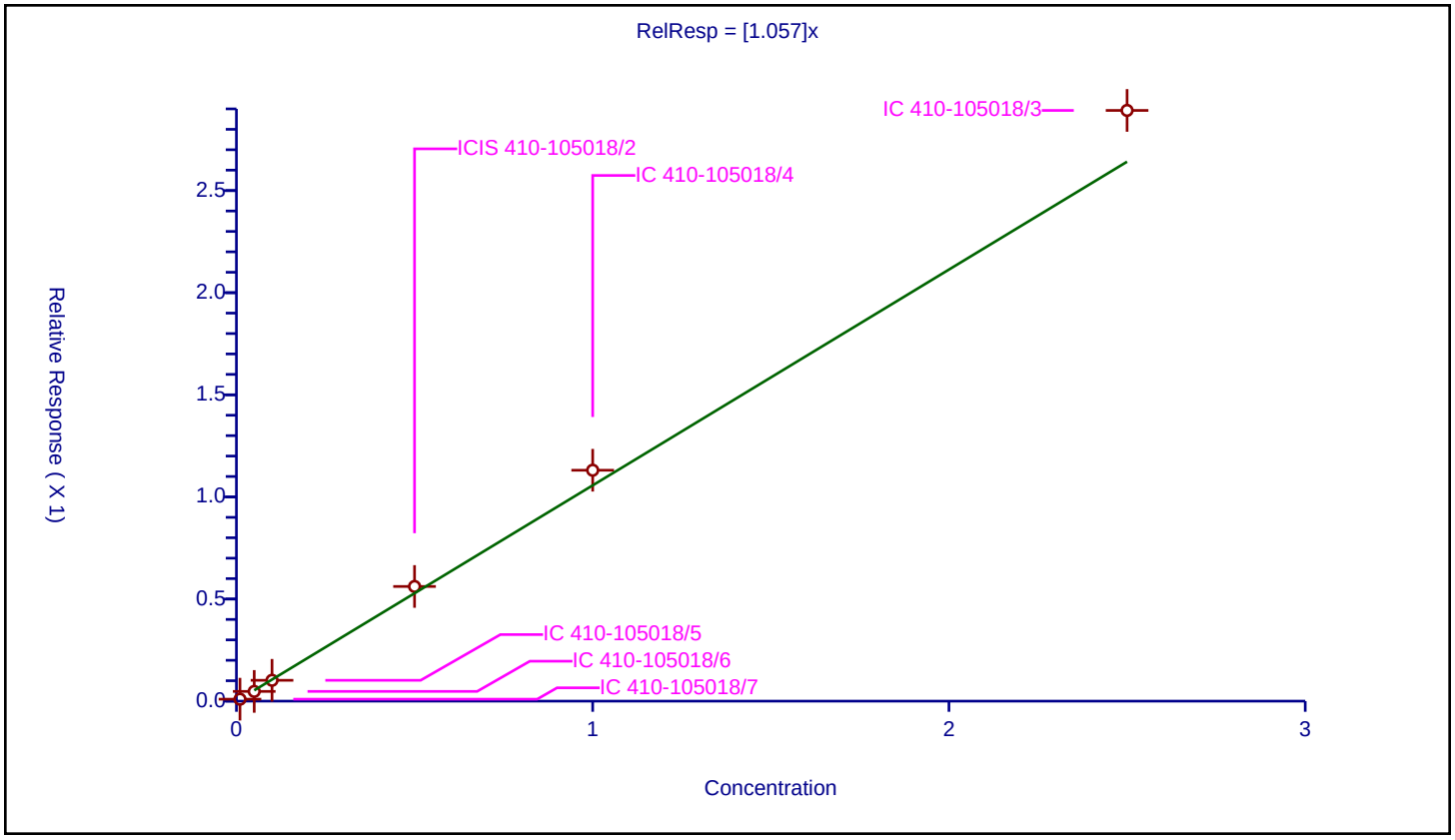
Curve Coefficients

Intercept:	0
Slope:	1.057

Error Coefficients

Standard Error:	716000
Relative Standard Error:	8.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.009546	0.25	102084.0	0.954606	Y
2	IC 410-105018/6	0.05	0.047662	0.25	118134.0	0.95324	Y
3	IC 410-105018/5	0.1	0.102101	0.25	104521.0	1.021015	Y
4	ICIS 410-105018/2	0.5	0.561449	0.25	109534.0	1.122898	Y
5	IC 410-105018/4	1.0	1.130686	0.25	126733.0	1.130686	Y
6	IC 410-105018/3	2.5	2.89246	0.25	127274.0	1.156984	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

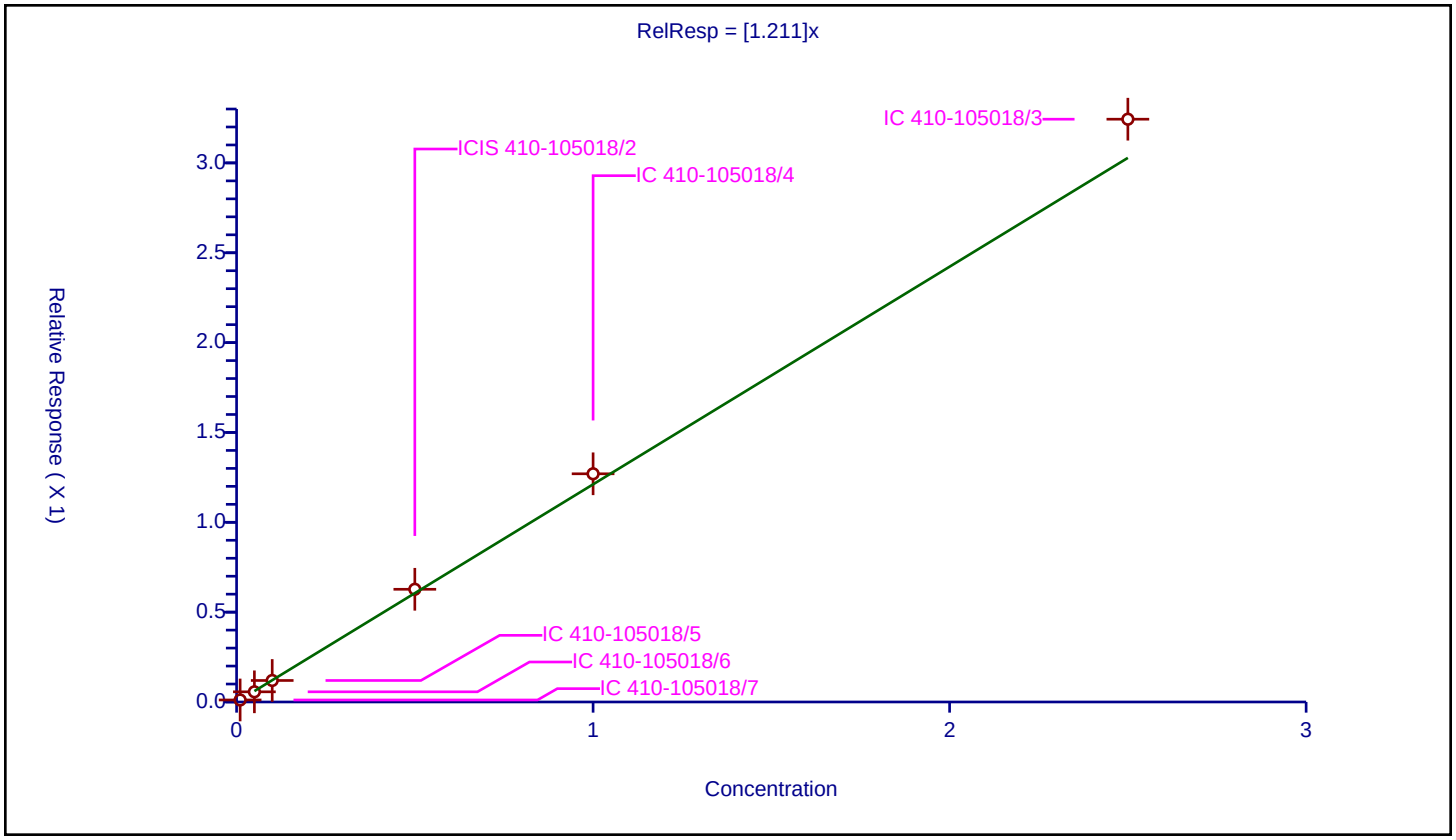
Curve Coefficients

Intercept:	0
Slope:	1.211

Error Coefficients

Standard Error:	802000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.01116	0.25	102084.0	1.115993	Y
2	IC 410-105018/6	0.05	0.056675	0.25	118134.0	1.133501	Y
3	IC 410-105018/5	0.1	0.119634	0.25	104521.0	1.196339	Y
4	ICIS 410-105018/2	0.5	0.627266	0.25	109534.0	1.254533	Y
5	IC 410-105018/4	1.0	1.269961	0.25	126733.0	1.269961	Y
6	IC 410-105018/3	2.5	3.243298	0.25	127274.0	1.297319	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

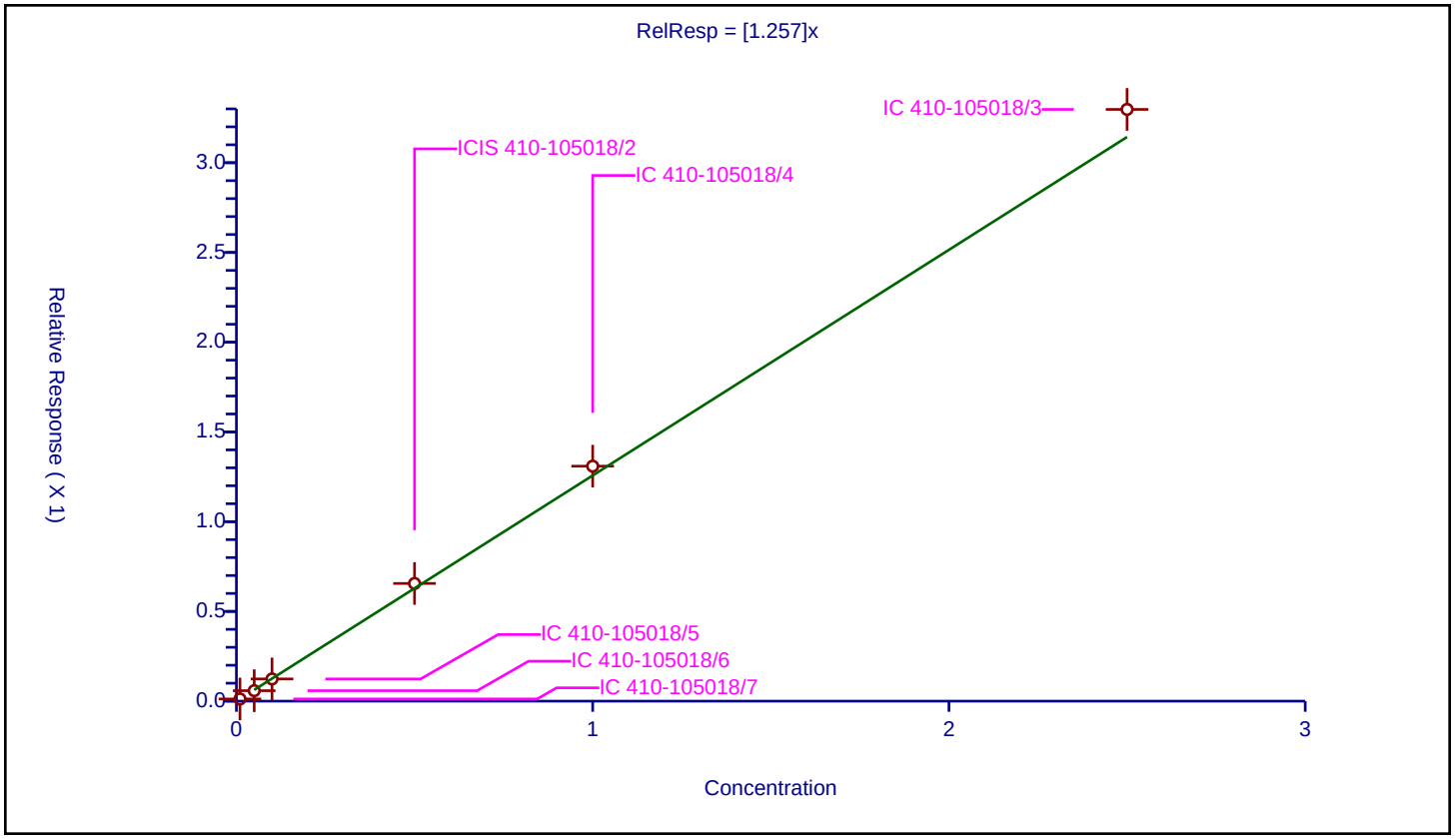
Curve Coefficients

Intercept:	0
Slope:	1.257

Error Coefficients

Standard Error:	818000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-105018/7	0.01	0.012024	0.25	102084.0	1.202441	Y
2	IC 410-105018/6	0.05	0.058292	0.25	118134.0	1.165837	Y
3	IC 410-105018/5	0.1	0.123645	0.25	104521.0	1.23645	Y
4	ICIS 410-105018/2	0.5	0.655682	0.25	109534.0	1.311365	Y
5	IC 410-105018/4	1.0	1.309237	0.25	126733.0	1.309237	Y
6	IC 410-105018/3	2.5	3.297025	0.25	127274.0	1.31881	Y



FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-34553-1

SDG No.:

Lab Sample ID (1): ICIS 410-105018/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 03/19/2021 10:42

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.68	15.70

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-34553-1

SDG No.:

Lab Sample ID (1): CCVIS 410-111994/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 04/07/2021 19:43

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.62	19.40

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-34553-1

SDG No.:

Lab Sample ID (1): CCVIS 410-112126/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 04/08/2021 06:36

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.62	21.50

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-34553-1

SDG No.:

Lab Sample ID (1): CCVIS 410-112543/2 Instrument ID (1): HP21585

GC Column (1): DB-5MS 30m 0. ID: 0.25(mm) Date Analyzed (1): 04/08/2021 21:39

ANALYTE	RT	RESOLUTION (%)
Benzo[b]fluoranthene	19.60	17.00

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: ICV 410-105018/9 Calibration Date: 03/19/2021 16:12

Instrument ID: HP21585 Calib Start Date: 11/25/2020 12:35

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 11/25/2020 15:47

Lab File ID: MC0568.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenzofuran	Ave	2.056	1.771		0.252	0.250	-13.9	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 19-Mar-2021 16:12:30 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0024536-009
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Mar-2021 14:18:32 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

	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	3.303	3.310	0.007	97	24334	0.2500	0.2518	M
	2 N-Nitrosodimethylamine	74	3.696	3.681	0.014	100	38277	0.2500	0.3437	
	3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	73	47712	0.2500	0.2609	
*	4 1,4-Dichlorobenzene-d4	152	7.117	7.118	-0.001	88	34007	0.2500	0.2500	M
*	5 Naphthalene-d8	136	9.034	9.034	0.000	92	115905	0.2500	0.2500	
	6 Naphthalene	128	9.055	9.055	0.000	92	111238	0.2500	0.2396	
	7 Quinoline	129	9.590	9.591	-0.001	100	70080	0.2500	0.2321	
	8 2-Methylnaphthalene	142	10.167	10.167	-0.001	98	77467	0.2500	0.2428	
	10 1-Methylnaphthalene	142	10.313	10.313	-0.001	98	74208	0.2500	0.2384	
	11 Dimethyl phthalate	163	11.426	11.426	0.000	99	86185	0.2500	0.2584	
	12 Acenaphthylene	152	11.572	11.573	-0.001	100	119377	0.2500	0.2552	
*	13 Acenaphthene-d10	164	11.768	11.768	0.000	96	64489	0.2500	0.2500	
	14 Acenaphthene	154	11.817	11.817	0.000	90	70576	0.2500	0.2338	
	15 Dibenzofuran	168	12.044	12.044	0.000	100	114203	0.2500	0.2518	
	16 Diethyl phthalate	149	12.356	12.364	-0.008	100	76475	0.2500	0.2546	
	17 Fluorene	166	12.473	12.473	0.000	97	90628	0.2500	0.2550	
	18 N-Nitrosodiphenylamine	169	12.629	12.629	-0.001	98	57028	0.2500	0.2695	
	19 Hexachlorobenzene	284	13.160	13.168	0.000	97	27424	0.2500	0.2562	
*	20 Phenanthrene-d10	188	13.667	13.668	-0.001	97	126100	0.2500	0.2500	
	21 Phenanthrene	178	13.699	13.699	0.000	100	135361	0.2500	0.2574	
	22 Anthracene	178	13.769	13.769	0.000	100	128376	0.2500	0.2504	
	23 Di-n-butyl phthalate	149	14.501	14.501	0.000	100	108181	0.2500	0.2383	
	25 Fluoranthene	202	15.403	15.403	-0.001	100	159186	0.2500	0.2715	
	26 Pyrene	202	15.761	15.761	0.000	98	164230	0.2500	0.2450	
	27 Butyl benzyl phthalate	149	16.898	16.898	0.000	100	41607	0.2500	0.2100	
	28 Benzo[a]anthracene	228	17.810	17.826	-0.001	100	141674	0.2500	0.2433	
*	29 Chrysene-d12	240	17.826	17.826	0.000	66	116734	0.2500	0.2500	
	30 Chrysene	228	17.872	17.872	0.000	100	146125	0.2500	0.2443	
	31 Bis(2-ethylhexyl) phthalate	149	17.971	17.972	-0.001	98	51226	0.2500	0.2007	
	32 Di-n-octyl phthalate	149	19.145	19.145	0.000	100	84266	0.2500	0.2065	
	33 Benzo[b]fluoranthene	252	19.682	19.682	0.000	100	128360	0.2500	0.2436	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	19.728	19.728	0.000	100	144254	0.2500	0.2592	
35 Benzo[e]pyrene	252	20.134	20.134	-0.001	100	136096	0.2500	0.2634	
37 Benzo[a]pyrene	252	20.219	20.219	0.000	100	126204	0.2500	0.2506	
* 38 Perylene-d12	264	20.311	20.311	0.000	99	113731	0.2500	0.2500	
39 Perylene	252	20.349	20.349	0.000	100	142751	0.2500	0.2729	
40 Indeno[1,2,3-cd]pyrene	276	22.059	22.073	0.000	99	127222	0.2500	0.2647	M
41 Dibenz(a,h)anthracene	278	22.108	22.115	-0.007	95	134256	0.2500	0.2436	
42 Benzo[g,h,i]perylene	276	22.539	22.539	0.000	97	138480	0.2500	0.2421	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00016 Amount Added: 1.00 Units: mL

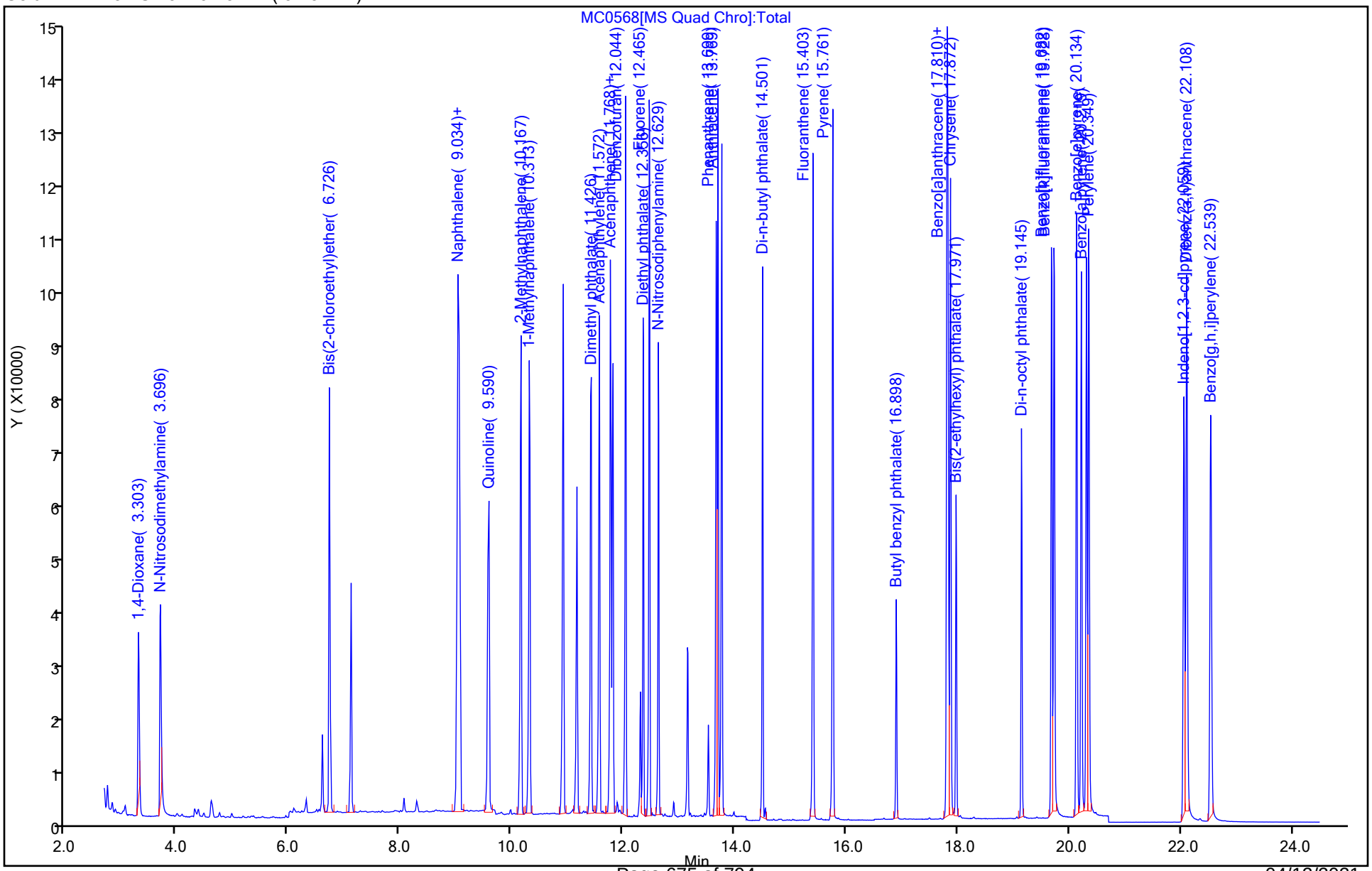
Report Date: 20-Mar-2021 14:18:33 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D

Injection Date:	19-Mar-2021 16:12:30	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

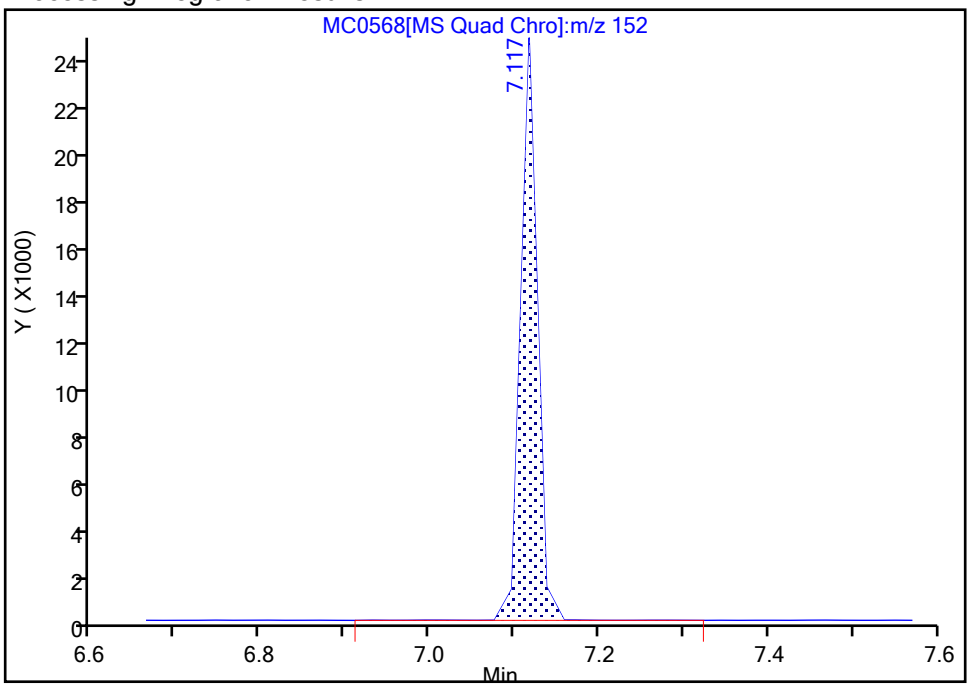
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D				
Injection Date:	19-Mar-2021 16:12:30	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

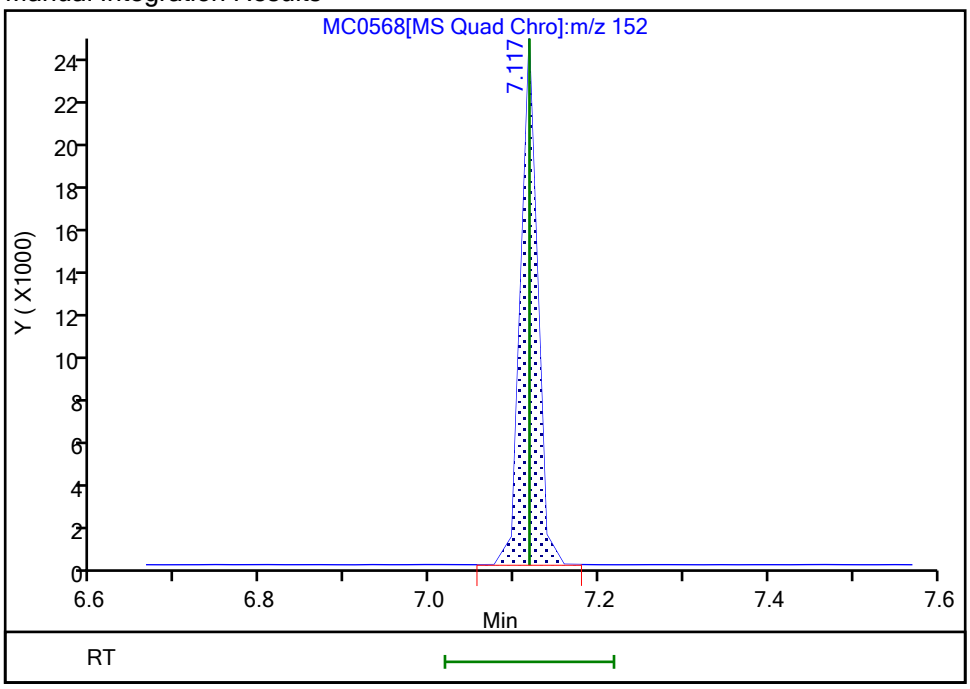
Processing Integration Results

RT: 7.12
Area: 33943
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 7.12
Area: 34007
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 16:46:44

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: ICV 410-105018/9 Calibration Date: 03/19/2021 16:12

Instrument ID: HP21585 Calib Start Date: 03/19/2021 10:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 03/19/2021 15:33

Lab File ID: MC0568.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7105	0.7156		0.252	0.250	0.7	30.0
N-Nitrosodimethylamine	Ave	0.8186	1.126		0.344	0.250	37.5*	30.0
Bis(2-chloroethyl)ether	Ave	0.3944	0.4116		0.261	0.250	4.4	30.0
Naphthalene	Ave	1.001	0.9597		0.240	0.250	-4.2	30.0
Quinoline	Ave	0.6512	0.6046		0.232	0.250	-7.2	30.0
2-Methylnaphthalene	Ave	0.6882	0.6684		0.243	0.250	-2.9	30.0
1-Methylnaphthalene	Ave	0.6715	0.6402		0.238	0.250	-4.7	30.0
Dimethylphthalate	Ave	1.293	1.336		0.258	0.250	3.3	30.0
Acenaphthylene	Ave	1.813	1.851		0.255	0.250	2.1	30.0
Acenaphthene	Ave	1.170	1.094		0.234	0.250	-6.5	30.0
Diethylphthalate	Ave	1.165	1.186		0.255	0.250	1.8	30.0
Fluorene	Ave	1.378	1.405		0.255	0.250	2.0	30.0
N-Nitrosodiphenylamine	Ave	0.4195	0.4522		0.270	0.250	7.8	30.0
Hexachlorobenzene	Ave	0.2122	0.2175		0.256	0.250	2.5	30.0
Phenanthrene	Ave	1.042	1.073		0.257	0.250	3.0	30.0
Anthracene	Ave	1.016	1.018		0.250	0.250	0.2	30.0
Di-n-butyl phthalate	Ave	0.9001	0.8579		0.238	0.250	-4.7	30.0
Fluoranthene	Ave	1.162	1.262		0.271	0.250	8.6	30.0
Pyrene	Ave	1.435	1.407		0.245	0.250	-2.0	30.0
Butylbenzylphthalate	Ave	0.4243	0.3564		0.210	0.250	-16.0	30.0
Benzo[a]anthracene	Ave	1.247	1.214		0.243	0.250	-2.7	30.0
Chrysene	Ave	1.281	1.252		0.244	0.250	-2.3	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.5467	0.4388		0.201	0.250	-19.7	30.0
Di-n-octyl phthalate	Ave	0.8968	0.7409		0.207	0.250	-17.4	30.0
Benzo[b]fluoranthene	Ave	1.158	1.129		0.244	0.250	-2.6	30.0
Benzo[k]fluoranthene	Ave	1.224	1.268		0.259	0.250	3.7	30.0
Benzo[e]pyrene	Ave	1.136	1.197		0.263	0.250	5.4	30.0
Benzo[a]pyrene	Ave	1.107	1.110		0.251	0.250	0.2	30.0
Perylene	Ave	1.150	1.255		0.273	0.250	9.2	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.057	1.119		0.265	0.250	5.9	30.0
Dibenz(a,h)anthracene	Ave	1.211	1.180		0.244	0.250	-2.5	30.0
Benzo[g,h,i]perylene	Ave	1.257	1.218		0.242	0.250	-3.2	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 19-Mar-2021 16:12:30 ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0024536-009
Operator ID: jmg00346 Instrument ID: HP21585
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 20-Mar-2021 14:18:32 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1635

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	3.303	3.310	0.007	97	24334	0.2500	0.2518	M
2 N-Nitrosodimethylamine	74	3.696	3.681	0.014	100	38277	0.2500	0.3437	
3 Bis(2-chloroethyl)ether	93	6.726	6.726	0.000	73	47712	0.2500	0.2609	
* 4 1,4-Dichlorobenzene-d4	152	7.117	7.118	-0.001	88	34007	0.2500	0.2500	M
* 5 Naphthalene-d8	136	9.034	9.034	0.000	92	115905	0.2500	0.2500	
6 Naphthalene	128	9.055	9.055	0.000	92	111238	0.2500	0.2396	
7 Quinoline	129	9.590	9.591	-0.001	100	70080	0.2500	0.2321	
8 2-Methylnaphthalene	142	10.167	10.167	-0.001	98	77467	0.2500	0.2428	
10 1-Methylnaphthalene	142	10.313	10.313	-0.001	98	74208	0.2500	0.2384	
11 Dimethyl phthalate	163	11.426	11.426	0.000	99	86185	0.2500	0.2584	
12 Acenaphthylene	152	11.572	11.573	-0.001	100	119377	0.2500	0.2552	
* 13 Acenaphthene-d10	164	11.768	11.768	0.000	96	64489	0.2500	0.2500	
14 Acenaphthene	154	11.817	11.817	0.000	90	70576	0.2500	0.2338	
15 Dibenzofuran	168	12.044	12.044	0.000	100	114203	0.2500	0.2518	
16 Diethyl phthalate	149	12.356	12.364	-0.008	100	76475	0.2500	0.2546	
17 Fluorene	166	12.473	12.473	0.000	97	90628	0.2500	0.2550	
18 N-Nitrosodiphenylamine	169	12.629	12.629	-0.001	98	57028	0.2500	0.2695	
19 Hexachlorobenzene	284	13.160	13.168	0.000	97	27424	0.2500	0.2562	
* 20 Phenanthrene-d10	188	13.667	13.668	-0.001	97	126100	0.2500	0.2500	
21 Phenanthrene	178	13.699	13.699	0.000	100	135361	0.2500	0.2574	
22 Anthracene	178	13.769	13.769	0.000	100	128376	0.2500	0.2504	
23 Di-n-butyl phthalate	149	14.501	14.501	0.000	100	108181	0.2500	0.2383	
25 Fluoranthene	202	15.403	15.403	-0.001	100	159186	0.2500	0.2715	
26 Pyrene	202	15.761	15.761	0.000	98	164230	0.2500	0.2450	
27 Butyl benzyl phthalate	149	16.898	16.898	0.000	100	41607	0.2500	0.2100	
28 Benzo[a]anthracene	228	17.810	17.826	-0.001	100	141674	0.2500	0.2433	
* 29 Chrysene-d12	240	17.826	17.826	0.000	66	116734	0.2500	0.2500	
30 Chrysene	228	17.872	17.872	0.000	100	146125	0.2500	0.2443	
31 Bis(2-ethylhexyl) phthalate	149	17.971	17.972	-0.001	98	51226	0.2500	0.2007	
32 Di-n-octyl phthalate	149	19.145	19.145	0.000	100	84266	0.2500	0.2065	
33 Benzo[b]fluoranthene	252	19.682	19.682	0.000	100	128360	0.2500	0.2436	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	19.728	19.728	0.000	100	144254	0.2500	0.2592	
35 Benzo[e]pyrene	252	20.134	20.134	-0.001	100	136096	0.2500	0.2634	
37 Benzo[a]pyrene	252	20.219	20.219	0.000	100	126204	0.2500	0.2506	
* 38 Perylene-d12	264	20.311	20.311	0.000	99	113731	0.2500	0.2500	
39 Perylene	252	20.349	20.349	0.000	100	142751	0.2500	0.2729	
40 Indeno[1,2,3-cd]pyrene	276	22.059	22.073	0.000	99	127222	0.2500	0.2647	M
41 Dibenz(a,h)anthracene	278	22.108	22.115	-0.007	95	134256	0.2500	0.2436	
42 Benzo[g,h,i]perylene	276	22.539	22.539	0.000	97	138480	0.2500	0.2421	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_ICV_00016 Amount Added: 1.00 Units: mL

Report Date: 20-Mar-2021 14:18:33 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D

Injection Date: 19-Mar-2021 16:12:30 Instrument ID: HP21585 Operator ID: jmg00346

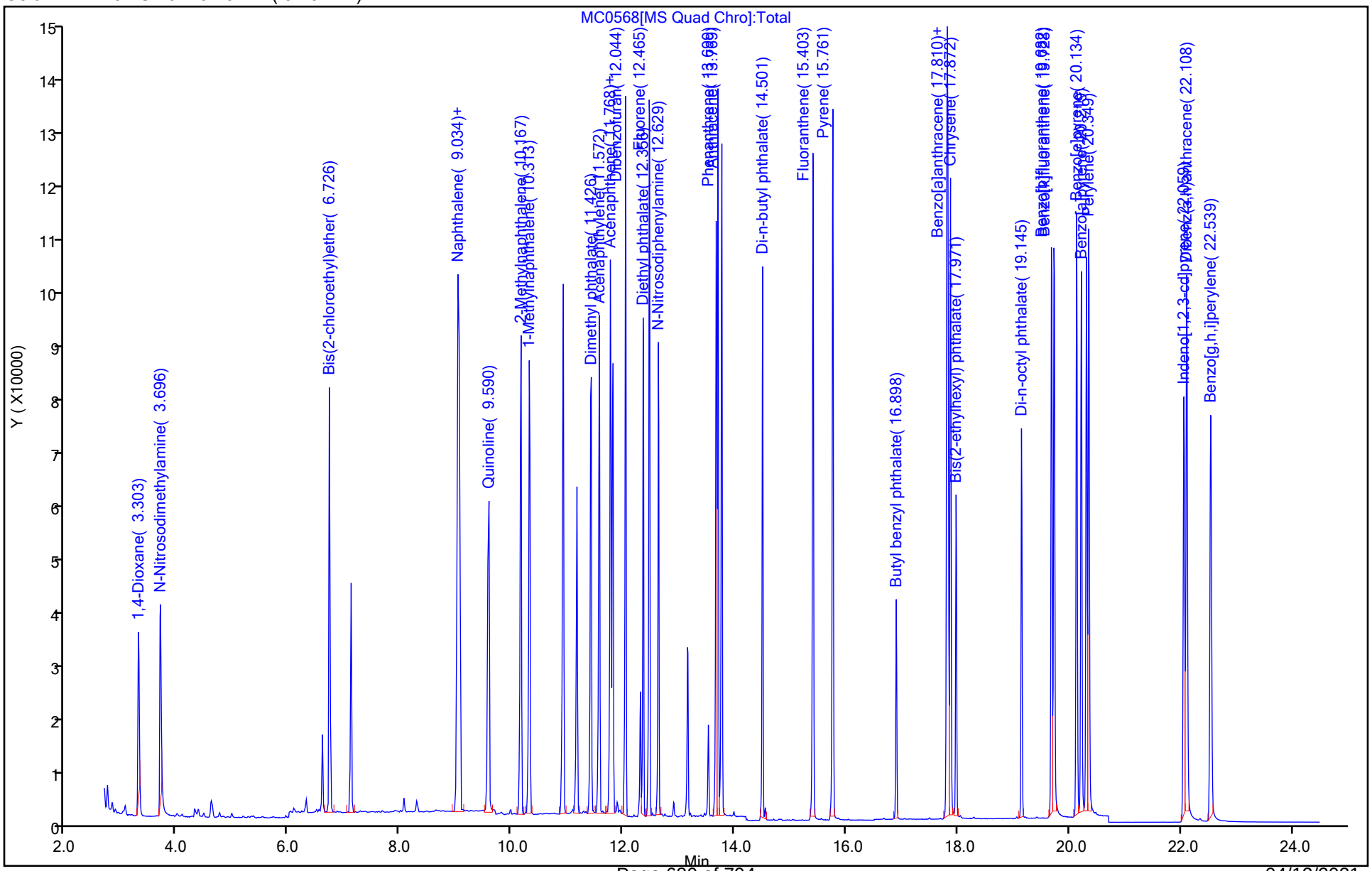
Lims ID: ICV Worklist Smp#: 9

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

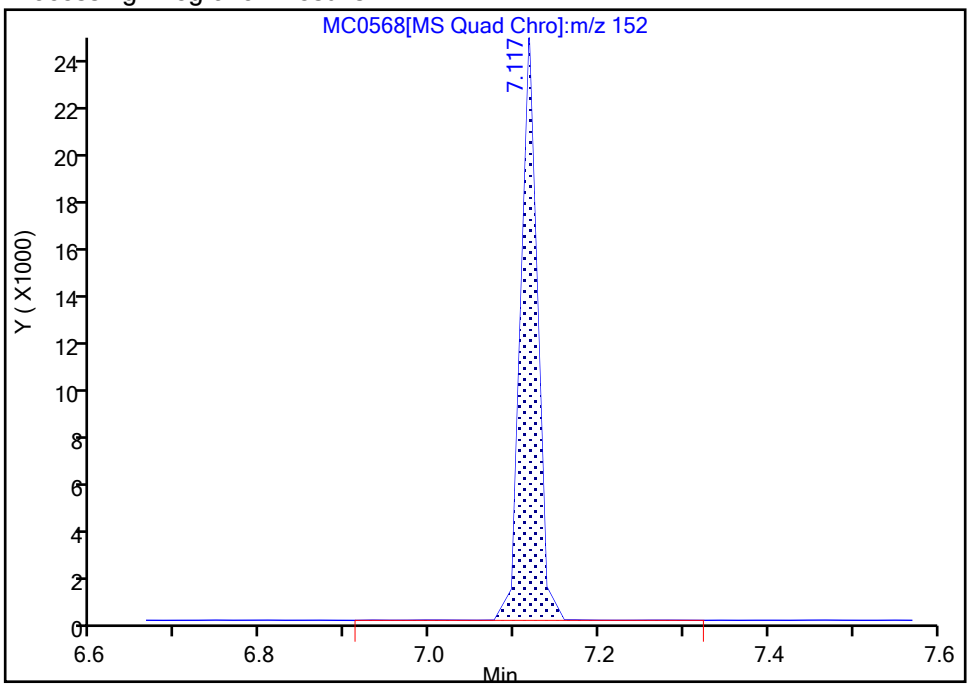
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D				
Injection Date:	19-Mar-2021 16:12:30	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

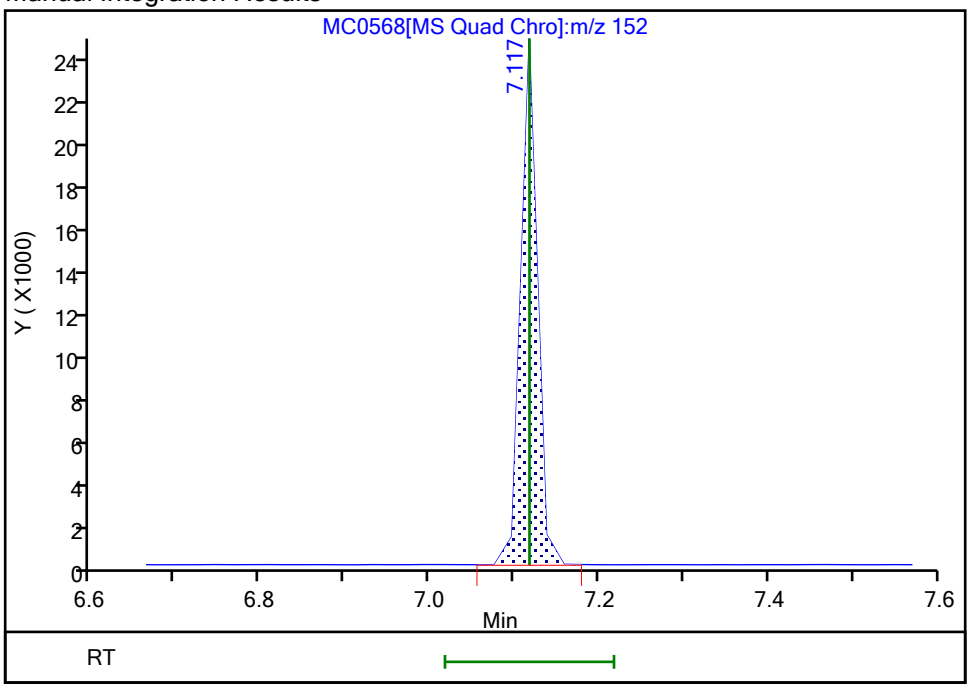
Processing Integration Results

RT: 7.12
Area: 33943
Amount: 0.250000
Amount Units: ug/ml



Manual Integration Results

RT: 7.12
Area: 34007
Amount: 0.250000
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 16:46:44

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

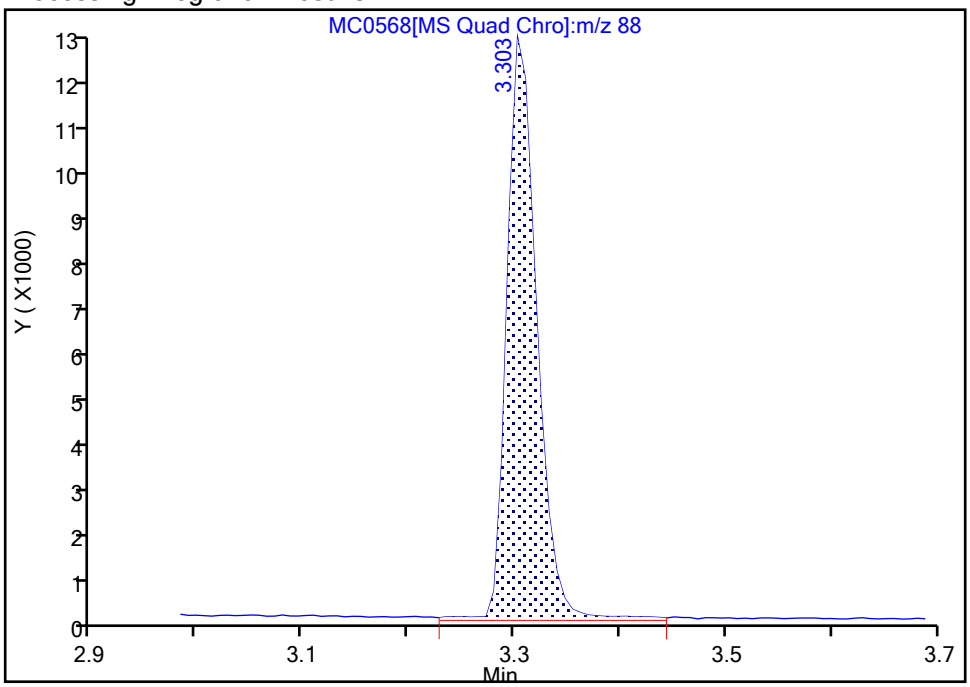
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D				
Injection Date:	19-Mar-2021 16:12:30	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

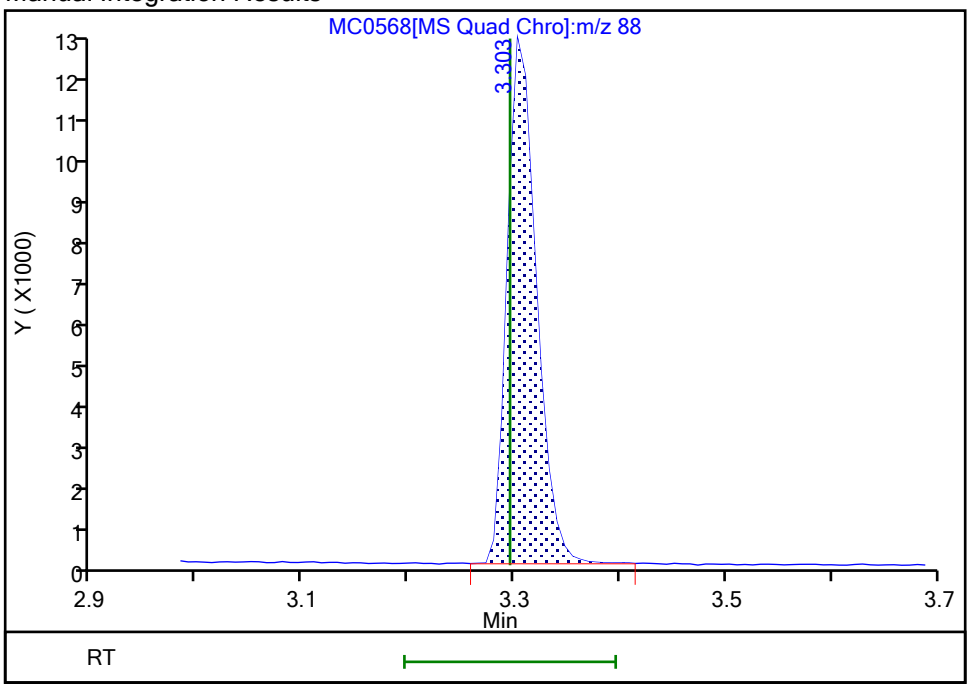
Processing Integration Results

RT: 3.30
Area: 25191
Amount: 0.261143
Amount Units: ug/ml



Manual Integration Results

RT: 3.30
Area: 24334
Amount: 0.251785
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 16:46:31

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

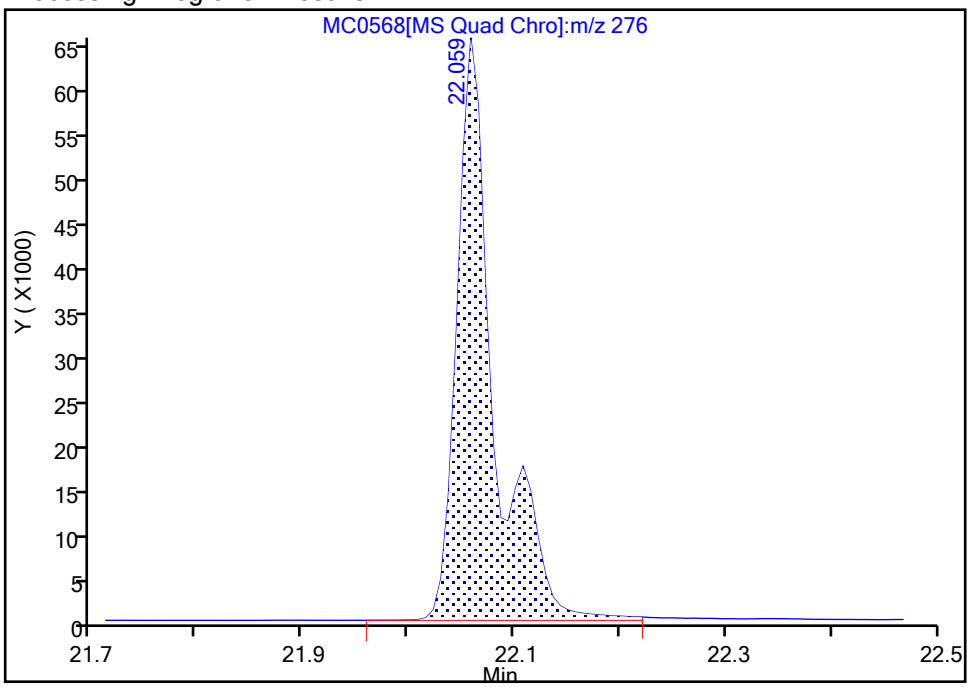
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0568.D				
Injection Date:	19-Mar-2021 16:12:30	Instrument ID:	HP21585		
Lims ID:	ICV				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit 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

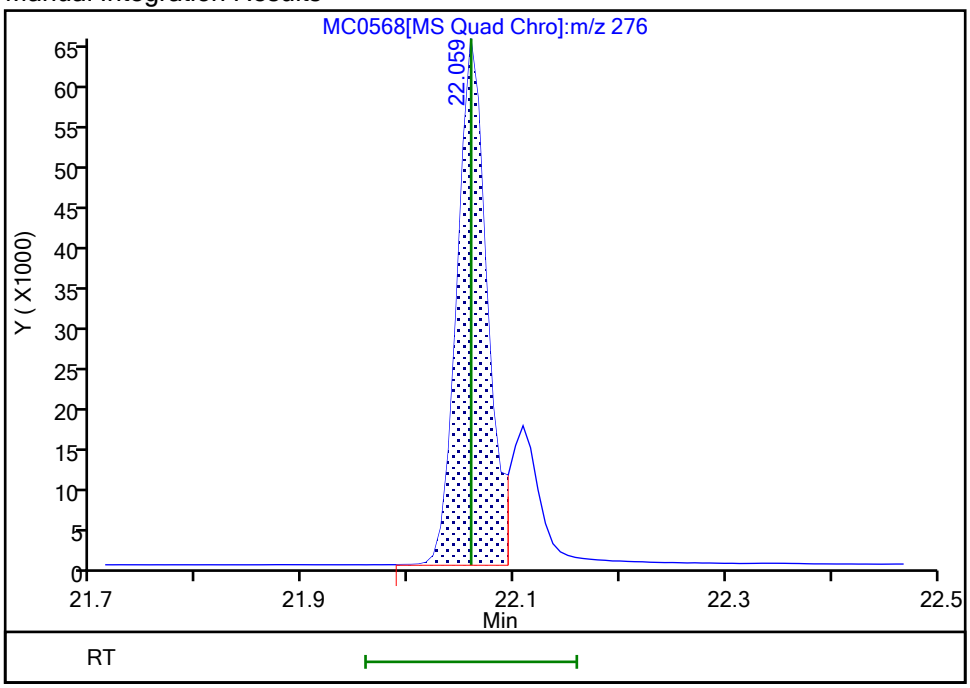
Processing Integration Results

RT: 22.06
Area: 159623
Amount: 0.332091
Amount Units: ug/ml



Manual Integration Results

RT: 22.06
Area: 127222
Amount: 0.264682
Amount Units: ug/ml



Reviewer: transuea, 19-Mar-2021 16:47:34

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.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-111994/2 Calibration Date: 04/07/2021 19:43

Instrument ID: HP21585 Calib Start Date: 03/19/2021 10:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 03/19/2021 15:33

Lab File ID: MD0401.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7105	0.8842		0.622	0.500	24.4*	20.0
N-Nitrosodimethylamine	Ave	0.8186	1.091		0.666	0.500	33.3*	20.0
Bis(2-chloroethyl)ether	Ave	0.3944	0.4306		0.546	0.500	9.2	20.0
Naphthalene	Ave	1.001	1.023		0.511	0.500	2.1	20.0
Quinoline	Ave	0.6512	0.5782		0.444	0.500	-11.2	20.0
2-Methylnaphthalene	Ave	0.6882	0.6736		0.489	0.500	-2.1	20.0
1-Methylnaphthalene	Ave	0.6715	0.6687		0.498	0.500	-0.4	20.0
Dimethylphthalate	Ave	1.293	1.135		2.19	2.50	-12.2	20.0
Acenaphthylene	Ave	1.813	1.778		0.490	0.500	-1.9	20.0
Acenaphthene	Ave	1.170	1.148		0.491	0.500	-1.9	20.0
Diethylphthalate	Ave	1.165	1.085		2.33	2.50	-6.8	20.0
Fluorene	Ave	1.378	1.349		0.490	0.500	-2.1	20.0
N-Nitrosodiphenylamine	Ave	0.4195	0.4337		0.517	0.500	3.4	20.0
Hexachlorobenzene	Ave	0.2122	0.1814		0.427	0.500	-14.5	20.0
Phenanthrene	Ave	1.042	1.010		0.484	0.500	-3.1	20.0
Anthracene	Ave	1.016	1.067		0.525	0.500	5.0	20.0
Di-n-butyl phthalate	Ave	0.9001	0.9811		2.72	2.50	9.0	20.0
Fluoranthene	Ave	1.162	1.226		0.528	0.500	5.5	20.0
Pyrene	Ave	1.435	1.185		0.413	0.500	-17.4	20.0
Butylbenzylphthalate	Ave	0.4243	0.4365		2.57	2.50	2.9	20.0
Benzo[a]anthracene	Ave	1.247	1.164		0.467	0.500	-6.7	20.0
Chrysene	Ave	1.281	1.266		0.494	0.500	-1.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5467	0.6353		2.90	2.50	16.2	20.0
Di-n-octyl phthalate	Ave	0.8968	0.8774		2.45	2.50	-2.2	20.0
Benzo[b]fluoranthene	Ave	1.158	1.015		0.438	0.500	-12.4	20.0
Benzo[k]fluoranthene	Ave	1.224	1.209		0.494	0.500	-1.2	20.0
Benzo[e]pyrene	Ave	1.136	1.047		0.461	0.500	-7.8	20.0
Benzo[a]pyrene	Ave	1.107	1.066		0.481	0.500	-3.7	20.0
Perylene	Ave	1.150	1.083		0.471	0.500	-5.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.057	0.8838		0.418	0.500	-16.3	20.0
Dibenz(a,h)anthracene	Ave	1.211	1.062		0.439	0.500	-12.3	20.0
Benzo[g,h,i]perylene	Ave	1.257	1.073		0.427	0.500	-14.7	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5327	0.5370		0.504	0.500	0.8	20.0
Fluoranthene-d10 (Surr)	Ave	0.9635	1.038		0.539	0.500	7.7	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8705	0.8797		0.505	0.500	1.0	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0401.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Apr-2021 19:43:52 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0026113-002, 5
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 07-Apr-2021 20:42:48 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: transuea Date: 07-Apr-2021 20:25:46

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	3.340	3.340	0.000	94	42259	0.5000	0.6222	M
2 N-Nitrosodimethylamine	74	3.726	3.726	0.000	98	52136	0.5000	0.6663	M
3 Bis(2-chloroethyl)ether	93	6.685	6.685	0.000	84	85610	0.5000	0.5458	
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	92	23898	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.973	8.973	0.000	91	99418	0.2500	0.2500	
6 Naphthalene	128	9.014	9.014	0.000	93	203372	0.5000	0.5107	
7 Quinoline	129	9.529	9.529	0.000	94	114965	0.5000	0.4439	
8 2-Methylnaphthalene	142	10.106	10.106	0.000	99	133937	0.5000	0.4894	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	100	106772	0.5000	0.5040	
10 1-Methylnaphthalene	142	10.265	10.265	0.000	99	132964	0.5000	0.4979	
11 Dimethyl phthalate	163	11.377	11.377	0.000	98	635889	2.50	2.19	
12 Acenaphthylene	152	11.524	11.524	0.000	100	199228	0.5000	0.4903	
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	98	56022	0.2500	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	94	128642	0.5000	0.4906	
15 Dibenzofuran	168	11.993	11.993	0.000	100	193345	0.5000	0.5109	
16 Diethyl phthalate	149	12.313	12.313	0.000	99	607709	2.50	2.33	
17 Fluorene	166	12.423	12.423	0.000	96	151182	0.5000	0.4897	
18 N-Nitrosodiphenylamine	169	12.586	12.586	0.000	99	95264	0.5000	0.5170	
19 Hexachlorobenzene	284	13.109	13.109	0.000	99	39842	0.5000	0.4274	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	97	109823	0.2500	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	221861	0.5000	0.4845	
22 Anthracene	178	13.718	13.718	0.000	100	234457	0.5000	0.5252	
23 Di-n-butyl phthalate	149	14.442	14.442	0.000	100	1077441	2.50	2.72	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	99	227952	0.5000	0.5386	
25 Fluoranthene	202	15.345	15.345	0.000	100	269383	0.5000	0.5275	
26 Pyrene	202	15.702	15.702	0.000	99	282194	0.5000	0.4128	
27 Butyl benzyl phthalate	149	16.834	16.834	0.000	100	519700	2.50	2.57	
28 Benzo[a]anthracene	228	17.747	17.747	0.000	100	277134	0.5000	0.4665	
* 29 Chrysene-d12	240	17.762	17.762	0.000	81	119062	0.2500	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	301444	0.5000	0.4941	

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	17.900	17.900	0.000	98	756395	2.50	2.90	
32 Di-n-octyl phthalate	149	19.066	19.066	0.000	100	1312497	2.50	2.45	
33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	303656	0.5000	0.4381	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	361658	0.5000	0.4940	
35 Benzo[e]pyrene	252	20.071	20.071	0.000	100	313250	0.5000	0.4610	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	263178	0.5000	0.5052	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	318954	0.5000	0.4815	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	149590	0.2500	0.2500	
39 Perylene	252	20.285	20.285	0.000	100	323953	0.5000	0.4709	
40 Indeno[1,2,3-cd]pyrene	276	21.986	21.986	0.000	100	264427	0.5000	0.4183	M
41 Dibenz(a,h)anthracene	278	22.028	22.028	0.000	97	317869	0.5000	0.4386	
42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	320899	0.5000	0.4265	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00015 Amount Added: 1.00 Units: mL

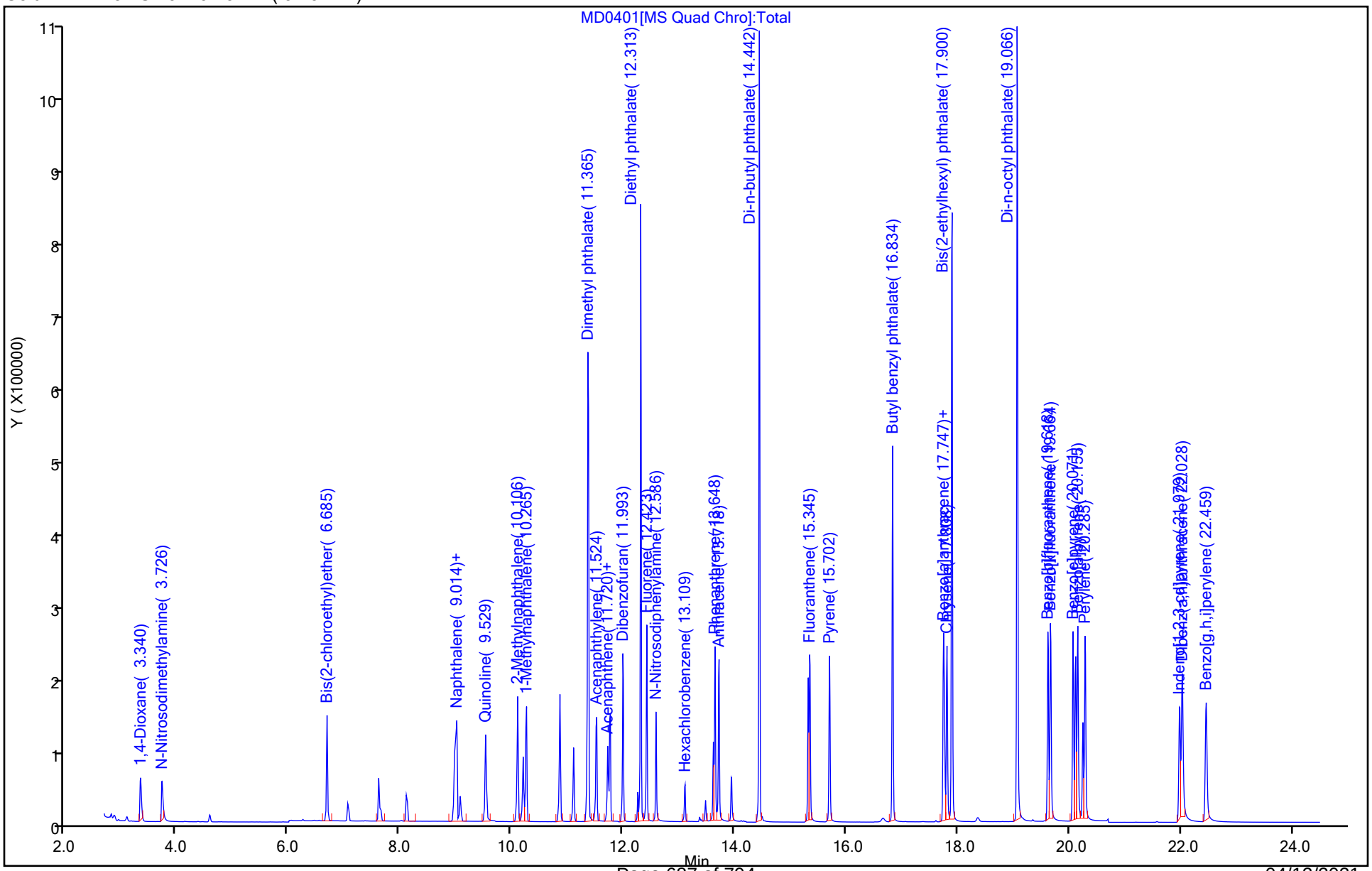
Report Date: 07-Apr-2021 20:42:48 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0401.D

Injection Date:	07-Apr-2021 19:43:52	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS 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

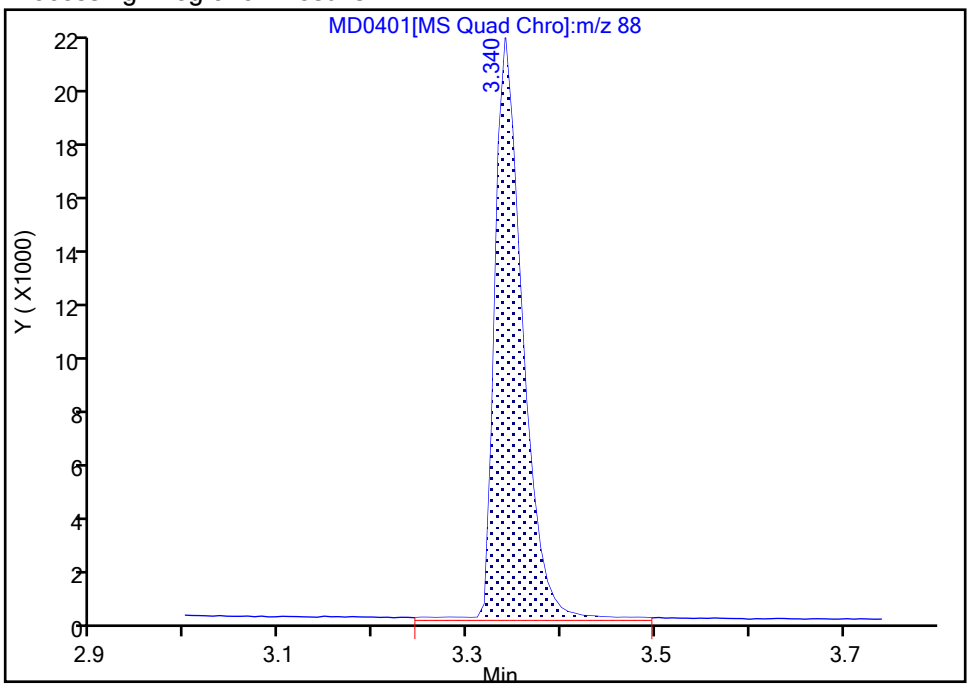
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0401.D				
Injection Date:	07-Apr-2021 19:43:52	Instrument ID:	HP21585		
Lims ID:	CCVIS L4				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

1 1,4-Dioxane, CAS: 123-91-1

Signal: 1

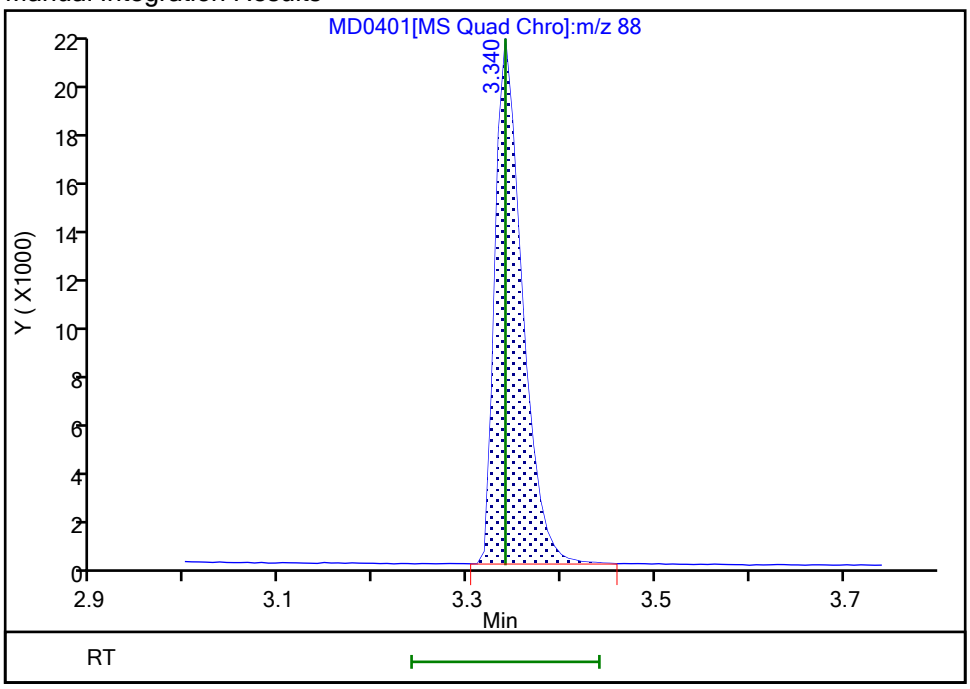
Processing Integration Results

RT: 3.34
Area: 43712
Amount: 0.643610
Amount Units: ug/ml



Manual Integration Results

RT: 3.34
Area: 42259
Amount: 0.622217
Amount Units: ug/ml



Reviewer: transuea, 07-Apr-2021 20:18:44

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

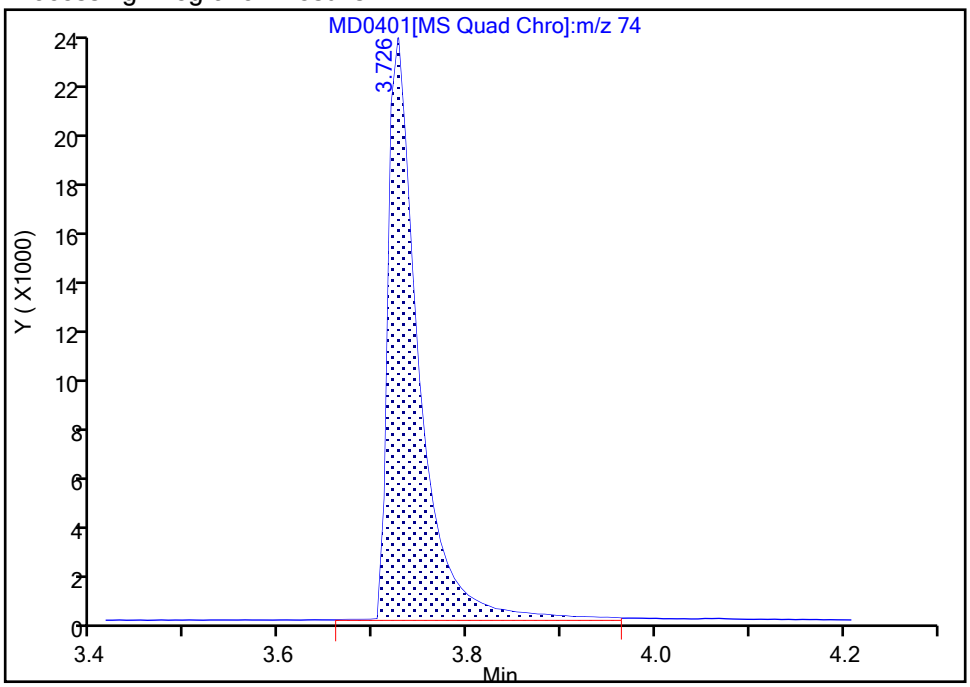
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0401.D				
Injection Date:	07-Apr-2021 19:43:52	Instrument ID:	HP21585		
Lims ID:	CCVIS L4				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

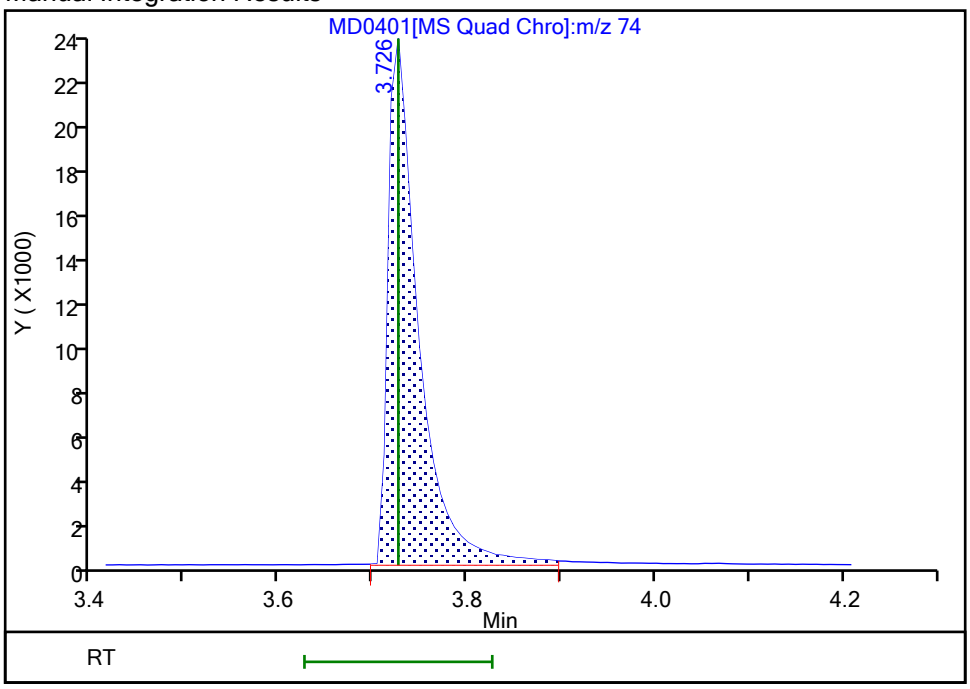
Processing Integration Results

RT: 3.73
Area: 52638
Amount: 0.672670
Amount Units: ug/ml



Manual Integration Results

RT: 3.73
Area: 52136
Amount: 0.666255
Amount Units: ug/ml



Reviewer: transuea, 07-Apr-2021 20:18:57

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

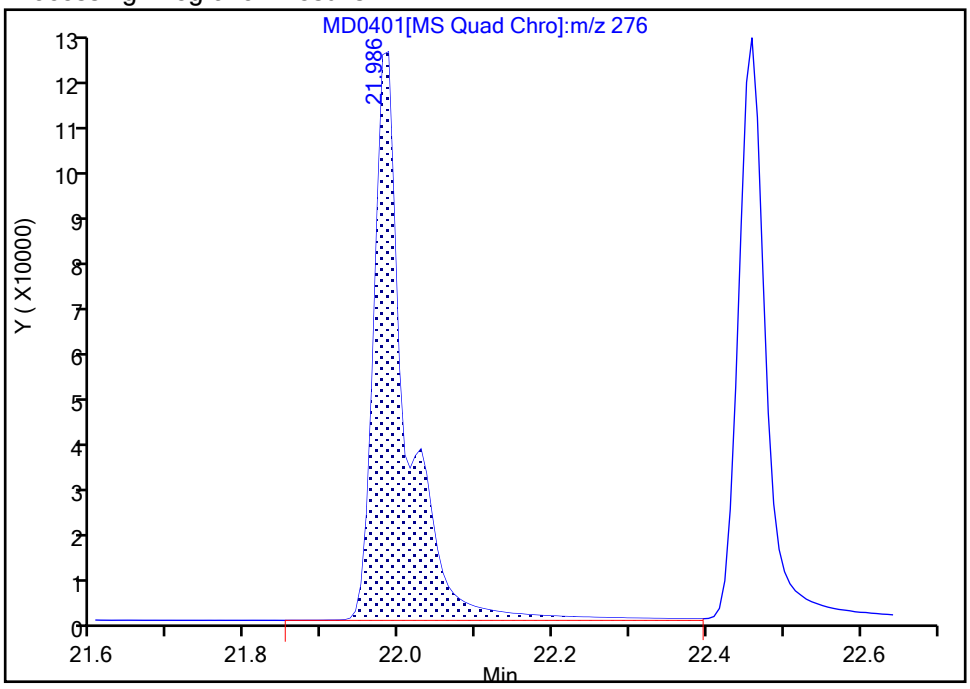
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0401.D				
Injection Date:	07-Apr-2021 19:43:52	Instrument ID:	HP21585		
Lims ID:	CCVIS L4				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

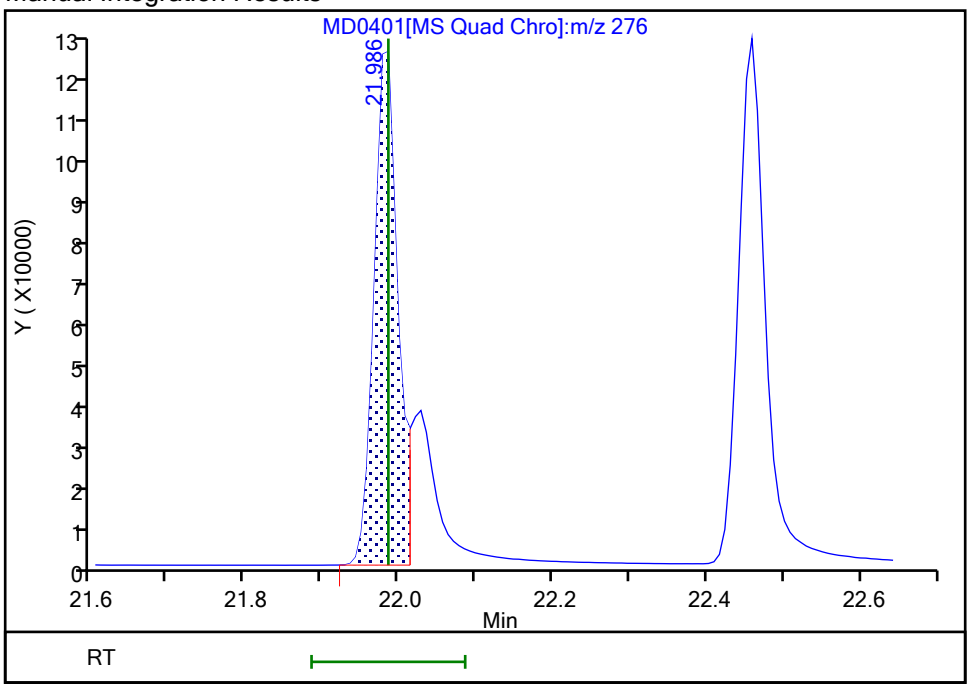
Processing Integration Results

RT: 21.99
Area: 365191
Amount: 0.577642
Amount Units: ug/ml



Manual Integration Results

RT: 21.99
Area: 264427
Amount: 0.418258
Amount Units: ug/ml



Reviewer: transuea, 07-Apr-2021 20:18:00

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.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-111994/2 Calibration Date: 04/07/2021 19:43

Instrument ID: HP21585 Calib Start Date: 03/26/2021 11:56

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 03/26/2021 15:15

Lab File ID: MD0401.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenzofuran	Ave	1.689	1.726		0.511	0.500	2.2	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0401.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Apr-2021 19:43:52 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0026113-002, 5
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 07-Apr-2021 20:42:48 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: transuea Date: 07-Apr-2021 20:25:46

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	3.340	3.340	0.000	94	42259	0.5000	0.6222	M
2 N-Nitrosodimethylamine	74	3.726	3.726	0.000	98	52136	0.5000	0.6663	M
3 Bis(2-chloroethyl)ether	93	6.685	6.685	0.000	84	85610	0.5000	0.5458	
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	92	23898	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.973	8.973	0.000	91	99418	0.2500	0.2500	
6 Naphthalene	128	9.014	9.014	0.000	93	203372	0.5000	0.5107	
7 Quinoline	129	9.529	9.529	0.000	94	114965	0.5000	0.4439	
8 2-Methylnaphthalene	142	10.106	10.106	0.000	99	133937	0.5000	0.4894	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	100	106772	0.5000	0.5040	
10 1-Methylnaphthalene	142	10.265	10.265	0.000	99	132964	0.5000	0.4979	
11 Dimethyl phthalate	163	11.377	11.377	0.000	98	635889	2.50	2.19	
12 Acenaphthylene	152	11.524	11.524	0.000	100	199228	0.5000	0.4903	
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	98	56022	0.2500	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	94	128642	0.5000	0.4906	
15 Dibenzofuran	168	11.993	11.993	0.000	100	193345	0.5000	0.5109	
16 Diethyl phthalate	149	12.313	12.313	0.000	99	607709	2.50	2.33	
17 Fluorene	166	12.423	12.423	0.000	96	151182	0.5000	0.4897	
18 N-Nitrosodiphenylamine	169	12.586	12.586	0.000	99	95264	0.5000	0.5170	
19 Hexachlorobenzene	284	13.109	13.109	0.000	99	39842	0.5000	0.4274	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	97	109823	0.2500	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	221861	0.5000	0.4845	
22 Anthracene	178	13.718	13.718	0.000	100	234457	0.5000	0.5252	
23 Di-n-butyl phthalate	149	14.442	14.442	0.000	100	1077441	2.50	2.72	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	99	227952	0.5000	0.5386	
25 Fluoranthene	202	15.345	15.345	0.000	100	269383	0.5000	0.5275	
26 Pyrene	202	15.702	15.702	0.000	99	282194	0.5000	0.4128	
27 Butyl benzyl phthalate	149	16.834	16.834	0.000	100	519700	2.50	2.57	
28 Benzo[a]anthracene	228	17.747	17.747	0.000	100	277134	0.5000	0.4665	
* 29 Chrysene-d12	240	17.762	17.762	0.000	81	119062	0.2500	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	301444	0.5000	0.4941	

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	17.900	17.900	0.000	98	756395	2.50	2.90	
32 Di-n-octyl phthalate	149	19.066	19.066	0.000	100	1312497	2.50	2.45	
33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	303656	0.5000	0.4381	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	361658	0.5000	0.4940	
35 Benzo[e]pyrene	252	20.071	20.071	0.000	100	313250	0.5000	0.4610	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	263178	0.5000	0.5052	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	318954	0.5000	0.4815	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	149590	0.2500	0.2500	
39 Perylene	252	20.285	20.285	0.000	100	323953	0.5000	0.4709	
40 Indeno[1,2,3-cd]pyrene	276	21.986	21.986	0.000	100	264427	0.5000	0.4183	M
41 Dibenz(a,h)anthracene	278	22.028	22.028	0.000	97	317869	0.5000	0.4386	
42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	320899	0.5000	0.4265	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00015 Amount Added: 1.00 Units: mL

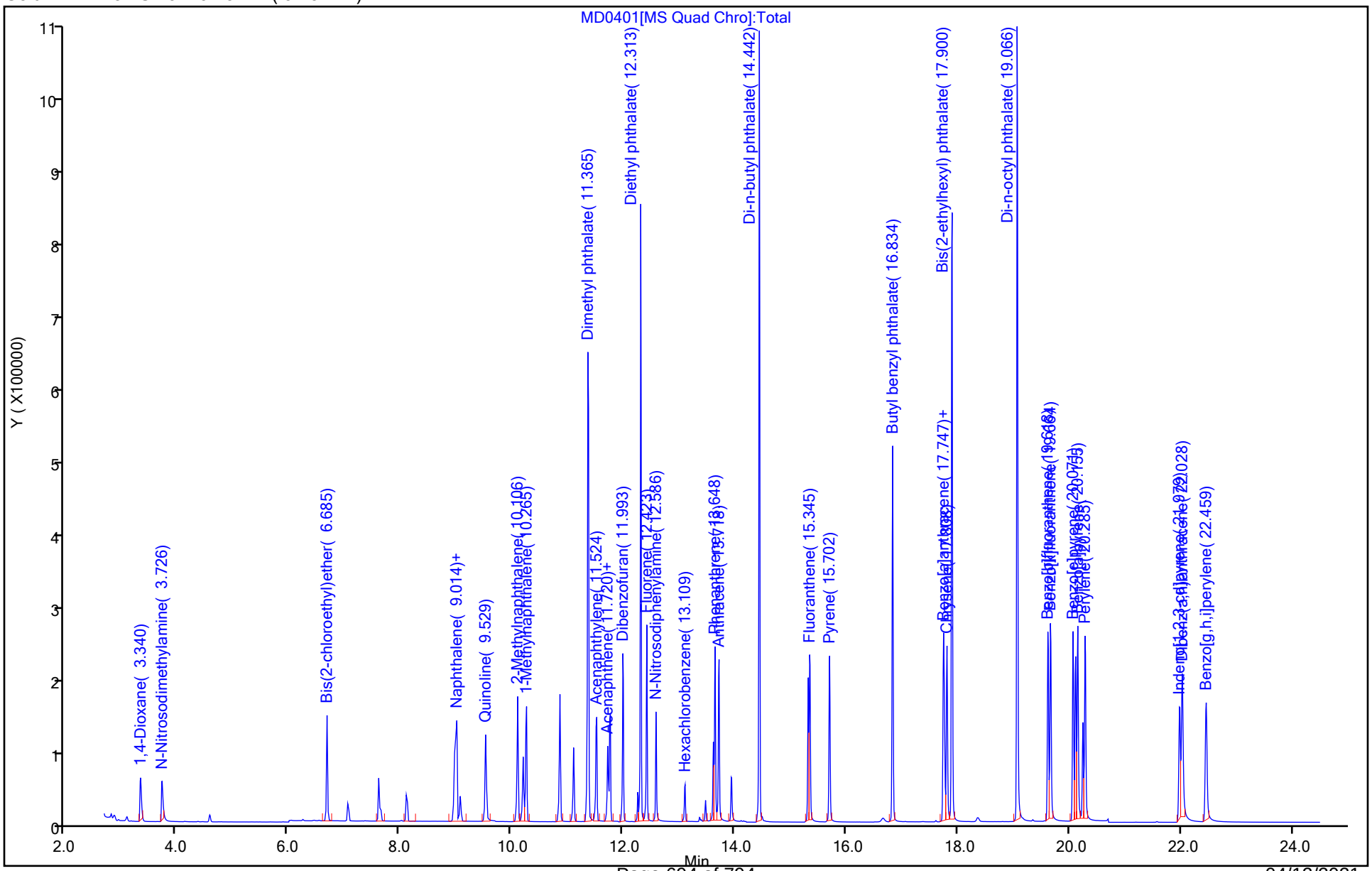
Report Date: 07-Apr-2021 20:42:48 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0401.D

Injection Date:	07-Apr-2021 19:43:52	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS 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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-112126/2 Calibration Date: 04/08/2021 06:36

Instrument ID: HP21585 Calib Start Date: 03/19/2021 10:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 03/19/2021 15:33

Lab File ID: MD0451.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7105	0.7724		0.544	0.500	8.7	20.0
N-Nitrosodimethylamine	Ave	0.8186	0.9550		0.583	0.500	16.7	20.0
Bis(2-chloroethyl)ether	Ave	0.3944	0.4316		0.547	0.500	9.4	20.0
Naphthalene	Ave	1.001	1.051		0.525	0.500	5.0	20.0
Quinoline	Ave	0.6512	0.5769		0.443	0.500	-11.4	20.0
2-Methylnaphthalene	Ave	0.6882	0.6799		0.494	0.500	-1.2	20.0
1-Methylnaphthalene	Ave	0.6715	0.6776		0.505	0.500	0.9	20.0
Dimethylphthalate	Ave	1.293	1.114		2.15	2.50	-13.9	20.0
Acenaphthylene	Ave	1.813	1.749		0.482	0.500	-3.6	20.0
Acenaphthene	Ave	1.170	1.124		0.480	0.500	-3.9	20.0
Diethylphthalate	Ave	1.165	1.041		2.23	2.50	-10.6	20.0
Fluorene	Ave	1.378	1.301		0.472	0.500	-5.6	20.0
N-Nitrosodiphenylamine	Ave	0.4195	0.4604		0.549	0.500	9.8	20.0
Hexachlorobenzene	Ave	0.2122	0.1870		0.441	0.500	-11.9	20.0
Phenanthrene	Ave	1.042	1.014		0.486	0.500	-2.7	20.0
Anthracene	Ave	1.016	1.088		0.535	0.500	7.0	20.0
Di-n-butyl phthalate	Ave	0.9001	0.998		2.77	2.50	10.9	20.0
Fluoranthene	Ave	1.162	1.273		0.547	0.500	9.5	20.0
Pyrene	Ave	1.435	1.174		0.409	0.500	-18.2	20.0
Butylbenzylphthalate	Ave	0.4243	0.4378		2.58	2.50	3.2	20.0
Benzo[a]anthracene	Ave	1.247	1.192		0.478	0.500	-4.4	20.0
Chrysene	Ave	1.281	1.292		0.504	0.500	0.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5467	0.6531		2.99	2.50	19.4	20.0
Di-n-octyl phthalate	Ave	0.8968	0.9083		2.53	2.50	1.3	20.0
Benzo[b]fluoranthene	Ave	1.158	1.024		0.442	0.500	-11.6	20.0
Benzo[k]fluoranthene	Ave	1.224	1.209		0.494	0.500	-1.2	20.0
Benzo[e]pyrene	Ave	1.136	1.055		0.465	0.500	-7.1	20.0
Benzo[a]pyrene	Ave	1.107	1.065		0.481	0.500	-3.8	20.0
Perylene	Ave	1.150	1.101		0.479	0.500	-4.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.057	0.8584		0.406	0.500	-18.8	20.0
Dibenz(a,h)anthracene	Ave	1.211	1.034		0.427	0.500	-14.6	20.0
Benzo[g,h,i]perylene	Ave	1.257	1.053		0.419	0.500	-16.3	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5327	0.5424		0.509	0.500	1.8	20.0
Fluoranthene-d10 (Surr)	Ave	0.9635	1.098		0.570	0.500	14.0	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8705	0.8839		0.508	0.500	1.5	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0451.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Apr-2021 06:36:50 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0026143-002, 5
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 07:22:04 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 07:21:58

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	3.340	3.340	0.000	95	45982	0.5000	0.5435	
2 N-Nitrosodimethylamine	74	3.726	3.726	0.000	100	56854	0.5000	0.5833	
3 Bis(2-chloroethyl)ether	93	6.685	6.685	0.000	77	95199	0.5000	0.5471	
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	87	29767	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	91	110298	0.2500	0.2500	
6 Naphthalene	128	9.014	9.014	0.000	93	231921	0.5000	0.5249	
7 Quinoline	129	9.529	9.529	0.000	95	127270	0.5000	0.4430	
8 2-Methylnaphthalene	142	10.105	10.105	0.000	98	149979	0.5000	0.4940	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.203	0.000	100	119646	0.5000	0.5090	
10 1-Methylnaphthalene	142	10.264	10.264	0.000	99	149471	0.5000	0.5045	
11 Dimethyl phthalate	163	11.377	11.377	0.000	100	715166	2.50	2.15	
12 Acenaphthylene	152	11.524	11.524	0.000	100	224550	0.5000	0.4822	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	97	64200	0.2500	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	94	144311	0.5000	0.4803	
15 Dibenzofuran	168	11.993	11.993	0.000	100	214139	0.5000	0.4938	
16 Diethyl phthalate	149	12.313	12.313	0.000	99	668161	2.50	2.23	
17 Fluorene	166	12.422	12.422	0.000	96	167027	0.5000	0.4721	
18 N-Nitrosodiphenylamine	169	12.586	12.586	0.000	98	110543	0.5000	0.5488	
19 Hexachlorobenzene	284	13.109	13.109	0.000	99	44894	0.5000	0.4406	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	97	120051	0.2500	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	243423	0.5000	0.4863	
22 Anthracene	178	13.718	13.718	0.000	100	261175	0.5000	0.5352	
23 Di-n-butyl phthalate	149	14.442	14.442	0.000	100	1198371	2.50	2.77	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.319	0.000	98	263671	0.5000	0.5699	
25 Fluoranthene	202	15.351	15.351	0.000	100	305588	0.5000	0.5474	
26 Pyrene	202	15.702	15.702	0.000	100	323672	0.5000	0.4090	
27 Butyl benzyl phthalate	149	16.834	16.834	0.000	100	603453	2.50	2.58	
28 Benzo[a]anthracene	228	17.746	17.746	0.000	100	328664	0.5000	0.4779	
* 29 Chrysene-d12	240	17.762	17.762	0.000	83	137837	0.2500	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	356151	0.5000	0.5042	

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	17.900	17.900	0.000	98	900146	2.50	2.99	
32 Di-n-octyl phthalate	149	19.066	19.066	0.000	100	1564588	2.50	2.53	
33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	352623	0.5000	0.4418	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	416582	0.5000	0.4942	
35 Benzo[e]pyrene	252	20.070	20.070	0.000	100	363587	0.5000	0.4647	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.116	0.000	99	304518	0.5000	0.5077	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	366837	0.5000	0.4809	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	172250	0.2500	0.2500	
39 Perylene	252	20.285	20.285	0.000	100	379435	0.5000	0.4790	
40 Indeno[1,2,3-cd]pyrene	276	21.985	21.985	0.000	100	295731	0.5000	0.4062	M
41 Dibenz(a,h)anthracene	278	22.035	22.035	0.000	98	356278	0.5000	0.4269	
42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	362603	0.5000	0.4186	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00015 Amount Added: 1.00 Units: mL

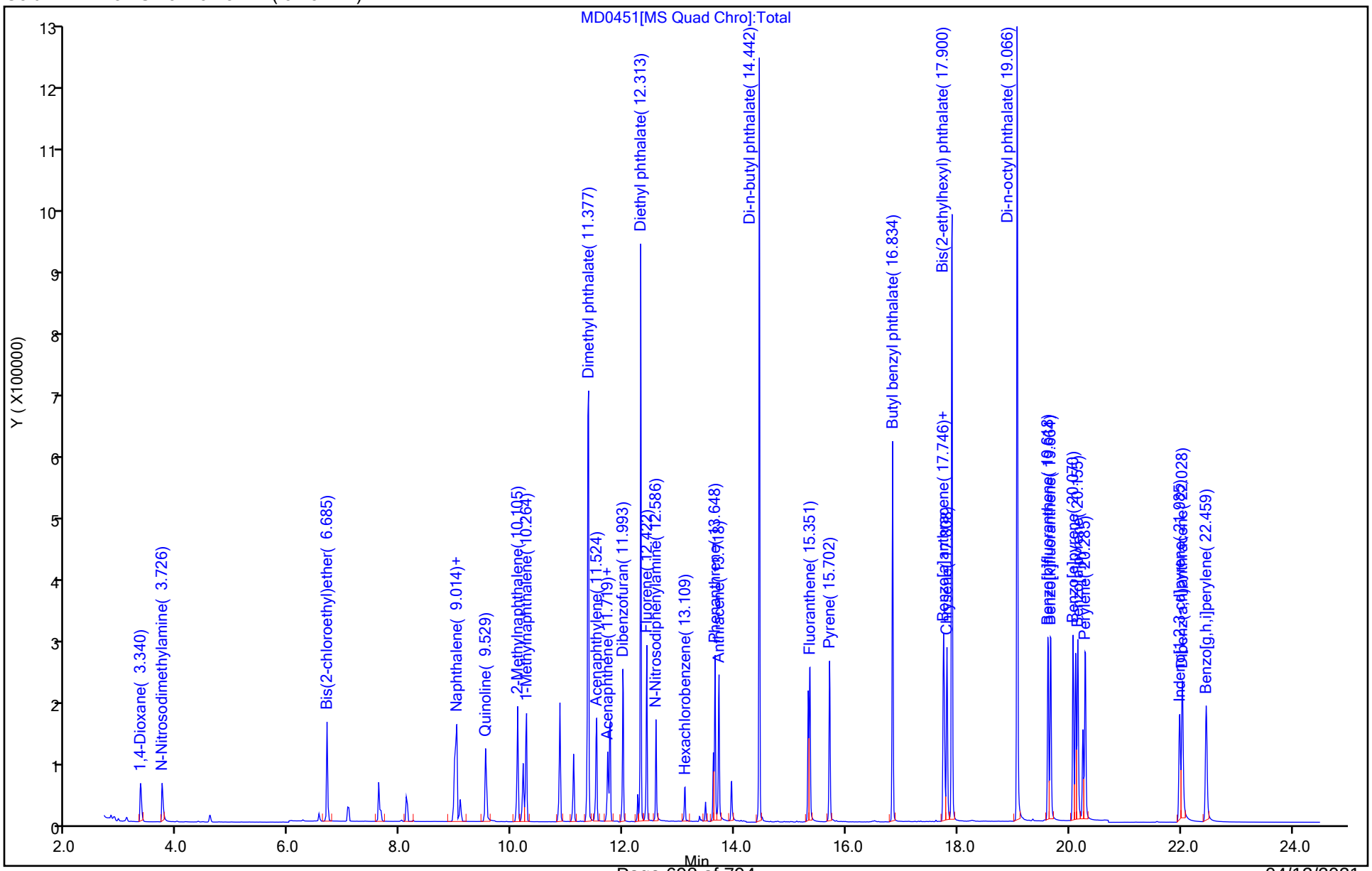
Report Date: 08-Apr-2021 07:22:04 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0451.D

Injection Date:	08-Apr-2021 06:36:50	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	CCVIS 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

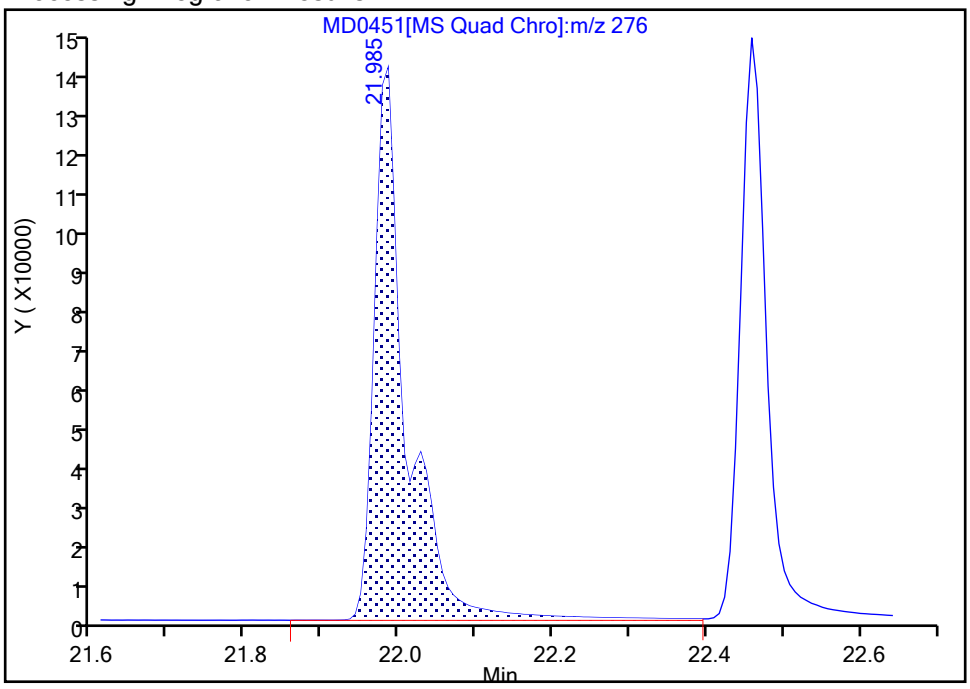
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0451.D				
Injection Date:	08-Apr-2021 06:36:50	Instrument ID:	HP21585		
Lims ID:	CCVIS L4				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

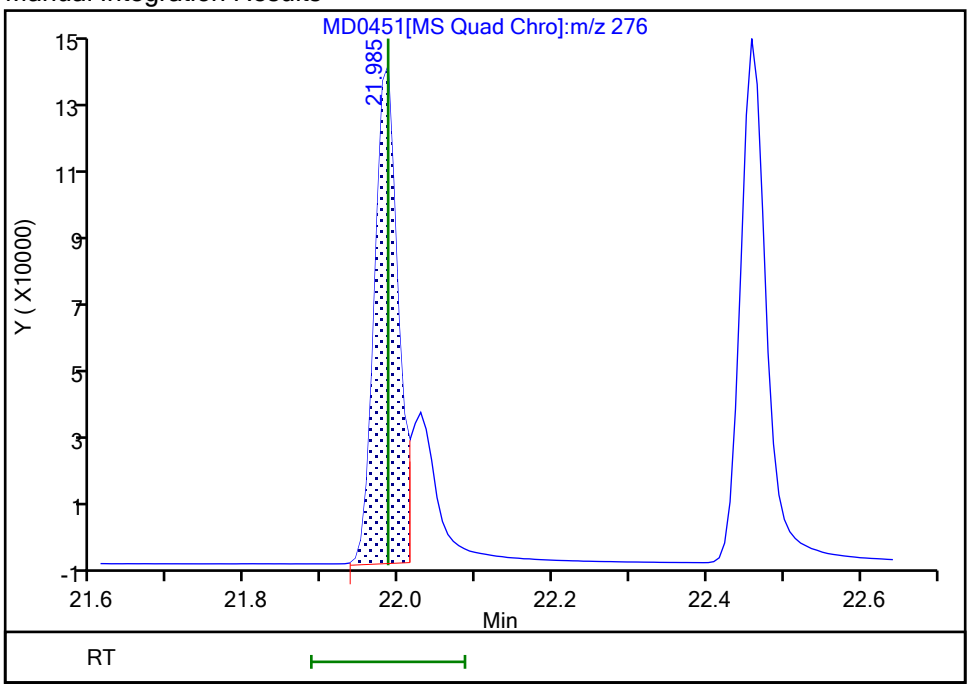
Processing Integration Results

RT: 21.99
Area: 411112
Amount: 0.564732
Amount Units: ug/ml



Manual Integration Results

RT: 21.99
Area: 295731
Amount: 0.406236
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 07:21:07

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-112126/2 Calibration Date: 04/08/2021 06:36

Instrument ID: HP21585 Calib Start Date: 03/26/2021 11:56

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 03/26/2021 15:15

Lab File ID: MD0451.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenzofuran	Ave	1.689	1.668		0.494	0.500	-1.2	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0451.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Apr-2021 06:36:50 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0026143-002, 5
Operator ID: jmg00346 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 07:22:04 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 07:21:58

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	3.340	3.340	0.000	95	45982	0.5000	0.5435	
2 N-Nitrosodimethylamine	74	3.726	3.726	0.000	100	56854	0.5000	0.5833	
3 Bis(2-chloroethyl)ether	93	6.685	6.685	0.000	77	95199	0.5000	0.5471	
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	87	29767	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	91	110298	0.2500	0.2500	
6 Naphthalene	128	9.014	9.014	0.000	93	231921	0.5000	0.5249	
7 Quinoline	129	9.529	9.529	0.000	95	127270	0.5000	0.4430	
8 2-Methylnaphthalene	142	10.105	10.105	0.000	98	149979	0.5000	0.4940	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.203	0.000	100	119646	0.5000	0.5090	
10 1-Methylnaphthalene	142	10.264	10.264	0.000	99	149471	0.5000	0.5045	
11 Dimethyl phthalate	163	11.377	11.377	0.000	100	715166	2.50	2.15	
12 Acenaphthylene	152	11.524	11.524	0.000	100	224550	0.5000	0.4822	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	97	64200	0.2500	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	94	144311	0.5000	0.4803	
15 Dibenzofuran	168	11.993	11.993	0.000	100	214139	0.5000	0.4938	
16 Diethyl phthalate	149	12.313	12.313	0.000	99	668161	2.50	2.23	
17 Fluorene	166	12.422	12.422	0.000	96	167027	0.5000	0.4721	
18 N-Nitrosodiphenylamine	169	12.586	12.586	0.000	98	110543	0.5000	0.5488	
19 Hexachlorobenzene	284	13.109	13.109	0.000	99	44894	0.5000	0.4406	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	97	120051	0.2500	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	243423	0.5000	0.4863	
22 Anthracene	178	13.718	13.718	0.000	100	261175	0.5000	0.5352	
23 Di-n-butyl phthalate	149	14.442	14.442	0.000	100	1198371	2.50	2.77	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.319	0.000	98	263671	0.5000	0.5699	
25 Fluoranthene	202	15.351	15.351	0.000	100	305588	0.5000	0.5474	
26 Pyrene	202	15.702	15.702	0.000	100	323672	0.5000	0.4090	
27 Butyl benzyl phthalate	149	16.834	16.834	0.000	100	603453	2.50	2.58	
28 Benzo[a]anthracene	228	17.746	17.746	0.000	100	328664	0.5000	0.4779	
* 29 Chrysene-d12	240	17.762	17.762	0.000	83	137837	0.2500	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	356151	0.5000	0.5042	

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	17.900	17.900	0.000	98	900146	2.50	2.99	
32 Di-n-octyl phthalate	149	19.066	19.066	0.000	100	1564588	2.50	2.53	
33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	352623	0.5000	0.4418	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	416582	0.5000	0.4942	
35 Benzo[e]pyrene	252	20.070	20.070	0.000	100	363587	0.5000	0.4647	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.116	0.000	99	304518	0.5000	0.5077	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	366837	0.5000	0.4809	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	172250	0.2500	0.2500	
39 Perylene	252	20.285	20.285	0.000	100	379435	0.5000	0.4790	
40 Indeno[1,2,3-cd]pyrene	276	21.985	21.985	0.000	100	295731	0.5000	0.4062	M
41 Dibenz(a,h)anthracene	278	22.035	22.035	0.000	98	356278	0.5000	0.4269	
42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	362603	0.5000	0.4186	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00015 Amount Added: 1.00 Units: mL

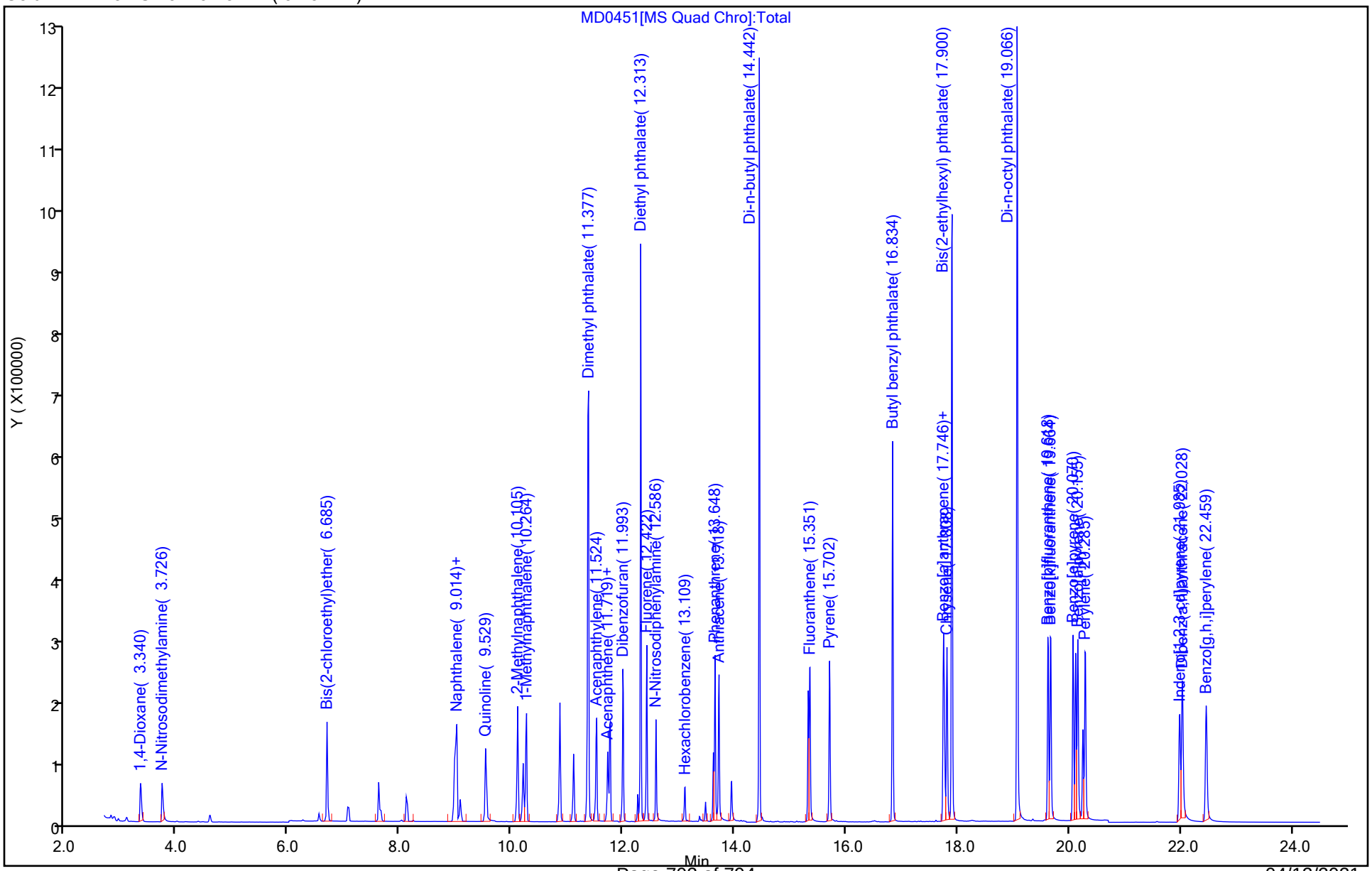
Report Date: 08-Apr-2021 07:22:04 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0451.D

Injection Date:	08-Apr-2021 06:36:50	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	CCVIS 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)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-112543/2 Calibration Date: 04/08/2021 21:39

Instrument ID: HP21585 Calib Start Date: 03/19/2021 10:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 03/19/2021 15:33

Lab File ID: MD0501.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7105	0.7338		0.516	0.500	3.3	20.0
N-Nitrosodimethylamine	Ave	0.8186	0.9020		0.551	0.500	10.2	20.0
Bis(2-chloroethyl)ether	Ave	0.3944	0.4125		0.523	0.500	4.6	20.0
Naphthalene	Ave	1.001	0.9595		0.479	0.500	-4.2	20.0
Quinoline	Ave	0.6512	0.5787		0.444	0.500	-11.1	20.0
2-Methylnaphthalene	Ave	0.6882	0.6583		0.478	0.500	-4.3	20.0
1-Methylnaphthalene	Ave	0.6715	0.6465		0.481	0.500	-3.7	20.0
Dimethylphthalate	Ave	1.293	1.140		2.20	2.50	-11.9	20.0
Acenaphthylene	Ave	1.813	1.714		0.472	0.500	-5.5	20.0
Acenaphthene	Ave	1.170	1.101		0.471	0.500	-5.9	20.0
Diethylphthalate	Ave	1.165	1.095		2.35	2.50	-6.0	20.0
Fluorene	Ave	1.378	1.338		0.486	0.500	-2.9	20.0
N-Nitrosodiphenylamine	Ave	0.4195	0.4284		0.511	0.500	2.1	20.0
Hexachlorobenzene	Ave	0.2122	0.1931		0.455	0.500	-9.0	20.0
Phenanthrene	Ave	1.042	1.030		0.494	0.500	-1.2	20.0
Anthracene	Ave	1.016	1.004		0.494	0.500	-1.2	20.0
Di-n-butyl phthalate	Ave	0.9001	0.9529		2.65	2.50	5.9	20.0
Fluoranthene	Ave	1.162	1.215		0.523	0.500	4.5	20.0
Pyrene	Ave	1.435	1.275		0.444	0.500	-11.2	20.0
Butylbenzylphthalate	Ave	0.4243	0.4255		2.51	2.50	0.3	20.0
Benzo[a]anthracene	Ave	1.247	1.211		0.485	0.500	-2.9	20.0
Chrysene	Ave	1.281	1.220		0.476	0.500	-4.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5467	0.6001		2.74	2.50	9.8	20.0
Di-n-octyl phthalate	Ave	0.8968	0.9143		2.55	2.50	2.0	20.0
Benzo[b]fluoranthene	Ave	1.158	1.100		0.475	0.500	-5.0	20.0
Benzo[k]fluoranthene	Ave	1.224	1.186		0.485	0.500	-3.0	20.0
Benzo[e]pyrene	Ave	1.136	1.081		0.476	0.500	-4.8	20.0
Benzo[a]pyrene	Ave	1.107	1.078		0.487	0.500	-2.6	20.0
Perylene	Ave	1.150	1.061		0.461	0.500	-7.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.057	0.996		0.471	0.500	-5.7	20.0
Dibenz(a,h)anthracene	Ave	1.211	1.179		0.487	0.500	-2.7	20.0
Benzo[g,h,i]perylene	Ave	1.257	1.202		0.478	0.500	-4.4	20.0
1-Methylnaphthalene-d10 (Surr)	Ave	0.5327	0.5299		0.497	0.500	-0.5	20.0
Fluoranthene-d10 (Surr)	Ave	0.9635	1.041		0.540	0.500	8.1	20.0
Benzo(a)pyrene-d12 (Surr)	Ave	0.8705	0.9086		0.522	0.500	4.4	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0501.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Apr-2021 21:39:49 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0026241-002, 5
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 22:26:15 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: transuea Date: 08-Apr-2021 22:22:51

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	3.333	3.333	0.000	97	41333	0.5000	0.5164	
2 N-Nitrosodimethylamine	74	3.711	3.711	0.000	100	50804	0.5000	0.5509	
3 Bis(2-chloroethyl)ether	93	6.664	6.664	0.000	92	87244	0.5000	0.5229	
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	98	28162	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.952	8.952	0.000	92	105756	0.2500	0.2500	
6 Naphthalene	128	8.993	8.993	0.000	92	202941	0.5000	0.4790	
7 Quinoline	129	9.508	9.508	0.000	96	122403	0.5000	0.4443	
8 2-Methylnaphthalene	142	10.081	10.081	0.000	99	139246	0.5000	0.4783	
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	100	112072	0.5000	0.4973	
10 1-Methylnaphthalene	142	10.240	10.240	0.000	97	136739	0.5000	0.4814	
11 Dimethyl phthalate	163	11.353	11.353	0.000	94	705117	2.50	2.20	
12 Acenaphthylene	152	11.499	11.499	0.000	100	212010	0.5000	0.4725	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	95	61859	0.2500	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	136229	0.5000	0.4705	
15 Dibenzofuran	168	11.977	11.977	0.000	100	210981	0.5000	0.5049	
16 Diethyl phthalate	149	12.297	12.297	0.000	100	677061	2.50	2.35	
17 Fluorene	166	12.407	12.407	0.000	98	165525	0.5000	0.4856	
18 N-Nitrosodiphenylamine	169	12.571	12.571	0.000	99	104610	0.5000	0.5107	
19 Hexachlorobenzene	284	13.086	13.086	0.000	97	47159	0.5000	0.4551	
* 20 Phenanthrene-d10	188	13.593	13.593	0.000	98	122089	0.2500	0.2500	
21 Phenanthrene	178	13.624	13.624	0.000	100	251436	0.5000	0.4939	
22 Anthracene	178	13.695	13.695	0.000	100	245141	0.5000	0.4939	
23 Di-n-butyl phthalate	149	14.423	14.423	0.000	100	1163328	2.50	2.65	
$ 24 Fluoranthene-d10 (Surr)	212	15.294	15.294	0.000	99	254255	0.5000	0.5403	
25 Fluoranthene	202	15.326	15.326	0.000	100	296663	0.5000	0.5226	
26 Pyrene	202	15.677	15.677	0.000	99	308786	0.5000	0.4442	
27 Butyl benzyl phthalate	149	16.811	16.811	0.000	100	515039	2.50	2.51	
28 Benzo[a]anthracene	228	17.724	17.724	0.000	100	293187	0.5000	0.4854	
* 29 Chrysene-d12	240	17.739	17.739	0.000	74	121054	0.2500	0.2500	
30 Chrysene	228	17.785	17.785	0.000	100	295278	0.5000	0.4760	

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	17.877	17.877	0.000	98	726505	2.50	2.74	
32 Di-n-octyl phthalate	149	19.043	19.043	0.000	100	1240493	2.50	2.55	
33 Benzo[b]fluoranthene	252	19.595	19.595	0.000	100	298537	0.5000	0.4749	
34 Benzo[k]fluoranthene	252	19.641	19.641	0.000	100	321872	0.5000	0.4848	
35 Benzo[e]pyrene	252	20.047	20.047	0.000	100	293420	0.5000	0.4761	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.093	20.093	0.000	99	246553	0.5000	0.5219	
37 Benzo[a]pyrene	252	20.132	20.132	0.000	100	292589	0.5000	0.4870	
* 38 Perylene-d12	264	20.224	20.224	0.000	99	135670	0.2500	0.2500	
39 Perylene	252	20.262	20.262	0.000	100	287861	0.5000	0.4614	
40 Indeno[1,2,3-cd]pyrene	276	21.950	21.950	0.000	99	270306	0.5000	0.4714	M
41 Dibenz(a,h)anthracene	278	22.000	22.000	0.000	98	319826	0.5000	0.4865	
42 Benzo[g,h,i]perylene	276	22.423	22.423	0.000	97	326244	0.5000	0.4781	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00015 Amount Added: 1.00 Units: mL

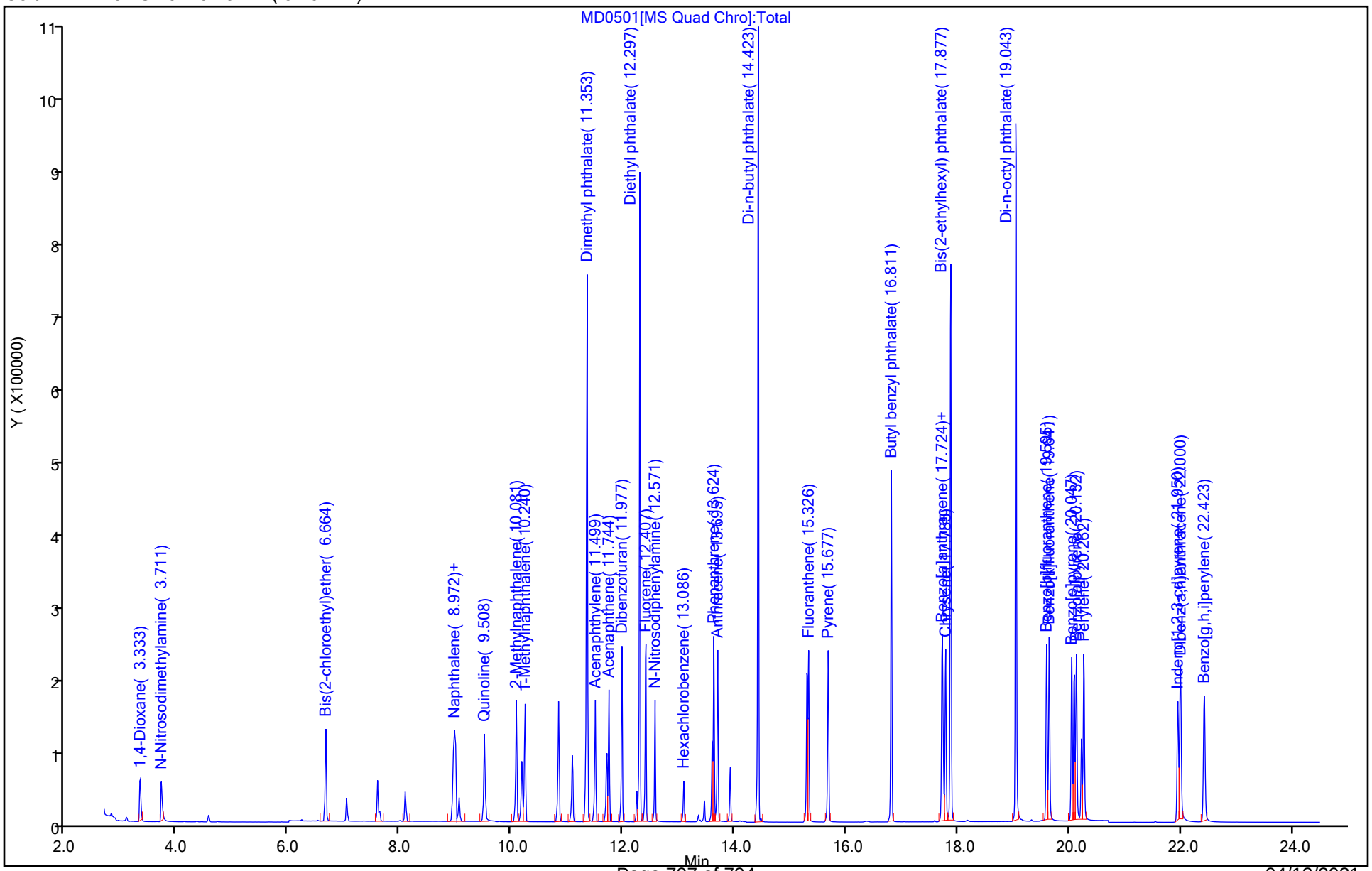
Report Date: 08-Apr-2021 22:26:16 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0501.D

Injection Date:	08-Apr-2021 21:39:49	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS 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

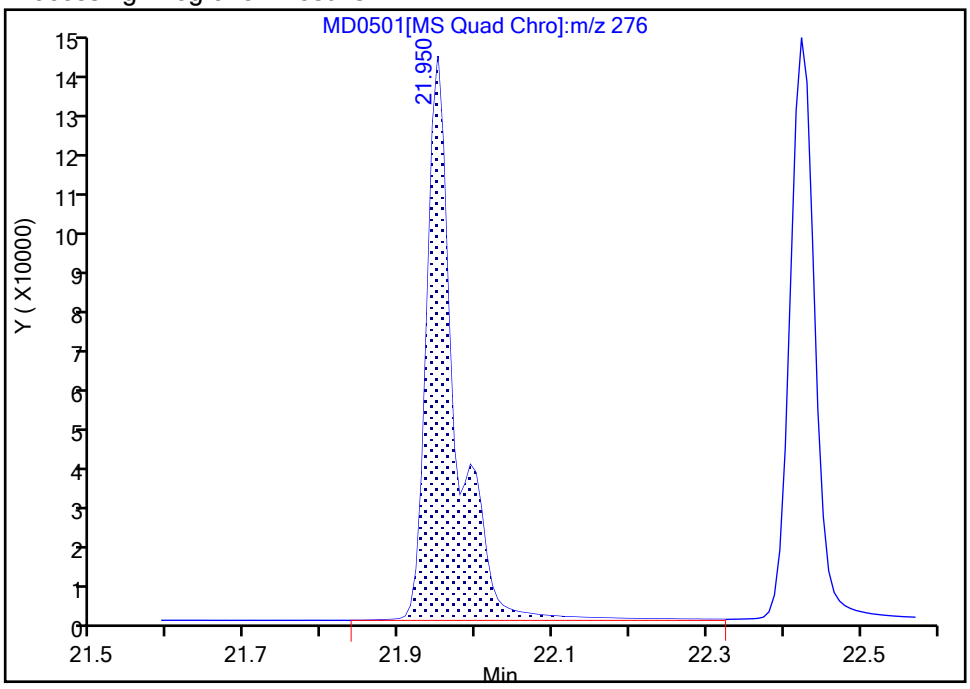
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0501.D				
Injection Date:	08-Apr-2021 21:39:49	Instrument ID:	HP21585		
Lims ID:	CCVIS L4				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

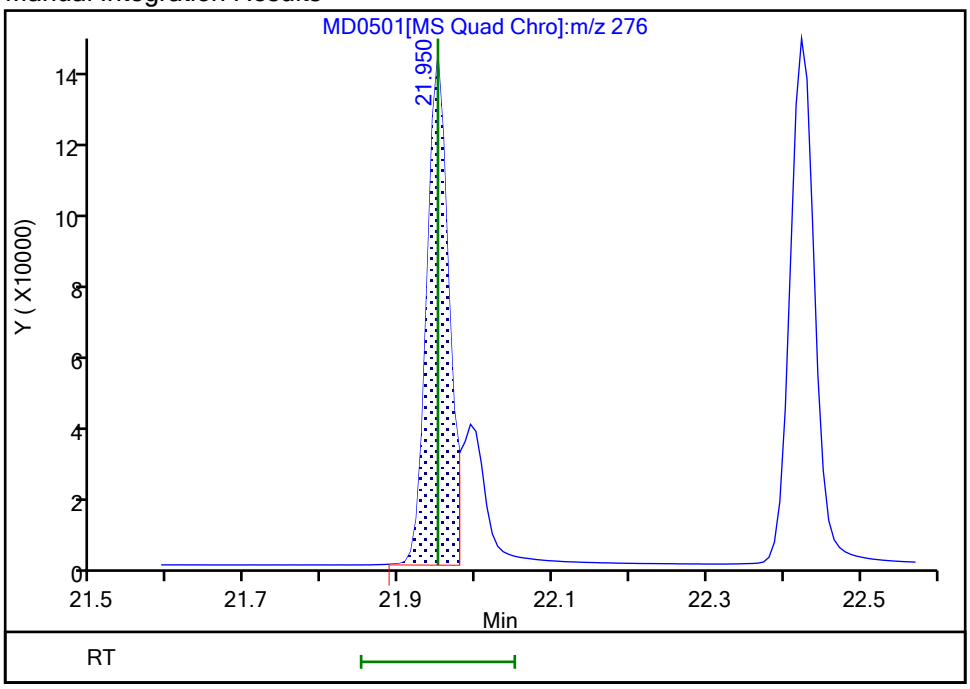
Processing Integration Results

RT: 21.95
Area: 361236
Amount: 0.630011
Amount Units: ug/ml



Manual Integration Results

RT: 21.95
Area: 270306
Amount: 0.471425
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 22:20:30

Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Lab Sample ID: CCVIS 410-112543/2 Calibration Date: 04/08/2021 21:39

Instrument ID: HP21585 Calib Start Date: 03/26/2021 11:56

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 03/26/2021 15:15

Lab File ID: MD0501.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibenzofuran	Ave	1.689	1.705		0.505	0.500	1.0	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0501.D
Lims ID: CCVIS L4
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Apr-2021 21:39:49 ALS Bottle#: 0 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 410-0026241-002, 5
Operator ID: art12405 Instrument ID: HP21585
Sublist: chrom-8270_SIM_HP21585*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 22:26:15 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: transuea Date: 08-Apr-2021 22:22:51

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	3.333	3.333	0.000	97	41333	0.5000	0.5164	
2 N-Nitrosodimethylamine	74	3.711	3.711	0.000	100	50804	0.5000	0.5509	
3 Bis(2-chloroethyl)ether	93	6.664	6.664	0.000	92	87244	0.5000	0.5229	
* 4 1,4-Dichlorobenzene-d4	152	7.035	7.035	0.000	98	28162	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.952	8.952	0.000	92	105756	0.2500	0.2500	
6 Naphthalene	128	8.993	8.993	0.000	92	202941	0.5000	0.4790	
7 Quinoline	129	9.508	9.508	0.000	96	122403	0.5000	0.4443	
8 2-Methylnaphthalene	142	10.081	10.081	0.000	99	139246	0.5000	0.4783	
$ 9 1-Methylnaphthalene-d10	152	10.179	10.179	0.000	100	112072	0.5000	0.4973	
10 1-Methylnaphthalene	142	10.240	10.240	0.000	97	136739	0.5000	0.4814	
11 Dimethyl phthalate	163	11.353	11.353	0.000	94	705117	2.50	2.20	
12 Acenaphthylene	152	11.499	11.499	0.000	100	212010	0.5000	0.4725	
* 13 Acenaphthene-d10	164	11.707	11.707	0.000	95	61859	0.2500	0.2500	
14 Acenaphthene	154	11.744	11.744	0.000	93	136229	0.5000	0.4705	
15 Dibenzofuran	168	11.977	11.977	0.000	100	210981	0.5000	0.5049	
16 Diethyl phthalate	149	12.297	12.297	0.000	100	677061	2.50	2.35	
17 Fluorene	166	12.407	12.407	0.000	98	165525	0.5000	0.4856	
18 N-Nitrosodiphenylamine	169	12.571	12.571	0.000	99	104610	0.5000	0.5107	
19 Hexachlorobenzene	284	13.086	13.086	0.000	97	47159	0.5000	0.4551	
* 20 Phenanthrene-d10	188	13.593	13.593	0.000	98	122089	0.2500	0.2500	
21 Phenanthrene	178	13.624	13.624	0.000	100	251436	0.5000	0.4939	
22 Anthracene	178	13.695	13.695	0.000	100	245141	0.5000	0.4939	
23 Di-n-butyl phthalate	149	14.423	14.423	0.000	100	1163328	2.50	2.65	
$ 24 Fluoranthene-d10 (Surr)	212	15.294	15.294	0.000	99	254255	0.5000	0.5403	
25 Fluoranthene	202	15.326	15.326	0.000	100	296663	0.5000	0.5226	
26 Pyrene	202	15.677	15.677	0.000	99	308786	0.5000	0.4442	
27 Butyl benzyl phthalate	149	16.811	16.811	0.000	100	515039	2.50	2.51	
28 Benzo[a]anthracene	228	17.724	17.724	0.000	100	293187	0.5000	0.4854	
* 29 Chrysene-d12	240	17.739	17.739	0.000	74	121054	0.2500	0.2500	
30 Chrysene	228	17.785	17.785	0.000	100	295278	0.5000	0.4760	

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	17.877	17.877	0.000	98	726505	2.50	2.74	
32 Di-n-octyl phthalate	149	19.043	19.043	0.000	100	1240493	2.50	2.55	
33 Benzo[b]fluoranthene	252	19.595	19.595	0.000	100	298537	0.5000	0.4749	
34 Benzo[k]fluoranthene	252	19.641	19.641	0.000	100	321872	0.5000	0.4848	
35 Benzo[e]pyrene	252	20.047	20.047	0.000	100	293420	0.5000	0.4761	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.093	20.093	0.000	99	246553	0.5000	0.5219	
37 Benzo[a]pyrene	252	20.132	20.132	0.000	100	292589	0.5000	0.4870	
* 38 Perylene-d12	264	20.224	20.224	0.000	99	135670	0.2500	0.2500	
39 Perylene	252	20.262	20.262	0.000	100	287861	0.5000	0.4614	
40 Indeno[1,2,3-cd]pyrene	276	21.950	21.950	0.000	99	270306	0.5000	0.4714	M
41 Dibenz(a,h)anthracene	278	22.000	22.000	0.000	98	319826	0.5000	0.4865	
42 Benzo[g,h,i]perylene	276	22.423	22.423	0.000	97	326244	0.5000	0.4781	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_4_00015 Amount Added: 1.00 Units: mL

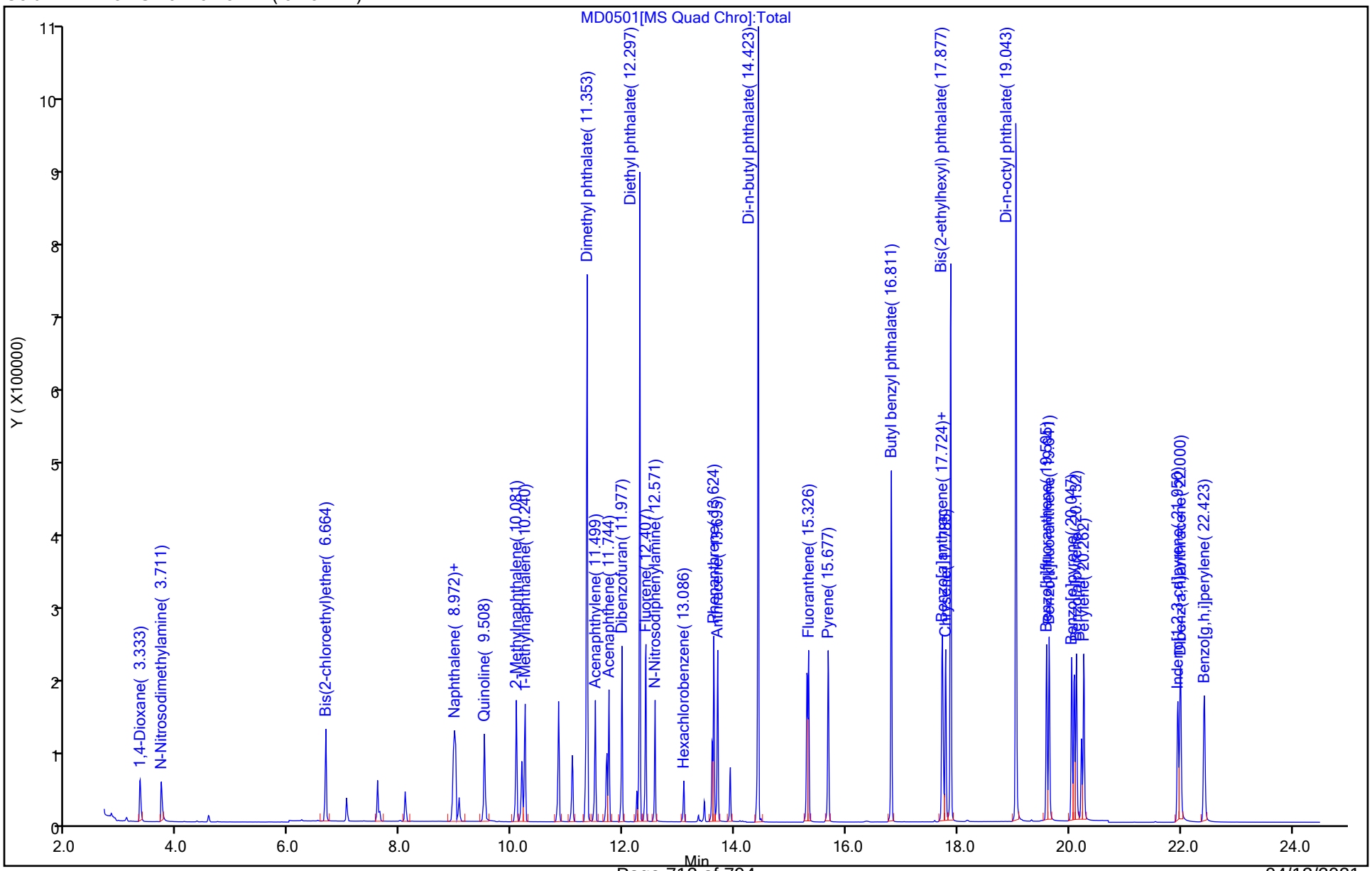
Report Date: 08-Apr-2021 22:26:16 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0501.D

Injection Date:	08-Apr-2021 21:39:49	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	CCVIS 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)



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 19-Mar-2021 10:25:09 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0024536-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 19-Mar-2021 16:43:57 Calib Date: 19-Mar-2021 15:33:31
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0566a.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1610

First Level Reviewer: gamblerj Date: 19-Mar-2021 10:58:08

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	5.031	5.031	0.000	0	1558619	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.284	6.284	0.000	0	3810453	NR	NR	
49 4,4'-DDT	235	6.988	6.988	0.000	0	2729757	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

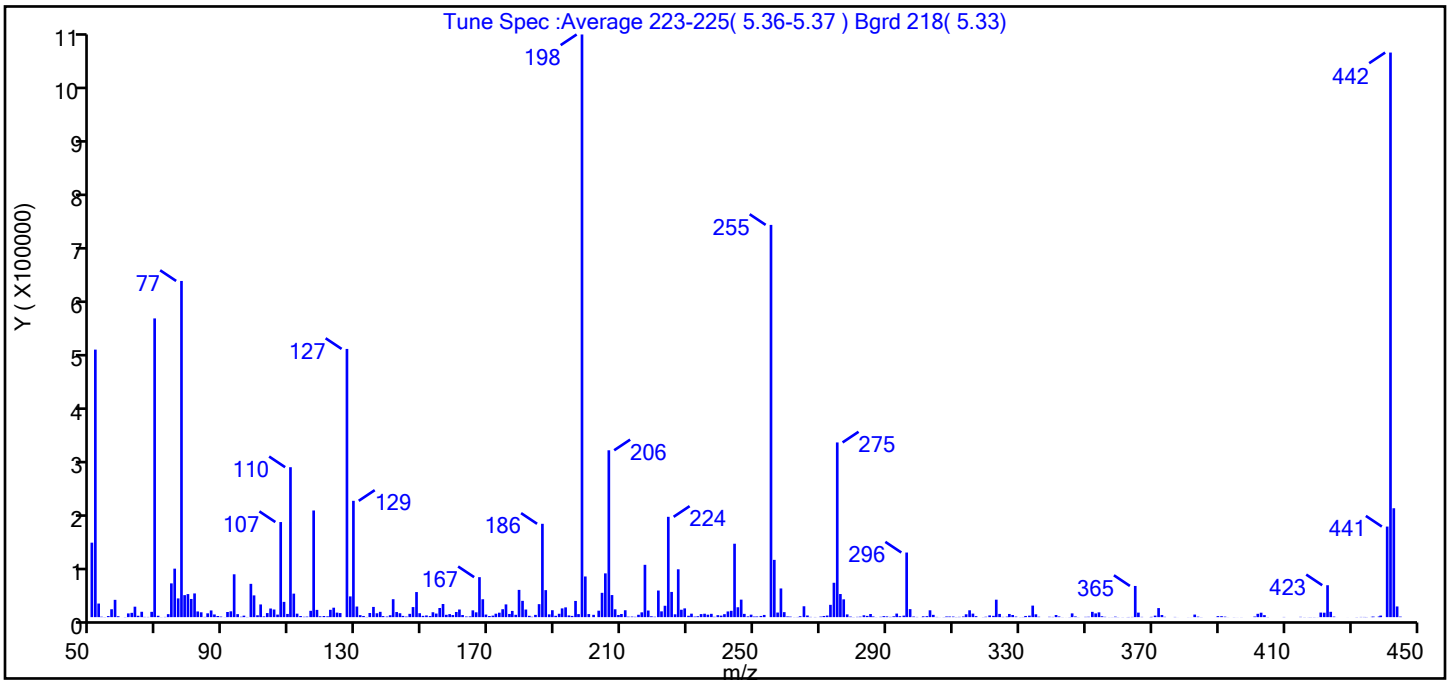
MSS_RVDFTPP_00006 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D
Injection Date: 19-Mar-2021 10:25:09 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 (103.2)
51	10-80% of the base peak	45.9
68	<2% of mass 69	0.9 (1.8)
69	Present	51.3
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	46.0
197	<2% of mass 198	0.5
199	5-9% of mass 198	7.0
275	10-60% of the base peak	30.0
365	>1% of mass 198	5.4
441	present but <24% of mass 442	15.5 (16.0)
442	base peak, or >50% of 198	96.9
443	15-24% of mass 442	18.7 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 19-Mar-2021 10:25:09
Spectrum: Tune Spec :Average 223-225(5.36-5.37) Bgrd 218(5.33)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	139200	143.00	7332	235.00	6335	328.00	4010
51.00	500032	144.00	2345	236.00	4617	329.00	1067
52.00	25408	145.00	1062	237.00	6191	330.00	185
53.00	810	146.00	6162	238.00	664	331.00	319
54.00	260	147.00	18816	239.00	3693	332.00	2218
55.00	2027	148.00	46896	240.00	2834	333.00	2788
56.00	14761	149.00	7340	241.00	5543	334.00	21568
57.00	32336	150.00	2442	242.00	10658	335.00	5319
58.00	1697	151.00	3180	243.00	11842	336.00	789
60.00	283	152.00	1991	244.00	137216	339.00	692
61.00	6980	153.00	9179	245.00	18472	340.00	448
62.00	8053	154.00	6706	246.00	32744	341.00	3957
63.00	19560	155.00	17080	247.00	6121	342.00	1273
64.00	2560	156.00	24544	248.00	1428	343.00	183
65.00	10050	157.00	4377	249.00	4649	344.00	59
66.00	438	158.00	5663	250.00	1083	345.00	272
67.00	393	159.00	3912	251.00	1244	346.00	7032
68.00	9935	160.00	9643	252.00	2231	347.00	1335
69.00	558336	161.00	14269	253.00	4114	348.00	218
70.00	2571	162.00	3907	255.00	733120	350.00	569
71.00	184	163.00	1190	256.00	107072	351.00	734
72.00	426	164.00	1372	257.00	8595	352.00	9916
73.00	5588	165.00	12711	258.00	53632	353.00	6996
74.00	63128	166.00	9006	259.00	9353	354.00	8955
75.00	90632	167.00	74736	260.00	1320	355.00	1669
76.00	35032	168.00	33472	261.00	976	356.00	627
77.00	628352	169.00	4829	262.00	194	357.00	167
78.00	41120	170.00	2105	263.00	340	358.00	181
79.00	43104	171.00	2841	264.00	1663	359.00	917
80.00	33992	172.00	6448	265.00	20336	360.00	231
81.00	44312	173.00	8313	266.00	3062	361.00	192
82.00	10649	174.00	14821	267.00	461	363.00	153
83.00	9075	175.00	23832	268.00	321	363.00	326

Report Date: 19-Mar-2021 16:43:58 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 19-Mar-2021 10:25:09
Spectrum: Tune Spec :Average 223-225(5.36-5.37) Bgrd 218(5.33)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	454	176.00	5928	269.00	56	364.00	403
85.00	7133	177.00	11670	270.00	1027	365.00	58296
86.00	12516	178.00	4359	271.00	2179	366.00	8417
87.00	5020	179.00	50952	272.00	2979	367.00	510
88.00	2120	180.00	30464	273.00	23008	370.00	287
89.00	1063	181.00	14241	274.00	64248	370.00	554
90.00	164	182.00	2517	275.00	326528	371.00	2859
91.00	9610	183.00	658	276.00	43208	372.00	16920
92.00	10912	184.00	4235	277.00	33304	373.00	3957
93.00	80104	185.00	24272	278.00	5138	374.00	615
94.00	5619	186.00	174464	279.00	1026	377.00	396
95.00	756	187.00	50472	280.00	238	378.00	61
96.00	2794	188.00	5196	281.00	550	381.00	141
97.00	348	189.00	12944	282.00	888	382.00	83
98.00	62232	190.00	2489	283.00	3497	383.00	4798
99.00	40648	191.00	6308	284.00	2338	384.00	990
100.00	3500	192.00	16360	285.00	5863	385.00	222
101.00	23736	193.00	18280	286.00	1278	389.00	55
102.00	1418	194.00	3201	287.00	170	390.00	1928
103.00	7597	195.00	2316	288.00	658	391.00	1809
104.00	16148	196.00	30304	289.00	1879	392.00	943
105.00	14280	197.00	5679	290.00	1402	393.00	125
106.00	4752	198.00	1089024	291.00	490	395.00	184
107.00	177728	199.00	76016	292.00	1592	396.00	83
108.00	28536	200.00	5729	293.00	6684	397.00	149
109.00	5998	201.00	4319	294.00	1729	401.00	1111
110.00	280256	203.00	12072	295.00	2825	402.00	6240
111.00	43952	204.00	45448	296.00	120768	403.00	8302
112.00	6519	205.00	81816	297.00	14963	404.00	3767
113.00	2142	206.00	311872	298.00	1171	405.00	285
114.00	693	207.00	41264	299.00	410	410.00	362
115.00	1022	208.00	14692	301.00	134	415.00	560
116.00	11833	209.00	4068	301.00	1578	416.00	221
117.00	199360	210.00	5859	302.00	1843	417.00	181

Report Date: 19-Mar-2021 16:43:58 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 19-Mar-2021 10:25:09
Spectrum: Tune Spec :Average 223-225(5.36-5.37) Bgrd 218(5.33)
Base Peak: 197.95
Minimum % Base Peak: 0
Number of Points: 363

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	13572	211.00	12898	303.00	12782	418.00	232
119.00	1570	212.00	946	304.00	4289	419.00	236
120.00	2108	213.00	1080	305.00	435	420.00	123
121.00	1485	214.00	643	306.00	120	421.00	8541
122.00	13714	215.00	4436	307.00	245	422.00	8267
123.00	17664	216.00	8987	308.00	1247	423.00	59656
124.00	8461	217.00	97800	309.00	1227	424.00	9972
125.00	7648	218.00	12363	310.00	1096	425.00	1049
127.00	501312	219.00	1624	311.00	299	426.00	56
128.00	38784	220.00	754	312.00	548	429.00	59
129.00	217408	221.00	49736	313.00	1206	432.00	250
130.00	19824	222.00	10828	314.00	5346	433.00	395
131.00	3733	223.00	21256	315.00	12808	434.00	369
132.00	2178	224.00	187520	316.00	6603	435.00	284
133.00	378	225.00	47120	317.00	1819	436.00	720
134.00	7753	226.00	5321	319.00	225	437.00	954
135.00	19104	227.00	89440	320.00	745	439.00	1200
136.00	7255	228.00	13840	321.00	3252	439.00	2908
137.00	9938	229.00	16381	322.00	2437	441.00	169280
138.00	1966	230.00	2572	323.00	32640	442.00	1055232
139.00	1106	231.00	6497	324.00	6011	443.00	203520
140.00	3528	232.00	1046	325.00	488	444.00	19984
141.00	33552	233.00	1706	326.00	949	445.00	996
142.00	9563	234.00	5723	327.00	5943		

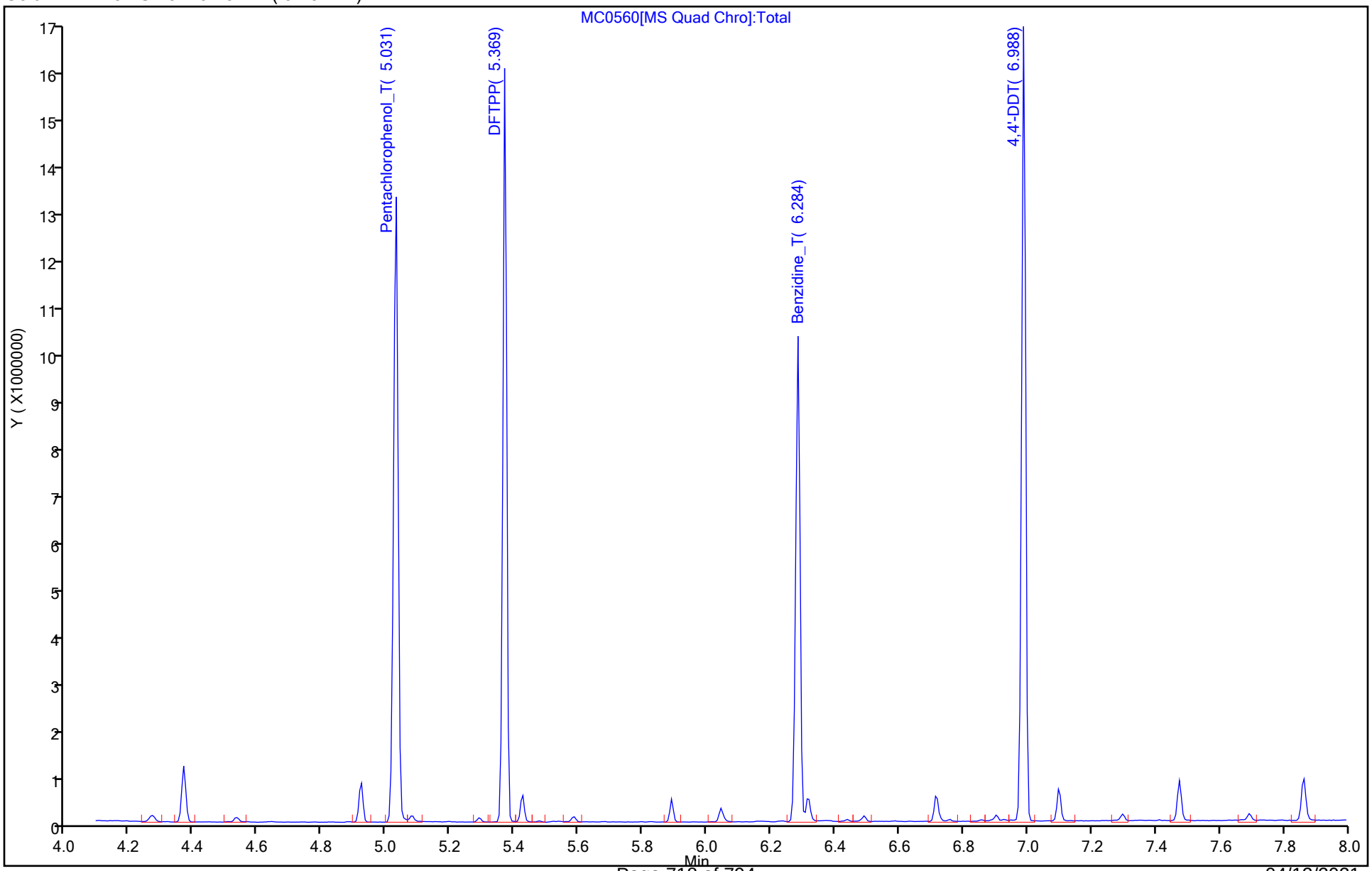
Report Date: 19-Mar-2021 16:43:58 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D

Injection Date:	19-Mar-2021 10:25:09	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\20210319-24536.b\MC0560.D
Injection Date: 19-Mar-2021 10:25:09 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

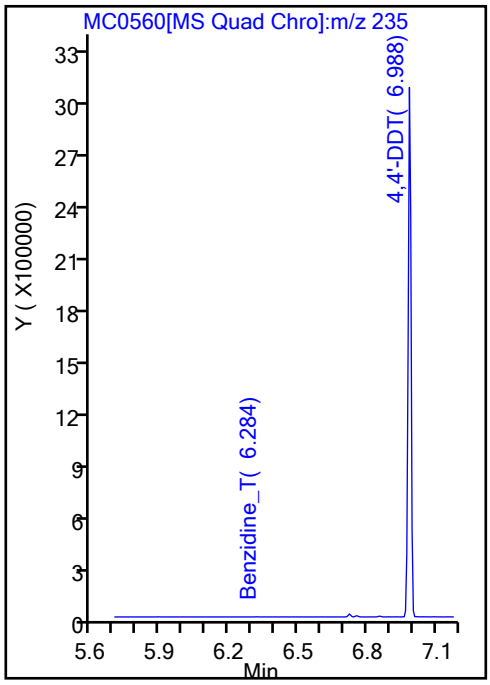
49 4,4'-DDT, Detector: MS Quad

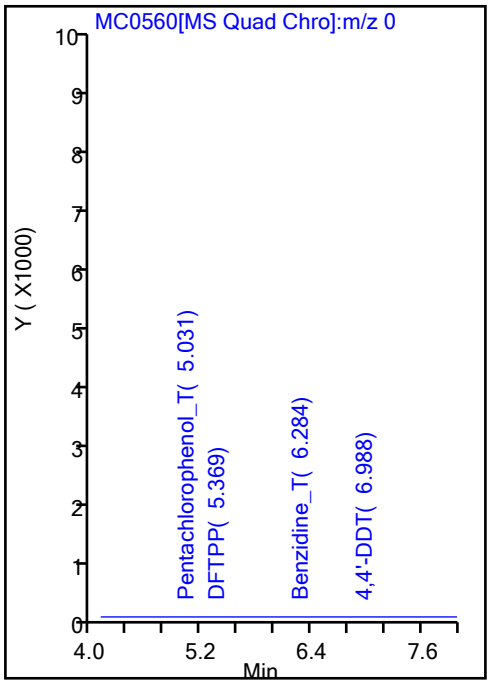
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2729757
47 4,4'-DDE, Area = 0
48 4,4'-DDD, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

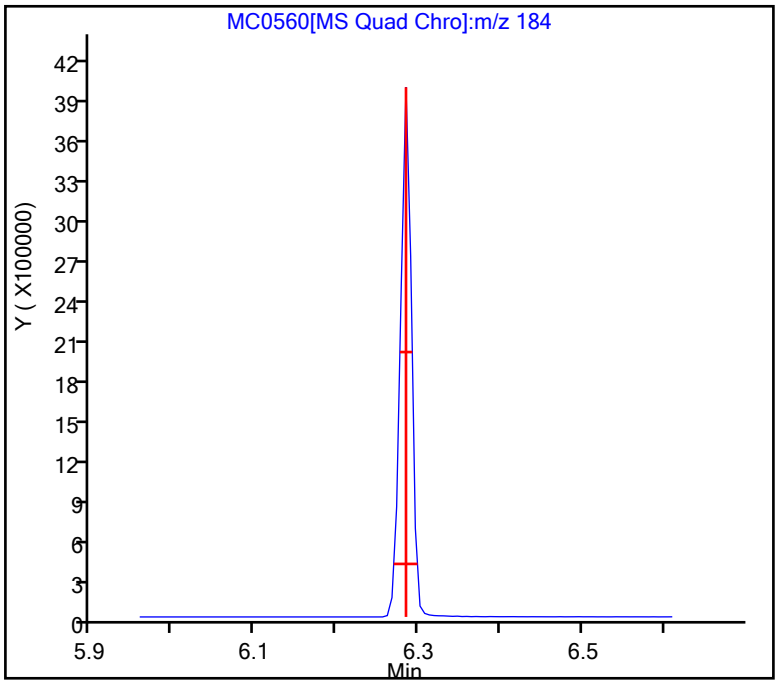
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D
Injection Date: 19-Mar-2021 10:25:09 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.9, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

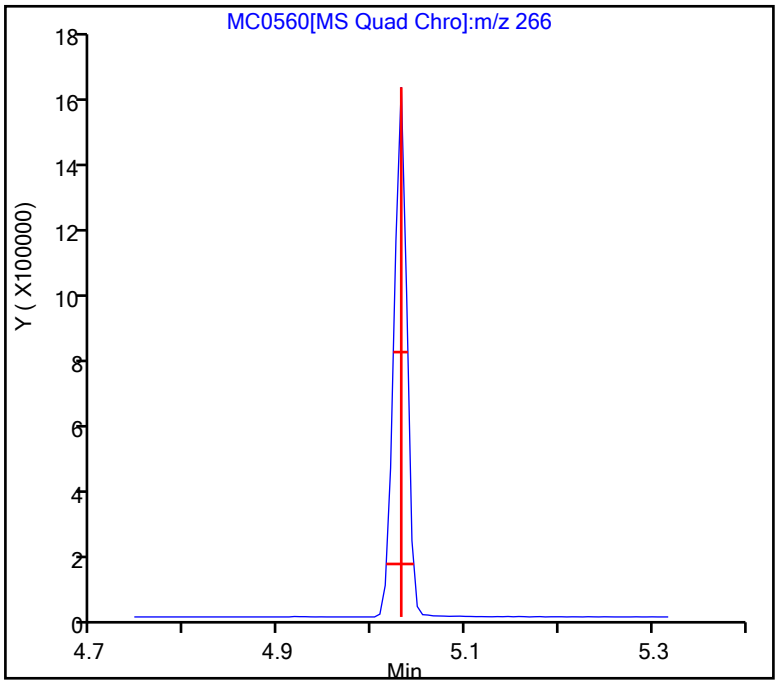
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210319-24536.b\MC0560.D
Injection Date: 19-Mar-2021 10:25:09 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.8, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 07-Apr-2021 18:54:44 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0026113-001
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 07-Apr-2021 20:42:43 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1683

First Level Reviewer: transuea Date: 07-Apr-2021 20:17:09

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	4.991	4.991	0.000	0	1467759	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.244	6.244	0.000	0	3703684	NR	NR	
47 4,4'-DDE	246	6.387	6.387	0.000	0	6753		NR	
48 4,4'-DDD	235	6.673	6.673	0.000	0	50299		NR	
49 4,4'-DDT	235	6.937	6.937	0.000	0	3315829	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

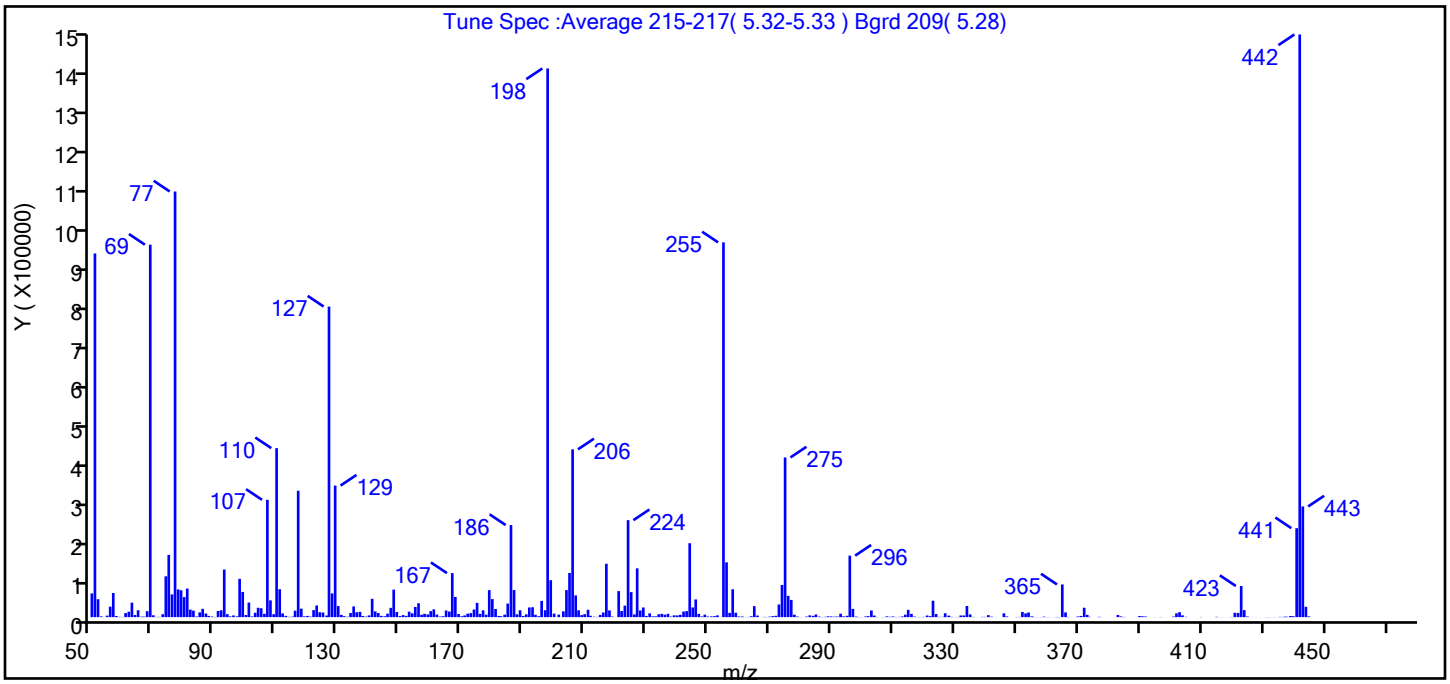
MSS_RVDFTPP_00006 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D
Injection Date: 07-Apr-2021 18:54:44 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 (94.2)
51	10-80% of the base peak	66.3
68	<2% of mass 69	1.1 (1.6)
69	Present	67.9
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	56.6
197	<2% of mass 198	1.3
199	5-9% of mass 198	6.7
275	10-60% of the base peak	29.1
365	>1% of mass 198	6.0
441	present but <24% of mass 442	16.2 (15.3)
442	base peak, or >50% of 198	106.2
443	15-24% of mass 442	20.2 (19.0)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 07-Apr-2021 18:54:44
Spectrum: Tune Spec :Average 215-217(5.32-5.33) Bgrd 209(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	57248	142.00	13789	236.00	5939	331.00	493
51.00	876288	143.00	10009	237.00	7943	332.00	4076
52.00	43192	144.00	3057	238.00	1367	333.00	4008
53.00	1821	145.00	2152	239.00	4440	334.00	26840
54.00	128	146.00	8470	240.00	4185	335.00	6595
55.00	3682	147.00	22408	241.00	5744	336.00	589
56.00	25272	148.00	66328	242.00	13379	337.00	160
57.00	58168	149.00	12467	243.00	14531	339.00	685
58.00	2731	150.00	2633	244.00	178112	340.00	660
59.00	706	151.00	4914	245.00	23384	341.00	4819
60.00	470	152.00	3078	246.00	42648	342.00	1114
61.00	9857	153.00	13175	247.00	7848	343.00	170
62.00	13139	154.00	9181	248.00	1641	346.00	9262
63.00	34880	155.00	24440	249.00	6044	347.00	1665
64.00	5166	156.00	33504	250.00	1492	348.00	63
65.00	16632	157.00	5751	251.00	1843	350.00	453
66.00	1191	158.00	7972	252.00	2462	351.00	556
67.00	1271	159.00	6616	253.00	4302	352.00	12336
68.00	14392	160.00	14493	255.00	902976	353.00	9046
69.00	897408	161.00	18768	256.00	131968	354.00	11135
70.00	4431	162.00	6233	257.00	10297	355.00	2023
71.00	560	163.00	1441	258.00	67192	356.00	372
72.00	669	164.00	2259	259.00	10676	357.00	225
73.00	7060	165.00	16056	260.00	1651	358.00	252
74.00	98432	166.00	13540	261.00	1541	359.00	1245
75.00	150080	167.00	106072	262.00	259	360.00	261
76.00	54776	168.00	48632	263.00	489	361.00	229
77.00	1025600	169.00	7475	264.00	2134	362.00	243
78.00	66720	170.00	2169	265.00	26552	363.00	536
79.00	64752	171.00	4026	266.00	3803	364.00	326
80.00	48336	172.00	8346	268.00	639	365.00	78816
81.00	68984	173.00	9623	269.00	435	366.00	11415
82.00	18056	174.00	18432	270.00	1238	367.00	548

Report Date: 07-Apr-2021 20:42:44 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 07-Apr-2021 18:54:44
Spectrum: Tune Spec :Average 215-217(5.32-5.33) Bgrd 209(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	15712	175.00	34440	271.00	2485	369.00	93
84.00	1450	176.00	7888	272.00	3271	370.00	1605
85.00	11400	177.00	16504	273.00	30536	371.00	2826
86.00	20056	178.00	5899	274.00	77608	372.00	22680
87.00	8718	179.00	65128	275.00	384768	373.00	5518
88.00	3027	180.00	43488	276.00	51264	374.00	717
89.00	1553	181.00	19648	277.00	41488	377.00	855
90.00	487	182.00	2980	278.00	5853	378.00	148
91.00	14824	183.00	2164	279.00	1427	381.00	53
92.00	16584	184.00	5880	280.00	243	382.00	59
93.00	114752	185.00	32752	282.00	1398	383.00	5301
94.00	7130	186.00	221952	283.00	4307	384.00	1813
95.00	1741	187.00	65352	284.00	3102	385.00	582
96.00	4103	188.00	6749	285.00	6448	389.00	196
97.00	1905	189.00	16528	286.00	1315	390.00	2681
98.00	92216	190.00	2944	287.00	261	391.00	2130
99.00	60752	191.00	6704	288.00	803	392.00	1520
100.00	5205	192.00	23352	289.00	2120	395.00	322
101.00	35208	193.00	23840	290.00	1696	397.00	421
102.00	1696	194.00	5602	291.00	1127	398.00	67
103.00	10534	195.00	2243	292.00	1426	401.00	1427
104.00	22608	196.00	39288	293.00	8178	402.00	9083
105.00	21456	197.00	16648	294.00	1978	403.00	11991
106.00	7937	198.00	1321984	295.00	3260	404.00	4290
107.00	282688	199.00	89064	296.00	148224	405.00	733
108.00	40392	200.00	8498	297.00	19912	410.00	489
109.00	7133	202.00	6100	298.00	1462	413.00	53
110.00	407168	203.00	13988	299.00	319	415.00	785
111.00	67232	204.00	65192	300.00	296	416.00	205
112.00	8962	205.00	106520	301.00	1555	417.00	171
113.00	3138	206.00	404288	302.00	2465	418.00	74
114.00	788	207.00	52368	303.00	16122	419.00	187
115.00	1305	208.00	16488	304.00	3845	420.00	468
116.00	15520	209.00	4968	305.00	453	421.00	10545

Report Date: 07-Apr-2021 20:42:44 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 07-Apr-2021 18:54:44
Spectrum: Tune Spec :Average 215-217(5.32-5.33) Bgrd 209(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 367

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	304576	210.00	7167	307.00	154	422.00	10101
118.00	20432	211.00	17808	307.00	140	423.00	74984
119.00	1866	212.00	3352	308.00	1875	424.00	16904
120.00	3041	213.00	1022	309.00	901	425.00	1517
121.00	1165	214.00	617	310.00	1665	427.00	103
122.00	16920	215.00	5387	311.00	481	428.00	188
123.00	28088	216.00	11208	312.00	734	429.00	127
124.00	11822	217.00	128656	313.00	1698	431.00	150
125.00	11180	218.00	16209	314.00	5934	431.00	262
126.00	3939	219.00	1277	315.00	17560	432.00	353
127.00	748352	221.00	62752	316.00	7837	433.00	145
128.00	57208	222.00	14865	317.00	1403	434.00	305
129.00	316928	223.00	27664	318.00	251	435.00	642
130.00	26656	224.00	233664	319.00	282	436.00	599
131.00	5406	225.00	60296	320.00	693	437.00	1192
132.00	2372	226.00	6656	321.00	3913	438.00	829
133.00	927	227.00	117656	322.00	2377	439.00	2807
134.00	9888	228.00	16159	323.00	39592	440.00	2258
135.00	25824	229.00	23240	324.00	7503	441.00	214400
136.00	11873	230.00	2851	325.00	626	442.00	1403904
137.00	12801	231.00	9104	326.00	783	443.00	266688
138.00	2831	232.00	1837	327.00	9329	444.00	24912
139.00	1325	233.00	1994	328.00	3711	445.00	1870
140.00	4132	234.00	6912	329.00	811	474.00	67
141.00	44168	235.00	7871	330.00	285		

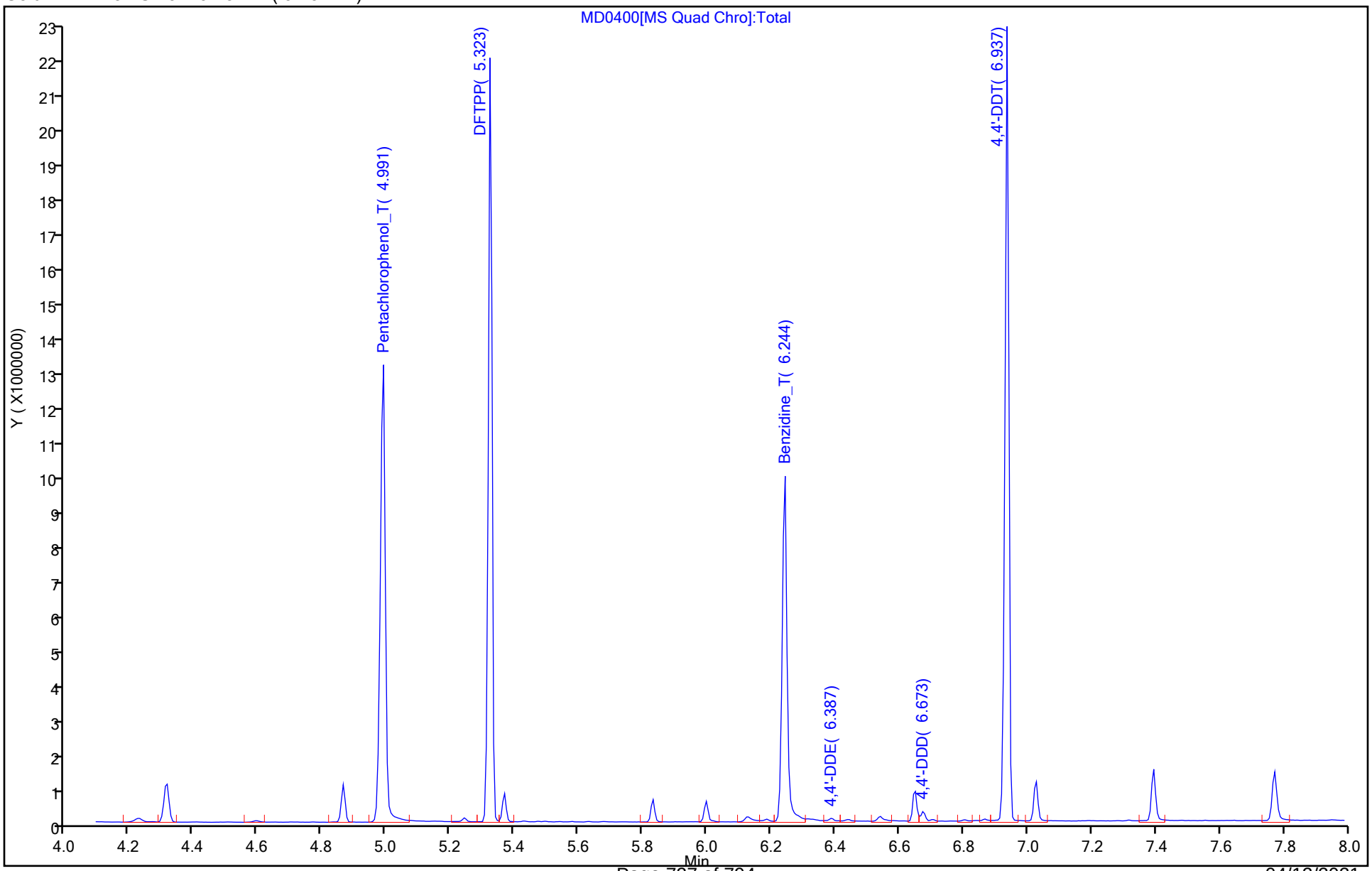
Report Date: 07-Apr-2021 20:42:44 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D

Injection Date:	07-Apr-2021 18:54:44	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\20210407-26113.b\MD0400.D
Injection Date: 07-Apr-2021 18:54:44 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

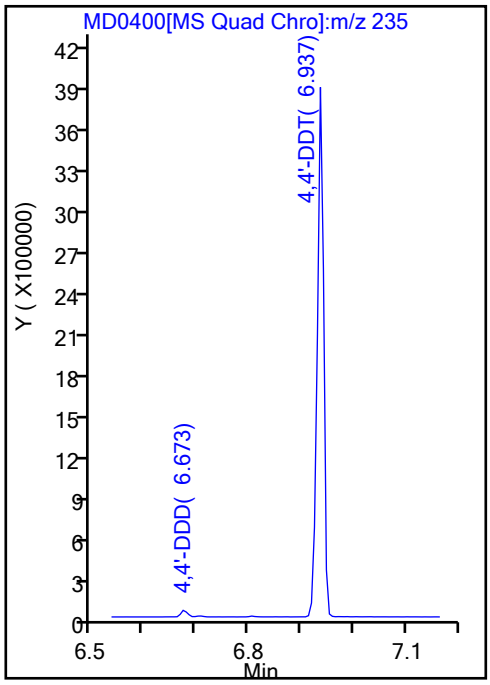
49 4,4'-DDT, Detector: MS Quad

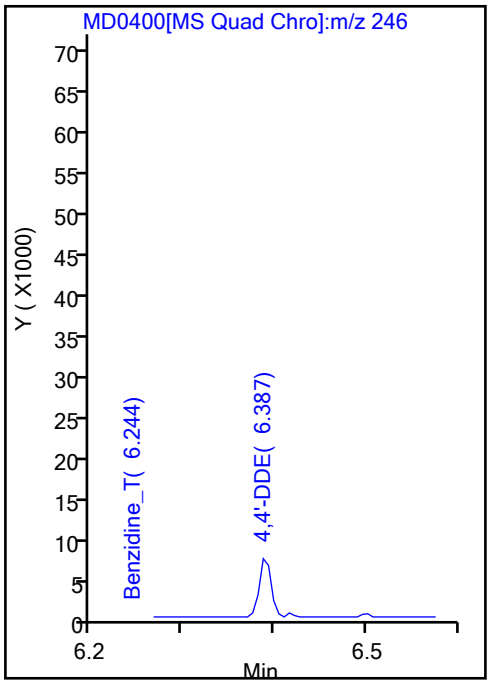
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 3315829
47 4,4'-DDE, Area = 6753
48 4,4'-DDD, Area = 50299

%Breakdown: 1.69%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

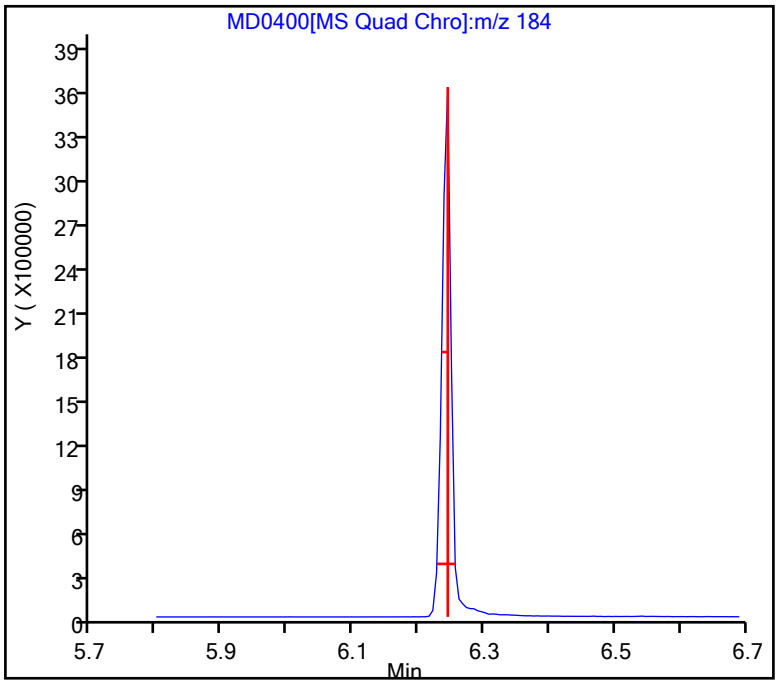
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D
Injection Date: 07-Apr-2021 18:54:44 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.7, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

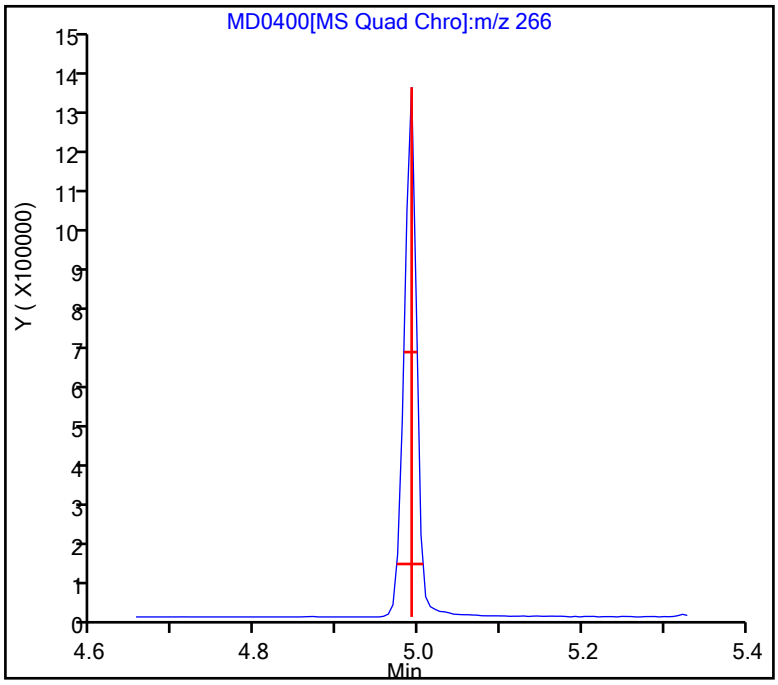
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0400.D
Injection Date: 07-Apr-2021 18:54:44 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.014 (min.)
Front Width = 0.018 (min.)

Tailing Factor = 0.8, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Apr-2021 06:17:24 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0026143-001
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 07:21:50 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 07:06:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.986	4.986	0.000	0	900832	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.233	6.233	0.000	0	2598146	NR	NR	
47 4,4'-DDE	246	6.382	6.382	0.000	0	5164		NR	
48 4,4'-DDD	235	6.662	6.662	0.000	0	47616		NR	
49 4,4'-DDT	235	6.920	6.920	0.000	0	1813775	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

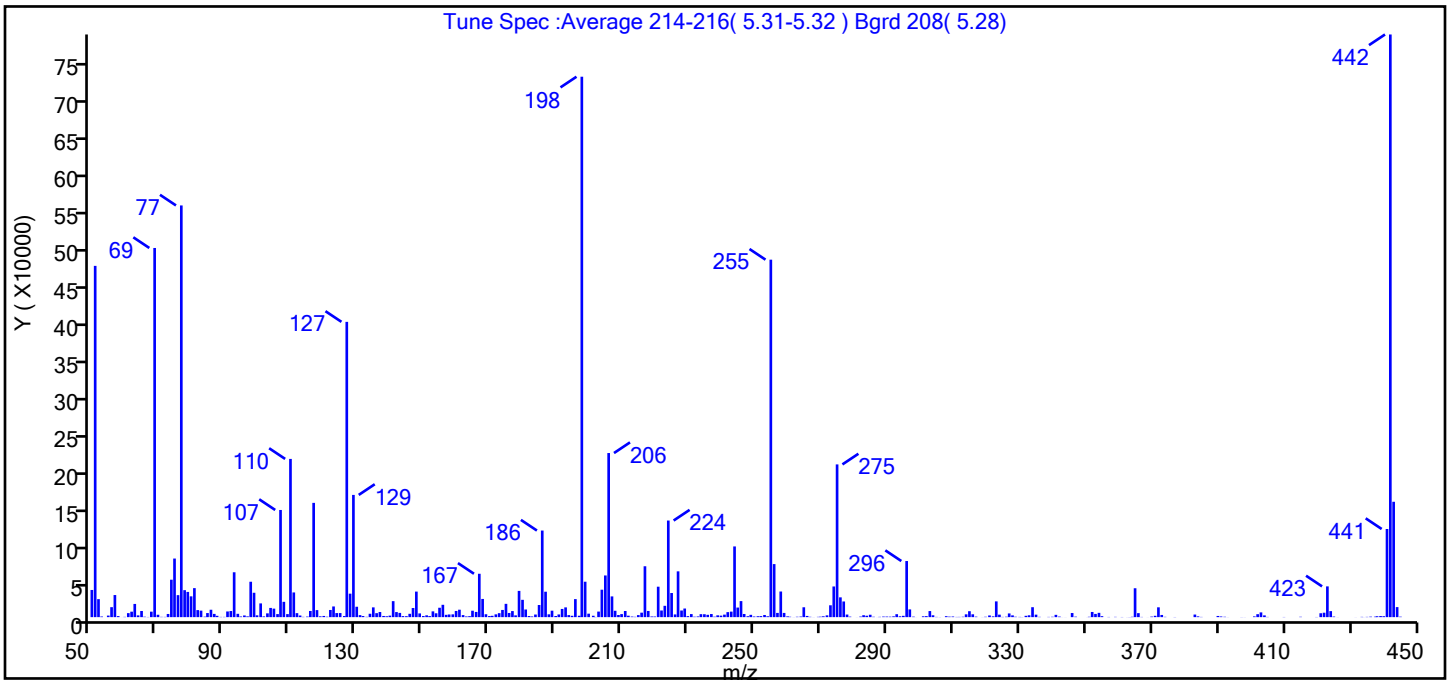
MSS_RVDFTPP_00006 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D
Injection Date: 08-Apr-2021 06:17:24 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 (92.7)
51	10-80% of the base peak	65.0
68	<2% of mass 69	1.0 (1.5)
69	Present	68.3
70	<2% of mass 69	0.4 (0.6)
127	10-80% of the base peak	54.6
197	<2% of mass 198	0.3
199	5-9% of mass 198	6.6
275	10-60% of the base peak	28.3
365	>1% of mass 198	5.3
441	present but <24% of mass 442	16.3 (15.1)
442	base peak, or >50% of 198	107.8
443	15-24% of mass 442	21.3 (19.8)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Apr-2021 06:17:24
Spectrum: Tune Spec :Average 214-216(5.31-5.32) Bgrd 208(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	36728	139.00	1184	227.00	61888	319.00	80
51.00	474688	140.00	2033	228.00	8974	320.00	498
52.00	24328	141.00	21616	229.00	11647	321.00	2276
53.00	858	142.00	6853	230.00	1386	322.00	1054
55.00	2109	143.00	5731	231.00	4137	323.00	21304
56.00	13478	144.00	1426	232.00	593	324.00	3366
57.00	29872	145.00	1318	233.00	954	325.00	298
58.00	1408	146.00	4506	234.00	4028	326.00	571
59.00	21	147.00	12327	235.00	3945	327.00	5019
60.00	372	148.00	34536	236.00	3147	328.00	2387
61.00	5414	149.00	5038	237.00	4215	329.00	556
62.00	7397	150.00	1494	238.00	627	330.00	314
63.00	17848	151.00	2455	239.00	2447	331.00	155
64.00	2374	152.00	1418	240.00	2035	332.00	1811
65.00	8313	153.00	7818	241.00	3392	333.00	2489
66.00	596	154.00	5220	242.00	6756	334.00	13423
67.00	242	155.00	12692	243.00	7470	335.00	3354
68.00	7411	156.00	16680	244.00	95552	336.00	390
69.00	498880	157.00	3125	245.00	12954	339.00	319
70.00	3217	158.00	3601	246.00	21672	340.00	504
71.00	397	159.00	3797	247.00	4265	341.00	3109
72.00	339	160.00	8357	248.00	1237	342.00	750
73.00	4284	161.00	10054	249.00	3134	343.00	56
74.00	50584	162.00	2750	250.00	846	344.00	60
75.00	79192	163.00	917	251.00	1235	346.00	5562
76.00	29728	164.00	1304	252.00	1399	347.00	658
77.00	556352	165.00	8670	253.00	2903	350.00	59
78.00	36464	166.00	7034	254.00	1168	351.00	494
79.00	34088	167.00	58632	255.00	483072	352.00	6997
80.00	28112	168.00	24592	256.00	71696	353.00	4355
81.00	39208	169.00	3924	257.00	5713	354.00	5817
82.00	9523	170.00	1492	258.00	34640	355.00	1303
83.00	8788	171.00	1812	259.00	5706	357.00	257

Report Date: 08-Apr-2021 07:21:51 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Apr-2021 06:17:24
Spectrum: Tune Spec :Average 214-216(5.31-5.32) Bgrd 208(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	679	172.00	3777	260.00	1065	359.00	375
85.00	5521	173.00	5370	261.00	530	361.00	216
86.00	9997	174.00	9727	262.00	88	363.00	84
87.00	4387	175.00	17976	263.00	514	363.00	172
88.00	1803	176.00	5638	264.00	804	364.00	482
89.00	313	177.00	8194	265.00	13342	365.00	39056
90.00	332	178.00	2403	266.00	1631	366.00	5407
91.00	7676	179.00	35472	267.00	451	367.00	292
92.00	8255	180.00	23408	268.00	86	369.00	56
93.00	60648	181.00	10332	269.00	400	370.00	749
94.00	4495	182.00	1508	270.00	603	371.00	1819
95.00	893	183.00	927	271.00	1140	372.00	13281
96.00	2268	184.00	3534	272.00	2420	373.00	2950
97.00	1027	185.00	16392	273.00	16024	374.00	403
98.00	47840	186.00	117016	274.00	41448	377.00	204
99.00	32944	187.00	34360	275.00	206400	383.00	3506
100.00	2471	188.00	3805	276.00	26744	384.00	1047
101.00	18568	189.00	8713	277.00	21184	385.00	304
102.00	999	190.00	1531	278.00	3502	390.00	1591
103.00	5123	191.00	3610	279.00	681	391.00	905
104.00	12459	192.00	11082	281.00	56	392.00	500
105.00	11501	193.00	13195	282.00	763	393.00	86
106.00	4111	194.00	2761	283.00	2609	397.00	126
107.00	144832	195.00	1825	284.00	1919	398.00	84
108.00	20696	196.00	24368	285.00	3243	401.00	989
109.00	4099	197.00	1870	286.00	517	402.00	3980
110.00	213824	198.00	730304	287.00	52	403.00	6422
111.00	33376	199.00	47872	288.00	396	404.00	2375
112.00	5395	200.00	4677	289.00	767	405.00	301
113.00	2194	201.00	1862	290.00	768	410.00	228
114.00	368	202.00	253	291.00	645	415.00	488
115.00	741	203.00	7518	292.00	1069	420.00	223
116.00	8342	204.00	37080	293.00	3976	421.00	5258
117.00	154432	205.00	56328	294.00	1166	422.00	5971

Report Date: 08-Apr-2021 07:21:51 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Apr-2021 06:17:24
Spectrum: Tune Spec :Average 214-216(5.31-5.32) Bgrd 208(5.28)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 349

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	9508	206.00	221760	295.00	1777	423.00	41568
119.00	1107	207.00	28024	296.00	75824	424.00	8135
120.00	1618	208.00	8590	297.00	10440	425.00	778
121.00	591	209.00	2891	298.00	678	426.00	81
122.00	9692	210.00	4120	299.00	50	432.00	70
123.00	14446	211.00	8301	301.00	1121	433.00	361
124.00	5496	212.00	1969	302.00	1383	434.00	66
125.00	5536	213.00	789	303.00	8214	435.00	359
126.00	1484	214.00	443	304.00	2506	436.00	674
127.00	399040	215.00	2753	305.00	326	437.00	638
128.00	31736	216.00	6048	306.00	126	438.00	1201
129.00	165184	217.00	68768	308.00	1302	439.00	1466
130.00	14053	218.00	8370	309.00	709	440.00	1252
131.00	2726	219.00	905	310.00	867	441.00	119120
132.00	1507	220.00	835	311.00	293	442.00	787392
133.00	426	221.00	41144	312.00	340	443.00	155904
134.00	4565	222.00	8990	313.00	546	444.00	13565
135.00	13212	223.00	15306	314.00	3794	445.00	629
136.00	5382	224.00	130552	315.00	8031		
137.00	6929	225.00	32608	316.00	3865		
138.00	1588	226.00	3675	317.00	673		

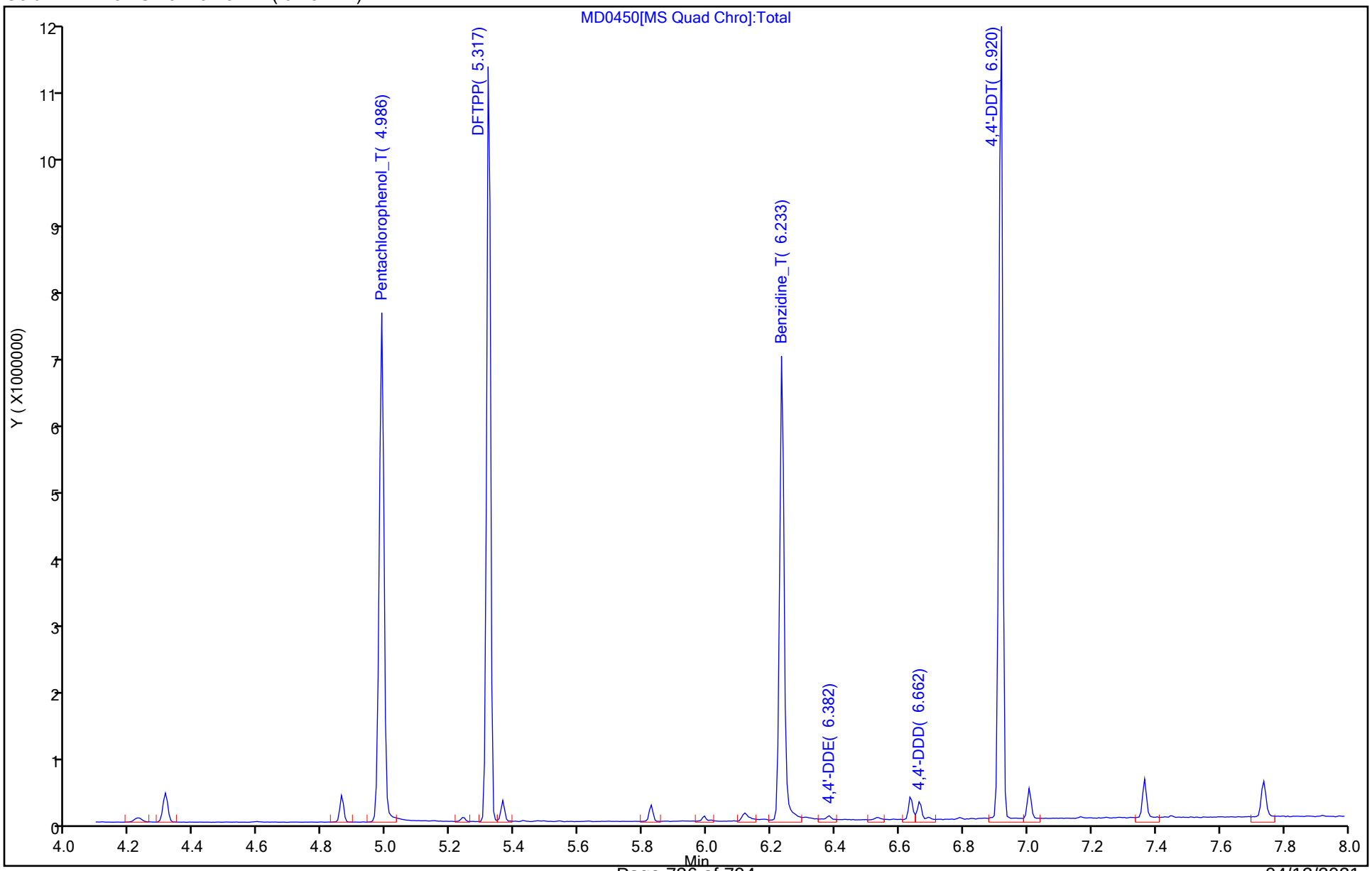
Report Date: 08-Apr-2021 07:21:51 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D

Injection Date:	08-Apr-2021 06:17:24	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\20210408-26143.b\MD0450.D
Injection Date: 08-Apr-2021 06:17:24 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

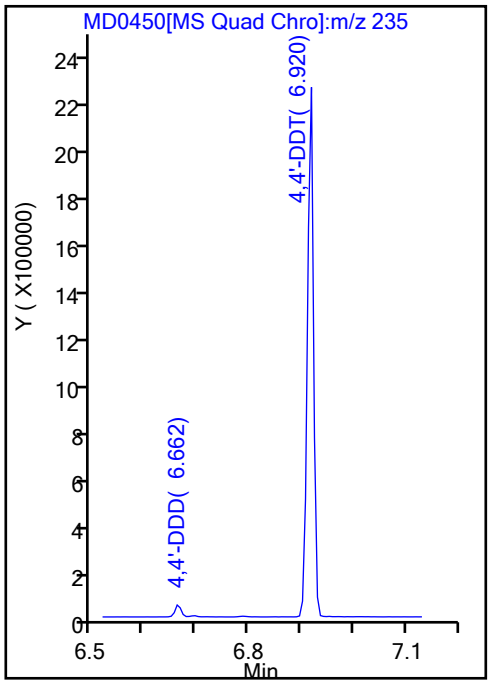
49 4,4'-DDT, Detector: MS Quad

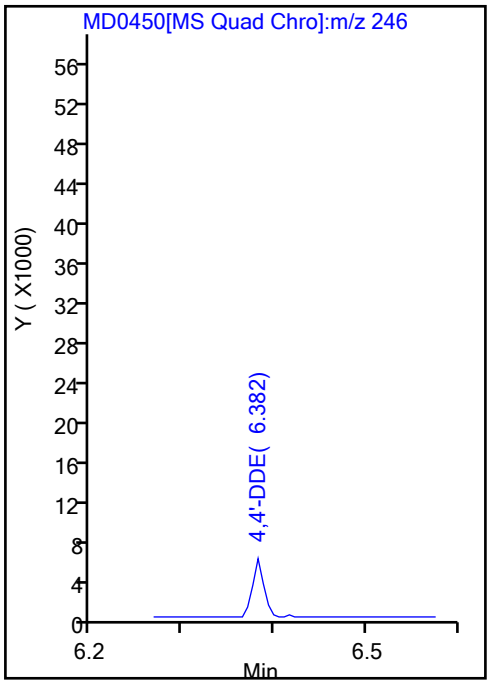
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 1813775
47 4,4'-DDE, Area = 5164
48 4,4'-DDD, Area = 47616

%Breakdown: 2.83%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

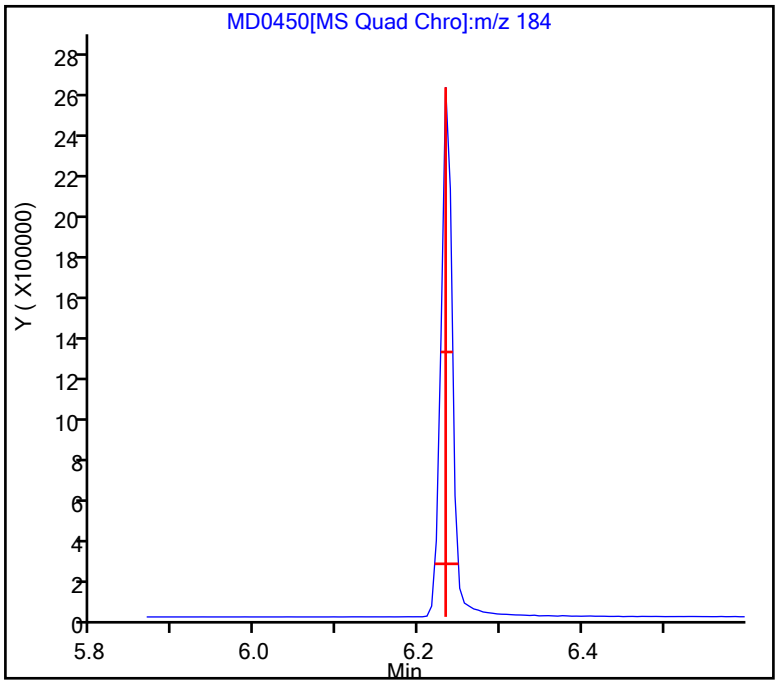
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D
Injection Date: 08-Apr-2021 06:17:24 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.013 (min.)

Tailing Factor = 1.2, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

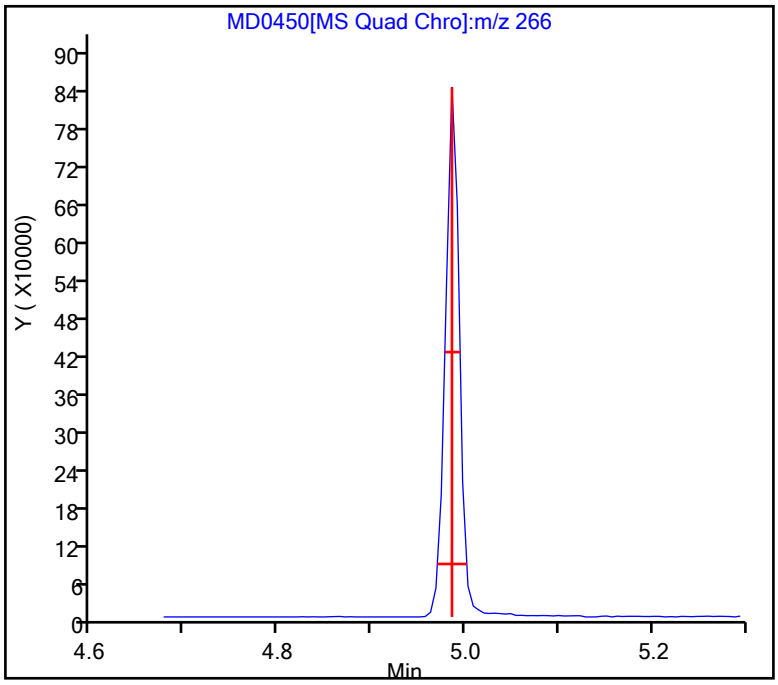
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0450.D
Injection Date: 08-Apr-2021 06:17:24 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.0, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Apr-2021 20:56:01 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 410-0026241-001
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 22:26:13 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: transuea Date: 08-Apr-2021 21:21:11

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	4.963	4.963	0.000	0	1010306	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.216	6.216	0.000	0	2926696	NR	NR	
47 4,4'-DDE	246	6.359	6.359	0.000	0	3151		NR	
48 4,4'-DDD	235	6.639	6.639	0.000	0	6845		NR	M
49 4,4'-DDT	235	6.897	6.897	0.000	0	2158416	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated

Reagents:

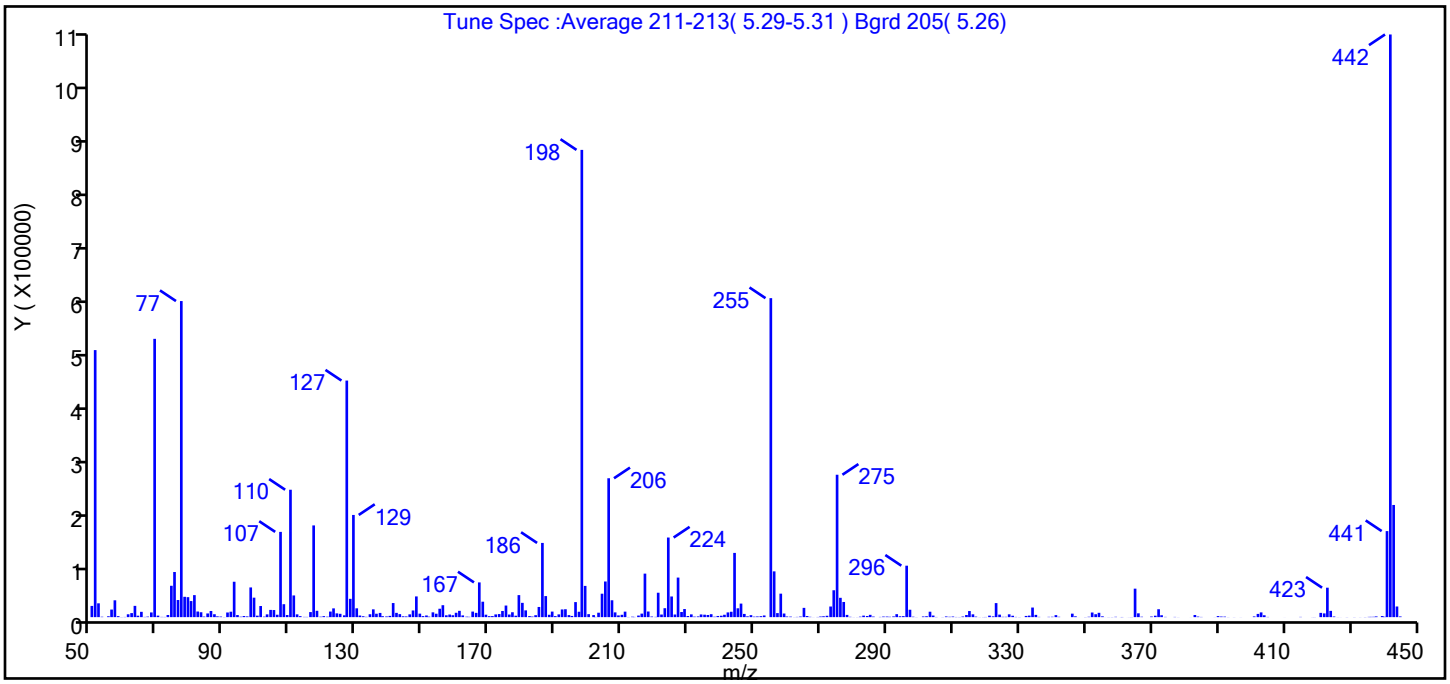
MSS_RVDFTPP_00006 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D
Injection Date: 08-Apr-2021 20:56:01 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 (80.2)
51	10-80% of the base peak	57.2
68	<2% of mass 69	1.0 (1.7)
69	Present	59.6
70	<2% of mass 69	0.3 (0.5)
127	10-80% of the base peak	50.6
197	<2% of mass 198	1.2
199	5-9% of mass 198	6.7
275	10-60% of the base peak	30.5
365	>1% of mass 198	6.1
441	present but <24% of mass 442	18.4 (14.8)
442	base peak, or >50% of 198	124.7
443	15-24% of mass 442	24.0 (19.3)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Apr-2021 20:56:01
Spectrum: Tune Spec :Average 211-213(5.29-5.31) Bgrd 205(5.26)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	20240	140.00	2275	229.00	14608	322.00	1385
51.00	481280	141.00	25400	230.00	2064	323.00	25304
52.00	24912	142.00	7726	231.00	4976	324.00	4537
53.00	746	143.00	5433	232.00	923	325.00	579
55.00	1576	144.00	1512	233.00	1285	326.00	597
56.00	13673	145.00	1261	234.00	4858	327.00	5091
57.00	30360	146.00	5023	235.00	4406	328.00	2492
58.00	1783	147.00	12035	236.00	3901	329.00	421
59.00	230	148.00	37352	237.00	5308	330.00	216
60.00	365	149.00	6299	238.00	760	332.00	2189
61.00	5140	150.00	1865	239.00	2105	333.00	2732
62.00	7273	151.00	3021	240.00	2568	334.00	17296
63.00	20320	152.00	940	241.00	4273	335.00	4076
64.00	2607	153.00	8672	242.00	8517	336.00	481
65.00	9590	154.00	6152	243.00	9714	339.00	531
66.00	421	155.00	15140	244.00	115768	340.00	692
67.00	973	156.00	21520	245.00	15972	341.00	3600
68.00	8467	157.00	3338	246.00	24416	342.00	648
69.00	501568	158.00	4681	247.00	5808	346.00	6288
70.00	2725	159.00	3437	248.00	1441	347.00	1461
71.00	448	160.00	7867	249.00	3580	348.00	58
72.00	365	161.00	11374	250.00	869	350.00	236
73.00	3867	162.00	3104	251.00	1247	351.00	689
74.00	56520	163.00	818	252.00	1770	352.00	8338
75.00	81344	164.00	600	253.00	3011	353.00	5272
76.00	30864	165.00	10033	255.00	574912	354.00	7832
77.00	569664	166.00	7720	256.00	82496	355.00	1482
78.00	36640	167.00	62616	257.00	7282	356.00	68
79.00	36016	168.00	27824	258.00	42320	357.00	181
80.00	28992	169.00	4409	259.00	6516	358.00	224
81.00	39688	170.00	1756	260.00	1147	359.00	602
82.00	10149	171.00	1901	261.00	962	361.00	112
83.00	8834	172.00	4925	262.00	167	361.00	298

Report Date: 08-Apr-2021 22:26:14 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Apr-2021 20:56:01
Spectrum: Tune Spec :Average 211-213(5.29-5.31) Bgrd 205(5.26)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	1018	173.00	5559	263.00	434	363.00	54
85.00	6656	174.00	11087	264.00	1064	363.00	115
86.00	11112	175.00	20904	265.00	16728	364.00	207
87.00	5242	176.00	4681	266.00	1993	365.00	51336
88.00	1430	177.00	8824	267.00	595	366.00	6874
89.00	1050	178.00	2574	268.00	107	367.00	763
90.00	234	179.00	39696	269.00	334	370.00	1144
91.00	8384	180.00	25760	270.00	1117	371.00	2584
92.00	9803	181.00	12208	271.00	1571	372.00	14247
93.00	63800	182.00	1888	272.00	2465	373.00	3420
94.00	3771	183.00	1019	273.00	19160	374.00	443
95.00	799	184.00	3484	274.00	48456	377.00	406
96.00	1985	185.00	18344	275.00	256640	378.00	119
97.00	1316	186.00	133760	276.00	34840	382.00	69
98.00	53544	187.00	37960	277.00	27344	383.00	3832
99.00	35104	188.00	4256	278.00	4062	384.00	1029
100.00	2679	189.00	10010	279.00	600	385.00	386
101.00	20048	190.00	1843	280.00	139	389.00	109
102.00	917	191.00	4945	281.00	150	390.00	1894
103.00	5006	192.00	13861	282.00	828	391.00	1077
104.00	13036	193.00	14234	283.00	2739	392.00	944
105.00	12800	194.00	3677	284.00	2054	393.00	158
106.00	4333	195.00	2163	285.00	4173	395.00	134
107.00	153664	196.00	27112	286.00	1036	397.00	92
108.00	23328	197.00	9721	288.00	417	401.00	1278
109.00	3812	198.00	842112	289.00	1039	402.00	5834
110.00	229632	199.00	56296	290.00	1030	403.00	8565
111.00	39104	200.00	5394	291.00	675	404.00	3378
112.00	5032	201.00	3732	292.00	1289	405.00	382
113.00	1797	202.00	460	293.00	5359	410.00	59
114.00	436	203.00	7970	294.00	1573	415.00	437
115.00	418	204.00	42248	295.00	1798	418.00	133
116.00	9135	205.00	64248	296.00	92736	419.00	171
117.00	165312	206.00	250304	297.00	13343	421.00	7673

Report Date: 08-Apr-2021 22:26:14 Chrom Revision: 2.3 19-Mar-2021 08:24:58
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D\8270_SIM_HP21585.rslt\spectra
Injection Date: 08-Apr-2021 20:56:01
Spectrum: Tune Spec :Average 211-213(5.29-5.31) Bgrd 205(5.26)
Base Peak: 441.95
Minimum % Base Peak: 0
Number of Points: 355

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	11444	207.00	30416	298.00	811	422.00	6747
119.00	791	208.00	8569	299.00	176	423.00	53072
120.00	1813	209.00	3124	301.00	1206	424.00	11319
121.00	853	210.00	4228	302.00	1621	425.00	1135
122.00	10071	211.00	9923	303.00	9791	426.00	143
123.00	15804	212.00	310	304.00	2871	427.00	84
124.00	6809	213.00	786	305.00	338	429.00	171
125.00	6004	214.00	413	307.00	180	431.00	187
126.00	3276	215.00	2867	308.00	1256	433.00	136
127.00	426368	216.00	6351	309.00	671	434.00	231
128.00	33000	217.00	78440	310.00	1102	436.00	484
129.00	184192	218.00	10156	311.00	338	436.00	549
130.00	15901	219.00	1115	312.00	288	437.00	661
131.00	2914	220.00	492	313.00	1108	438.00	1291
132.00	1648	221.00	44000	314.00	3839	440.00	1956
133.00	559	222.00	4682	315.00	11008	440.00	713
134.00	5240	223.00	16110	316.00	5098	441.00	155072
135.00	14071	224.00	143488	317.00	952	442.00	1050112
136.00	6144	225.00	37240	318.00	152	443.00	202176
137.00	7602	226.00	4753	319.00	202	444.00	19200
138.00	1731	227.00	71304	320.00	338	445.00	1241
139.00	1239	228.00	9244	321.00	2705		

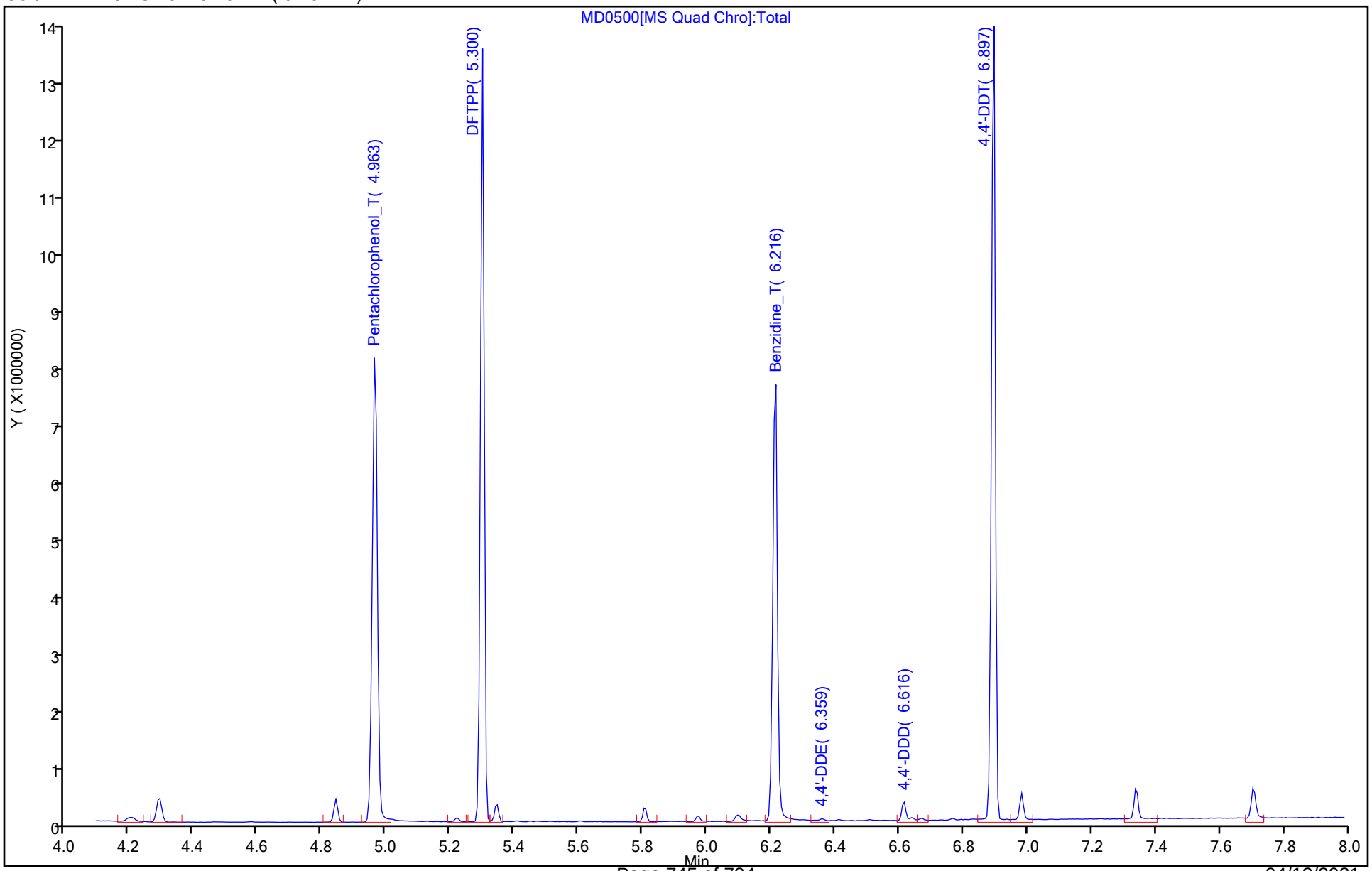
Report Date: 08-Apr-2021 22:26:14 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D

Injection Date:	08-Apr-2021 20:56:01	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\20210408-26241.b\MD0500.D
Injection Date: 08-Apr-2021 20:56:01 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

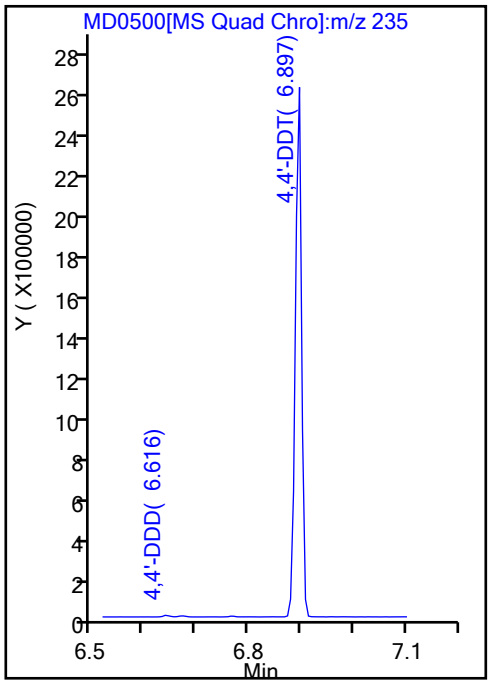
49 4,4'-DDT, Detector: MS Quad

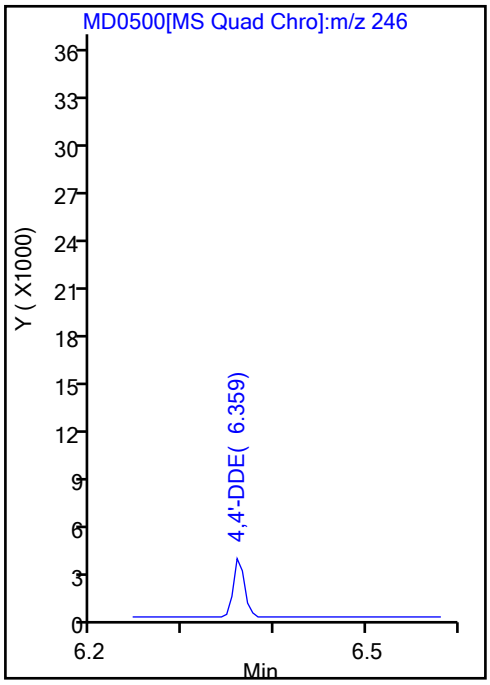
SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

49 4,4'-DDT, Area = 2158416
47 4,4'-DDE, Area = 3151
48 4,4'-DDD, Area = 6845

%Breakdown: 0.46%, <= 20.00%
Passed





Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

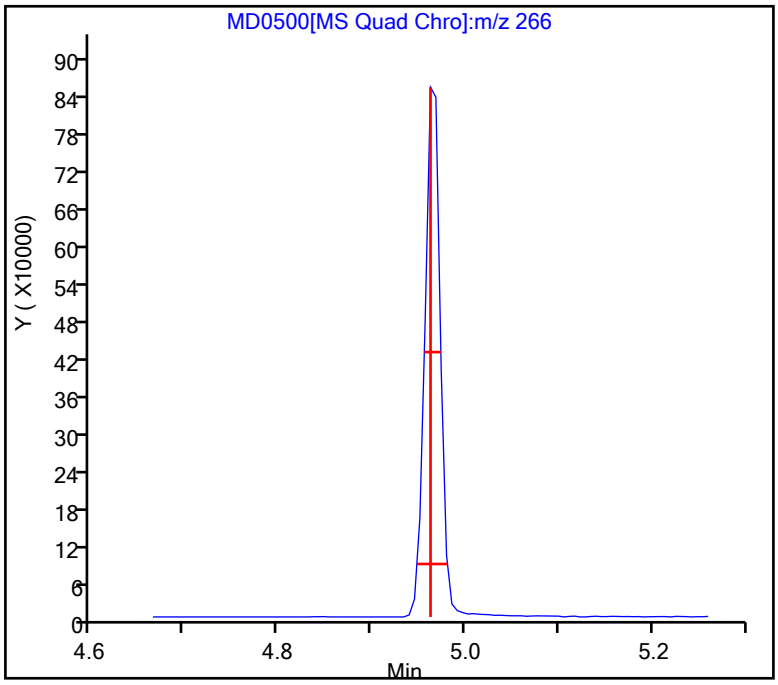
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D
Injection Date: 08-Apr-2021 20:56:01 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

44 Pentachlorophenol_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.2, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Env, LLC

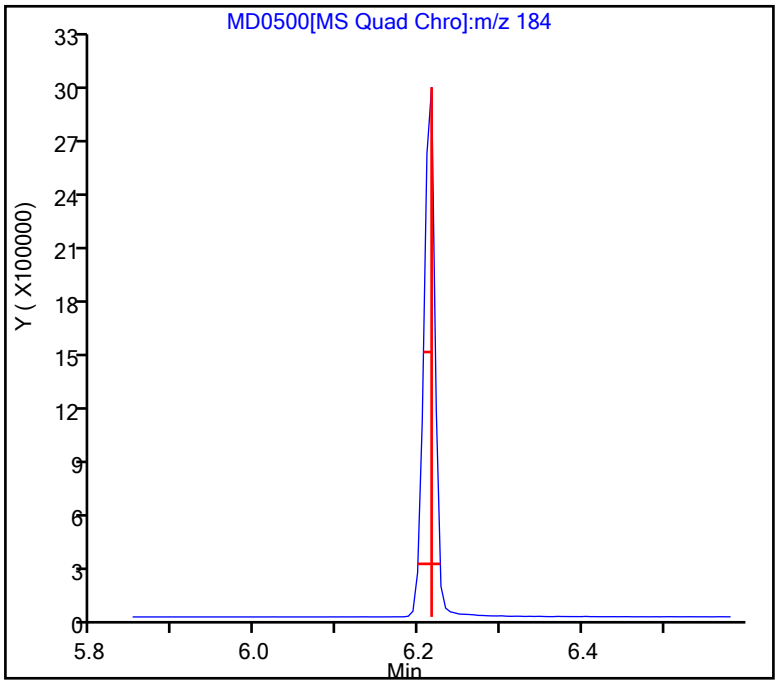
Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26241.b\MD0500.D
Injection Date: 08-Apr-2021 20:56:01 Instrument ID: HP21585
Lims ID: DFTPP
Client ID:
Operator ID: art12405 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_SIM_HP21585 Limit Group: MSSV - 8270D_E SIM

46 Benzidine_T, Detector: MS Quad

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 0.7, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-111583/1-A

Matrix: Water Lab File ID: MD0402.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/07/2021 21:04

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.: 111994 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)	61		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	48	S1-	49-115
93951-69-0	Fluoranthene-d10 (Surr)	79		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0402.D
Lims ID: MB 410-111583/1-A
Client ID:
Sample Type: MB
Inject. Date: 07-Apr-2021 21:04:12 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-111583/1-A
Misc. Info.: 410-0026113-003
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 06:17:36 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 05:48:36

	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	3.362	3.340	0.022	66	1582		0.0194	7M
*	4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	94	28630	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.972	8.973	-0.001	91	106879	0.2500	0.2500	
$	9 1-Methylnaphthalene-d10	152	10.203	10.204	-0.001	100	27399	0.2500	0.1203	
*	13 Acenaphthene-d10	164	11.719	11.720	-0.001	96	61249	0.2500	0.2500	
*	20 Phenanthrene-d10	188	13.617	13.617	0.000	95	115796	0.2500	0.2500	
$	24 Fluoranthene-d10 (Surr)	212	15.319	15.320	-0.001	99	88163	0.2500	0.1975	
*	29 Chrysene-d12	240	17.762	17.762	0.000	55	121878	0.2500	0.2500	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	-0.001	99	76690	0.2500	0.1523	
*	38 Perylene-d12	264	20.247	20.247	0.000	99	144606	0.2500	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

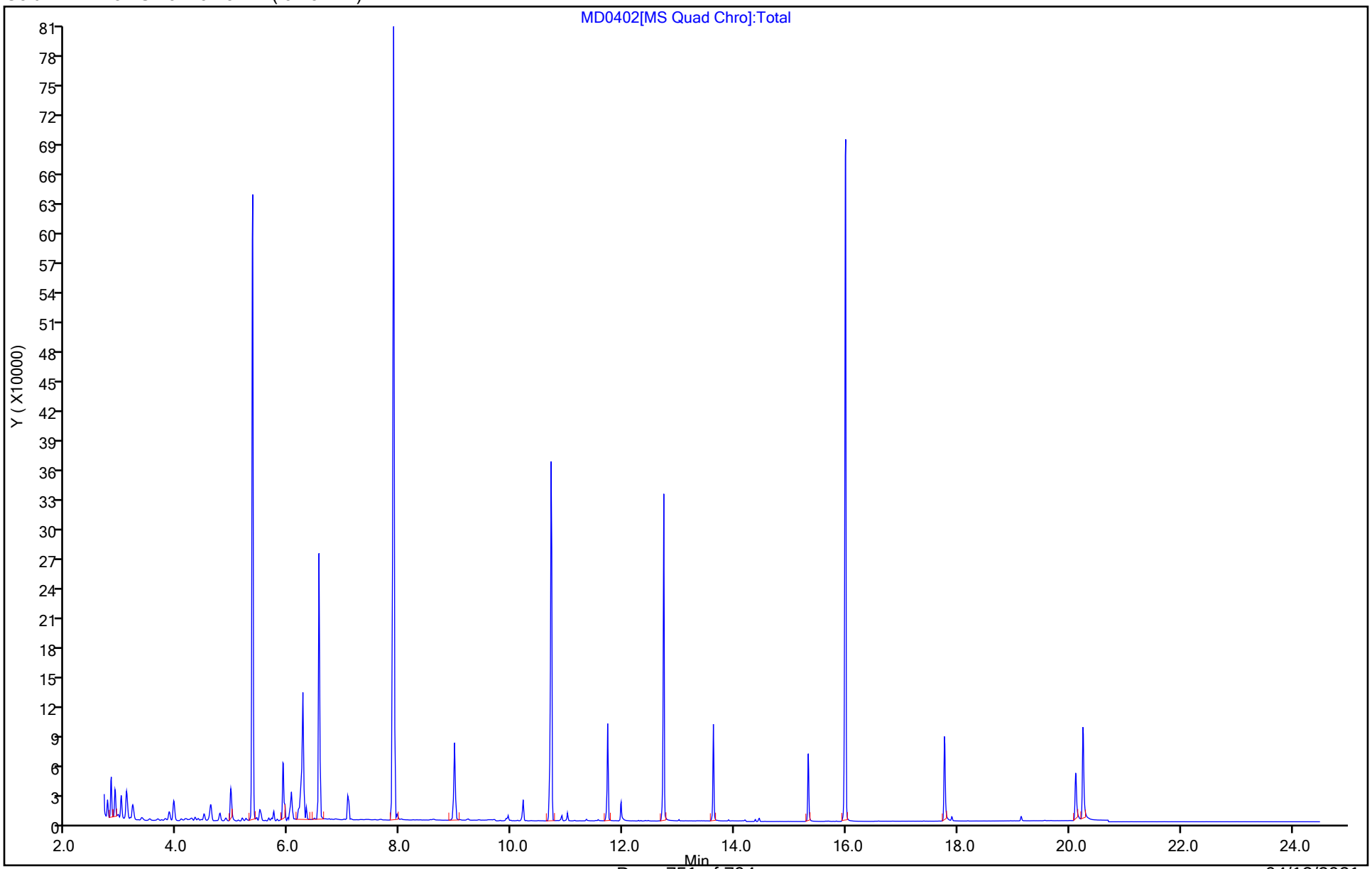
Report Date: 08-Apr-2021 06:17:56 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0402.D

Injection Date:	07-Apr-2021 21:04:12	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	MB 410-111583/1-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)



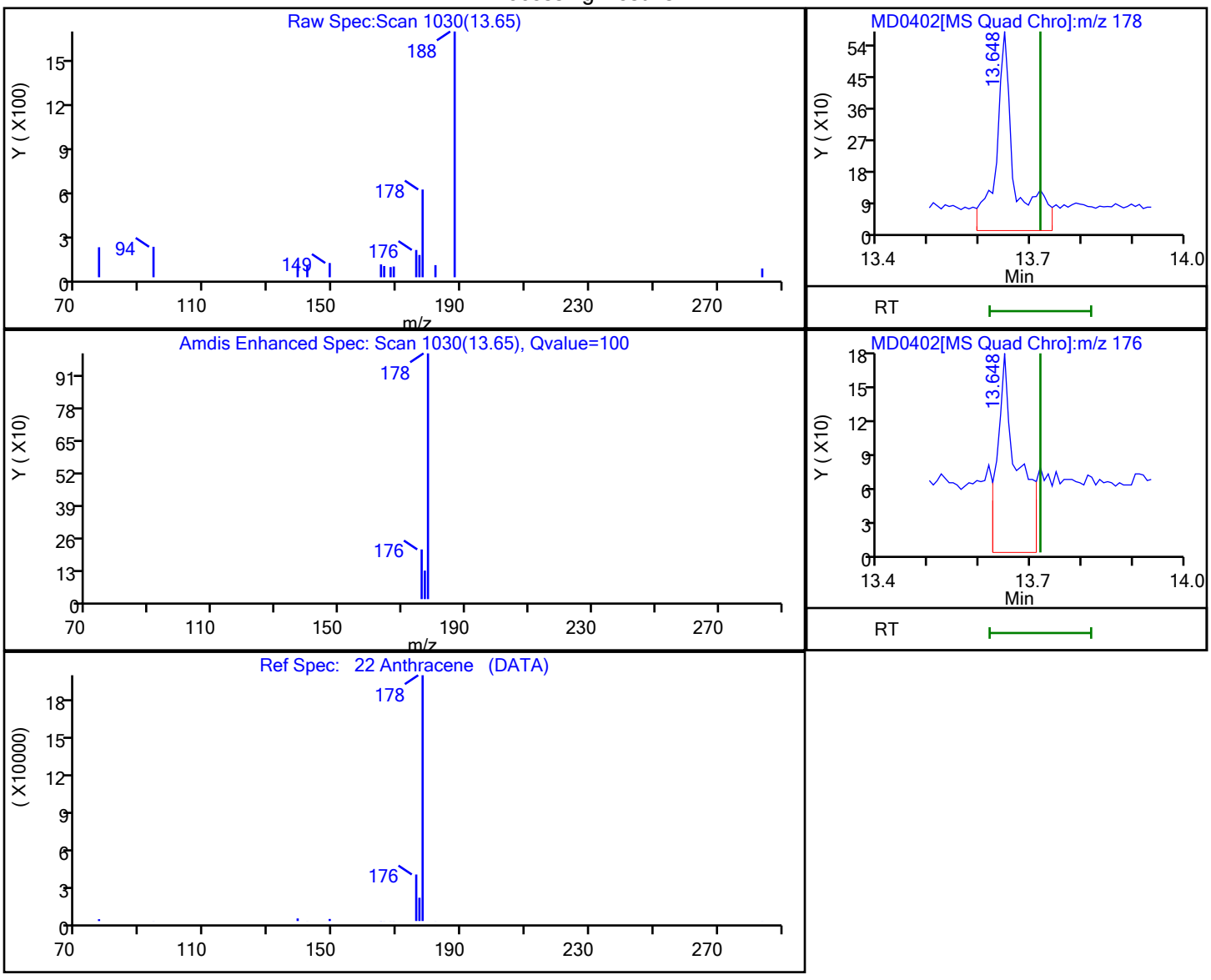
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0402.D				
Injection Date:	07-Apr-2021 21:04:12	Instrument ID:	HP21585		
Lims ID:	MB 410-111583/1-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		

22 Anthracene, CAS: 120-12-7

Processing Results



RT	Mass	Response	Amount
13.65	178.00	1433	0.003044
13.65	176.00	474	

Reviewer: gamblerj, 08-Apr-2021 05:48:28

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.: 410-34553-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-111922/1-A

Matrix: Water Lab File ID: MD0452.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 04/07/2021 17:45

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 07:21

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.: 112126 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)	78		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	72		49-115
93951-69-0	Fluoranthene-d10 (Surr)	99		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0452.D
Lims ID: MB 410-111922/1-A
Client ID:
Sample Type: MB
Inject. Date: 08-Apr-2021 07:21:12 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-111922/1-A
Misc. Info.: 410-0026143-003
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 19:22:22 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: transuea Date: 08-Apr-2021 19:04:25

	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	3.370	3.377	0.030	56	1141		0.0133	7M
*	4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	93	30211	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.972	8.972	0.000	91	110046	0.2500	0.2500	
$	9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	100	42328	0.2500	0.1805	
*	13 Acenaphthene-d10	164	11.719	11.719	0.000	98	62265	0.2500	0.2500	
*	20 Phenanthrene-d10	188	13.616	13.617	0.000	95	116348	0.2500	0.2500	
$	24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	99	111274	0.2500	0.2482	
*	29 Chrysene-d12	240	17.762	17.762	0.000	55	127933	0.2500	0.2500	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	0.000	99	105670	0.2500	0.1941	
*	38 Perylene-d12	264	20.247	20.247	0.000	99	156367	0.2500	0.2500	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

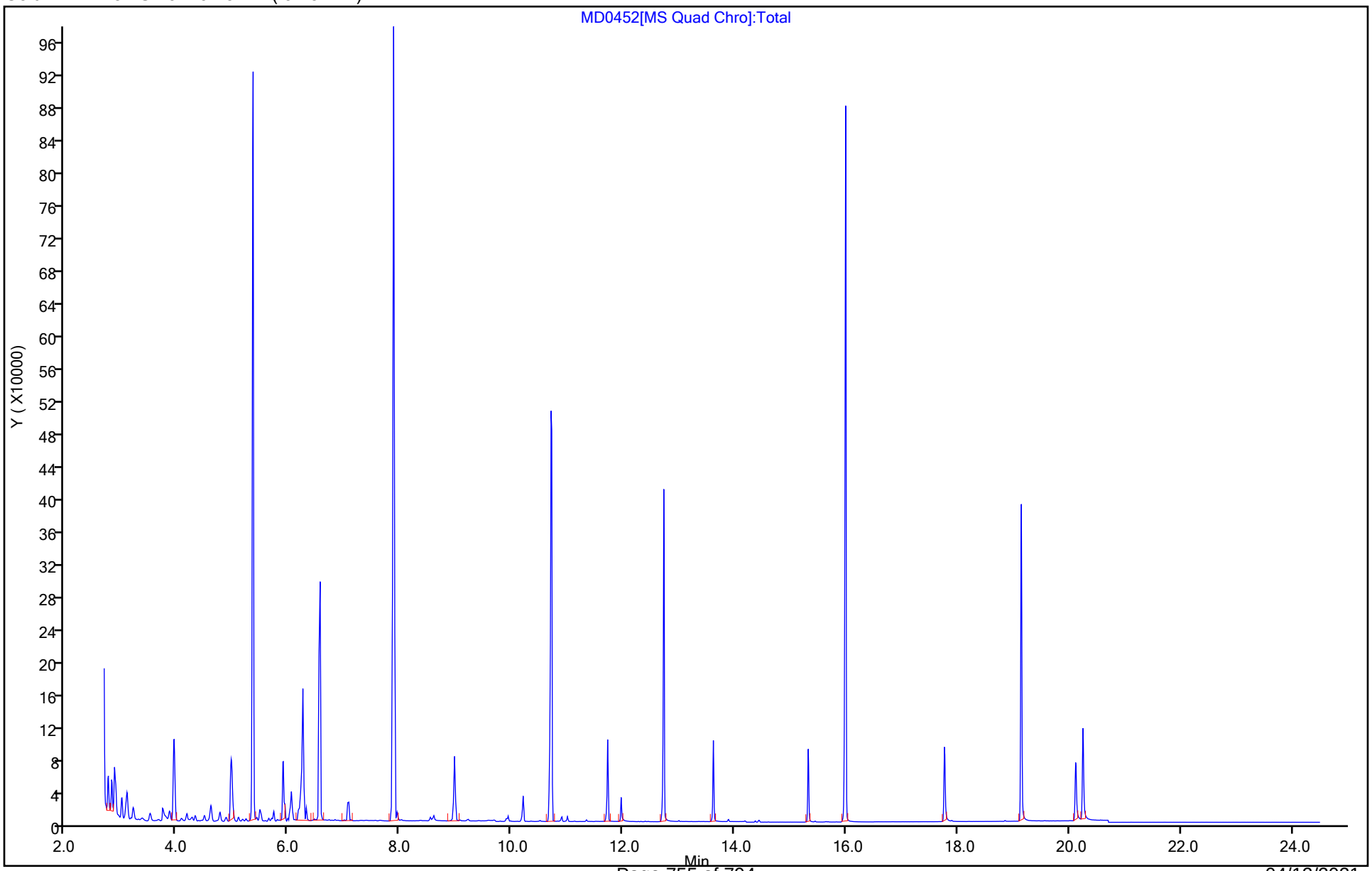
Report Date: 08-Apr-2021 19:23:19 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0452.D

Injection Date:	08-Apr-2021 07:21:12	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	MB 410-111922/1-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)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-34553-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-111583/2-A

Matrix: Water Lab File ID: MD0403.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/07/2021 21:34

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.: 111994 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.593		0.050	0.010
208-96-8	Acenaphthylene	0.649		0.050	0.010
120-12-7	Anthracene	0.766		0.050	0.010
56-55-3	Benzo[a]anthracene	0.754		0.050	0.010
50-32-8	Benzo[a]pyrene	0.806		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.715		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.682		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.827		0.050	0.010
218-01-9	Chrysene	0.804		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.683		0.050	0.020
206-44-0	Fluoranthene	0.841		0.050	0.010
86-73-7	Fluorene	0.673		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.664		0.050	0.020
91-20-3	Naphthalene	0.531		0.070	0.030
85-01-8	Phenanthrene	0.762		0.070	0.030
129-00-0	Pyrene	0.650		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	74		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	49		49-115
93951-69-0	Fluoranthene-d10 (Surr)	85		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0403.D
Lims ID: LCS 410-111583/2-A
Client ID:
Sample Type: LCS
Inject. Date: 07-Apr-2021 21:34:38 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-111583/2
Misc. Info.: 410-0026113-004
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 06:17:36 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 05:51:23

	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	3.377	3.340	0.037	96	15334	0.2500	0.1804	
*	4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	97	29908	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.973	8.973	0.000	91	115063	0.2500	0.2500	
	6 Naphthalene	128	9.014	9.014	0.000	93	61193	0.2500	0.1328	
$	9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	99	30144	0.2500	0.1229	
	12 Acenaphthylene	152	11.512	11.524	-0.012	100	76170	0.2500	0.1623	
*	13 Acenaphthene-d10	164	11.720	11.720	0.000	97	64680	0.2500	0.2500	
	14 Acenaphthene	154	11.756	11.768	-0.012	93	44874	0.2500	0.1482	
	17 Fluorene	166	12.423	12.423	0.000	96	59957	0.2500	0.1682	
*	20 Phenanthrene-d10	188	13.617	13.617	0.000	97	122250	0.2500	0.2500	
	21 Phenanthrene	178	13.640	13.648	-0.008	100	97076	0.2500	0.1904	
	22 Anthracene	178	13.710	13.718	-0.008	100	95213	0.2500	0.1916	
$	24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	99	99745	0.2500	0.2117	
	25 Fluoranthene	202	15.345	15.345	0.000	100	119453	0.2500	0.2101	
	26 Pyrene	202	15.696	15.702	-0.006	100	120553	0.2500	0.1625	
	28 Benzo[a]anthracene	228	17.739	17.747	-0.008	100	121539	0.2500	0.1886	
*	29 Chrysene-d12	240	17.762	17.762	0.000	71	129176	0.2500	0.2500	
	30 Chrysene	228	17.800	17.808	-0.008	100	133037	0.2500	0.2010	
	33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	126235	0.2500	0.1788	
	34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	154038	0.2500	0.2066	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	97759	0.2500	0.1843	
	37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	135888	0.2500	0.2015	
*	38 Perylene-d12	264	20.247	20.247	0.000	99	152320	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	21.979	21.986	-0.007	99	106931	0.2500	0.1661	M
	41 Dibenz(a,h)anthracene	278	22.028	22.028	0.000	97	126046	0.2500	0.1708	
	42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	130617	0.2500	0.1705	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

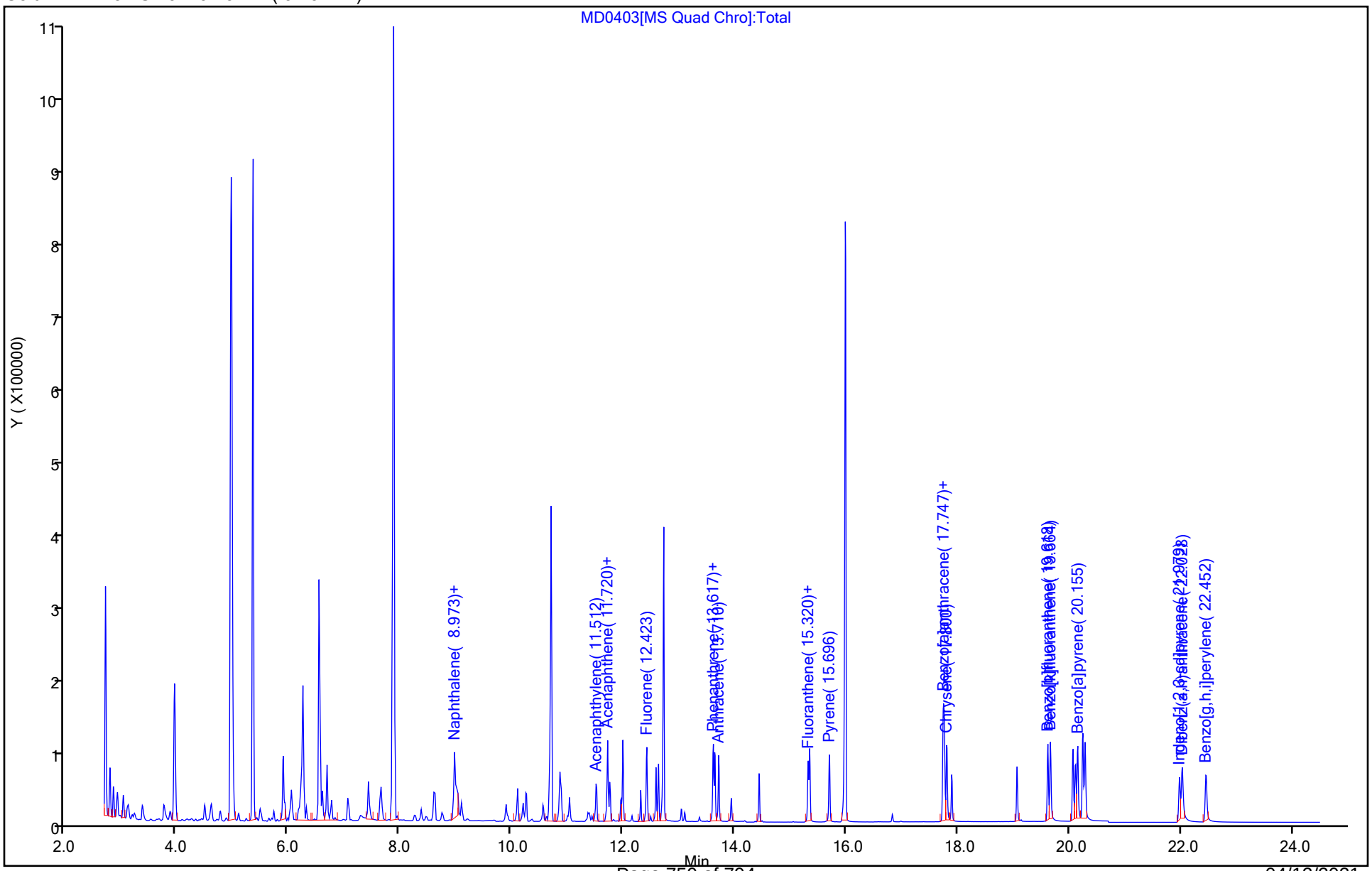
Report Date: 08-Apr-2021 06:17:57 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0403.D

Injection Date:	07-Apr-2021 21:34:38	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	LCS 410-111583/2-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

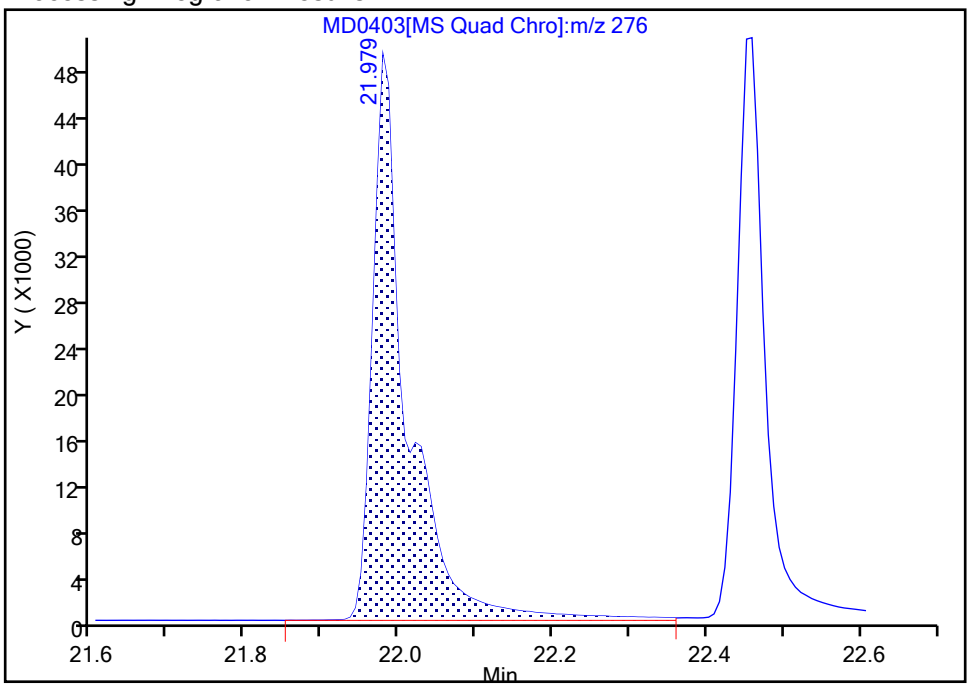
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0403.D				
Injection Date:	07-Apr-2021 21:34:38	Instrument ID:	HP21585		
Lims ID:	LCS 410-111583/2-A				
Client ID:					
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	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

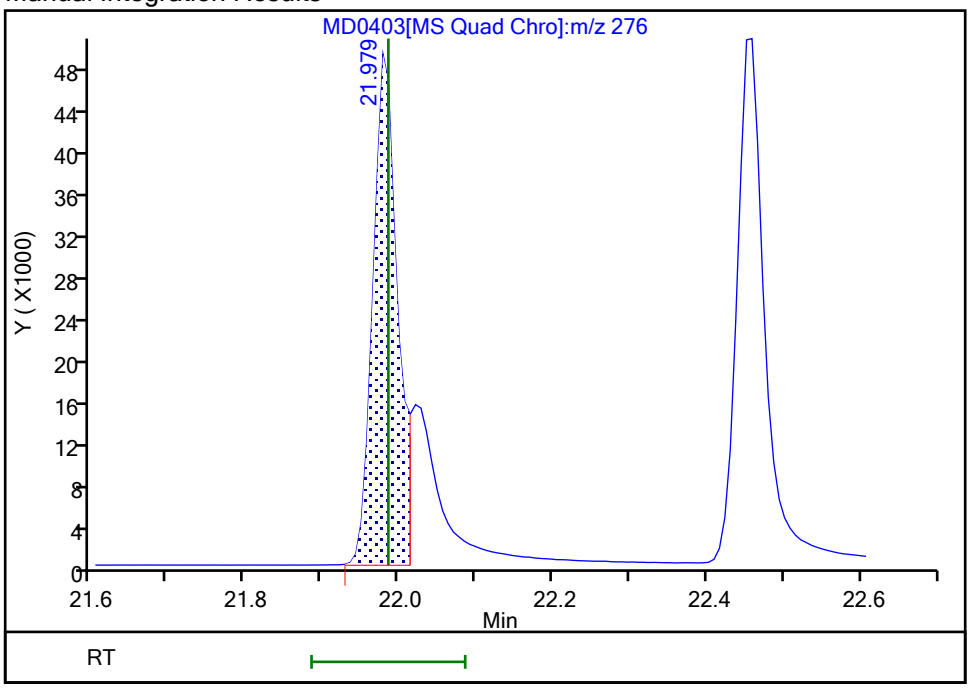
Processing Integration Results

RT: 21.98
Area: 153288
Amount: 0.238118
Amount Units: ug/ml



Manual Integration Results

RT: 21.98
Area: 106931
Amount: 0.166107
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:51:17

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.: 410-34553-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-111922/2-A

Matrix: Water Lab File ID: MD0453.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 04/07/2021 17:45

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 07:51

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.: 112126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.759		0.050	0.010
208-96-8	Acenaphthylene	0.785		0.050	0.010
120-12-7	Anthracene	0.899		0.050	0.010
56-55-3	Benzo[a]anthracene	0.880		0.050	0.010
50-32-8	Benzo[a]pyrene	0.907		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.833		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.743		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.941		0.050	0.010
218-01-9	Chrysene	0.928		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.711		0.050	0.020
206-44-0	Fluoranthene	0.984		0.050	0.010
86-73-7	Fluorene	0.823		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.733		0.050	0.020
91-20-3	Naphthalene	0.767		0.070	0.030
85-01-8	Phenanthrene	0.890		0.070	0.030
129-00-0	Pyrene	0.736		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	86		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	77		49-115
93951-69-0	Fluoranthene-d10 (Surr)	101		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0453.D
Lims ID: LCS 410-111922/2-A
Client ID:
Sample Type: LCS
Inject. Date: 08-Apr-2021 07:51:46 ALS Bottle#: 0 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-111922/2-A
Misc. Info.: 410-0026143-004
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 19:22:22 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: transuea Date: 08-Apr-2021 19:10:11

	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	3.370	3.377	0.030	93	10702	0.2500	0.1290	M
	3 Bis(2-chloroethyl)ether	93	6.684	6.685	-0.001	28	38818	0.2500	0.2235	M
*	4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	94	29196	0.2500	0.2500	
*	5 Naphthalene-d8	136	8.972	8.972	0.000	91	110078	0.2500	0.2500	
	6 Naphthalene	128	9.013	9.013	-0.001	94	84566	0.2500	0.1918	M
$	9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	100	45296	0.2500	0.1931	
	12 Acenaphthylene	152	11.524	11.524	0.000	100	87162	0.2500	0.1963	
*	13 Acenaphthene-d10	164	11.719	11.719	0.000	96	61204	0.2500	0.2500	
	14 Acenaphthene	154	11.768	11.769	0.000	88	54343	0.2500	0.1897	
	17 Fluorene	166	12.422	12.423	0.000	96	69431	0.2500	0.2059	
	19 Hexachlorobenzene	284	13.109	13.109	0.000	99	17226	0.2500	0.1730	
*	20 Phenanthrene-d10	188	13.616	13.617	0.000	96	117284	0.2500	0.2500	
	21 Phenanthrene	178	13.648	13.648	0.000	100	108835	0.2500	0.2225	
	22 Anthracene	178	13.718	13.718	0.000	100	107172	0.2500	0.2248	
$	24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	99	113985	0.2500	0.2522	
	25 Fluoranthene	202	15.344	15.351	-0.007	100	134175	0.2500	0.2460	
	26 Pyrene	202	15.702	15.702	0.000	99	135472	0.2500	0.1839	
	28 Benzo[a]anthracene	228	17.746	17.747	0.000	100	140767	0.2500	0.2199	
*	29 Chrysene-d12	240	17.762	17.762	0.000	66	128297	0.2500	0.2500	
	30 Chrysene	228	17.808	17.808	0.000	100	152465	0.2500	0.2319	
	33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	148126	0.2500	0.2082	
	34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	176834	0.2500	0.2353	
$	36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	0.000	99	114904	0.2500	0.2149	
	37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	154255	0.2500	0.2268	
*	38 Perylene-d12	264	20.247	20.247	0.000	99	153566	0.2500	0.2500	
	40 Indeno[1,2,3-cd]pyrene	276	21.978	21.978	-0.007	100	118928	0.2500	0.1832	M
	41 Dibenz(a,h)anthracene	278	22.028	22.035	-0.007	98	132256	0.2500	0.1778	
	42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	143389	0.2500	0.1857	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013	Amount Added:	10.00	Units: uL	Run Reagent

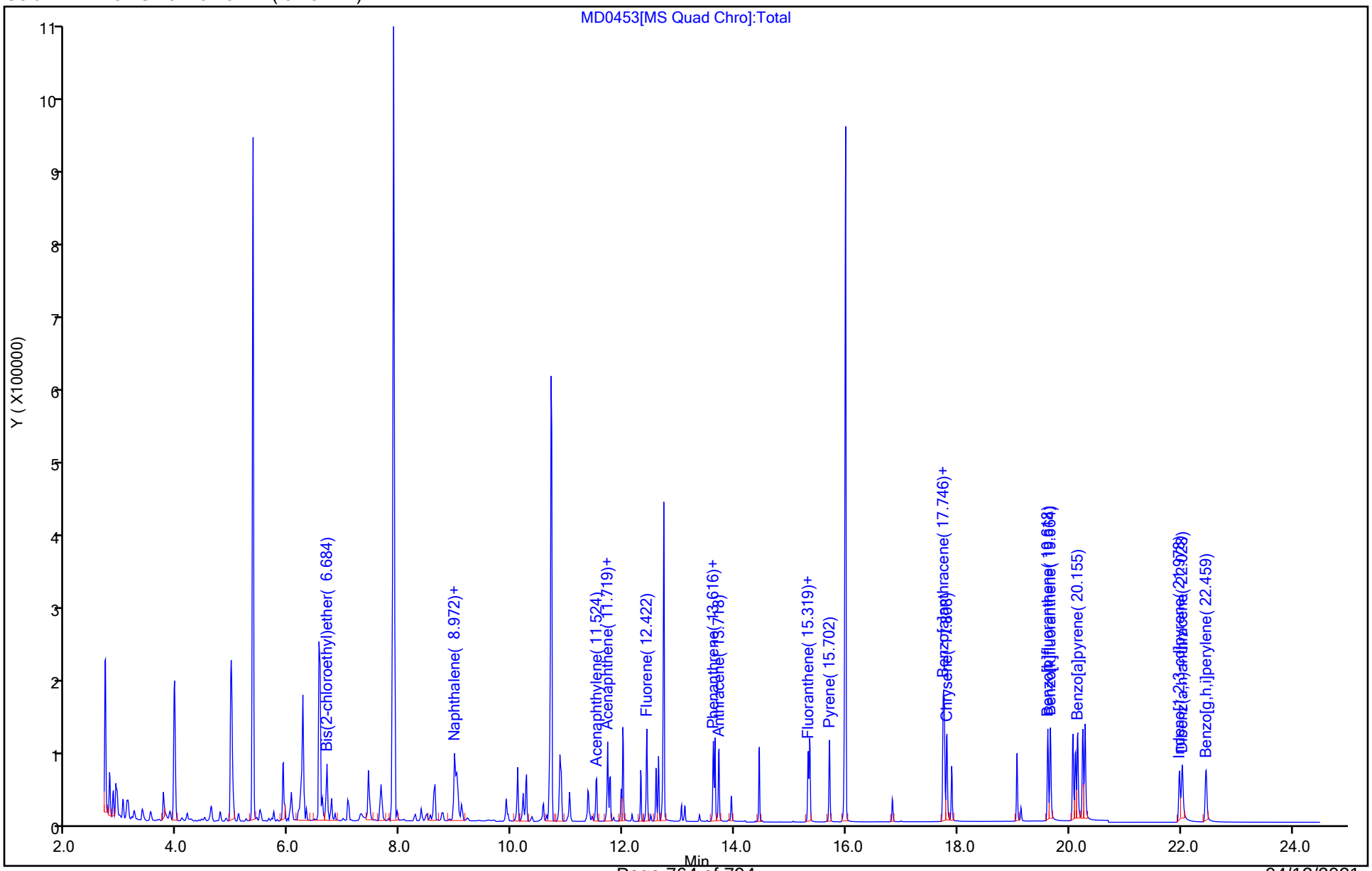
Report Date: 08-Apr-2021 19:23:20 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0453.D

Injection Date:	08-Apr-2021 07:51:46	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	LCS 410-111922/2-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

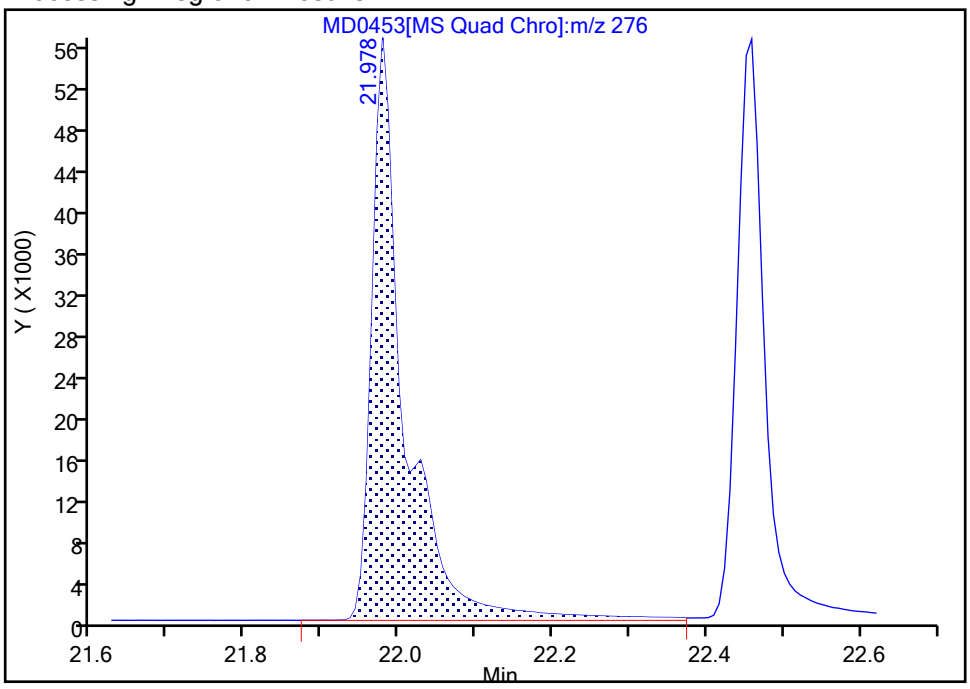
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0453.D				
Injection Date:	08-Apr-2021 07:51:46	Instrument ID:	HP21585		
Lims ID:	LCS 410-111922/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

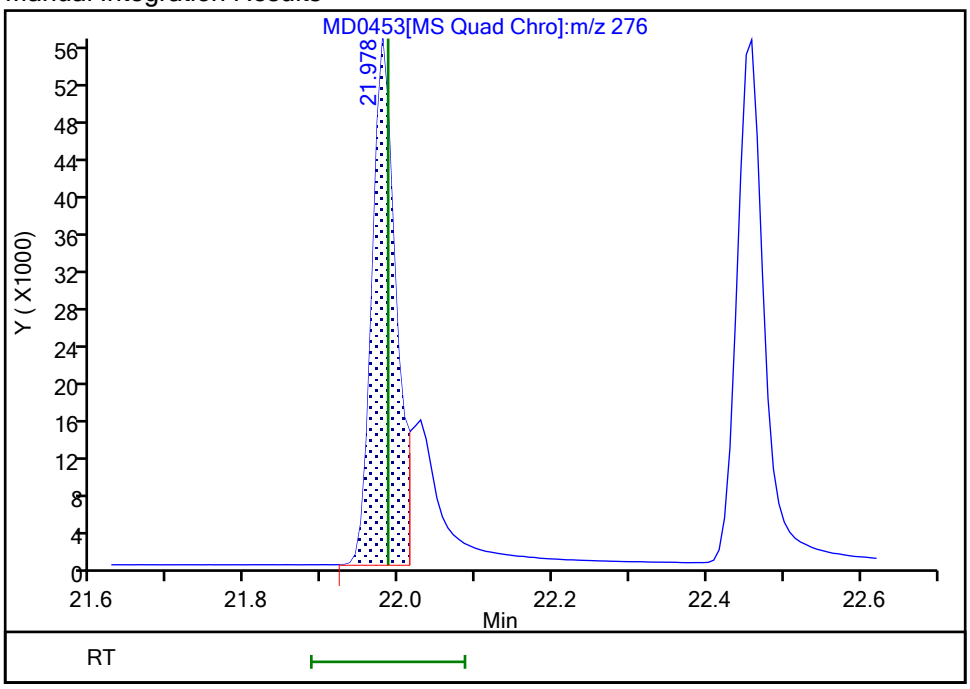
Processing Integration Results

RT: 21.98
Area: 166378
Amount: 0.256355
Amount Units: ug/ml



Manual Integration Results

RT: 21.98
Area: 118928
Amount: 0.183244
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 19:05:22

Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

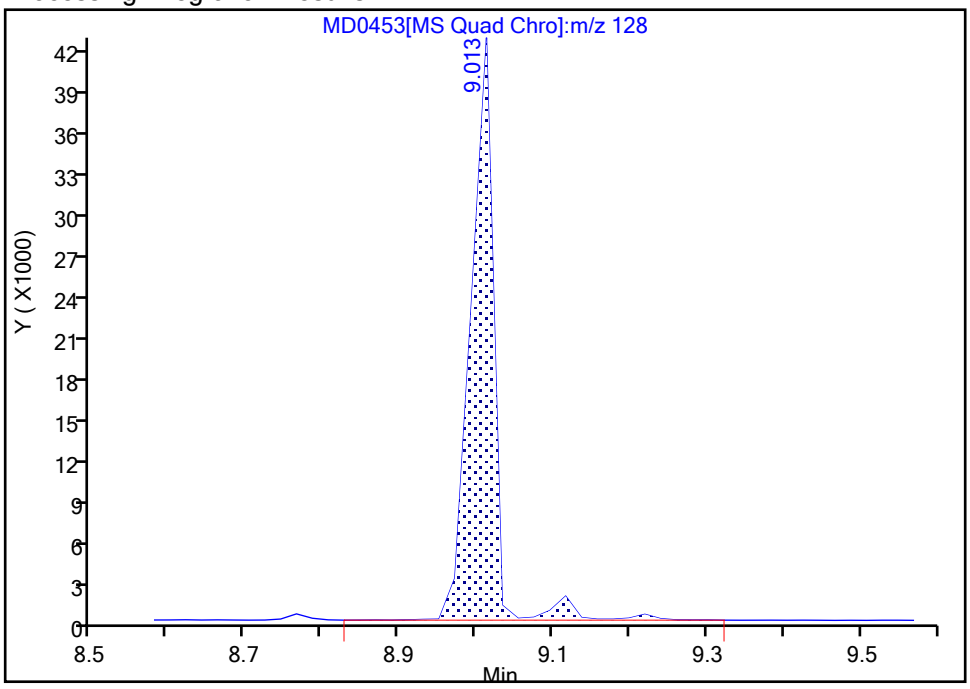
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0453.D				
Injection Date:	08-Apr-2021 07:51:46	Instrument ID:	HP21585		
Lims ID:	LCS 410-111922/2-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

6 Naphthalene, CAS: 91-20-3

Signal: 1

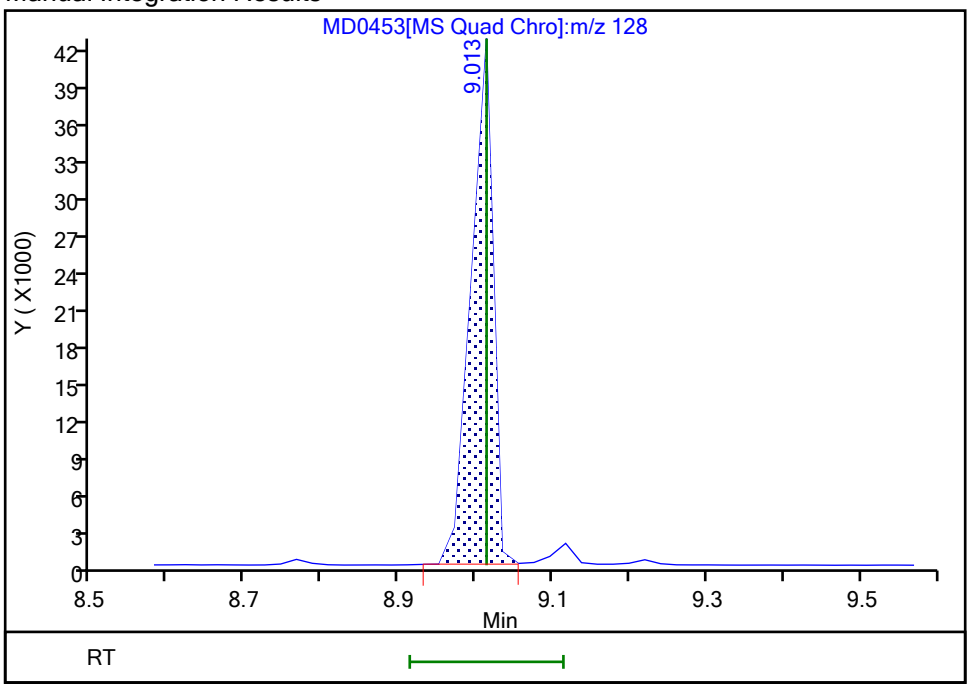
Processing Integration Results

RT: 9.01
Area: 89840
Amount: 0.203742
Amount Units: ug/ml



Manual Integration Results

RT: 9.01
Area: 84566
Amount: 0.191782
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 19:04:59

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.: 410-34553-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-111922/3-A

Matrix: Water Lab File ID: MD0454.D

Analysis Method: 8270D SIM Date Collected:

Extract. Method: 3510C Date Extracted: 04/07/2021 17:45

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 08:22

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.: 112126 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.710		0.050	0.010
208-96-8	Acenaphthylene	0.761		0.050	0.010
120-12-7	Anthracene	0.870		0.050	0.010
56-55-3	Benzo[a]anthracene	0.841		0.050	0.010
50-32-8	Benzo[a]pyrene	0.885		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.805		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.695		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.912		0.050	0.010
218-01-9	Chrysene	0.894		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.680		0.050	0.020
206-44-0	Fluoranthene	0.945		0.050	0.010
86-73-7	Fluorene	0.779		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.690		0.050	0.020
91-20-3	Naphthalene	0.778		0.070	0.030
85-01-8	Phenanthrene	0.855		0.070	0.030
129-00-0	Pyrene	0.709		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	69		49-115
93951-69-0	Fluoranthene-d10 (Surr)	96		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0454.D
Lims ID: LCSD 410-111922/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 08-Apr-2021 08:22:12 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-111922/3-A
Misc. Info.: 410-0026143-005
Operator ID: jmg00346 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 19:22:22 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1638

First Level Reviewer: transuea Date: 08-Apr-2021 19:22:22

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	3.377	3.377	0.037	94	12433	0.2500	0.1441	M
3 Bis(2-chloroethyl)ether	93	6.685	6.685	0.000	73	38459	0.2500	0.2110	M
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	99	30368	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.972	8.972	0.000	91	115528	0.2500	0.2500	
6 Naphthalene	128	9.014	9.013	0.000	93	90068	0.2500	0.1946	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	0.000	100	42441	0.2500	0.1724	
12 Acenaphthylene	152	11.524	11.524	0.000	100	89034	0.2500	0.1901	
* 13 Acenaphthene-d10	164	11.719	11.719	0.000	96	64557	0.2500	0.2500	
14 Acenaphthene	154	11.768	11.769	0.000	94	53645	0.2500	0.1775	
17 Fluorene	166	12.422	12.423	0.000	96	69278	0.2500	0.1947	
19 Hexachlorobenzene	284	13.109	13.109	0.000	99	16702	0.2500	0.1620	
* 20 Phenanthrene-d10	188	13.617	13.617	0.001	96	121437	0.2500	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	108255	0.2500	0.2138	
22 Anthracene	178	13.718	13.718	0.000	100	107430	0.2500	0.2176	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	0.000	99	112164	0.2500	0.2397	
25 Fluoranthene	202	15.344	15.351	-0.007	100	133461	0.2500	0.2364	
26 Pyrene	202	15.702	15.702	0.000	99	135308	0.2500	0.1773	
28 Benzo[a]anthracene	228	17.747	17.747	0.001	100	139483	0.2500	0.2104	
* 29 Chrysene-d12	240	17.762	17.762	0.000	65	132906	0.2500	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	152143	0.2500	0.2234	
33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	147719	0.2500	0.2013	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	176716	0.2500	0.2280	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	0.000	99	113515	0.2500	0.2059	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	155155	0.2500	0.2213	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	158338	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.978	21.978	-0.007	100	115479	0.2500	0.1726	M
41 Dibenz(a,h)anthracene	278	22.028	22.035	-0.007	98	130439	0.2500	0.1700	
42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	138417	0.2500	0.1738	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013	Amount Added:	10.00	Units: uL	Run Reagent

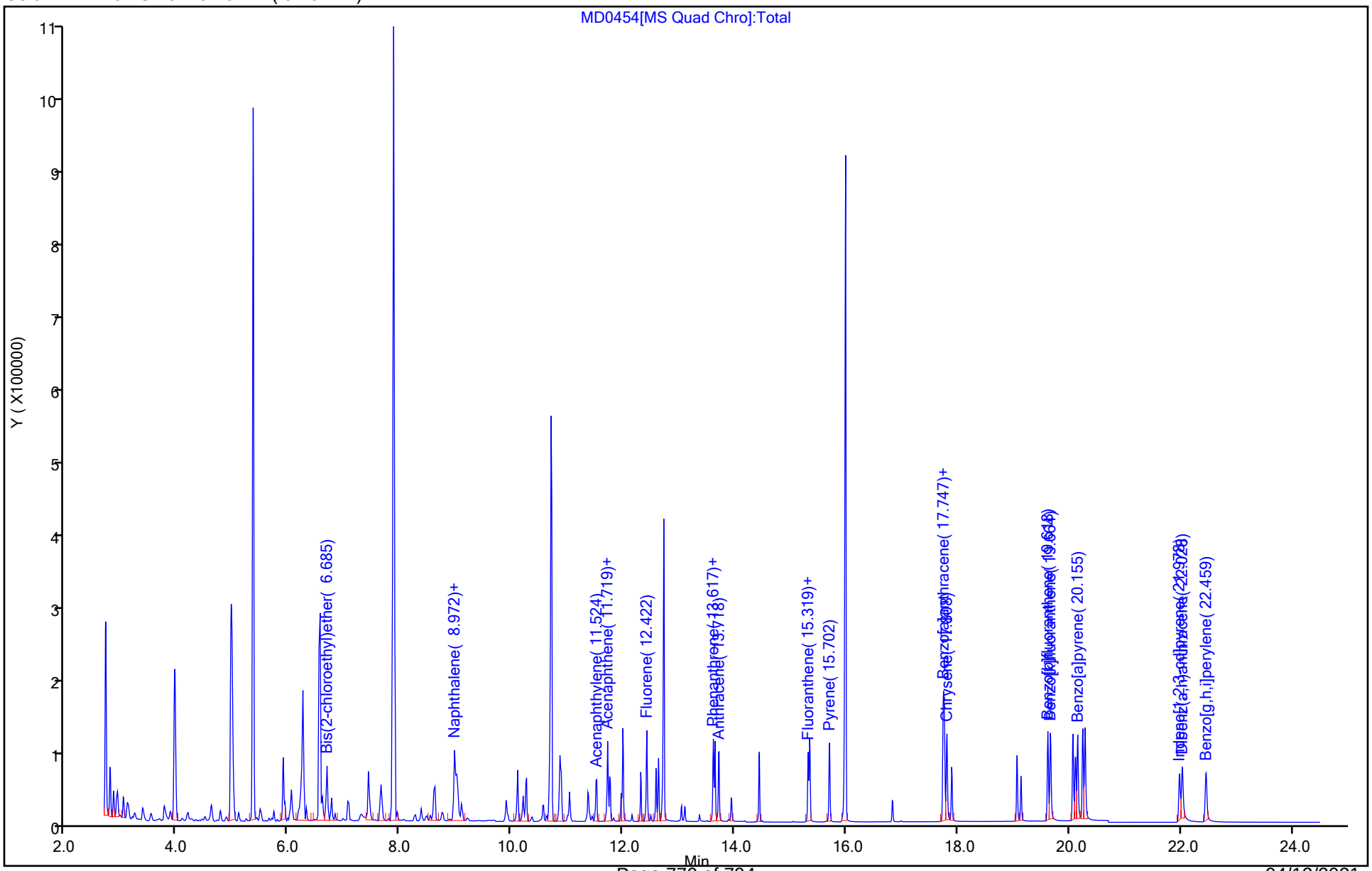
Report Date: 08-Apr-2021 19:23:21 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0454.D

Injection Date:	08-Apr-2021 08:22:12	Instrument ID:	HP21585	Operator ID:	jmg00346
Lims ID:	LCSD 410-111922/3-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		

Column: DB-5MS 20m 0.25mm (0.25 mm)



04/12/2021

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

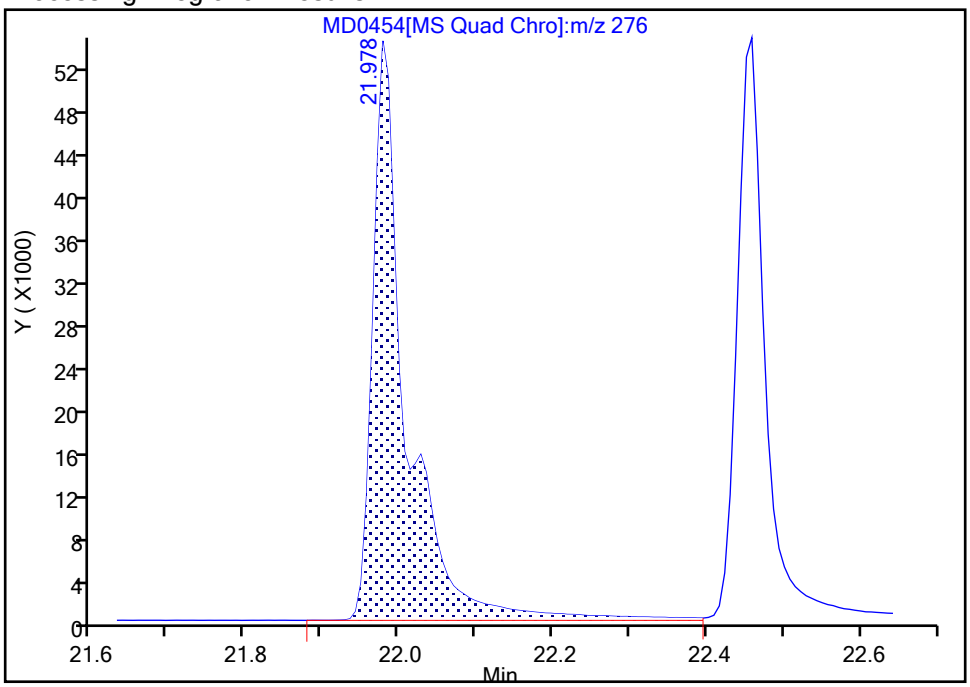
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210408-26143.b\MD0454.D				
Injection Date:	08-Apr-2021 08:22:12	Instrument ID:	HP21585		
Lims ID:	LCSD 410-111922/3-A				
Client ID:					
Operator ID:	jmg00346	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_SIM_HP21585	Limit Group:	MSSV - 8270D_E SIM		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

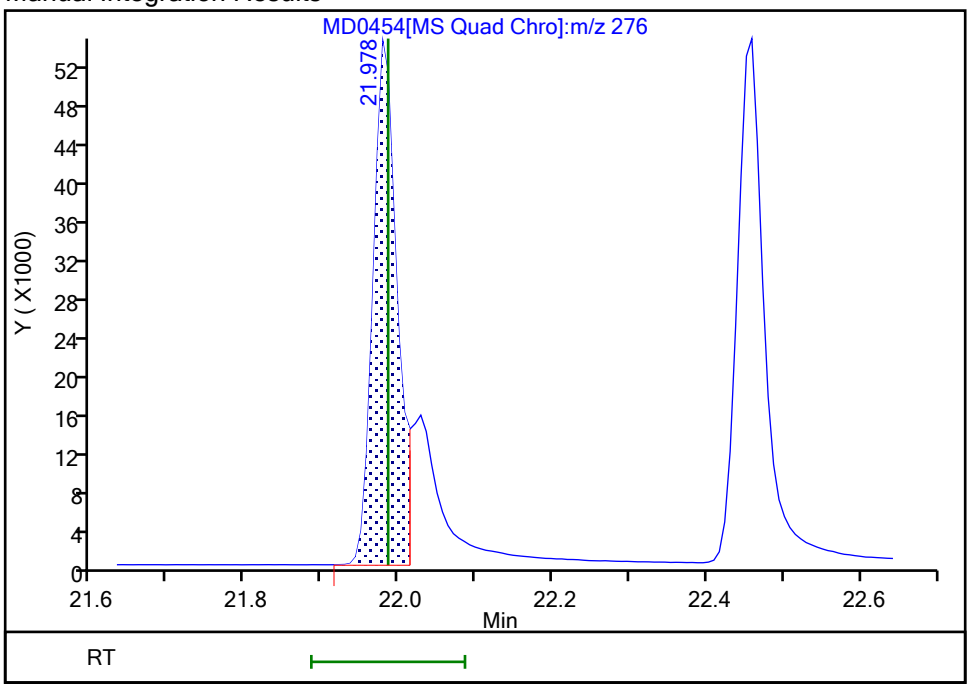
Processing Integration Results

RT: 21.98
Area: 163892
Amount: 0.244914
Amount Units: ug/ml



Manual Integration Results

RT: 21.98
Area: 115479
Amount: 0.172567
Amount Units: ug/ml



Reviewer: transuea, 08-Apr-2021 19:22:07

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-7S-20210331 MS Lab Sample ID: 410-34553-4 MS

Matrix: Groundwater Lab File ID: MD0414.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 14:45

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 03:09

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.: 111994 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.727		0.050	0.010
208-96-8	Acenaphthylene	0.685		0.050	0.010
120-12-7	Anthracene	0.859		0.050	0.010
56-55-3	Benzo[a]anthracene	0.806		0.050	0.010
50-32-8	Benzo[a]pyrene	0.735		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.746		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.592		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.833		0.050	0.010
218-01-9	Chrysene	0.834		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.705		0.050	0.020
206-44-0	Fluoranthene	0.927		0.050	0.010
86-73-7	Fluorene	0.725		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.708		0.050	0.020
91-20-3	Naphthalene	0.768		0.070	0.030
85-01-8	Phenanthrene	0.917		0.070	0.030
129-00-0	Pyrene	0.649		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	67		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	71		49-115
93951-69-0	Fluoranthene-d10 (Surr)	95		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0414.D
Lims ID: 410-34553-D-4-A MS
Client ID: MW-7S-20210331
Sample Type: MS
Inject. Date: 08-Apr-2021 03:09:27 ALS Bottle#: 0 Worklist Smp#: 15
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-4-A MS
Misc. Info.: 410-0026113-015
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 06:17:36 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 05:56:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.076	7.076	0.000	95	30200	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.972	8.973	-0.001	91	114588	0.2500	0.2500	
6 Naphthalene	128	9.013	9.014	-0.001	94	88164	0.2500	0.1921	
$ 9 1-Methylnaphthalene-d10	152	10.203	10.204	-0.001	100	43238	0.2500	0.1771	
12 Acenaphthylene	152	11.524	11.524	0.000	100	82980	0.2500	0.1712	
* 13 Acenaphthene-d10	164	11.719	11.720	-0.001	94	66835	0.2500	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	94	56887	0.2500	0.1819	
17 Fluorene	166	12.422	12.423	-0.001	96	66734	0.2500	0.1812	
* 20 Phenanthrene-d10	188	13.616	13.617	-0.001	97	107217	0.2500	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	102472	0.2500	0.2292	
22 Anthracene	178	13.718	13.718	0.000	100	93596	0.2500	0.2147	
$ 24 Fluoranthene-d10 (Surr)	212	15.319	15.320	-0.001	99	97883	0.2500	0.2369	
25 Fluoranthene	202	15.344	15.345	-0.001	100	115579	0.2500	0.2318	
26 Pyrene	202	15.702	15.702	0.000	99	122655	0.2500	0.1622	
28 Benzo[a]anthracene	228	17.746	17.747	-0.001	100	132467	0.2500	0.2016	
* 29 Chrysene-d12	240	17.762	17.762	0.000	68	131689	0.2500	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	140627	0.2500	0.2084	
33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	143800	0.2500	0.1865	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	169546	0.2500	0.2082	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.116	20.117	-0.001	99	97640	0.2500	0.1685	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	135335	0.2500	0.1837	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	166372	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.978	21.986	-0.008	100	124536	0.2500	0.1771	M
41 Dibenz(a,h)anthracene	278	22.028	22.028	0.000	97	142120	0.2500	0.1763	
42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	123747	0.2500	0.1479	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

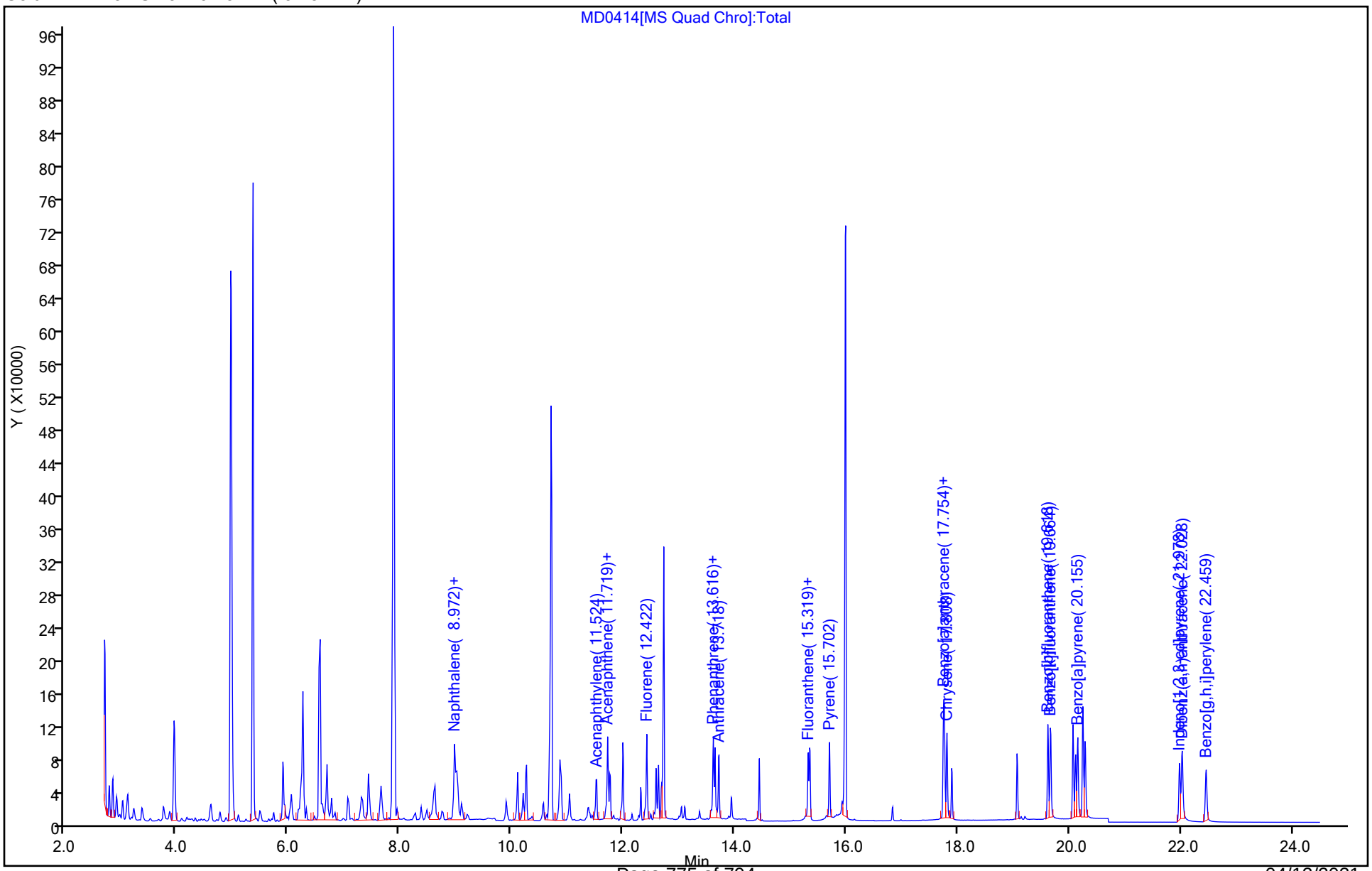
Report Date: 08-Apr-2021 06:18:05 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0414.D

Injection Date:	08-Apr-2021 03:09:27	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-4-A MS			Worklist Smp#:	15
Client ID:	MW-7S-20210331				
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

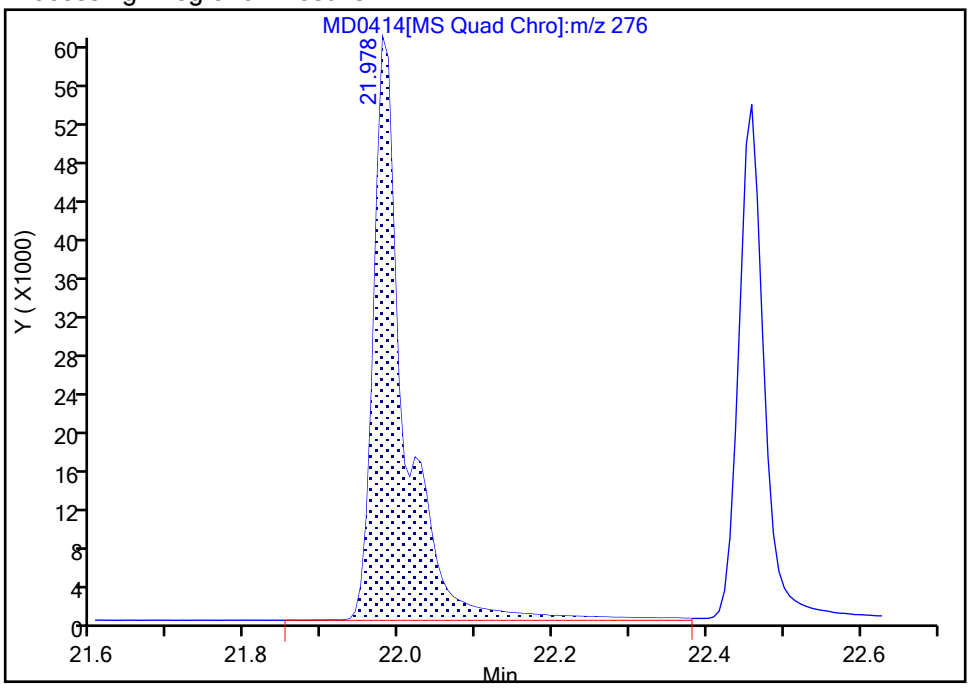
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0414.D				
Injection Date:	08-Apr-2021 03:09:27	Instrument ID:	HP21585		
Lims ID:	410-34553-D-4-A MS				
Client ID:	MW-7S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

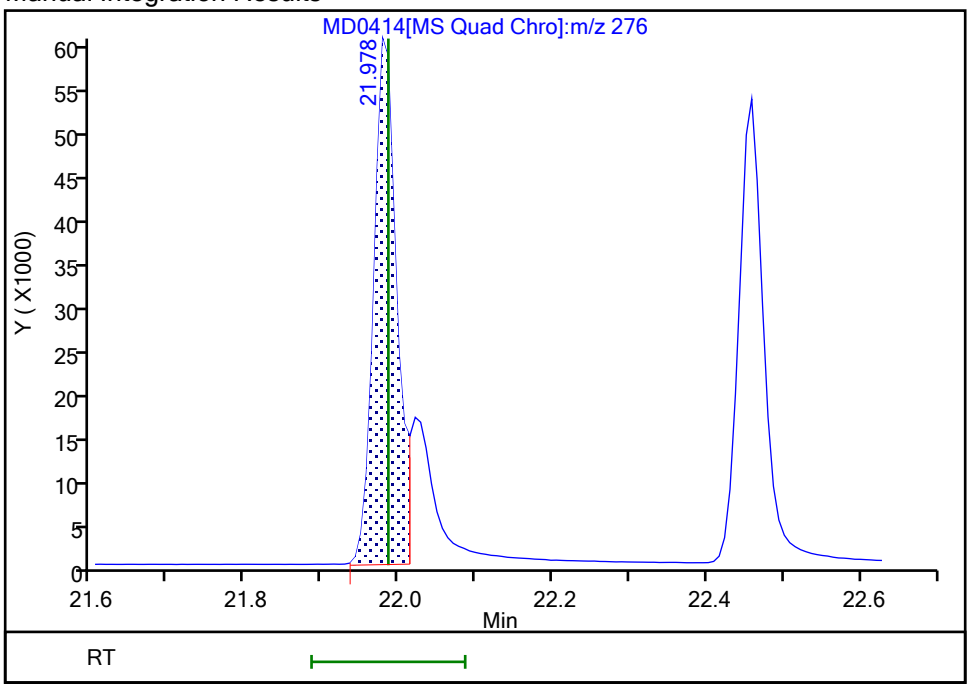
Processing Integration Results

RT: 21.98
Area: 168960
Amount: 0.240295
Amount Units: ug/ml



Manual Integration Results

RT: 21.98
Area: 124536
Amount: 0.177115
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:56:20

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.: 410-34553-1

SDG No.:

Client Sample ID: MW-7S-20210331 MSD Lab Sample ID: 410-34553-4 MSD

Matrix: Groundwater Lab File ID: MD0415.D

Analysis Method: 8270D SIM Date Collected: 03/31/2021 14:45

Extract. Method: 3510C Date Extracted: 04/07/2021 10:10

Sample wt/vol: 250(mL) Date Analyzed: 04/08/2021 03:39

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.: 111994 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	0.816		0.050	0.010
208-96-8	Acenaphthylene	0.766		0.050	0.010
120-12-7	Anthracene	0.951		0.050	0.010
56-55-3	Benzo[a]anthracene	0.872		0.050	0.010
50-32-8	Benzo[a]pyrene	0.829		0.050	0.010
205-99-2	Benzo[b]fluoranthene	0.814		0.050	0.010
191-24-2	Benzo[g,h,i]perylene	0.695		0.050	0.010
207-08-9	Benzo[k]fluoranthene	0.891		0.050	0.010
218-01-9	Chrysene	0.889		0.050	0.010
53-70-3	Dibenz(a,h)anthracene	0.730		0.050	0.020
206-44-0	Fluoranthene	1.02		0.050	0.010
86-73-7	Fluorene	0.803		0.050	0.010
193-39-5	Indeno[1,2,3-cd]pyrene	0.779		0.050	0.020
91-20-3	Naphthalene	0.787		0.070	0.030
85-01-8	Phenanthrene	1.02		0.070	0.030
129-00-0	Pyrene	0.694		0.050	0.010

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	78		10-122
38072-94-5	1-Methylnaphthalene-d10 (Surr)	67		49-115
93951-69-0	Fluoranthene-d10 (Surr)	104		65-129

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0415.D
Lims ID: 410-34553-D-4-B MSD
Client ID: MW-7S-20210331
Sample Type: MSD
Inject. Date: 08-Apr-2021 03:39:53 ALS Bottle#: 0 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-34553-D-4-B MSD
Misc. Info.: 410-0026113-016
Operator ID: art12405 Instrument ID: HP21585

Method: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\8270_SIM_HP21585.m
Limit Group: MSSV - 8270D_E SIM
Last Update: 08-Apr-2021 06:17:36 Calib Date: 26-Mar-2021 15:15:54
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20210326-25149.b\MC1066.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: gamblerj Date: 08-Apr-2021 05:57:06

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	7.076	7.076	0.000	94	28827	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.973	8.973	0.000	92	120639	0.2500	0.2500	
6 Naphthalene	128	9.014	9.014	0.000	93	95058	0.2500	0.1967	
$ 9 1-Methylnaphthalene-d10	152	10.204	10.204	0.000	100	43329	0.2500	0.1685	
12 Acenaphthylene	152	11.512	11.524	-0.012	100	86684	0.2500	0.1914	
* 13 Acenaphthene-d10	164	11.720	11.720	0.000	95	62424	0.2500	0.2500	
14 Acenaphthene	154	11.768	11.768	0.000	93	59605	0.2500	0.2040	
17 Fluorene	166	12.423	12.423	0.000	96	69053	0.2500	0.2007	
* 20 Phenanthrene-d10	188	13.617	13.617	0.000	98	97976	0.2500	0.2500	
21 Phenanthrene	178	13.648	13.648	0.000	100	104449	0.2500	0.2557	
22 Anthracene	178	13.710	13.718	-0.008	100	94697	0.2500	0.2378	
$ 24 Fluoranthene-d10 (Surr)	212	15.320	15.320	0.000	99	97769	0.2500	0.2589	
25 Fluoranthene	202	15.345	15.345	0.000	100	116024	0.2500	0.2547	
26 Pyrene	202	15.702	15.702	0.000	99	121623	0.2500	0.1736	
28 Benzo[a]anthracene	228	17.747	17.747	0.000	100	132671	0.2500	0.2179	
* 29 Chrysene-d12	240	17.762	17.762	0.000	65	122013	0.2500	0.2500	
30 Chrysene	228	17.808	17.808	0.000	100	139020	0.2500	0.2224	
33 Benzo[b]fluoranthene	252	19.618	19.618	0.000	100	144223	0.2500	0.2036	
34 Benzo[k]fluoranthene	252	19.664	19.664	0.000	100	166621	0.2500	0.2227	
$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.117	20.117	0.000	99	103555	0.2500	0.1945	
37 Benzo[a]pyrene	252	20.155	20.155	0.000	100	140334	0.2500	0.2073	
* 38 Perylene-d12	264	20.247	20.247	0.000	99	152898	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.979	21.986	-0.007	100	125856	0.2500	0.1948	M
41 Dibenz(a,h)anthracene	278	22.028	22.028	0.000	97	135205	0.2500	0.1825	
42 Benzo[g,h,i]perylene	276	22.459	22.459	0.000	97	133542	0.2500	0.1737	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSS_RVSIM_IS_00013 Amount Added: 10.00 Units: uL Run Reagent

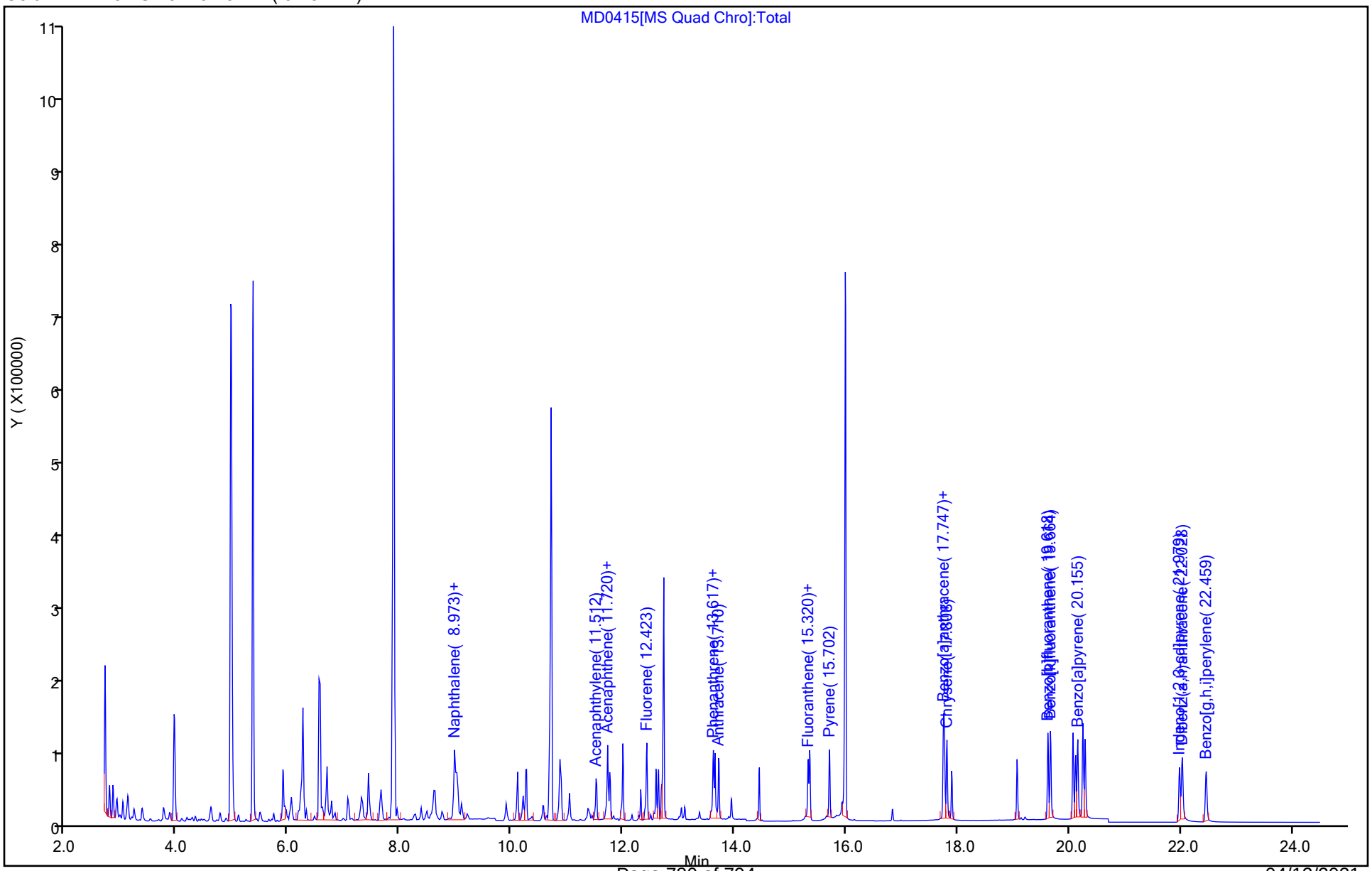
Report Date: 08-Apr-2021 06:18:07 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0415.D

Injection Date:	08-Apr-2021 03:39:53	Instrument ID:	HP21585	Operator ID:	art12405
Lims ID:	410-34553-D-4-B MSD			Worklist Smp#:	16
Client ID:	MW-7S-20210331				
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

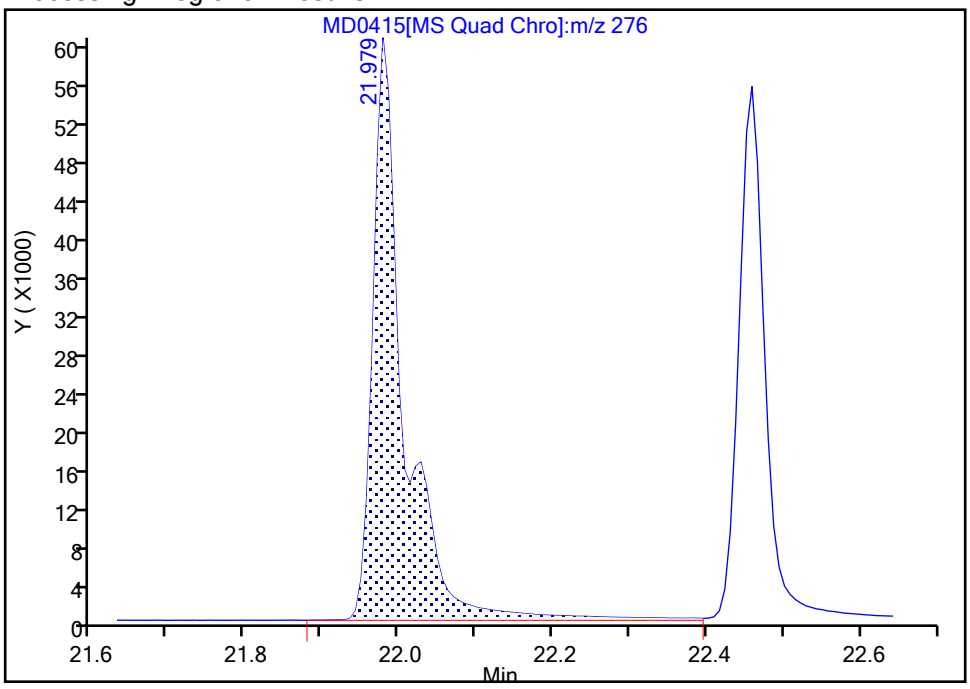
Data File:	\\chromfs\Lancaster\ChromData\HP21585\20210407-26113.b\MD0415.D				
Injection Date:	08-Apr-2021 03:39:53	Instrument ID:	HP21585		
Lims ID:	410-34553-D-4-B MSD				
Client ID:	MW-7S-20210331				
Operator ID:	art12405	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
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

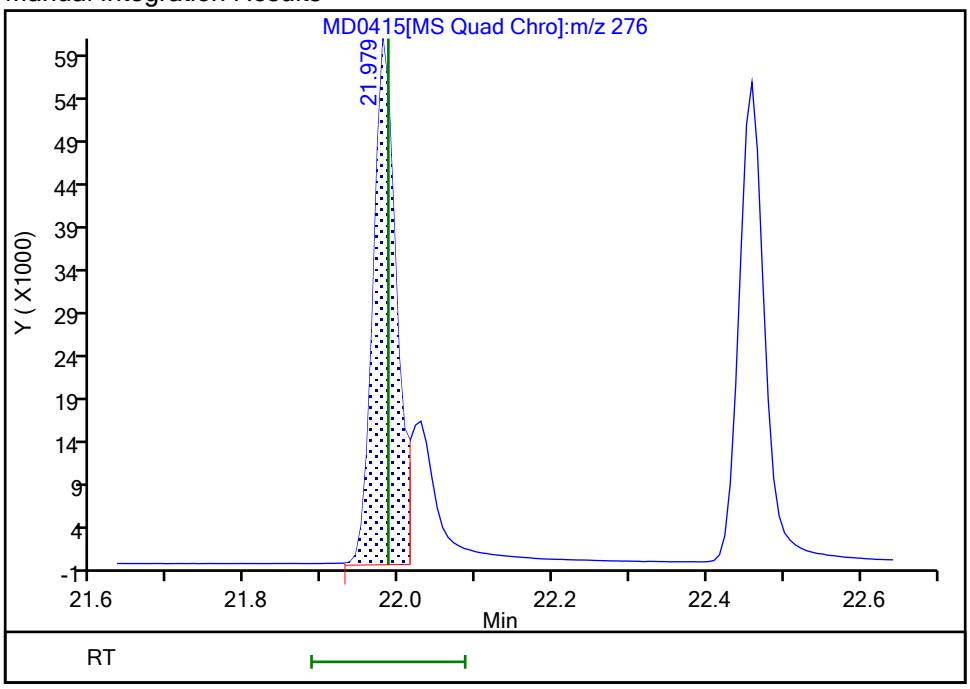
Processing Integration Results

RT: 21.98
Area: 170026
Amount: 0.263120
Amount Units: ug/ml



Manual Integration Results

RT: 21.98
Area: 125856
Amount: 0.194766
Amount Units: ug/ml



Reviewer: gamblerj, 08-Apr-2021 05:57:03

Audit Action: Manually Integrated Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Instrument ID: HP21585 Start Date: 03/19/2021 10:25

Analysis Batch Number: 105018 End Date: 03/19/2021 22:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-105018/1		03/19/2021 10:25	1	MC0560.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-105018/2		03/19/2021 10:42	1	MC0561.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-105018/3		03/19/2021 12:06	1	MC0562.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-105018/4		03/19/2021 12:36	1	MC0563.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-105018/5		03/19/2021 13:06	1	MC0564.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-105018/6		03/19/2021 13:37	1	MC0565.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-105018/8		03/19/2021 14:37	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-105018/7		03/19/2021 15:33	1	MC0566a.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-105018/9		03/19/2021 16:12	1	MC0568.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 16:42	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 17:13	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 17:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 18:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 18:44	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 19:14	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 19:45	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 20:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 20:45	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 21:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 21:46	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		03/19/2021 22:16	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Instrument ID: HP21585 Start Date: 04/07/2021 18:54

Analysis Batch Number: 111994 End Date: 04/08/2021 05:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-111994/1		04/07/2021 18:54	1	MD0400.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-111994/2		04/07/2021 19:43	1	MD0401.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-111583/1-A		04/07/2021 21:04	1	MD0402.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-111583/2-A		04/07/2021 21:34	1	MD0403.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/07/2021 22:05	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/07/2021 22:35	50		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/07/2021 23:05	50		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/07/2021 23:36	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/08/2021 00:06	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/08/2021 00:37	1		DB-5MS 30m 0.25 0.25(mm)
410-34553-1	MW-1-20210331	04/08/2021 01:07	1	MD0410.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-2	MW-10S-20210331	04/08/2021 01:38	1	MD0411.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-3	MW-10D-20210331	04/08/2021 02:08	1	MD0412.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-4	MW-7S-20210331	04/08/2021 02:39	1	MD0413.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-4 MS	MW-7S-20210331 MS	04/08/2021 03:09	1	MD0414.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-4 MSD	MW-7S-20210331 MSD	04/08/2021 03:39	1	MD0415.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-5	MW-7D-20210331	04/08/2021 04:10	1	MD0416.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-6	MW-14S-20210331	04/08/2021 04:40	1	MD0417.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-7	MW-14D-20210331	04/08/2021 05:11	1	MD0418.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-8	MW-8S-20210401	04/08/2021 05:41	1	MD0419.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Instrument ID: HP21585 Start Date: 04/08/2021 06:17

Analysis Batch Number: 112126 End Date: 04/08/2021 18:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-112126/1		04/08/2021 06:17	1	MD0450.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-112126/2		04/08/2021 06:36	1	MD0451.D	DB-5MS 30m 0.25 0.25(mm)
MB 410-111922/1-A		04/08/2021 07:21	1	MD0452.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-111922/2-A		04/08/2021 07:51	1	MD0453.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-111922/3-A		04/08/2021 08:22	1	MD0454.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/08/2021 08:52	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/08/2021 09:23	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/08/2021 09:53	1		DB-5MS 30m 0.25 0.25(mm)
410-34553-9	MW-8D-20210401	04/08/2021 10:54	1	MD0458.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-10	MW-12S-20210401	04/08/2021 11:55	1	MD0459.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/08/2021 12:56	10		DB-5MS 30m 0.25 0.25(mm)
410-34553-11	MW-12D-20210401	04/08/2021 13:26	1	MD0460.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-12	MW-11S-20210401	04/08/2021 13:57	1	MD0461.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-13	MW-11D-20210401	04/08/2021 14:27	1	MD0462.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-14	MW-4S-20210402	04/08/2021 14:58	1	MD0463.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-15	MW-4D-20210402	04/08/2021 15:28	1	MD0464.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-16	MW-3-20210402	04/08/2021 15:59	1	MD0465.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-17	FB-20210402	04/08/2021 16:29	1	MD0466.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-18	MW-13S-20210402	04/08/2021 17:00	1	MD0467.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-19	MW-13D-20210402	04/08/2021 17:30	1	MD0468.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/08/2021 18:01	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-34553-1

SDG No.:

Instrument ID: HP21585 Start Date: 04/08/2021 20:56

Analysis Batch Number: 112543 End Date: 04/09/2021 04:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-112543/1		04/08/2021 20:56	1	MD0500.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-112543/2		04/08/2021 21:39	1	MD0501.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-12 DL	MW-11S-20210401 DL	04/08/2021 22:50	10	MD0502.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-14 DL	MW-4S-20210402 DL	04/08/2021 23:20	5	MD0503.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-16 DL	MW-3-20210402 DL	04/08/2021 23:51	10	MD0504.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/09/2021 00:21	20		DB-5MS 30m 0.25 0.25(mm)
410-34553-18 DL	MW-13S-20210402 DL	04/09/2021 00:51	10	MD0506.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/09/2021 01:22	20		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/09/2021 01:52	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/09/2021 02:23	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ		04/09/2021 02:53	1		DB-5MS 30m 0.25 0.25(mm)
410-34553-20	DUP-20210402	04/09/2021 03:23	1	MD0511.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-20 DL	DUP-20210402 DL	04/09/2021 04:10	10	MD0512.D	DB-5MS 30m 0.25 0.25(mm)
410-34553-20 DL2	DUP-20210402 DL2	04/09/2021 04:51	20	MD0513.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-34553-1

SDG No.:

Batch Number: 111583 Batch Start Date: 04/07/21 10:10 Batch Analyst: Moll, Alison M

Batch Method: 3510C Batch End Date: 04/07/21 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	OP_MINIBNA_SS 00033	OP_SIMLCS_MS 00034
MB 410-111583/1		3510C, 8270D SIM		250 mL	1 mL	>11 SU	<2 SU	1 mL	
LCS 410-111583/2		3510C, 8270D SIM		250 mL	1 mL	>11 SU	<2 SU	1 mL	0.25 mL
410-34553-D-4 MS	MW-7S-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	0.25 mL
410-34553-D-4 MSD	MW-7S-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	0.25 mL
410-34553-D-1	MW-1-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-2	MW-10S-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-3	MW-10D-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-4	MW-7S-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-5	MW-7D-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-6	MW-14S-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-7	MW-14D-20210331	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-8	MW-8S-20210401	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-9	MW-8D-20210401	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-10	MW-12S-20210401	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-11	MW-12D-20210401	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-12	MW-11S-20210401	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-13	MW-11D-20210401	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-14	MW-4S-20210402	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-15	MW-4D-20210402	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-16	MW-3-20210402	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-17	FB-20210402	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-34553-1

SDG No.:

Batch Number: 111583 Batch Start Date: 04/07/21 10:10 Batch Analyst: Moll, Alison M

Batch Method: 3510C Batch End Date: 04/07/21 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	OP_MINIBNA_SS 00033	OP_SIMLCS_MS 00034
410-34553-D-18	MW-13S-20210402	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	
410-34553-D-19	MW-13D-20210402	3510C, 8270D SIM	T	250 mL	1 mL	>11 SU	<2 SU	1 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-111583/1		3510C, 8270D SIM		Tap Water					
LCS 410-111583/2		3510C, 8270D SIM		Tap Water					
410-34553-D-4 MS	MW-7S-20210331	3510C, 8270D SIM	T	Light Yellow Tint					
410-34553-D-4 MSD	MW-7S-20210331	3510C, 8270D SIM	T	Light Yellow Tint					
410-34553-D-1	MW-1-20210331	3510C, 8270D SIM	T	Light Yellow Tint					
410-34553-D-2	MW-10S-20210331	3510C, 8270D SIM	T	Light Yellow Tint					
410-34553-D-3	MW-10D-20210331	3510C, 8270D SIM	T	Clear					
410-34553-D-4	MW-7S-20210331	3510C, 8270D SIM	T	Light Yellow Tint					
410-34553-D-5	MW-7D-20210331	3510C, 8270D SIM	T	Clear					
410-34553-D-6	MW-14S-20210331	3510C, 8270D SIM	T	Clear					
410-34553-D-7	MW-14D-20210331	3510C, 8270D SIM	T	Clear					
410-34553-D-8	MW-8S-20210401	3510C, 8270D SIM	T	Yellow Tint					
410-34553-D-9	MW-8D-20210401	3510C, 8270D SIM	T	Clear					
410-34553-D-10	MW-12S-20210401	3510C, 8270D SIM	T	Clear					
410-34553-D-11	MW-12D-20210401	3510C, 8270D SIM	T	Clear					
410-34553-D-12	MW-11S-20210401	3510C, 8270D SIM	T	Light Yellow Tint					
410-34553-D-13	MW-11D-20210401	3510C, 8270D SIM	T	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.: 410-34553-1

SDG No.:

Batch Number: 111583 Batch Start Date: 04/07/21 10:10 Batch Analyst: Moll, Alison M

Batch Method: 3510C Batch End Date: 04/07/21 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
410-34553-D-14	MW-4S-20210402	3510C, 8270D SIM	T	Yellow Tint					
410-34553-D-15	MW-4D-20210402	3510C, 8270D SIM	T	Clear					
410-34553-D-16	MW-3-20210402	3510C, 8270D SIM	T	Dark Yellow Tint					
410-34553-D-17	FB-20210402	3510C, 8270D SIM	T	Clear					
410-34553-D-18	MW-13S-20210402	3510C, 8270D SIM	T	Dark Yellow Tint					
410-34553-D-19	MW-13D-20210402	3510C, 8270D SIM	T	Clear					

Batch Notes	
Acid Used for pH Adjustment ID	Sulfuric acid: 210369
Balance ID	25996
Base Used to Adjust pH ID	NaOH: 4008L73
Analyst ID - Concentration	AM29992
Concentration 1 Corrected Temperature	90 Degrees C
Equipment ID - Concentration 1	Rapid Vap #2, 4, 9
Analyst ID - Extraction	AM29992
Na2SO4 ID	21091A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	Methylene Chloride: 207000
Prep Solvent Volume Used	90 mL
Analyst ID - Spike Analyst	AM29992
Reagent Water ID	Tap Water

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.: 410-34553-1

SDG No.:

Batch Number: 111922 Batch Start Date: 04/07/21 17:45 Batch Analyst: Thimes, Patrick

Batch Method: 3510C Batch End Date: 04/07/21 21:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	OP_MINIBNA_SS 00033	OP_SIMLCS_MS 00034
MB 410-111922/1		3510C, 8270D SIM		250 mL	1 mL	11 SU	2 SU	1 mL	
LCS 410-111922/2		3510C, 8270D SIM		250 mL	1 mL	11 SU	2 SU	1 mL	0.25 mL
LCSD 410-111922/3		3510C, 8270D SIM		250 mL	1 mL	11 SU	2 SU	1 mL	0.25 mL
410-34553-D-20	DUP-20210402	3510C, 8270D SIM	T	250 mL	1 mL	11 SU	2 SU	1 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 410-111922/1		3510C, 8270D SIM		Tap H2O					
LCS 410-111922/2		3510C, 8270D SIM		Tap H2O					
LCSD 410-111922/3		3510C, 8270D SIM		Tap H2O					
410-34553-D-20	DUP-20210402	3510C, 8270D SIM	T	tan tint					

Batch Notes	
Acid Used for pH Adjustment ID	h2so4 210369
Balance ID	25996
Base Used to Adjust pH ID	naoh 4008L73
Analyst ID - Concentration	32227
Concentration 1 Corrected Temperature	90 Degrees C
Equipment ID - Concentration 1	3,4
Analyst ID - Extraction	32227,16720
Na2SO4 ID	21091A
Pipette/Syringe/Dispenser ID	4
Prep Solvent ID	mecl2 207000
Prep Solvent Volume Used	90
Analyst ID - Spike Analyst	32227

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.: 410-34553-1

SDG No.:

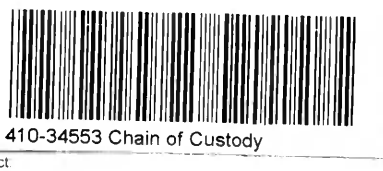
Batch Number: 111922 Batch Start Date: 04/07/21 17:45 Batch Analyst: Thimes, Patrick

Batch Method: 3510C Batch End Date: 04/07/21 21:45

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents



410-34553 Chain of Custody

Chain of Custody Record

eurofins Environment Testing America

Client	Sampler: AFV/PFP	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-16848-5955.1
Client Contact: Mr. James Marolda	Phone: 201-574-4713	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: 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)	8270D_SIM - 16 PAHs	8260C - BTEX, MTBE	Total Number of containers	Special Instructions/Note:
MW-1-20210331	03/31/21	1045	G	GW	N	X	X	4	
MW-10S-20210331		1138	G	GW	N	X	X	4	
MW-10D-20210331		1225	G	GW	N	X	X	4	
MW-7S-20210331 (MS/MSD)		1445	G	GW	Y	X	X	12	MS/MSD
MW-7D-20210331		1538	G	GW	N	X	X	4	
MW-14S-20210331		1630	G	GW	N	X	X	4	
MW-14D-20210331		1743	G	GW	N	X	X	4	
MW-8S-20210401	04/01/21	1120	G	GW	N	X	X	4	
MW-8D-20210401		1159	G	GW	N	X	X	4	
MW-12S-20210401		1331	G	GW	N	X	X	4	
MW-12D-20210401		1409	G	GW	N	X	X	4	

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): BCE equis EDD, NYSDEC Cat B

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Antonio Velazquez	04/02/21 1545	BC	Bill DeLong	4-2-21 15:45	
2	Bill DeLong	4-2-21 19:10	EL			
3					4-2-21 1916	ELLE

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1c-2.2c

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: AFV / PFP	Lab PM: Weyandt, Barbara A	Carrier Tracking No(s):	COC No: 410-16848-5955.2
Client Contact: Mr. James Marolda	Phone: 201-574-4713	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:
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: 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:							
MW-11S-20210401	04/01/21	1458	G	GW	N	N	X	X		
MW-11D-20210401	↓	1538	G	GW	N	N	X	X		
MW-4S-20210402	04/02/21	0944	G	GW	N	N	X	X		
MW-4D-20210402		1026	G	GW	N	N	X	X		
MW-3-20210402		1107	G	GW	N	N	X	X		
FB-20210402		1140	G	GW	N	N	X	X		
MW-13S-20210402		1156	G	GW	N	N	X	X		
MW-13D-20210402	↓		G	GW	N	N	X	X		
DUP-20210402	04/02/21	9999	G	GW	N	N	X	X		
Trip-Blank	TB	TB	TB	TB	N	N		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 Equis EDD, NYSDEC Cat. B

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Antonio Velazquez	04/02/21 1545	BC		4-2-21 15:45	LV
2	Billy DeGray	4-2-21 19:10	LV		Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time 4-2-21 1916	Company ECLG

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.1c-2.2c

ES

Login Sample Receipt Checklist

Client: Brown and Caldwell

Job Number: 410-34553-1

Login Number: 34553
List Number: 1
Creator: Sanchez, Melvin E

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	

Appendix C: Data Validator Qualifications

Experience Summary

Kelly Donahue has more than 18 years of experience as a geologist and geochemist with specialization in environmental assessment, prediction of water quality chemistry and water contamination mitigation strategies. Her experience encompasses soil and water sampling, geotechnical testing, field investigations, drilling oversight, and monitoring well installation. She also is adept at analyzing and interpreting of geological, hydrologic and geochemical data for a variety of technical environmental and hydrogeological projects. Kelly is proficient in PHREEQC, AquaChem, Goldsim and Arc GIS applications for geochemical modeling and data analysis.

Assignment

Chemistry/Data Validation

Education

M.S., Geochemistry, New Mexico Institute of Mining and Technology

B.S., Geology University of Wisconsin at Madison

Registration

Professional Geologist 59596, Arizona

Professional Geologist 1510, Idaho

Professional Geologist PG-3822, Wyoming

Training

MSHA-certified Instructor, Surface Part 46 and 48 Training, 2013

OSHA 10-hour General Contractor

OSHA 40-hr HAZWOPER

First aid and CPR

Experience

18 years

Joined Firm

2014

Relevant Expertise

- *Surface and groundwater aqueous geochemistry*
- *Geochemical modeling*
- *Field investigations*
- *Advanced mineralogy and petrography*
- *Monitor well installation and instrumentation*
- *Data management and GIS applications*
- *Data validation*
- *Project management*

Data Validation and Verification, Nationwide

Data Validator, Multiple On-going Projects. Provides all Levels, Stages, and Tiers of data validation for Level I through III laboratory reports including air, surface water, groundwater, soil, and soil gas samples. [2015 to present]

National Mobile Communications Facility, Wayne, New Jersey

Project Chemist. Conducted data review and usability analysis for a multi-media site characterization and implementation of remedial action. Data review was performed in accordance with the general guidance provided by the National Functional Guidelines. During the validation process, laboratory-qualified and unqualified data are verified against the available supporting documentation. Quality of the data was evaluated for the suitability for the project objectives. [2017 to present]

MERECO Post-Remedial Monitoring, Colonie, New York

Project Chemist. Level 2 Data validation and Data Usability Review was performed on soil water and vapor analytical datasets to evaluate the data on a technical basis. Data review was performed in accordance with the general guidance provided by the National Functional Guidelines. Qualifier codes were added, deleted, or modified based on meeting project objectives. [2017 to present]

North Rasmussen, Rasmussen Valley and Lanes Creek Data Validation Nu-West Agrium, Soda Springs, Idaho

Project Chemist. Level 2 Data Validation was performed on surface and groundwater analytical data from three operating mine properties owned by Nu-West Agrium to evaluate the data for submission to the state regulatory agencies. Data validation was performed in accordance to the state approved, project-specific data validation procedures and included a review of all relative field information to evaluate if surface or groundwater samples exceed the project-specific water quality criteria. [2017 to present]

Confidential Client, East Berlin, Connecticut

Project Data Validator. Working under Connecticut Department of Energy and Environmental Protection: Responsibilities include laboratory data management. This includes Level 2 report validation, database management, and data usability. Also, assisted in full validation of PFAS chemicals. [2019 to present]

Environmental Investigation

Site-Wide Water Balance Modeling, Midas Gold–Stibnite Idaho

Modeler, Geochemist. Lead modeler in developing a site-wide water balance using Goldsim software to support for the environmental impact analysis.

Several simulations were analyzed to determine the water balance for varying precipitation scenarios, changes in mine operations, and for water use optimization. Results of the model simulations were used to develop a project water management plan and multiple permitting applications. [2017-current]

Water Quality Investigation, CEMEX, Lyons, Colorado

Geochemist. Lead an assessment of groundwater quality from a network of monitoring well surrounding the backfilled open pit. Materials used to backfill the pit included cement kiln dust resulting in pit water quality with elevated regulated constituents. The geochemical analysis of the historical water quality data on-site was used to identify trends in the groundwater chemistry and water flow in the upgradient canal network. Results of the analysis indicated water leaking from the canal is adding water to the backfilled pit. [2016 to present]

Tri-State New Horizon Mine Spoils Spring Investigation, Nucla, Colorado

Geochemist. Lead an investigation to determine the source of discharge from a spoils spring with elevated concentrations of regulated constituents. Evaluated the results of a backfill geochemical characterization study to identify chemical markers which could indicate the source of the chemical mass to the spoils spring. Results of the geochemical analysis were used to evaluate the potential source of chemical mass and the projected period of time the chemical loading from the backfill material. Assisted in developing the plan to install a monitoring well network to evaluate the presence and quality of water moving the backfill contributing to the spoils spring. [2017 to present]

Soquel Creek Pilot Well Geochemical Characterization

Geochemist. Lead the development of the geochemical characterization sampling and analysis plan to collect data during the installation of a pilot injection well. Provide on-site well oversite for the collection of geochemical characterization samples and data from the pilot test well. Responsibilities included development of planning documents, the collection and analysis of samples, laboratory analysis and testing, and data evaluation and reporting of results. [2018 to present]

Groundwater Contamination Investigation, Arco, Yerington, Nevada

Geochemist. Conducted groundwater geochemical data analysis at and EPA Superfund Site to determine the potential groundwater chemistry signatures associated with natural and mining related impacts. Investigation included evaluation of water quality data signatures, stable and radiogenic isotopes, soil chemical characteristics, and hydrologic data to develop a conceptualization of the geochemical system. Evaluated chemical speciation of regulated groundwater constituents using geochemical modeling to assess potential mobility of contaminates in the aquifer and potential responsible parties' impact to the groundwater. [2014-2017]

Waste Rock Geochemical Characterization, Freeport-McMoran–Bagdad, Arizona

Project Manager, Geochemist. Provided technical support for the project designed to determine the acid generation potential of waste rock materials at an open pit copper mine in Arizona. Data from analytical static tests was combined with mineralogy descriptions of the rock units to determine which units required additional kinetic testing to provide chemical release rates for geochemical modeling. [2014 - 2016]

Rasmussen Valley Mine Project Geochemical Testing Program Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Provided the client with a comprehensive analysis of the geochemical characterization program conducted by a third-party contractor for an Environmental Impact Assessment to determine the potential effects of the testing design on the data to be used for the water quality impact assessment. Determined the sampling methods used by the third party contractor resulted in unrepresentative and overly conservative approximation of water quality predictions. Presented the finding to the client and regulatory agencies to initiate a conversation on the approach used for geochemical characterization methods and the implications on the subsequent water quality impact analysis. [2014 - 2015]

Rasmussen Valley Mine Project Batch Adsorption Program Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Conducted an analytical review of the batch adsorption methods and data analysis conducted by a third party contractor for an Environmental Impact Assessment. Results of the batch adsorption analysis

identified potential flaws in the analytical methods and data analysis used by the third party contractor. Provided the client with information to discuss an alternative method for batch adsorption testing to overcome the analytical flaws with the regulatory agencies. Reanalysis of the batch adsorption data provided the client with proof of adsorption to allow for adsorption during groundwater modeling. [2014 - 2015]

Rasmussen Valley Mine Project Alternative Source Term Development Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Provided the client with a scientifically defensible analysis for the development of an alternative source term using data previously collected as part of a baseline geochemical analysis for an Environmental Impact Assessment. Utilizing previously collected data allowed for the project to continue forward without delays that would have been the result of additional geochemical data collection. [2016]

Husky 1 North Dry Ridge Mine Project Geochemical Testing Plan Analysis, Nu-West Agrium, Soda Springs, Idaho

Geochemist. Provided the client with a comprehensive review of the geochemical characterization plan for an Environmental Impact Assessment to assess the potential effects of the testing plan design on the data to be used for the water quality impact assessment. Provided client with information on the sample compositing method to present to the regulatory agencies in order to obtain results representative of the future waste rock piles. [2014 - 2015]

Monitoring Well Investigation, North Rasmussen Ridge Mine, Caribou County, Idaho

Geochemist. Analysis of surface and groundwater data to identify potential mining related impacts to a groundwater monitoring well. Data assessment included evaluating the chemical signatures of potential source waters and evaluating the feasibility of several scenarios to identify the most likely source of contamination to the alluvial monitoring well. Presented the results of the analysis to the Idaho regulatory agencies during a discussion on methods to remediate the observed elevated regulated constituents. [2015 - 2018]

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Appendix D: Data Usability Summary Report

DATA USABILITY SUMMARY REPORT
PATCHOGUE FORMER MGP SITE

Client: Brown and Caldwell, Albany, New York
SDGs: 410-34553-1
Laboratory: Eurofins Lancaster Laboratories, Lancaster, Pennsylvania
Site: Patchogue, NY
Date: April 14, 2021

Client Sample ID	Laboratory Sample ID	Matrix
MW-1-20210331	410-34553-1	Groundwater
MW-10S-20210331	410-34553-2	Groundwater
MW-10D-20210331	410-34553-3	Groundwater
MW-7S-20210331	410-34553-4	Groundwater
MW-7D-20210331	410-34553-5	Groundwater
MW-14S-20210331	410-34553-6	Groundwater
MW-14D-20210331	410-34553-7	Groundwater
MW-8S-20210401	410-34553-8	Groundwater
MW-8D-20210401	410-34553-9	Groundwater
MW-12S-20210401	410-34553-10	Groundwater
MW-12D-20210401	410-34553-11	Groundwater
MW-11S-20210401	410-34553-12	Groundwater
MW-11D-20210401	410-34553-13	Groundwater
MW-4S-20210402	410-34553-14	Groundwater
MW-4D-20210402	410-34553-15	Groundwater
MW-3-20210402	410-34553-16	Groundwater
FB-20210402	410-34553-17	Water
MW-13S-20210402	410-34553-18	Groundwater
MW-13D-20210402	410-34553-19	Groundwater
DUP-20210402	410-34553-20	Groundwater
Trip-Blank	410-34553-21	Water

Data validation was performed on the analytical data for twenty-one (21) samples collected on March 31st through April 2nd, 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. No analytical or quality issues were noted.

Holding Times

- Holding times were achieved for all analyses.

Field Duplicate Accuracy

- One duplicate was collected for this dataset. DUP-20210402 is the sample duplicate for MW-3-20210402. All relative percent differences were within control limits with the exception of naphthalene. Parent and duplicate concentrations for naphthalene are qualified as estimated, J, reason code 8.

Internal Standard Areas

- All samples exhibited acceptable internal standard values.

Surrogates

- All samples exhibited acceptable surrogate recovery values.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries.

Matric Spike and Matrix Spike Duplicate (MS/MSD) Samples

- The MS/MSD samples were analyzed on MW-7S-20210331, and percent recoveries are within acceptable limits.

Method and Field Blanks

- The method, trip and field blanks were free of contamination.

Initial Calibration

- All recoveries and/or correlation coefficient criteria were met.

Continuing Calibration

- All Percent Drift criteria were met.

Compound Quantitation

- All sample detections are appropriately qualified as estimated, J, by the laboratory.

Reporting Limits

- MW-13S-20210402 was diluted due to foaming at the time of purging during the original sample analysis. 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: April 14, 2021

Kelly Donahue, P.G.
Senior Geochemist
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 sample reporting 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.

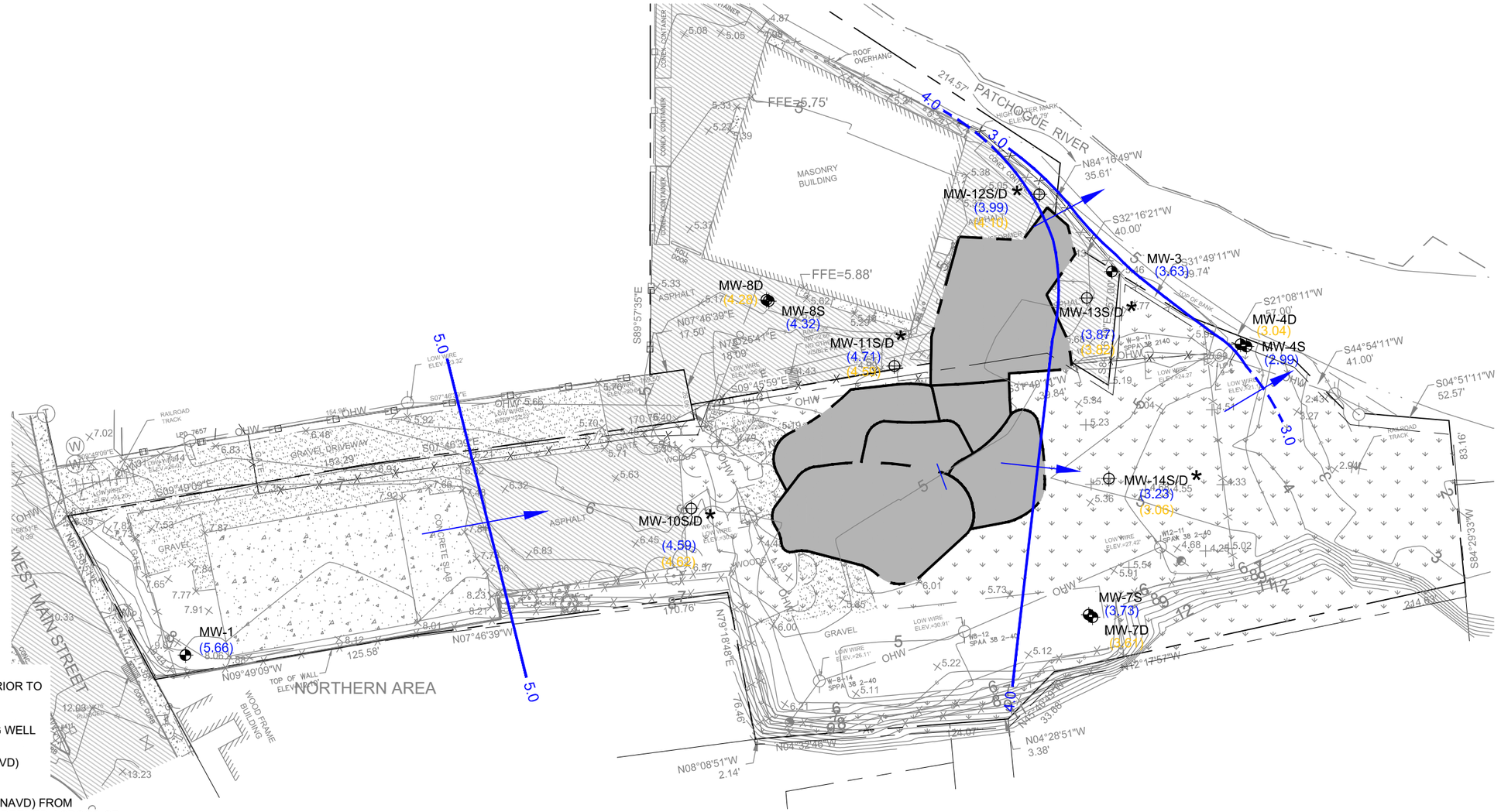
ft^3/s - cubic feet per second

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
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- (3.87) GROUNDWATER ELEVATION (FT., NAVD) FROM SHALLOW MONITORING WELL (SCREENED ACROSS OR CLOSE TO WATER TABLE)
- (3.06) GROUNDWATER ELEVATION (FT., NAVD) FROM DEEP MONITORING WELL (SCREENED BELOW WATER TABLE). VALUE NOT USED FOR CONTOURING.
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- * HORIZONTAL LOCATION AND POSTED GROUNDWATER ELEVATION DATA IS APPROXIMATE, AS SURVEYING OF WELLS WILL BE PERFORMED FOLLOWING COMPLETION OF FINAL SITE RESTORATION ACTIVITIES.

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: May 6, 2020

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

WATER TABLE ELEVATION CONTOUR MAP
MARCH 17, 2020

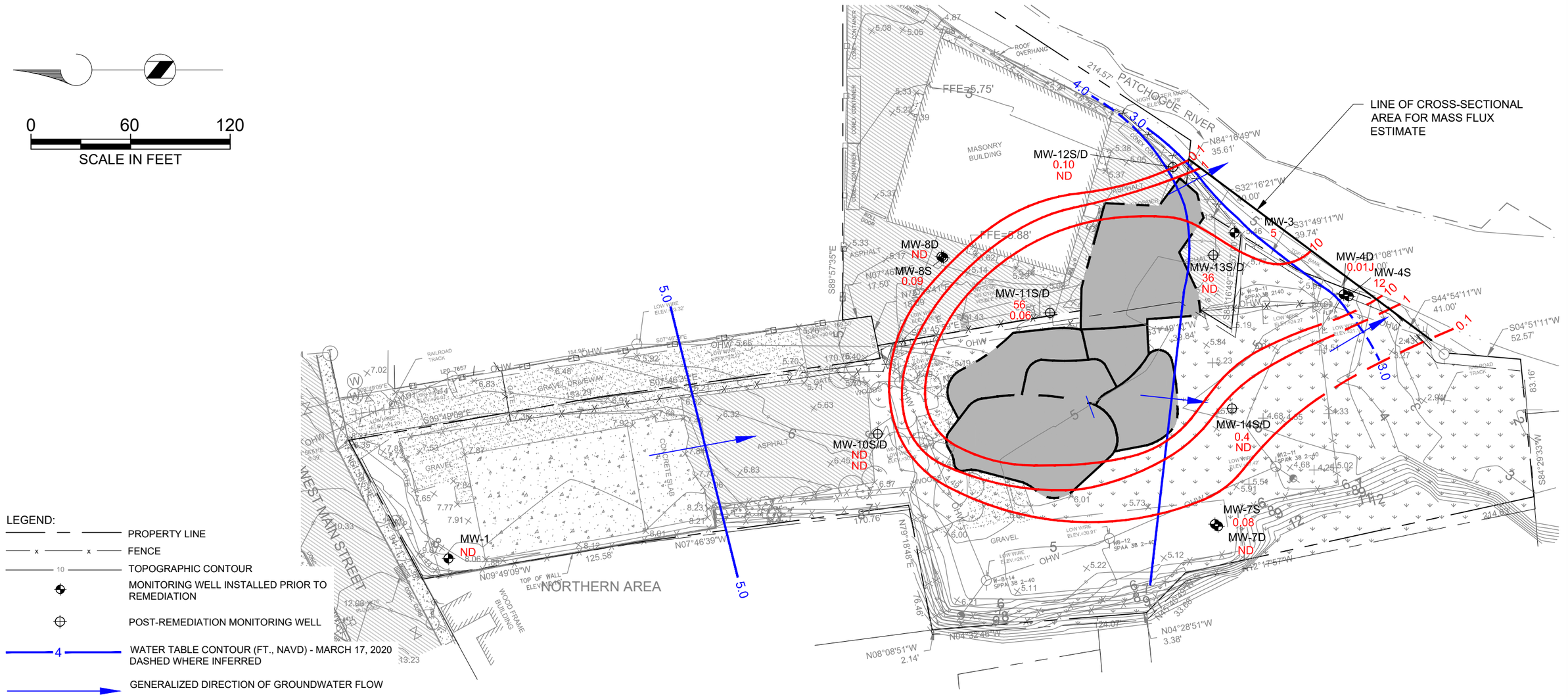
FIGURE

F-1

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_2_acenaphthene_March2020 Plot Date: May 29, 2020 10:20 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET


PATCHOGUE RIVER
LINE OF CROSS-SECTIONAL AREA FOR MASS FLUX ESTIMATE
NORTHERN AREA
WEST MAIN STREET
MW-1 ND
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
MW-3 5
MW-4D 0.01J
MW-4S 12
MW-7S 0.08
MW-7D ND
FFE=5.75'
FFE=6.88'
MASONRY BUILDING
WOOD FRAME BUILDING
214.57'
N84°16'49"W 35.61'
S32°16'21"W 40.00'
S31°49'11"W 39.74'
S81°08'11"W 40.00'
S44°54'11"W 41.00'
S04°51'11"W 52.57'
S84°29'33"W 83.16'
S89°57'35"E 154.96'
S07°46'39"E 170.76'
N07°46'39"W 125.58'
N09°49'09"W
N79°18'48"E 76.46'
N12°17'57"W 214.57'
N04°28'51"W 3.38'
N08°08'51"W 2.14'
N04°52'46"W 33.85'
S07°46'39"E 153.29'
S09°49'09"E 154.96'
N07°46'39"W 170.76'
S79°18'48"E 76.46'
N12°17'57"W 214.57'
S07°46'39"E 17.50'
N07°46'39"W 39.84'
S31°49'11"W 39.84'
S81°16'49"E 39.84'
N79°18'48"E 76.46'
N04°52'46"W 33.85'
N04°28'51"W 3.38'
N08°08'51"W 2.14'
S89°57'35"E 154.96'
S07°46'39"E 170.76'
N07°46'39"W 125.58'
N09°49'09"W
S09°49'09"E 154.96'
S07°46'39"E 153.29'
N07°46'39"W 170.76'
S79°18'48"E 76.46'
N12°17'57"W 214.57'
N04°28'51"W 3.38'
N08°08'51"W 2.14'
N04°52'46"W 33.85'
S07°46'39"E 17.50'
N07°46'39"W 39.84'
S31°49'11"W 39.84'
S81°16'49"E 39.84

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-E_3_fluorene_March2020 Plot Date: May 29, 2020 10:23 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL INSTALLED PRIOR TO REMEDIATION
- POST-REMEDIATION MONITORING WELL
- WATER TABLE CONTOUR (FT., NAVD) - MARCH 17, 2020 DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L)
- FLUORENE CONCENTRATION IN GROUNDWATER (µg/L) - MARCH 2020
- J ESTIMATED CONCENTRATION
- ND NOT DETECTED

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

MW-1 ND

MW-8D ND
MW-8S ND

MW-12S/D 0.20 ND

MW-10S/D ND ND

MW-11S/D 7.0 0.05J

MW-13S/D 7.0 ND

MW-3 0.46 0.5

MW-4D 0.05J
MW-4S 2.0

MW-14S/D ND ND

MW-7S 0.02J
MW-7D ND

PATCHOGUE RIVER

WEST MAIN STREET

NORTHERN AREA

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

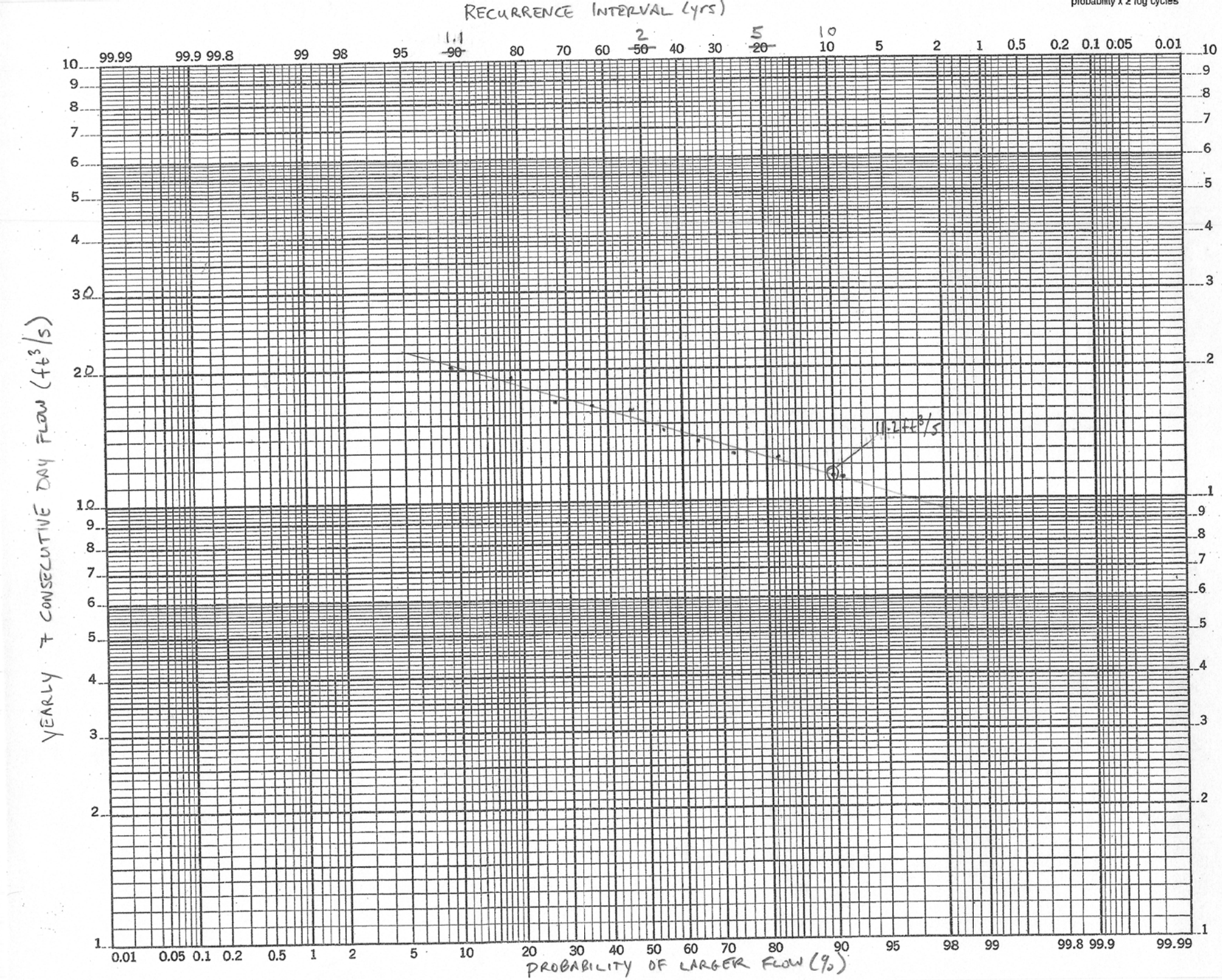
LEGEND:

- 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


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT F-2
MASS FLUX CALCULATIONS - ACENAPHTHENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Acenaphthene (March 2020) **Figure No.** See Figure F-2

$mf = kiA * C$

Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=$µg/cm^3$

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1	0.32	36	18
C=	0.316227766	µg/L =	0.000316228	$µg/cm^3$	Geometric mean concentration between selected contours	10	3.16	90	18
L =	36	ft =	1097.28	cm	Length of segment between selected contours [C]	12	10.95	45	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.5E-02	µg/s	4.8E-01	g/yr	0.00105 lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	3.16	µg/L =	0.003162278	$µg/cm^3$	Geometric mean concentration between selected contours
L =	90	ft =	2743.2	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.8E-01	µg/s	1.2E+01	g/yr	0.0262 lbs/yr

10-12 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	10.95	µg/L =	0.010954451	$µg/cm^3$	Geometric mean concentration between selected contours
L =	45	ft =	1371.6	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	6.5E-01	µg/s	2.1E+01	g/yr	0.045 lbs/yr
mf_{sgw} =	1	µg/s	33	g/yr	0.1 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0033 µg/L

ATTACHMENT F-3
MASS FLUX CALCULATIONS - FLUORENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Fluorene (March 2020) **Figure No.** See Figure F-3

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	**Contour Interval**	**Geomean**
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	0.1	
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32
L =	90	ft =	2743.2	cm	Length of segment between selected contours [C]	2	1.41
b =	18	ft =	548.64	cm	Saturated thickness		

Segment Length	**Thickness**
90	18
65	18

mf =	3.8E-02	µg/s	1.2E+00	g/yr	0.00262 lbs/yr

1-2 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	1.41	µg/L =	0.001414214	µg/cm^3	Geometric mean concentration between selected contours
L =	65	ft =	1981.2	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness

mf =	1.2E-01	µg/s	3.8E+00	g/yr	0.0085 lbs/yr
mf_{sgw} =	0	µg/s	5	g/yr	0.0 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00050 µg/L

ATTACHMENT F-4
MASS FLUX CALCULATIONS - PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Pyrene (March 2020) **Figure No.** See Figure F-4

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

								Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells			0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours			1	0.32	38	18
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours			5	2.24	130	18
L =	38	ft =	1158.24	cm	Length of segment between selected contours [C]						
b =	18	ft =	548.64	cm	Saturated thickness						
mf =	1.6E-02	µg/s	5.0E-01	g/yr	0.00111	lbs/yr					

1-5 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours		
C=	2.24	µg/L =	0.002236068	µg/cm^3	Geometric mean concentration between selected contours		
L =	130	ft =	3962.4	cm	Length of segment between selected contours [C]		
b =	18	ft =	548.64	cm	Saturated thickness		
mf =	3.9E-01	µg/s	1.2E+01	g/yr	0.0268	lbs/yr	
mf_{sgw} =	0	µg/s	13	g/yr	0.0	lbs/yr	

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00127 µg/L

Appendix G

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Second Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the second groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure G-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the water quality in the river. However, the concentration in groundwater of four potentially mobile constituents (acenaphthene, fluorene, naphthalene and pyrene) were above their respective applicable surface water quality criteria. Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, a mass flux analysis was conducted to confirm this. The concentrations of acenaphthene, fluorene and pyrene in the June 2020 samples were similar (within the same order of magnitude) to those in the March 2020 samples. Since the estimated surface water concentrations of these three constituents based on the mass flux analysis using the March 2020 data (see Appendix F) were three orders of magnitude below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary, and the analysis discussed herein was conducted for naphthalene only.

An analysis was conducted to assess the potential for discharge of naphthalene in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of naphthalene, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf=\Sigma\ C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i=Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (figure cm^2)

where: $A_i=(L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the June 2020 sampling event (see Figure G-2). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R=mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table G-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment G-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentration of naphthalene was calculated using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for naphthalene that are applicable to the various classes of fresh water.

Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Naphthalene	A, A-S, AA, AA-S, B, C	--	13	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	110	Fish survival
	A, A-S, AA, AA-S	10	--	Aesthetics

Attachment G-2 contains the calculations and results for this constituent. The estimated concentration of naphthalene in the Patchogue River resulting from site groundwater impacts is 0.0197 µg/L. This conservatively-estimated (i.e., biased high) concentration is three orders of magnitude below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentration is below the analytical laboratory detection limits for this constituent. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE G-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures

Path: P:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(June-2020) Plot Date: September 16, 2020 1:43 PM Cadd User: Robert Near

0 60 120

SCALE IN FEET

LEGEND:

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

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: July 29, 2020

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

WATER TABLE ELEVATION CONTOUR MAP
JUNE 29, 2020

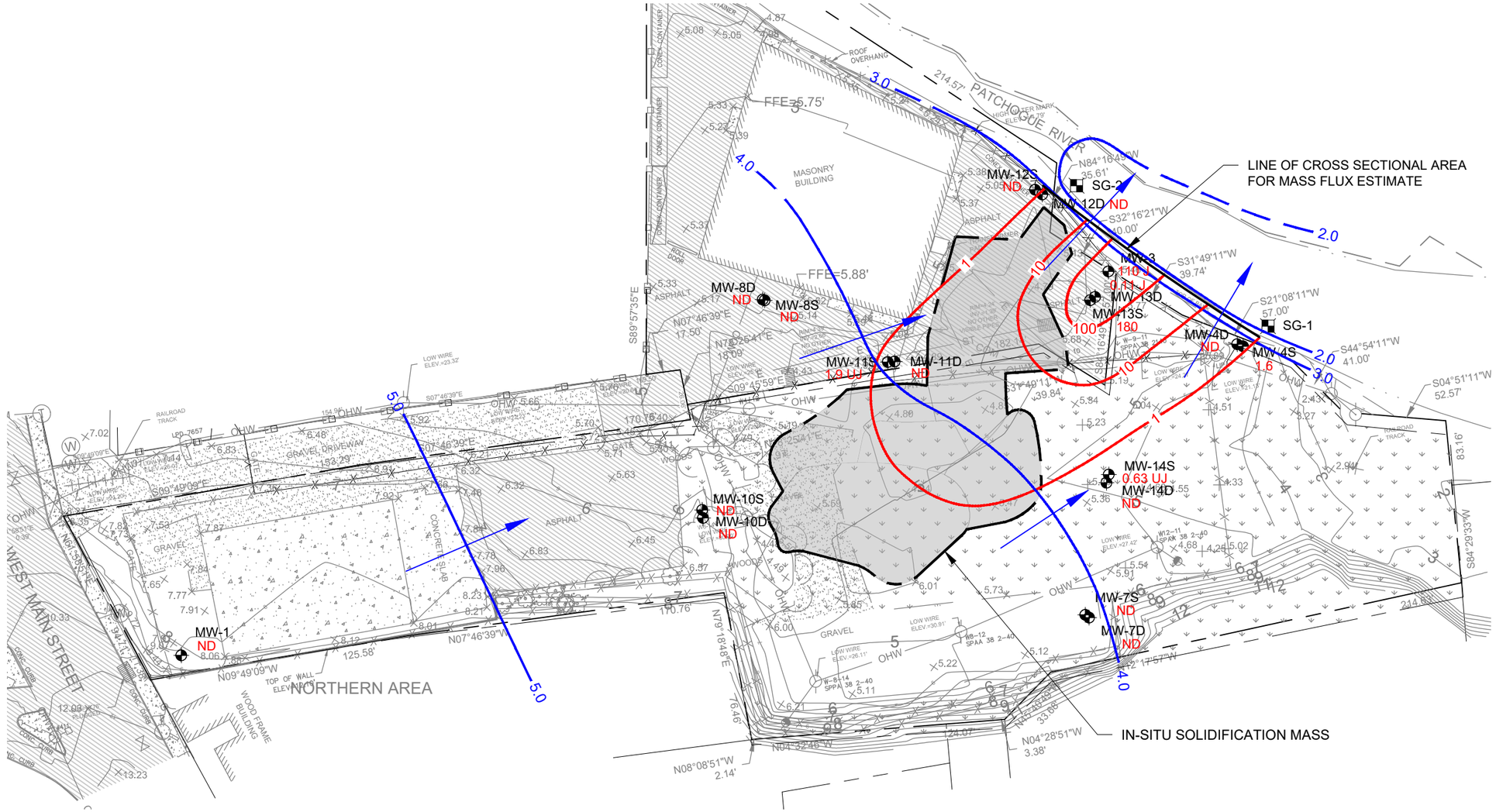
FIGURE

G-1

Path: P:\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-2_acenaphthene(June2020) Plot Date: September 16, 2020 1:43 PM Cadd User: Robert Near

0 60 120

SCALE IN FEET



LEGEND:

- PROPERTY LINE
- FENCE
- TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW
- 10 — ISOCONCENTRATION CONTOUR. LOGARITHMIC CONTOUR INTERVAL (µg/L)
- 1.6 — NAPHTHALENE CONCENTRATION IN GROUNDWATER (µg/L) - JUNE 2020
- J — ESTIMATED CONCENTRATION
- ND — NOT DETECTED

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: September 11, 2020

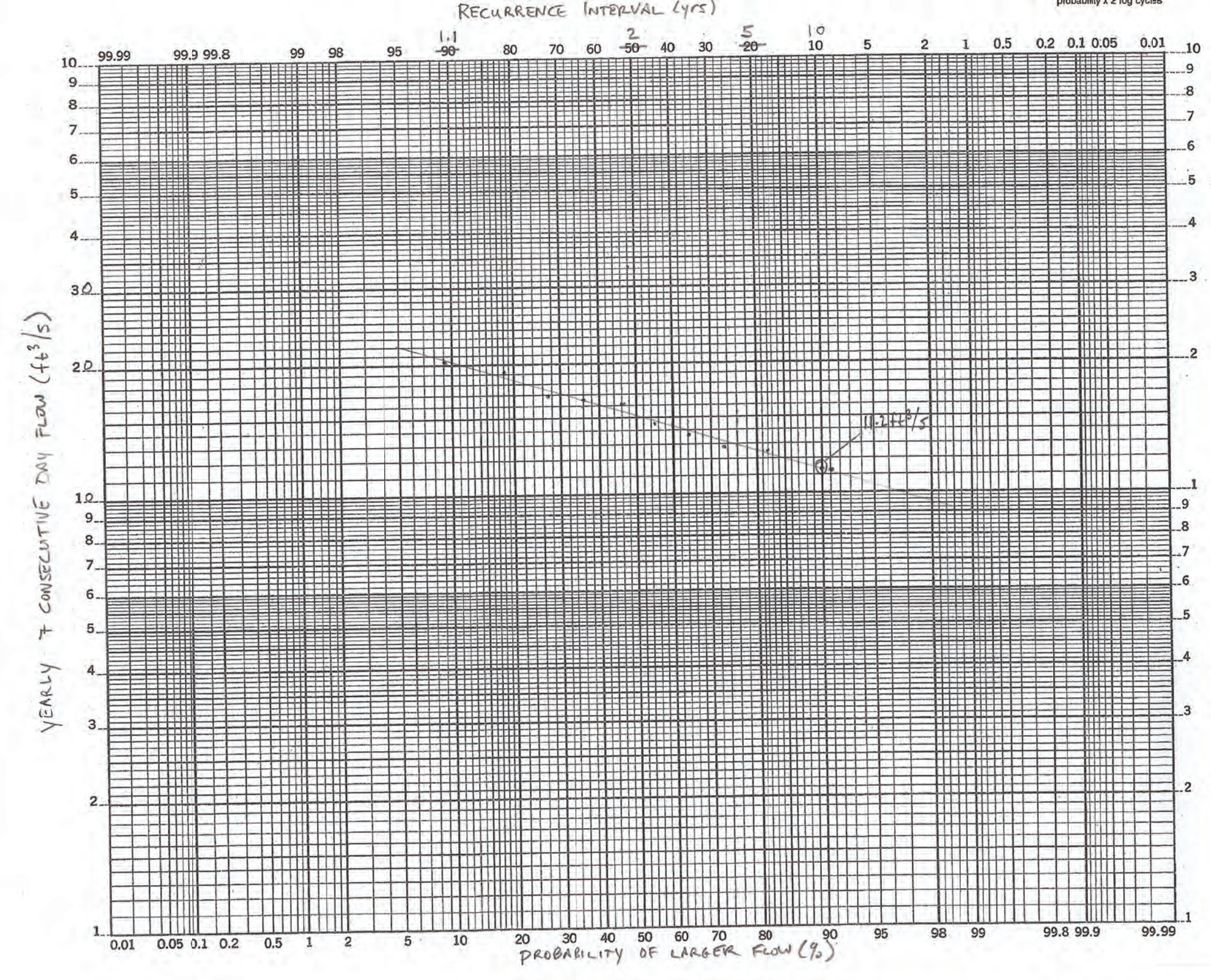
NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

NAPHTHALENE IN GROUNDWATER JUNE 2020

FIGURE

G-2

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT G-2
MASS FLUX CALCULATIONS - NAPHTHALENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Naphthalene (June 2020) **Figure No.** See Figure G-2

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

1-10 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells				
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	1			
C=	3.16	µg/L =	0.00316	µg/cm^3	Geometric mean concentration between selected contours	10	3.16	66	18
L =	66	ft =	2011.68	cm	Length of segment between selected contours [C]	100	31.62	32	18
b =	18	ft =	548.64	cm	Saturated thickness	110	104.88	30	18
mf =	3.0E-01	µg/s	9.4E+00	g/yr	0.02070 lbs/yr				

10-100 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	31.62	µg/L =	0.0316	µg/cm^3	Geometric mean concentration between selected contours
L =	32	ft =	975.36	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	1.4E+00	µg/s	4.6E+01	g/yr	0.1003 lbs/yr

100-110 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.014	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	104.88	µg/L =	0.105	µg/cm^3	Geometric mean concentration between selected contours
L =	30	ft =	914.4	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	4.5E+00	µg/s	1.4E+02	g/yr	0.312 lbs/yr
mf_{sgw} =	6	µg/s	197	g/yr	0.4 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0197 µg/L

Appendix E

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Third Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the first groundwater monitoring event following implementation of the site remedy. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure E-1 for a depiction of shallow groundwater flow). The concentrations of most of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration of six constituents (acenaphthene, benzo(a)anthracene, fluorene, naphthalene, phenanthrene and pyrene) were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S). Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this. The concentrations of acenaphthene and naphthalene in the September 2020 samples were similar (within the same order of magnitude) to those in the March and June 2020 samples. Since the estimated surface water concentrations of these two constituents based on the mass flux analysis using the March and June 2020 data were three orders of magnitude below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary. However, due to increased concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene in MW-3, an additional analysis was conducted for these constituents.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: q_i=Ki, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: A_i=(L)(b), with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the September 2020 sampling event (see Figures E-2 through E-5). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table F-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment F-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of benzo(a)anthracene, fluorene, phenanthrene and pyrene were developed using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for benzo(a)anthracene, fluorene, phenanthrene and pyrene that are applicable to Class C Fresh Water (no standards have been developed for these compounds).

Class C Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Benzo(a)anthracene	A, A-S, AA, AA-S, B, C	--	0.03	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	0.23	Fish survival
Fluorene	A, A-S, AA, AA-S, B, C	--	0.54	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	4.8	Fish survival
Phenanthrene	A, A-S, AA, AA-S, B, C	--	5.0	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	45	Fish survival
Pyrene	A, A-S, AA, AA-S, B, C	--	4.6	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	42	Fish survival

Attachments E-2 through E-5 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Benzo(a)anthracene = 0.0008 µg/L
- Fluorene = 0.003 µg/L
- Phenanthrene = 0.001 µg/L
- Pyrene = 0.007 µg/L

These conservatively-estimated (i.e., biased high) concentrations are below the surface water standards and guidance values listed above, including the lowest standard applicable to Class C surface waters. Also, the estimated concentrations are below the analytical laboratory detection limits for these constituents. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

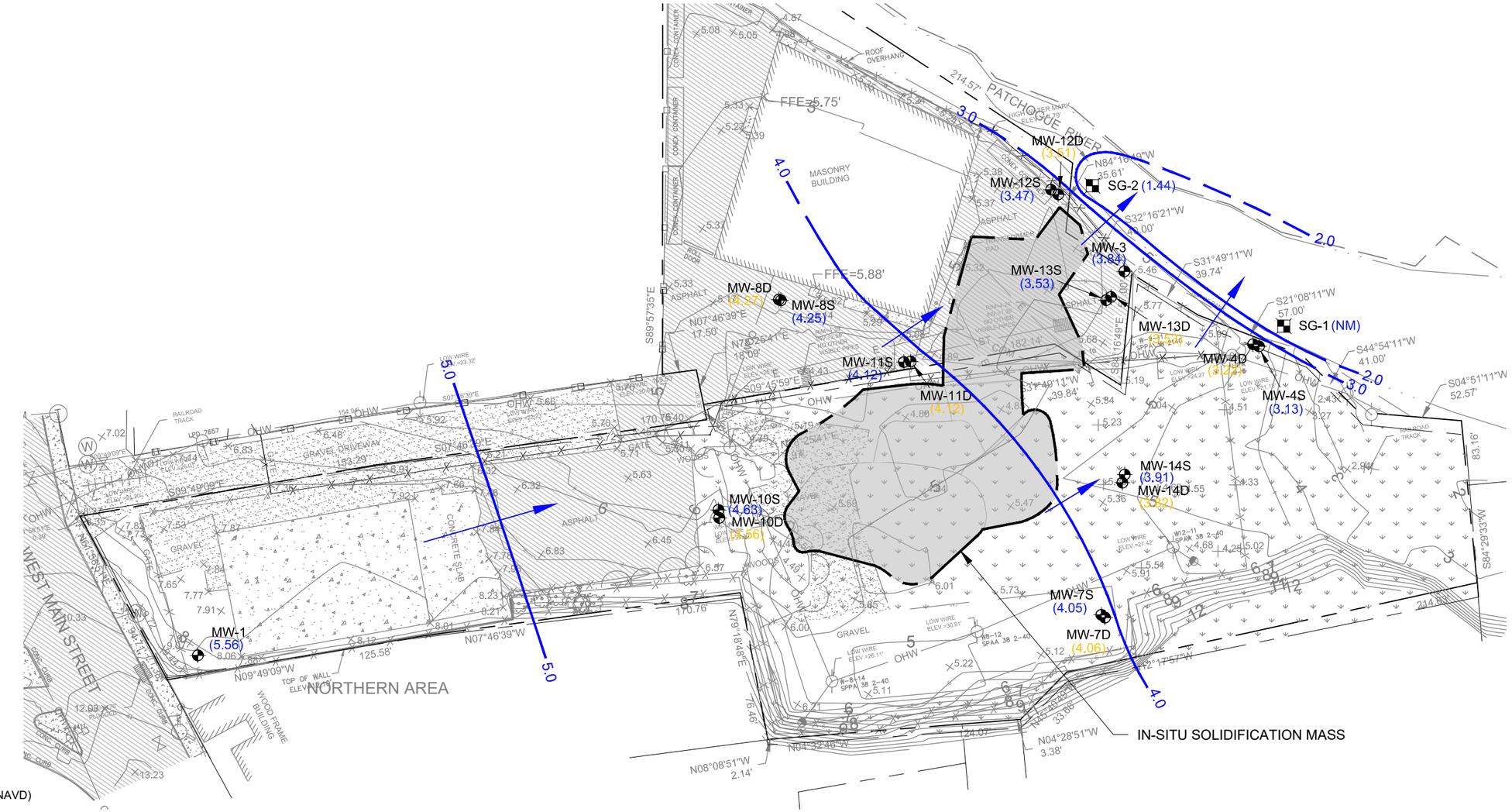
ft^3/s - cubic feet per second

Figures

Path: \\bcusrfp01\Projects\DRAFTING\NATIONAL_GRID\Patchogue\Quarterly-GW-Contour-Map File Name: FIG-1-(Sept-2020) Plot Date: December 4, 2020 11:07 AM Cadd User: Alan Santiago

0 60 120

SCALE IN FEET



LEGEND:

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

NOTES:

1. BASE MAP INFORMATION OBTAINED FROM TETRA TECH EC, INC. DRAWING ENTITLED "CONCEPTUAL SITE MODEL", DATED DECEMBER 17, 2008.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: July 29, 2020

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

WATER TABLE ELEVATION CONTOUR MAP SEPTEMBER, 2020

FIGURE

E-1

Path: \\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

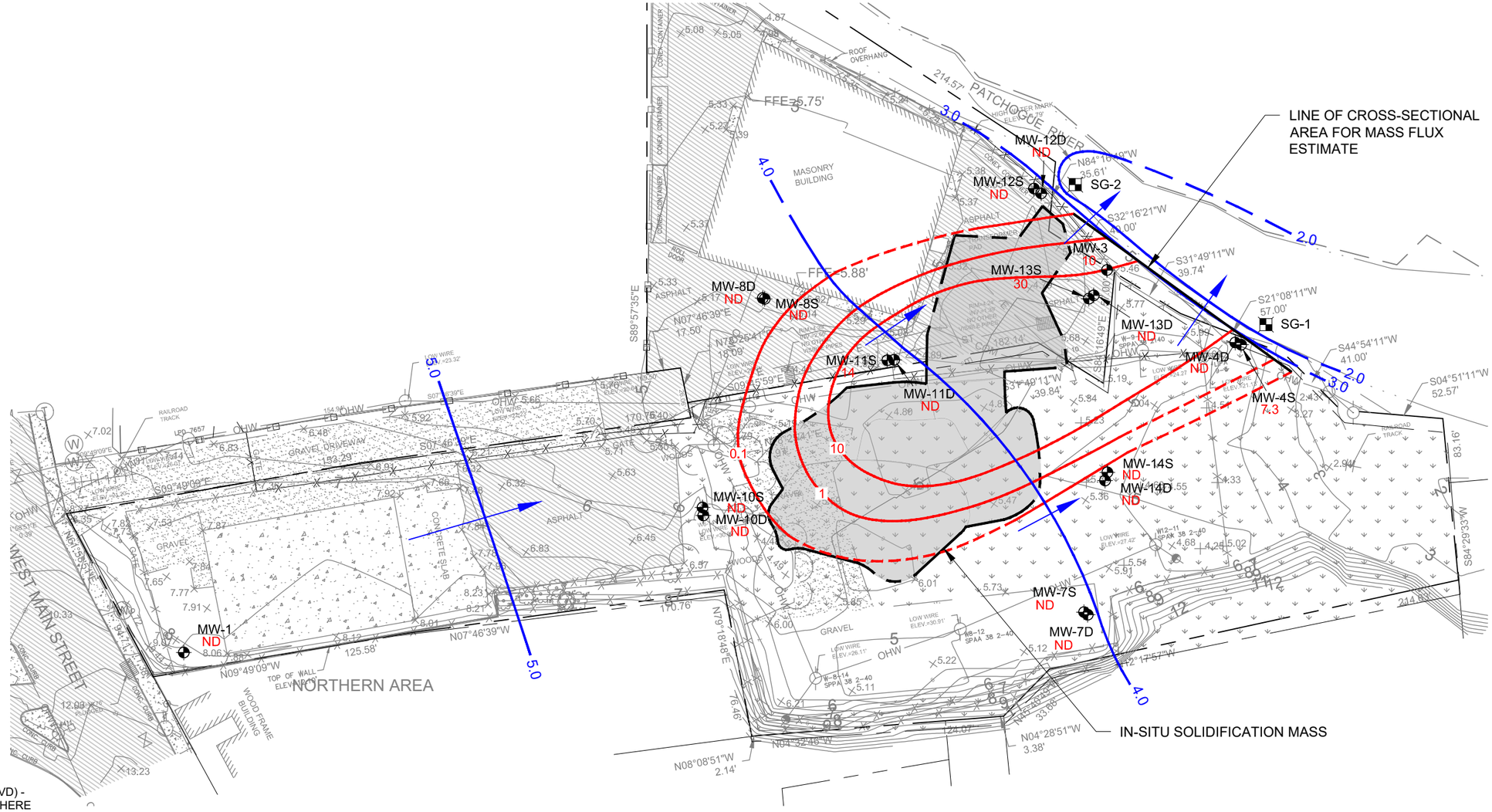
NORTHERN AREA

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.

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

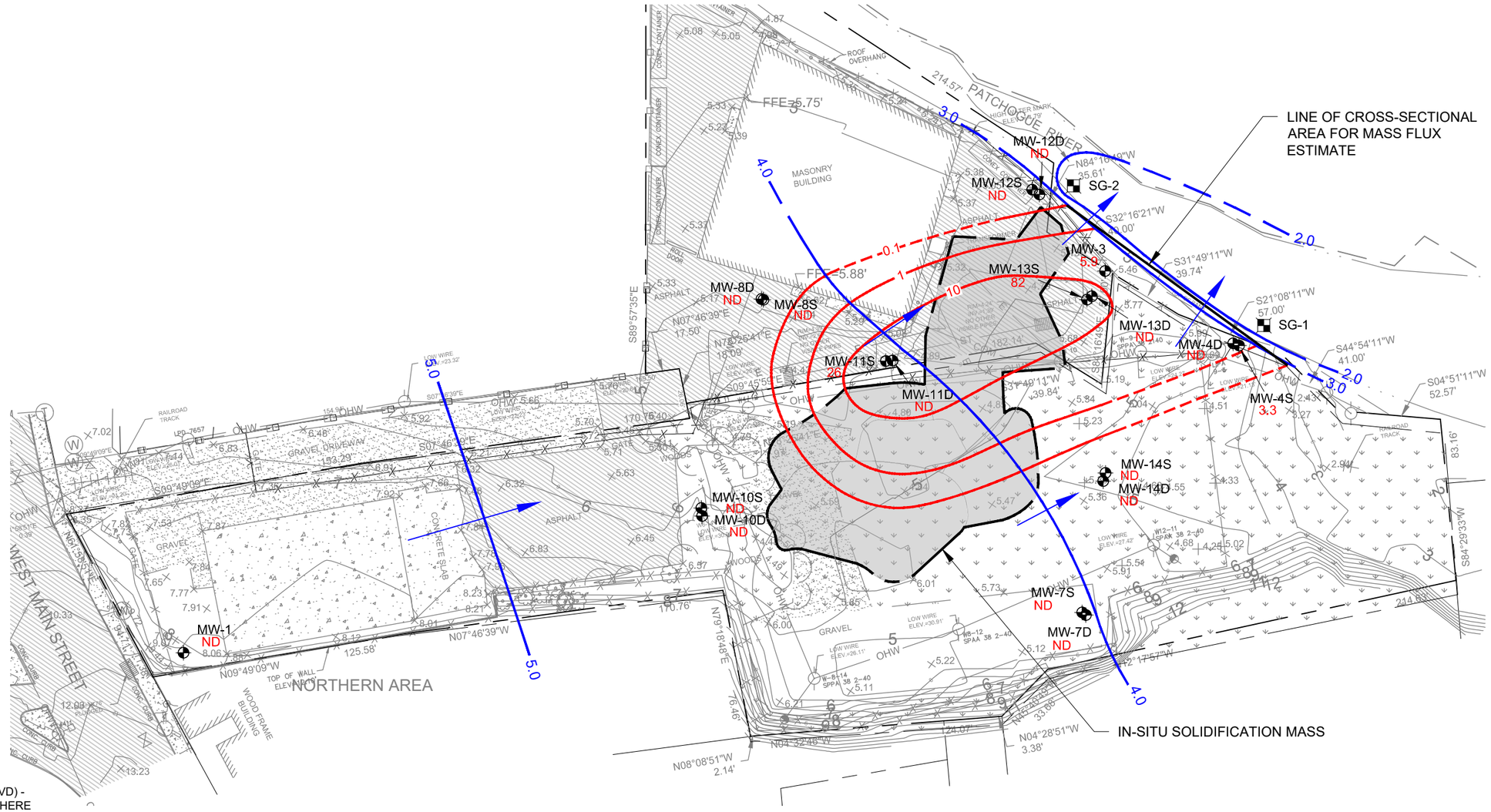
FIGURE

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

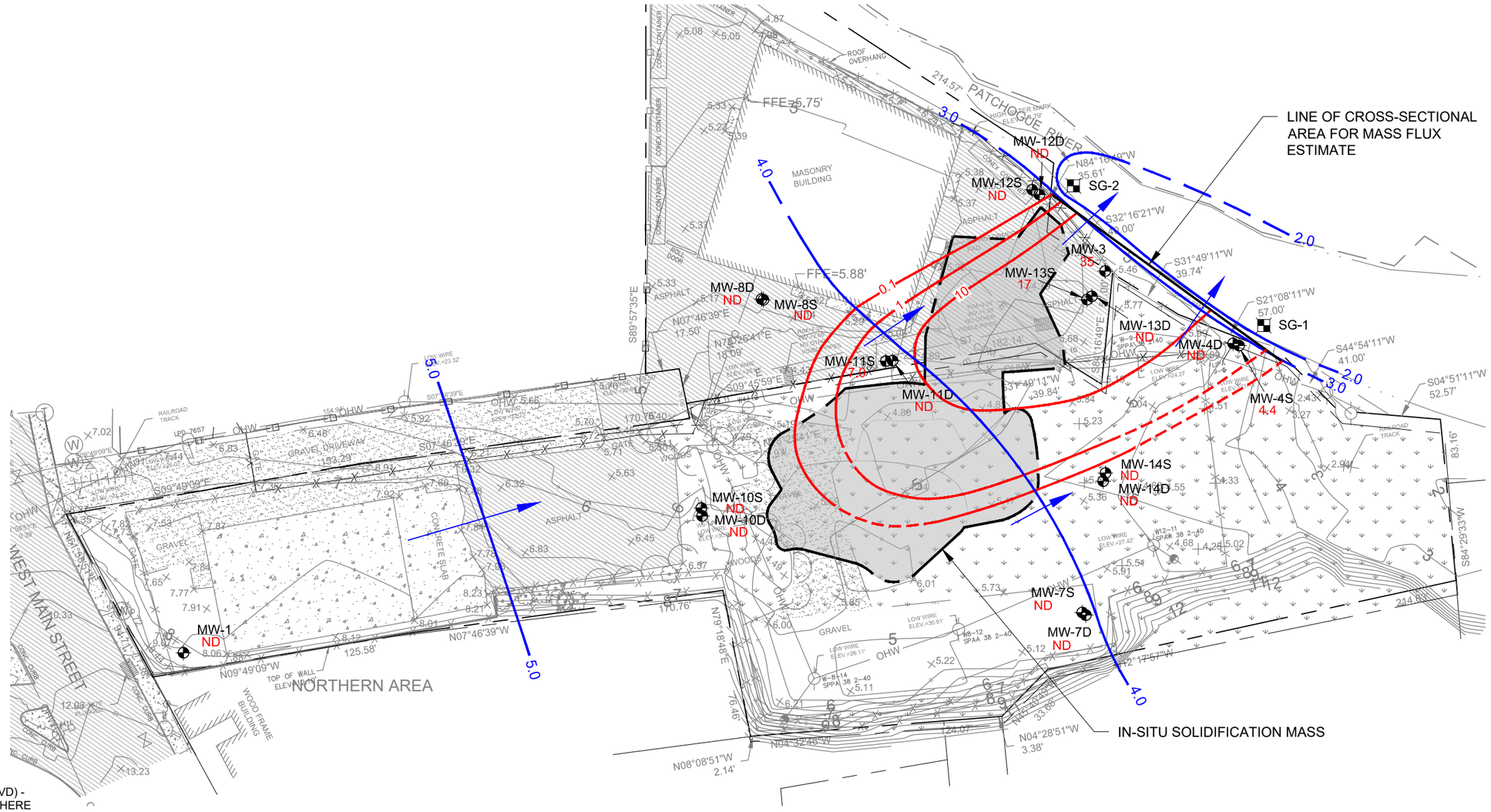
FIGURE

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.

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: November 17, 2020

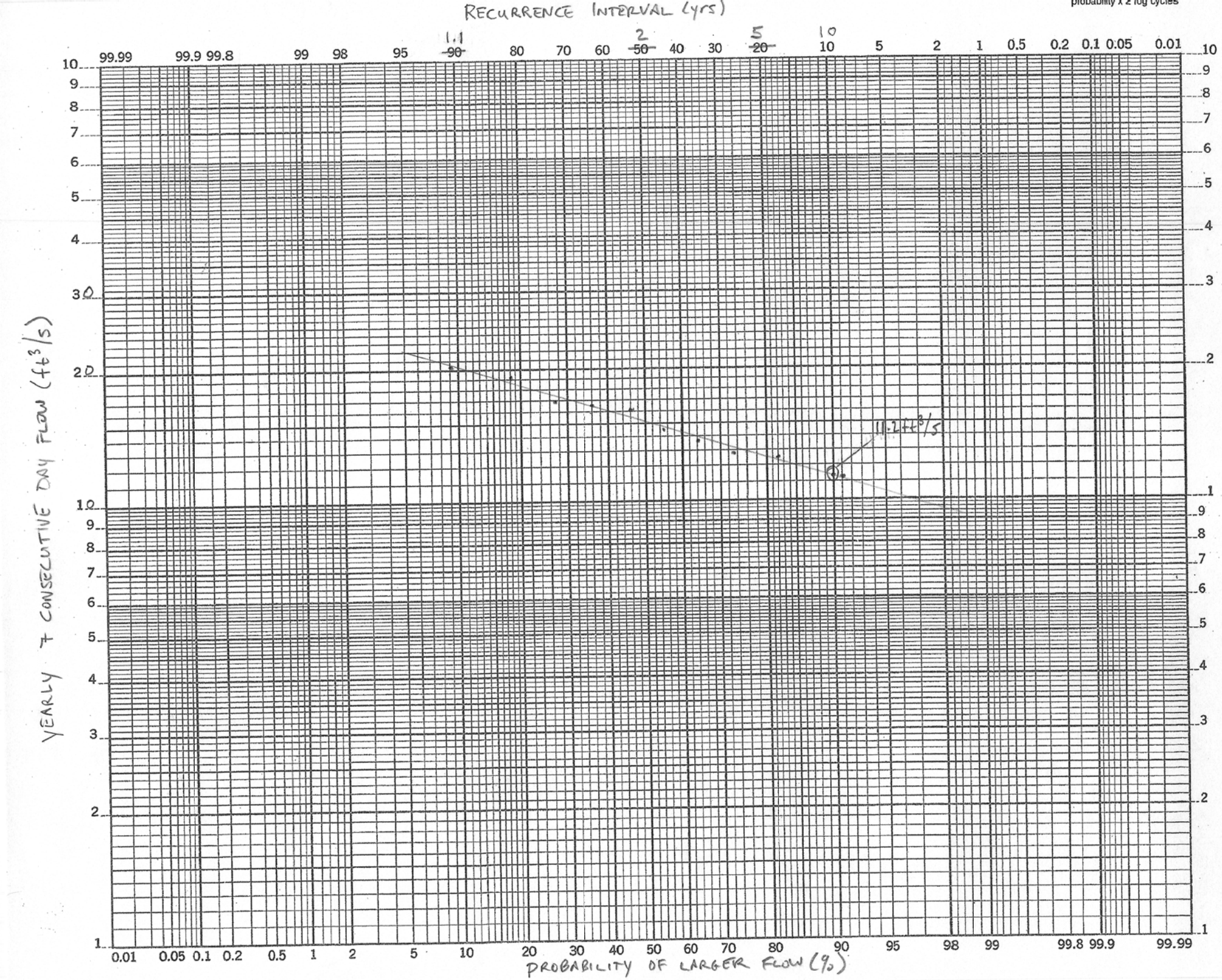
NATIONAL GRID
PATCHOGUE FORMER MGP SITE
VILLAGE OF PATCHOGUE, NEW YORK

PYRENE IN GROUNDWATER (µg/L) SEPTEMBER 2020

FIGURE

E-5

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT E-2
MASS FLUX CALCULATIONS - BENZO(A)ANTHRACENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Benzon(a)anthracene (September 2020) **Figure No.** See Figure E-2

mf = kiA * C
Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\ (L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours				
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours	1	0.32	34	18
L =	34	ft =	1036.32	cm	Length of segment between selected contours [C]	4.8	2.19	80	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.4E-02	µg/s	4.5E-01	g/yr	0.00099 lbs/yr				

1-4.8 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2.19	µg/L =	0.00219089	µg/cm^3	Geometric mean concentration between selected contours
L =	80	ft =	2438.4	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	2.3E-01	µg/s	7.3E+00	g/yr	0.0161 lbs/yr
mf_{sgw} =	0.25	µg/s	7.8	g/yr	0.017 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.0008 µg/L

ATTACHMENT E-3
MASS FLUX CALCULATIONS - FLUORENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Fluorene (September 2020) **Figure No.** See Figure E-3

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

						Contour 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 = $(\mu g/L)/1000 = \mu g/cm^3$

Shallow Groundwater Flux

0.1-1 Contour

							Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		0.1			
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours		1	0.32	19	18
C=	0.316227766	µg/L =	0.000316228	µg/cm³	Geometric mean concentration between selected contours		10	3.16	45	18
L =	19	ft =	579.12	cm	Length of segment between selected contours [C]		35	18.71	85	18
b =	18	ft =	548.64	cm	Saturated thickness					
mf =	8.0E-03	µg/s	2.5E-01	g/yr	0.00055	lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	3.16	µg/L =	0.003162278	µg/cm³	Geometric mean concentration between selected contours	
L =	45	ft =	1371.6	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	1.9E-01	µg/s	6.0E+00	g/yr	0.0131	lbs/yr

1-35 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.013	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	18.71	µg/L =	0.018708287	µg/cm³	Geometric mean concentration between selected contours	
L =	85	ft =	2590.8	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	2.1E+00	µg/s	6.7E+01	g/yr	0.1464	lbs/yr
mf_{sgw} =	2.3	µg/s	73	g/yr	0.16	lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.007 µg/L

Appendix E

Evaluation of Potential Impact to River from Site Constituents in Groundwater Patchogue Former MGP Site Patchogue, New York

As described in the Fourth Quarter 2020 Groundwater Monitoring Report, some potentially MGP-related constituents were detected in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the December 2020 sampling event. It is expected these constituents are a result of the short-term disturbance of the subsurface that occurred during implementation of the ISS and, their presence is temporary. Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure E-1 for a depiction of shallow groundwater flow). The concentrations of some of the constituents that were detected and potentially mobile in the dissolved phase in groundwater (benzene and ethylbenzene) were below surface water quality criteria listed in the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004) that are applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). Therefore, they do not have the potential to impact the river. However, the concentration of one or more of seven constituents -- acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluorene, naphthalene, phenanthrene, and pyrene -- were detected above their respective applicable surface water quality criteria in downgradient monitoring wells proximal to the river (MW-3 and MW-4S). Although it was not anticipated that these constituent concentrations would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this. The concentrations of acenaphthene, benzo(a)anthracene, fluorene, naphthalene, and pyrene in the December 2020 samples were similar (within the same order of magnitude) to those in the March, June, and September 2020 samples. Since the estimated surface water concentrations of these five constituents based on the mass flux analyses using the March, June, and September 2020 data were below applicable surface water criteria, an additional estimation of concentrations of these constituents in the river is not necessary. However, due to increased concentrations of benzo(a)pyrene and phenanthrene in MW-3 in the December 2020 samples, an additional analysis was conducted for these constituents.

An analysis was conducted to assess the potential for discharge of site-related constituents in shallow groundwater to impact water quality in the Patchogue River. Noteworthy is that including benzo(a)pyrene in this evaluation is a very conservative measure in that benzo(a)pyrene has a very low aqueous solubility, is not readily mobile in groundwater, and is unlikely to have migrated from the on-Site source area, Moreover, the detection of this constituent in the monitoring locations is likely related to the disturbance of fine or colloid sized particles during purging or sampling activities. These particles are derived from within the well or the soil adjacent to the well that become suspended into the water column of the well as a result of disturbance during purging and sampling activities.

The evaluation was conducted by estimating the rate at which a mass of site-related constituents, dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of constituents from groundwater to surface water). This approach is consistent with that described

in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf=\Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved constituent from the source (µg/sec)

C_i = concentration of the constituent (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: $q_i=Ki$, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: $A_i=(L)(b)$, with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of mass flux of a constituent (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow groundwater. The horizontal dimension of the flow area, L, is equal to the width of the constituent plume, which is based on the isoconcentration contours developed from the results of the December 2020 sampling event (see Figures E-2 and E-3). The concentration of site constituents in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R=mf_{sgw}/D_R$$

Where: C_R = Concentration of constituent in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table E-1 provides the data used to determine the 7Q10 flow

in the Patchogue River. Attachment E-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.

To screen for potential impacts to the river, the estimated concentrations of benzo(a)pyrene and phenanthrene were calculated using the above-described method and compared to the New York State Ambient Water Quality Standards and Guidance Values (NYSDEC, June 1998 with Addenda dated April 2000 and June 2004). Listed in the table below are standards and guidance values for benzo(a)pyrene and phenanthrene that are applicable to Class C Fresh Water (no standards have been developed for these compounds).

Class C Fresh Surface Water Standards and Guidance Values

Substance	Water Class (per 6NYCRR Part 701)	Standard (µg/l)	Guidance Value (µg/l)	Protection for:
Benzo(a)pyrene	A, A-S, AA, AA-S, B, C, D	--	0.0012	Human Consumption of Fish
Phenanthrene	A, A-S, AA, AA-S, B, C	--	5.0	Fish propagation
	A, A-S, AA, AA-S, B, C, D	--	45	Fish survival

Attachments E-2 and E-3 contain the calculations and results for each of these constituents. The estimated concentrations in the Patchogue River resulting from site groundwater impacts are as follows:

- Benzo(a)pyrene = 0.00008 µg/L
- Phenanthrene = 0.025 µg/L

These conservatively estimated (i.e., biased high) concentrations are below the surface water guidance values listed above, including the lowest guidance value applicable to Class C surface waters. Also, the estimated concentrations are below the analytical laboratory detection limits for these constituents. Based on the evaluation conducted, site-related constituents in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

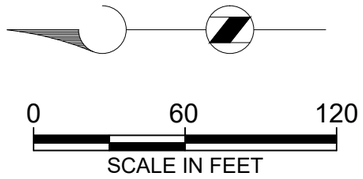
TABLE E-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

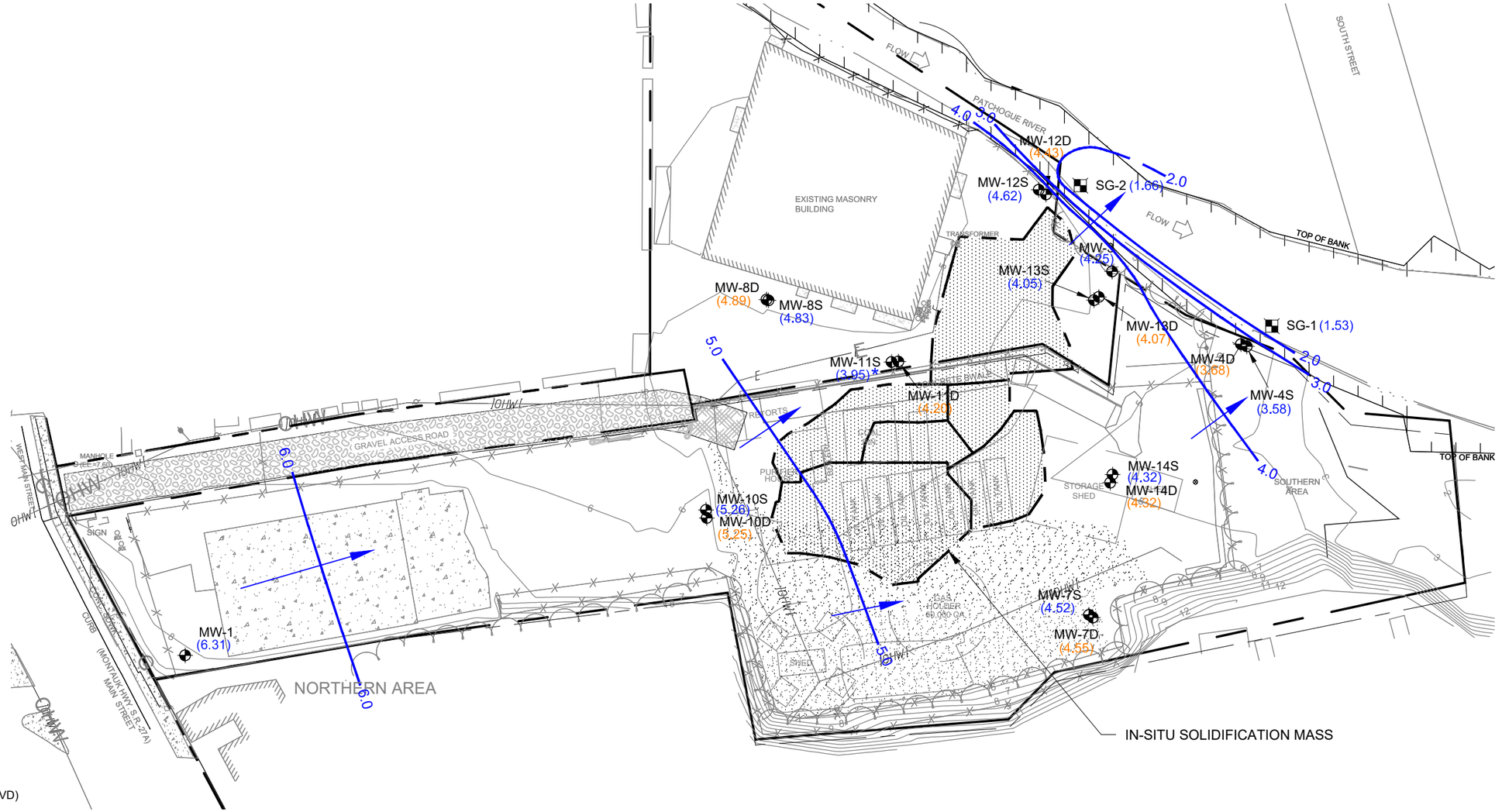
Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures





LEGEND:

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

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: February 2021

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

WATER TABLE ELEVATION CONTOUR MAP
DECEMBER 28, 2020

FIGURE

E-1

Path: C:\users\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

LEGEND:

- PROPERTY LINE
- FENCE
- 10 TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 0.1 ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.10 J BENZO(A)PYRENE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- ND NOT DETECTED
- J ESTIMATED CONCENTRATION
- 4.0 WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

MW-1 ND
MW-4D ND
MW-4S ND
MW-7D ND
MW-7S ND
MW-8D ND
MW-8S ND
MW-10D ND
MW-10S ND
MW-11D ND
MW-11S 0.16 J
MW-12D ND
MW-12S ND
MW-13D ND
MW-13S ND
MW-14D ND
MW-14S ND
SG-1
SG-2

Path: C:\users\asantiagobcpw\d0901435 File Name: BenzoApyrene_December2020 Plot Date: February 8, 2021 12:34 PM Cadd User: Alan Santiago

Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: January 2021	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK	BENZO(A)PYRENE IN GROUNDWATER DECEMBER, 2020	FIGURE E-2

0 60 120

SCALE IN FEET

LEGEND:

- PROPERTY LINE
- FENCE
- 10 — TOPOGRAPHIC CONTOUR
- MONITORING WELL LOCATION
- STAFF GAGE LOCATION
- 1 — ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED). LOGARITHMIC CONTOUR INTERVAL (µg/L) - DECEMBER 2020
- 0.74 — PHENANTHRENE CONCENTRATION IN GROUNDWATER (µg/L) - DECEMBER 2020
- ND — NOT DETECTED
- J — ESTIMATED CONCENTRATION
- 4.0 — WATER TABLE CONTOUR (FT., NAVD) DASHED WHERE INFERRED
- GENERALIZED DIRECTION OF GROUNDWATER FLOW

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

MW-1 ND 8.06

MW-8D ND

MW-8S ND

MW-11S 0.74

MW-11D ND

MW-10S ND

MW-10D ND

MW-12D ND

MW-12S ND

MW-13S 45

MW-13D ND

MW-4D ND

MW-4S 0.15 J

MW-14S ND

MW-14D ND

MW-7S ND

MW-7D ND

SG-1

SG-2

Brown AND Caldwell

SCALE: 1" = 60'

153021

DATE: January 2021

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

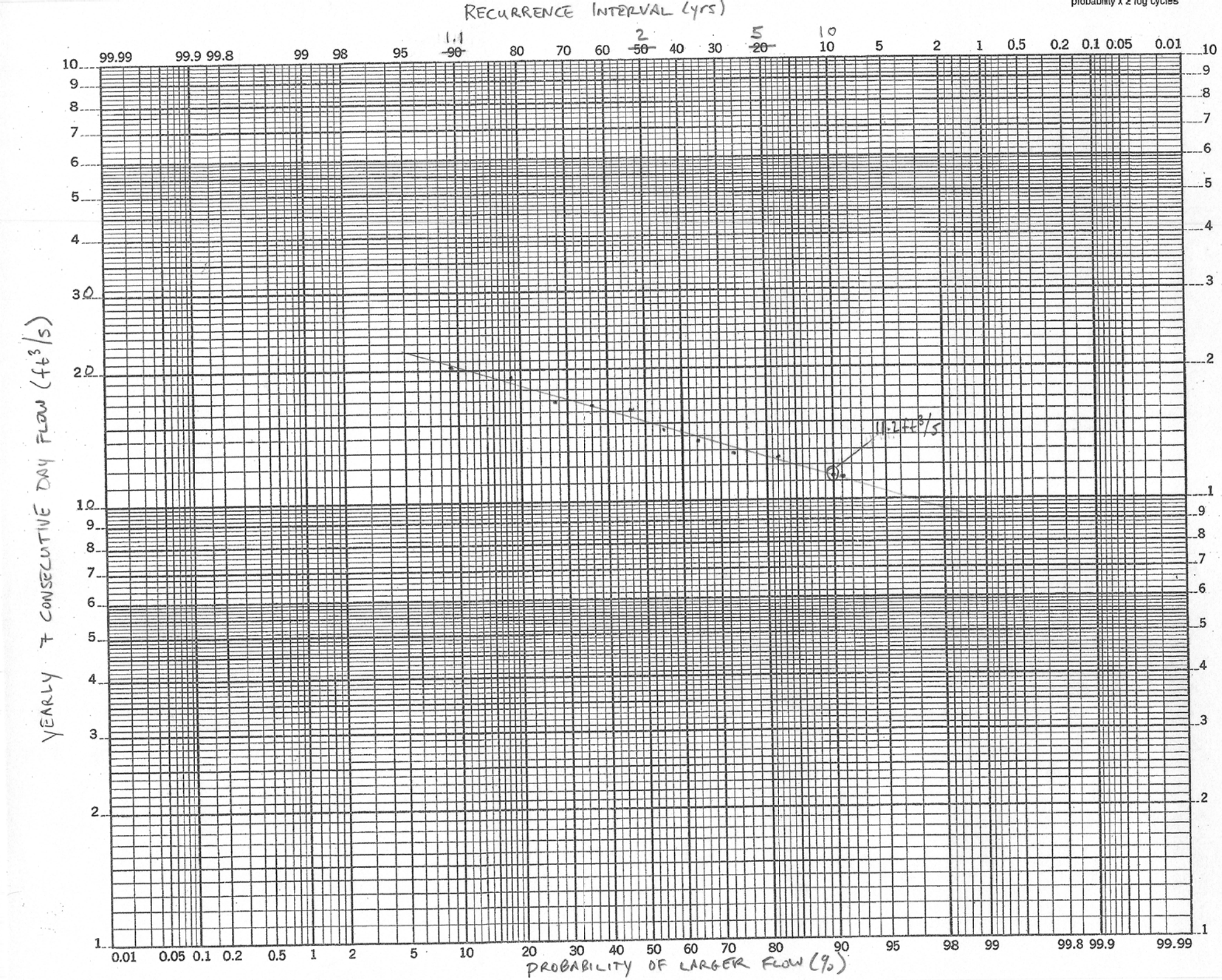
PHENANTHRENE IN GROUNDWATER (µg/L)
DECEMBER, 2020

FIGURE

E-3

Path: C:\users\asantiago\bcpw\d0901435 File Name: Phenanthrene_December2020 Plot Date: February 8, 2021 12:33 PM Cadd User: Alan Santiago

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT E-2
MASS FLUX CALCULATIONS - BENZO(A)PYRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Benzo(a)pyrene (December 2020) **Figure No.** See Figure E-2

$mf = kiA * C$

Where:
- mf = mass flux, µg/s
- k = hydraulic conductivity, cm/s
- I = hydraulic gradient, dimensionless
- A = cross-sectional area, $cm^{2\,(L * b)}$
- C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-0.1 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	0.1			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	0.1	0.10	16	18
C=	0.1	µg/L =	0.0001	µg/cm^3	Geometric mean concentration between selected contours				
L =	16	ft =	487.68	cm	Length of segment between selected contours [C]				
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	2.5E-02	µg/s	7.7E-01	g/yr	0.00170 lbs/yr				
mf_{sgw} =	0.02450	µg/s	0.773	g/yr	0.00170 lbs/yr				

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
- D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
- mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.00008 µg/L

ATTACHMENT E-3
MASS FLUX CALCULATIONS - PHENANTHRENE
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

Phenanthrene (December 2020) **Figure No.** See Figure E-3

$mf = kiA * C$

Where:
mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

0.1-1 Contour

							Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells		0.1			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours					
C=	0.316227766	µg/L =	0.000316228	µg/cm^3	Geometric mean concentration between selected contours		1	0.32	35	18
L =	35	ft =	1066.8	cm	Length of segment between selected contours [C]		10	3.16	67	18
b =	18	ft =	548.64	cm	Saturated thickness		13	11.40	26	18
mf =	1.7E-01	µg/s	5.3E+00	g/yr	0.01176	lbs/yr				

1-10 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	3.16	µg/L =	0.003162278	µg/cm^3	Geometric mean concentration between selected contours	
L =	67	ft =	2042.16	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	3.2E+00	µg/s	1.0E+02	g/yr	0.2251	lbs/yr

10-13 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	
C=	11.40	µg/L =	0.011401754	µg/cm^3	Geometric mean concentration between selected contours	
L =	26	ft =	792.48	cm	Length of segment between selected contours [C]	
b =	18	ft =	548.64	cm	Saturated thickness	
mf =	4.5E+00	µg/s	1.4E+02	g/yr	0.3150	lbs/yr
mf_{sgw} =	7.95	µg/s	251	g/yr	0.552	lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 0.025 µg/L

Appendix F: Evaluation of Potential Impact to River from Increased pH Levels in Groundwater – December 2020 Data

Appendix G

Evaluation of Potential Impact to River from Increased pH Levels in Groundwater
Patchogue Former MGP Site
Patchogue, New York

As described in the Fourth Quarter 2020 Groundwater Monitoring Report, elevated pH levels were measured in the shallow groundwater (i.e., the upper ±18 feet) in the vicinity of the ISS mass during the December 2020 groundwater sampling activities. The increased pH levels are considered a potential effect from implementation of ISS in the area and it is anticipated that the pH will decrease to pre-remedy levels with time (i.e., as ISS mass continues to fully cure). Shallow groundwater generally flows from northwest to the south and southeast across the Site toward the Patchogue River (see Figure G-1 for a depiction of shallow groundwater flow).

The pH levels measured at MW-3 and MW-13S in December 2020 were 10.46 and 9.60, respectively, which is above the acceptable range for pH levels applicable to the Patchogue River (the portion of the Patchogue River proximal to the Site is classified as a Class C water body per 6 NYCRR Part 897). In accordance with 6 NYCRR Part 703.3, pH shall not be less than 6.5 nor more than 8.5 in Class C water bodies. Although it was not anticipated that the increased pH levels would result in an impact to surface water quality if they discharged to the river, the following analysis was conducted to confirm this.

An analysis was conducted to assess the potential for discharge of shallow groundwater with elevated pH levels to impact water quality in the Patchogue River. The evaluation was conducted by estimating the rate at which a mass of hydroxide (OH^-), dissolved in groundwater, may be contributing to the surface water in the Patchogue River (i.e., the mass flux of hydroxide from groundwater to surface water). This approach is consistent with that described in the document entitled "Groundwater Remediation Strategies Tool" (American Petroleum Institute Publication 4730, December 2003). The equation for calculating the mass flux of a constituent is:

$$mf = \Sigma C_i q_i A_i$$

Where: mf = total mass flux of dissolved hydroxide from the source (µg/sec)

C_i = concentration of the hydroxide ion (µg/mL=µg/cm^3)

q_i = specific discharge through the flow area (cm/sec)

where: q_i=Ki, with K= hydraulic conductivity (cm/sec) and i=hydraulic gradient (cm/cm)

A_i = flow area perpendicular to flow (cm^2)

where: A_i=(L)(b), with L=width of constituent plume perpendicular to flow and b=plume thickness

In applying this evaluation to the Site, an estimate of the mass flux of hydroxide (in µg/sec) was calculated for shallow groundwater. The mass flux for the shallow groundwater was calculated across a cross-sectional flow area positioned at the downgradient side of the former MGP site, aligned perpendicular to groundwater flow (which in this case is typically parallel or sub-parallel to the shore line). The vertical dimension of the flow area is equal to the plume thickness (b) within the shallow

groundwater. The horizontal dimension of the flow area, L, is equal to the width of the hydroxide plume, which is based on the isoconcentration contours developed from the results of the December 2020 sampling event (see Figure G-2). The concentration of hydroxide in the Patchogue River resulting from groundwater discharge was estimated using the following equation:

$$C_R = mf_{sgw}/D_R$$

Where: C_R = Concentration of hydroxide in the river (µg/L)

mf_{sgw} = Mass flux to the river from shallow groundwater (µg/s)

D_R = Patchogue River volumetric flow (L/s)

To address some of the uncertainties in this evaluation, conservative assumptions were made in the above-described calculations which result in river water concentration estimates that are biased high. These assumptions are as follows:

- The hydraulic gradient (i) of groundwater is variable across the Site and thus, the highest hydraulic gradient value was used in the calculation. The larger the value of i, the greater the calculated value of mass flux.
- The plume thickness (b) was estimated conservatively by using the distance from the top of the water table to the top of the well screen of a deeper well at a well couplet, yet the actual plume thickness may be somewhat less, as site constituents were either not detected or detected at very low levels in the deeper wells positioned adjacent to the river. The larger the value of b, the greater the calculated value of mass flux.
- The river volumetric flow value used to calculate in river concentrations (11.2 ft^3/s or 317 L/s) was derived using a 7Q10 flow analysis (the lowest 7-day average flow that occurs, on average, once every 10 years) for the period April 1, 1958 through March 31, 1968 using data from a USGS river gauging station proximal the Site (USGS 01306000, Patchogue River at Patchogue New York). Thus, it was assumed for this estimate that the flow rate in the river is equal to that during periods of very low flow, and the lower the assumed river flow, the greater the estimated concentration in the river water. For comparison, the mean river flow rate at the same river gauging location using data from 1945 to 1976 is 20.4 ft^3/s (579 L/s). Table G-1 provides the data used to determine the 7Q10 flow in the Patchogue River. Attachment G-1 presents the data plotted on log probability paper and the resultant 7Q10 flow value.
- The mass flux estimate assumes that there is no pH buffering capacity in the river water; the buffering capacity would resist change to pH in the river water due to contributions of higher pH groundwater.

To screen for potential impacts to the river, the estimated concentration of hydroxide was calculated using the above-described method and then converted back to pH to compare to water quality standards for pH per NYCRR Part 703 Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations. Attachment G-2 contains the calculations and results for the analysis performed. The estimated concentration of hydroxide in the Patchogue River resulting from site groundwater impacts is 3.67 µg/L, which equates to a pH level of 7.45. For comparison, water quality data was obtained from a USGS river gauging station proximal to the Site (USGS 01306000, Patchogue River at Patchogue New York) for the period May 6, 1966 to August 12, 1996; pH levels measured at this station during this period ranged from 5.3 to 8.4 and had a median of 6.8. This median pH value was accounted for in the mass flux estimate. Specifically, the median pH of 6.8 in the Patchogue River, which equates to a hydroxide ion concentration of 1.07 µg/L was added to the estimated hydroxide ion concentration in the river contributed by site groundwater to reflect hydroxide conditions already present in the surface water. The conservatively-estimated (i.e., biased high) pH level of 7.45 is above the median level measured in

the river, which may be a result of the increased pH levels in shallow groundwater adjacent to the river; however, it is within the acceptable range for pH levels in Class C water bodies in accordance with 6 NYCRR Part 703.3 (i.e., pH shall not be less than 6.5 nor more than 8.5). Based on the evaluation conducted, the increased pH levels in shallow groundwater do not impact surface water quality in the Patchogue River.

Tables

TABLE G-1
SUMMARY OF DATA USED TO CALCULATE 7Q10 FLOW IN PATCHOGUE RIVER
PATCHOGUE FORMER MGP SITE
PATCHOGUE, NEW YORK

Water Year[(1)]	Low Flow (ft^3/s)	Rank	Probability
1961	20.1	1	0.091
1958	19.1	2	0.182
1960	16.9	3	0.273
1962	16.6	4	0.364
1959	16.0	5	0.455
1967	14.4	6	0.545
1964	13.6	7	0.636
1965	12.9	8	0.727
1963	12.4	9	0.818
1966	11.1	10	0.909

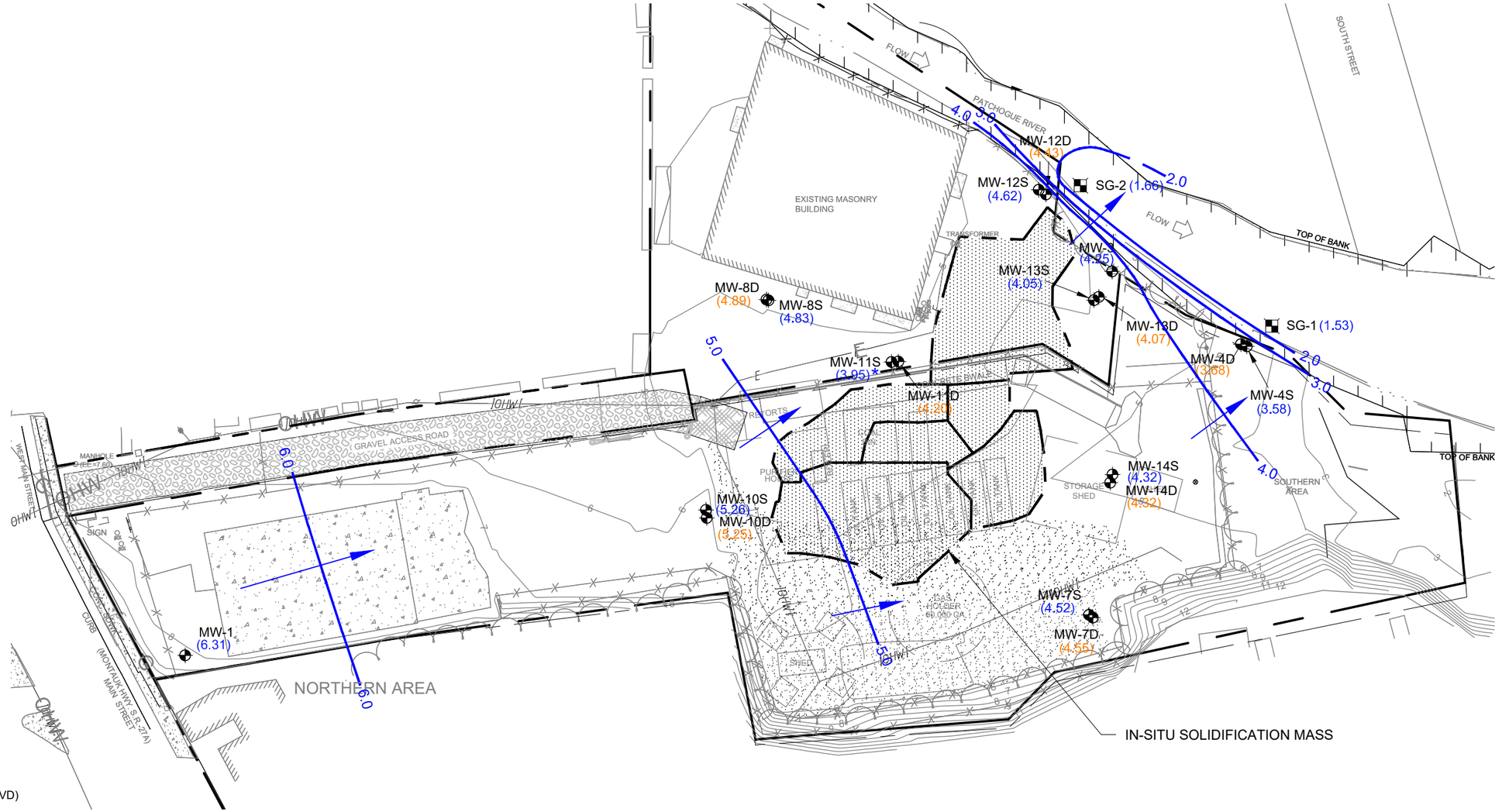
Notes:
(1) - 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through 3/31/1968.

ft^3/s - cubic feet per second

Figures

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

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

LINE OF CROSS-SECTIONAL AREA USED FOR MASS FLUX ESTIMATE

IN-SITU SOLIDIFICATION MASS

NORTHERN AREA

SOUTHERN AREA

MW-1 0.96
MW-7D 0.03
MW-7S 1.1
MW-8D 0.06
MW-8S 0.59
MW-10D 1.2
MW-10S 0.76
MW-11D 0.45
MW-11S 1.1
MW-12D 0.023
MW-12S 0.65
MW-13D 1.3
MW-13S 677
MW-14D 0.014
MW-14S 2.8
MW-4D 0.12
MW-4S 1.2

SG-1 SG-2 SG-3

PATCHOGUE RIVER

WEST MAIN STREET

SOUTH STREET

TOP OF BANK

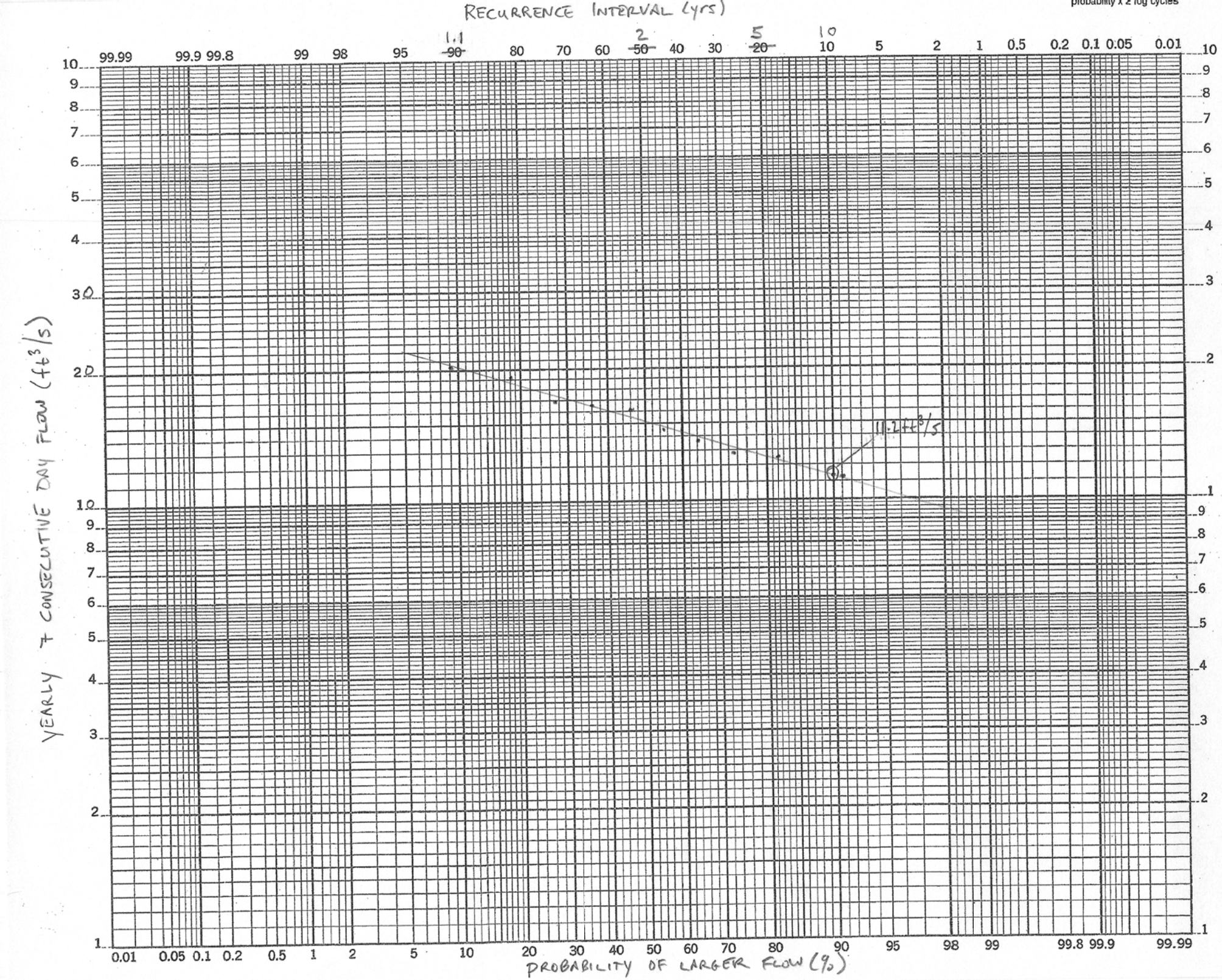
Brown AND Caldwell	SCALE: 1" = 60' 153021 DATE: January 2021	NATIONAL GRID PATCHOGUE FORMER MGP SITE VILLAGE OF PATCHOGUE, NEW YORK

HYDROXIDE(OH-) IN GROUNDWATER (µg/L)
DECEMBER, 2020

FIGURE
G-2

Path: C:\users\asantiago\bcpw\d09901435 File Name: Hydroxide(OH-)_December2020 Plot Date: February 9, 2021 12:33 PM Cadd User: Alan Santiago

Attachments


RECURRENCE INTERVAL (yrs)
1.1
2
5
10
99.99 99.9 99.8 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01
probability x 2 log cycles
YEARLY 7 CONSECUTIVE DAY FLOW (ft³/s)
11.2 ft³/s
0.01 0.05 0.1 0.2 0.5 1 2 5 10 20 30 40 50 60 70 80 90 95 98 99 99.8 99.9 99.99
PROBABILITY OF LARGER FLOW (%)

ATTACHMENT G-2
MASS FLUX CALCULATIONS - pH
PATCHOGUE RIVER

Mass Flux Calculation
Enter site data in yellow highlighted cells

pH (December 2020) **Figure No.** See Figure G-2

mf = kiA * C
Where: mf = mass flux, µg/s
k = hydraulic conductivity, cm/s
I = hydraulic gradient, dimensionless
A = cross-sectional area, $cm^{2\,(L * b)}$
C = (µg/L)/1000=µg/cm^3

Shallow Groundwater Flux

10-100 Contour

						Contour Interval	Geomean	Segment Length	Thickness
k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells	10			
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours	100	31.62	23	18
C=	31.6227766	µg/L =	0.031622777	µg/cm^3	Geometric mean concentration between selected contours	1000	316.23	63	18
L =	23	ft =	701.04	cm	Length of segment between selected contours [C]	4905	2214.72	25	18
b =	18	ft =	548.64	cm	Saturated thickness				
mf =	1.1E+01	µg/s	3.5E+02	g/yr	0.77275 lbs/yr				

100-1000 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	316.23	µg/L =	0.316227766	µg/cm^3	Geometric mean concentration between selected contours
L =	63	ft =	1920.24	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	3.1E+02	µg/s	9.6E+03	g/yr	21.1665 lbs/yr

1000-4905 Contour

k =	6.1E-03	hydraulic conductivity, cm/s			Geometric mean of PDI slug tests for shallow water table wells
i =	0.15	hydraulic gradient, dimensionless			Measured in vicinity of selected contours
C=	2214.72	µg/L =	2.214723459	µg/cm^3	Geometric mean concentration between selected contours
L =	25	ft =	762	cm	Length of segment between selected contours [C]
b =	18	ft =	548.64	cm	Saturated thickness
mf =	8.5E+02	µg/s	2.7E+04	g/yr	58.8258 lbs/yr
mf_{sgw} =	1164.11	µg/s	36711.4	g/yr	80.765 lbs/yr

River Concentration

$$C_R = \frac{mf_{sgw}}{D_R}$$

Where:
D_R = Patchogue River flow, L/s — 11.2 — 7Q10 flow (ft^3/s) calculated using data from a USGS river gauging station (USGS 01306000 PATCHOGUE RIVER AT PATCHOGUE NY), for period 4/1/1958 through
mf_{sgw} = Shallow groundwater flux — See above

D_R = 11.2 ft^3/s = 317 L/s

C_R = 4.74 µg/L
Note - Value is based on hydroxide ion (OH^-) from groundwater discharge plus ambient OH^- in river (1.07 µg/L).

pH_R = 7.45 std. units